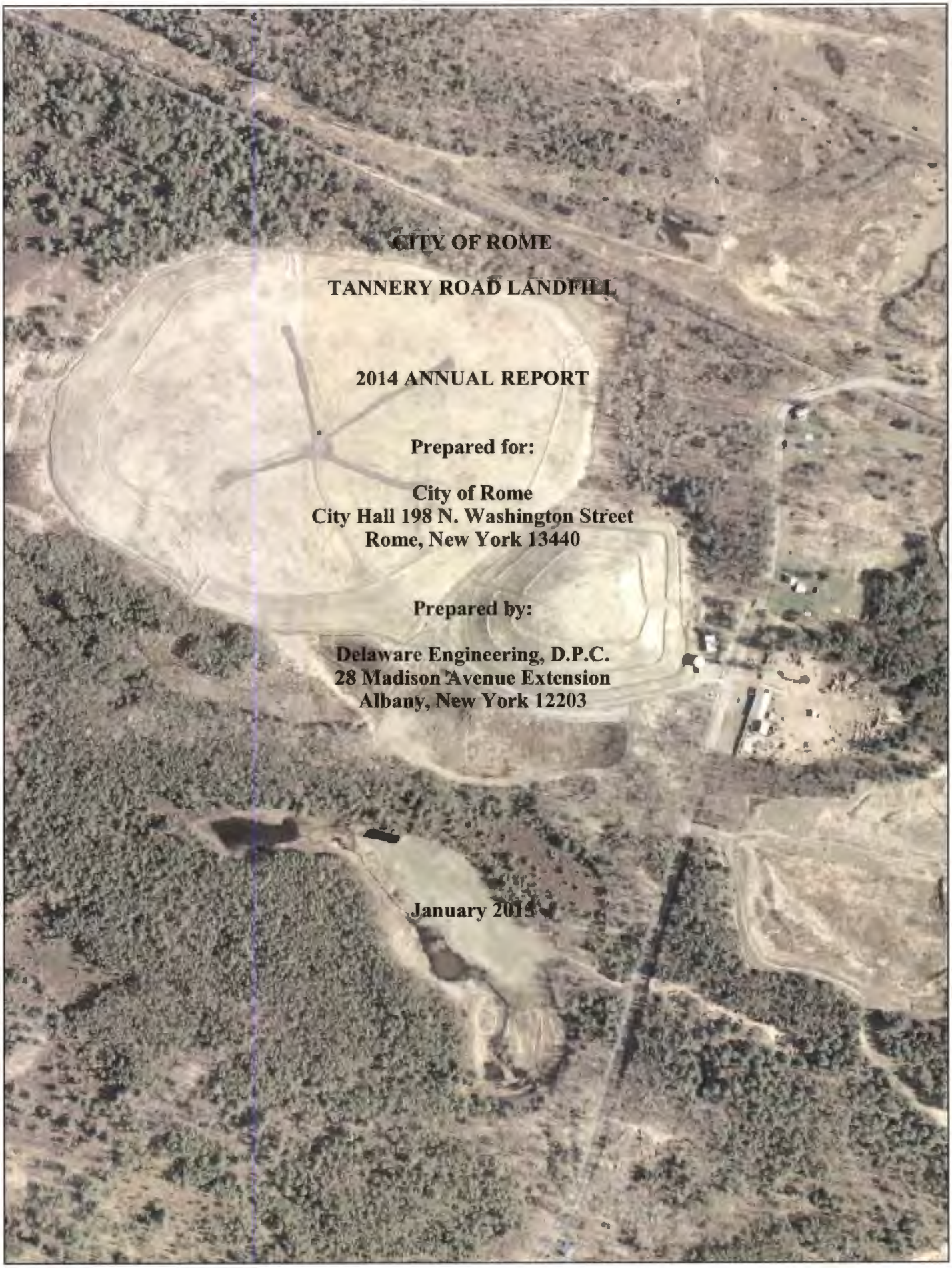

CITY OF ROME

TANNERY ROAD LANDFILL

2014 ANNUAL REPORT

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January 2015

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1.0 INTRODUCTION

This document presents the 2014 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 January 2014 through December 2014.

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

- Ground water and leachate quality analytical data.
- The amount of ground water/leachate collected from the recovery wells.
- Ground water contour maps for March, June, September and December 2014.
- Quarterly Inspection Data.

2.0 2014 AND HISTORICAL GROUND WATER AND LEACHTE ANALYTICAL DATA

Pursuant to the March 30, 2011 approval by the NYSDEC for a 15 month ground water monitoring schedule, ground water samples were collected in December 2014 from monitoring wells MW-1S, MW-2D, MW-3S, MW-4S, MW-5S, MW-7D and groundwater/leachate well LMW-10 and were analyzed for the Part 360 Baseline parameters. The next scheduled sampling event is March 2016.

Analytical results are summarized in Table 1 and tables summarizing the analytical data for each monitoring well from March 1999 to present are provided in Appendix A. Concentrations that exceeded applicable New York State ground water standards are presented in a bold font. Graphs of parameter concentration over time (trend graphs) for several leachate indicator parameters (alkalinity, BOD, COD, ammonia, chloride, iron, manganese, potassium, sodium, TDS and TOC) for each monitoring well are provided in Appendix B. Laboratory reporting sheets are provided in Appendix E.

Consistent with historical data, the December 2014 ground water iron concentrations in all downgradient ground water monitoring well samples and the upgradient MW-9S ground water sample were higher than the NYS ground water standard. The downgradient MW-3S, MW-5S and MW-7D ground water manganese concentrations were higher than the NYS ground water standard. Historical ground water data indicate that the ground water iron and manganese concentrations detected above the respective ground water standards in some of the down gradient landfill monitoring wells are most likely related to a combination of natural sources and

a landfill derived impact on ground water. The reported concentrations do not represent an environmental or public health threat.

The December 2014 ground water thallium concentration in the downgradient MW-3S sample and the MW-4S ground water selenium concentration were higher than the respective NYS ground water guidance value/ground water standard. Thallium has consistently been detected above the NYS ground water guidance value in ground water from monitoring MW-3S since December 2010 and as early as March 1999. Selenium has previously been detected above the NYS ground water standard in ground water from monitoring well MW-4S.

Consistent with historical data, the ground water pH from downgradient monitoring wells MW-1S, MW-2D, MW-3S, MW-4S and MW-5S and upgradient well MW-9S was less than the NYS ground water standard lower limit. The low pH is not considered related to the landfill. Historically, landfill leachate pH has typically been higher than the ground water standard lower limit.

The ground water field turbidity value in the ground water samples from all monitoring wells was above the NYS ground water standard. The turbidity is related to the movement of fine grain material into the well during the sampling procedure and is not a landfill related impact on ground water quality.

The trend graphs indicate that MW-3S ground water alkalinity, ammonia, BOD, COD, chloride, iron, manganese, potassium, sodium, TDS and TOC concentrations have exhibited a decreasing trend from the 1999 concentrations and appear to have stabilized at the current levels. MW-3 manganese concentrations exhibit an increasing trend from the low concentrations that occurred in 2004. Trend graphs indicate a decreasing trend in the MW-2D ammonia, chloride and potassium concentrations and the alkalinity, BOD, COD, chloride, iron, sodium, TDS and TOC concentrations are stable. Trend graphs indicate that MW-7D ground water alkalinity, ammonia, chloride, iron, potassium, sodium, TDS and TOC concentrations have exhibited a decreasing trend from the 1999 concentrations and appear to have stabilized at the current concentrations. The MW-1S, MW-4S and MW-5S ground water alkalinity, BOD, COD, ammonia, chloride, iron, manganese, potassium, sodium, TDS and TOC concentrations are generally stable.

3.0 2014 AND HISTORICAL GROUND WATER ELEVATION DATA

Ground water elevation data were measured quarterly from monitoring wells MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-7S, MW-9S, piezometer PZ-1 and leachate wells LMW-10 and LMW-11. Due to an obstruction in the well casing water level measurements could not be obtained from LMW-12. A summary of the 2014 ground water elevation data are provided in Table 1. Ground water contour maps for March, September, September and December 2014 are enclosed. Graphs depicting historical 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 elevation in MW-9S is lower than the water level elevation in landfill leachate wells LMW-10 and LMW-11

and lower than the ground water elevation in monitoring well MW-3S. 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 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 of background conditions.

The ground water elevation data for 2014 indicates that ground water elevations in monitoring wells MW-2S, MW-4S, MW-5S and MW-9S were higher than the LMW-10 leachate monitoring well ground water elevations in March, June September and December. The MW-3S ground water elevations were higher than the LMW-10 well in June, September and December. Ground water in MW-3S was frozen in March 2014. Data indicate a consistent inward gradient at monitoring wells MW-2S, MW-3S, MW-4S, MW-5S and MW-9S throughout 2014.

Trend graphs of historical ground water elevation data indicate an increasing trend at LMW-10 and LMW-11. With the exception of monitoring well MW-2S, ground water monitoring well ground water elevations exhibited a slight increasing trend. Ground water elevations in MW-2S indicate a decreasing trend.

Data indicate that the leachate recovery wells have reduced the overall head difference between the landfill and the monitoring wells located outside the slurry/sheet pile wall. Monitoring well ground water elevation and leachate monitoring well ground water elevation data indicate an inward gradient (toward the landfill) between perimeter landfill monitoring wells MW-2S, MW-3S, MW-4S, MW-5S and MW-9S and the landfill leachate monitoring wells within the landfill slurry wall during 2014.

4.0 2014 SITE INSPECTIONS

4.1 Weekly Site Inspections

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

4.2 Quarterly Inspections

Delaware Engineering performed quarterly 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.

Inspections conducted throughout 2014 of the area along the fence at the southeast end of the landfill adjacent to the constructed wetland indicate that erosion in this area continues to be a potential concern. Erosion channels are present in this area and although vegetation has colonized the channels, the potential for erosion of the landfill cap is a potential concern. Other areas where erosion is occurring are denoted on the attached figure. In the spring of 2015 it is

recommended that within erosion areas the soil be replaced, an erosion control mat (North American Green P550 or Curlex HVHD or equivalent) be installed and the areas seeded.

None of the operational flares have been ignited indicating low methane concentrations in the area of the landfill where the flares are located.

5.0 2014 GROUND WATER / LEACHATE PUMPING SYSTEM

For each recovery well, readings from the flow totalizers in the meter pit were recorded during the quarterly inspections. Leachate flows for each recovery well for the period from December 19, 2013 to December 4, 2014 are presented below. A summary of the 2014 leachate pumping volumes is provided in Table 3.

RW-1	0 gallons
RW-2	384,400 gallons
RW-3	459,700 gallons
RW-4	0 gallons
Total Gallons	844,100 gallons

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
2004 (1/29/04 to 1/20/05)	428,200	1,016,100	384,100	1,004,500	2,832,900
2005 (1/20/05 to (1/17/06)	-28,000	522,300	381,400	622,600	1,526,300
2006 (1/17/06 to (1/19/07)	0	1,132,116	474,600	0	1,606,716
2007 (1/19/07 to (1/23/2008)	-1,200	1,634,700	488,000	0	2,122,700
2008 (1/23/2008 to 1/23/2009)	0	1,162,600	594,500	0	1,757,100
2009 (1/23/2009 to 1/21/2010)	0	1,776,800	522,700	0	2,299,500
2010 (1/21/2010 to 1/31/2011)	0	418,700	454,700	0	873,400
2011 (1/31/2011 to 12/22/2011)	0	2,162,500	356,500	0	2,519,000
2012 (12/22/2011 to 12/06/2012	0	1,211,900	361,100	0	1,573,000
2013 (12/06/2012 to 12/19/2013	0	654,700	331,800	0	986,500
2014 (12/19/2013 t0 12/4/2014)	0	384,400	459,700	0	844,100
TOTAL	4,573,293	19,412,016	7,061,900	3,893,700	34,940,909

During 2014 recovery wells RW-1 and RW-4 were not functional. As noted in the 2005 annual report a video inspection of RW-1 and RW-4 revealed that the well casings had collapsed

prohibiting the discharge of leachate from the pumps. Continual shifting of the landfill mass has previously affected site monitoring wells and leachate recovery well RW-4.

TABLES

Table 1
City of Rome Tannery Road Landfill
December 2014 Ground Water Data

Sample Location	MW-1S	MW-2D	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	LMW-10	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Ammonia-Nitrogen (mg/L)	<0.1	0.2	0.3	0.2	<0.1	<0.1	<0.1	**109**	2.0
Biochemical Oxygen Demand (BOD) (mg/L)	<4.0	4	6	2	2	4	3.6	20	NS
Bromide (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2 (GV)
Chemical Oxygen Demand (COD) (mg/L)	38	26	38	113	26	42	49	117	NS
Chloride (mg/L)	<1.0	<1.0	<1.0	1.16	<1.0	<1.0	<1.0	97.3	250
Color (Pt-Co)	5	**70**	**70**	**70**	**15**	**70**	**70**	**70**	15
Nitrate-Nitrogen (mg/L)	0.04	0.27	0.1	0.08	0.09	0.16	0.13	<0.02	10
Sulfate (mg/L)	6.1	7.14	2.11	1.61	6.03	4.95	3.74	<1.0	250
Total Alkalinity (mg/L)	1	60	200	26	42	130	230	830	NS
Total Cyanide (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
Total Dissolved Solids (mg/L)	<5.0	30	155	80	50	120	220	**650**	500
Total Hardness (mg/L)	<5.0	61	215	39	82	142	116	318	NS
Total Kjeldahl Nitrogen (mg/L)	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	104	NS
Total Organic Carbon (mg/L)	26	7.5	11.3	41.6	7.9	17.6	21.2	38.2	NS
Total Phenols (mg/L)	<0.002	**0.002**	<0.002	**0.002**	**0.002**	<0.002	**0.003**	**0.01**	0.001
Part 360 Routine Metals									
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Calcium (mg/L)	1.22	19.9	65.1	11.5	24	42.8	40.4	82.1	NS
Iron (mg/L)	**1.02**	**1.77**	**21.9**	**3.89**	**3.8**	**2.76**	**0.614**	**25.2**	0.3
Lead (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	0.025
Magnesium (mg/L)	0.099	2.71	12.6	2.4	5.38	8.62	3.76	27.3	35
Manganese (mg/L)	<0.02	0.24	**0.859**	0.263	**0.564**	**1.5**	0.179	**0.807**	0.3
Potassium (mg/L)	<0.05	3.66	5.31	0.671	1.19	6.61	3.39	74	NS
Sodium (mg/L)	0.41	0.835	0.464	0.766	0.392	2.16	**52.5**	**84.2**	20
Part 360 Baseline Metals (mg/L)									
Aluminum (mg/L)	11.4	<0.1	<0.1	2.03	0.329	<0.1	0.194	<0.1	NS
Antimony (mg/L)	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.003
Arsenic (mg/L)	<0.005	0.008	0.006	0.006	<0.005	0.006	<0.005	<0.005	0.025
Barium (mg/L)	0.024	0.076	0.044	0.012	0.03	0.035	0.066	0.08	1
Beryllium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.003 GV
Boron (mg/L)	<0.05	<0.05	0.092	<0.05	<0.05	0.091	<0.05	0.686	1
Chromium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Chromium, Hexavalent (mg/L)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.05
Cobalt (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	NS
Copper (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02	<0.005	0.2
Mercury (mg/L)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0007
Nickel (mg/L)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.1
Selenium (mg/L)	0.006	0.007	<0.005	**0.012**	<0.005	0.008	<0.005	<0.005	0.01
Silver (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Thallium (mg/L)	<0.01	<0.01	**0.011**	<0.01	<0.01	<0.01	<0.01	<0.01	0.0005 GV
Vanadium (mg/L)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NS
Zinc (mg/L)	0.037	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	2
Field Parameters									
Conductivity (µmhos/cm)	20	150	440	140	140	330	140	2,400	NS
pH (s.u.)	**6.1**	**6.4**	**6**	**6.1**	**6**	6.5	**6.1**	6.6	6.5-8.5
Temperature (deg C)	7	8	5	7	6	9	6	7	NS
Turbidity (NTU)	**140**	**40**	**290**	**110**	**320**	**10**	**150**	**10**	5
Volatiles (ug/L)									
1,1,1,2-Tetrachloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1,1-Trichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1,2,2-Tetrachloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1,2-Trichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1
1,1-Dichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,1-Dichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,2,3-Trichloropropane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.04
1,2-Dibromo-3-chloropropane (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	0.04
1,2-Dibromoethane (EDB) (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
1,2-Dichlorobenzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	3
1,2-Dichloroethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.6
1,2-Dichloropropane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1
1,4-Dichlorobenzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7	3
2-Butanone (MEK) (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
2-Hexanone (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
4-Methyl 2-pentanone (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	50 (GV)
Acetone (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	50(GV)
Acrylonitrile (µg/L)	<25	<25	<25	<25	<25	<25	<25	<25	5
Benzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7	1
Bromochloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Bromodichloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	50(GV)
Bromoform (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	50(GV)
Bromomethane (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	5
Carbon disulfide (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	60 (GV)
Carbon tetrachloride (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Chlorobenzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**10**	5
Chloroethane (µg/L)	<10	<10	<10	<10	<10	<10	<10	**18**	5
Chloroform (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7
Chloromethane (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	5
cis-1,2-Dichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
cis-1,3-Dichloropropene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Dibromochloromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Dibromomethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Ethyl benzene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Iodomethane (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	5

Table 1
City of Rome Tannery Road Landfill
December 2014 Ground Water Data

Sample Location	MW-1S	MW-2D	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	LMW-10	NYSDEC Ground Water Standard/GV
Methylene Chloride (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Styrene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	50
Tetrachloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Toluene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
trans-1,2-Dichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
trans-1,3-Dichloropropene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
trans-1,4-Dichloro-2-butene (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	5
Trichloroethene (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Trichlorofluoromethane (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5
Vinyl Acetate (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	NS
Vinyl Chloride (µg/L)	<10	<10	<10	<10	<10	<10	<10	<10	2
Xylenes (Total) (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**48**	5*

Notes:
1) Results in bold typeface indicate that the result exceeds the applicable standard.
2) NS indicates No Standard.
3) GV indicates that the standard listed is a Guidance Value.
4) J indicates estimated value below the laboratory practical quantitation limit but above the detection limit
5) S indicates reported value suspect based on data validation

Table 2
Water Level Elevation Data, Comparison to LMW-10 and LMW-12
City of Rome Tannery Road Landfill

WELL	MEASURING POINT ELEVATION (FT.)	3/28/2013	6/21/2013	9/16/2013	12/19/2013	3/28/2014	6/20/2014	8/28/2014	12/4/2014
MW-1S	449.59	4.7	5.11	6.01	5.39	5.48	6.37	5.62	5.01
MW-2S	459.44	6.95	6.57	7.51	7.01	6.85	7.75	6.96	6.64
MW-3S	456.4	3.49	3.7	3.66	3.68	Frozen	3.67	3.71	3.47
MW-4S	456.19	3.84	3.87	4.23	4.08	3.74	3.96	3.88	3.89
MW-5S	457.15	3.62	4.61	4.97	4.76	4.62	4.6	4.69	4.36
MW-7S	452.25	8.31	7.78	9.03	8.04	8.24	7.73	7.92	8.28
MW-9S	456.38	3.85	3.87	3.95	3.82	3.64	3.83	3.82	3.68
LMW-10	486.3	34.62	34.66	34.77	34.17	33.92	34.21	34.04	34.33
LMW-11	502.4	51.61	50.29	51.68	51.04	50.78	51.11	50.87	51.37
LMW-12	483.11	31.78	31.72	31.94	*	*	*	*	
PZ-1	454.37	7.47	5.83	6.98	6.26	6.23	6.14	6.14	5.52
MW-7D	451.79	8.56	7.95	9.27	8.33	8.59	7.9	8.26	8.82

Ground Water Elevation ft/msl

WELL	3/28/2013	6/21/2013	9/16/2013	12/19/2013	3/28/2014	6/20/2014	8/28/2014	12/4/2014
MW-1S	444.89	444.48	443.58	444.2	444.11	443.22	443.97	444.58
MW-2S	452.49	452.87	451.93	452.43	452.59	451.69	452.48	452.8
MW-3S	452.91	452.7	452.74	452.72	Frozen	452.73	452.69	452.93
MW-4S	452.35	452.32	451.96	452.11	452.45	452.23	452.31	452.3
MW-5S	453.53	452.54	452.18	452.39	452.53	452.55	452.46	452.79
MW-7S	443.94	444.47	443.22	444.21	444.01	444.52	444.33	443.97
MW-9S	452.53	452.51	452.43	452.56	452.74	452.55	452.56	452.7
LMW-10	451.68	451.64	451.53	452.13	452.38	452.09	452.26	451.97
LMW-11	450.79	452.11	450.72	451.36	451.62	451.29	451.53	451.03
LMW-12	451.33	451.39	451.17	*	*	*	*	*
PZ-1	446.9	448.54	447.39	448.11	448.14	448.23	448.23	448.85
MW-7D	443.23	443.84	442.52	443.46	443.2	443.89	443.53	442.97

LMW-12 Comparison

WELL	3/28/2013	6/21/2013	9/16/2013	12/19/2013	3/28/2014	6/20/2014	8/28/2014	12/4/2014
MW-1S	6.44	6.91	7.59	*	*	*	*	*
MW-2S	-1.16	-1.48	-0.76	*	*	*	*	*
MW-3S	-1.58	-1.31	-1.57	*	*	*	*	*
MW-4S	-1.02	-0.93	-0.79	*	*	*	*	*
MW-5S	-2.2	-1.15	-1.01	*	*	*	*	*
MW-7S	7.39	6.92	7.95	*	*	*	*	*
MW-9S	-1.2	-1.12	-1.26	*	*	*	*	*
LMW-10	-0.35	-0.25	-0.36	*	*	*	*	*
LMW-11	0.54	-0.72	0.45	*	*	*	*	*
PZ-1	4.43	2.85	3.78	*	*	*	*	*
MW-7D	8.1	7.55	8.65	*	*	*	*	*

LMW-10 Comparison

WELL	3/28/2013	6/21/2013	9/16/2013	12/19/2012	3/28/2014	6/20/2014	8/28/2014	12/4/2014
MW-1S	6.79	7.16	7.95	7.93	8.27	8.87	8.29	7.39
MW-2S	-0.81	-1.23	-0.4	-0.3	-0.21	0.4	-0.22	-0.83
MW-3S	-1.23	-1.06	-1.21	-0.59	Frozen	-0.64	-0.43	-0.96
MW-4S	-0.67	-0.68	-0.43	0.02	-0.07	-0.14	-0.05	-0.33
MW-5S	-1.85	-0.9	-0.65	-0.26	-0.15	-0.46	-0.2	-0.82
MW-7S	7.74	7.17	8.31	7.92	8.37	7.57	7.93	8
MW-9S	-0.85	-0.87	-0.9	-0.43	-0.36	-0.46	-0.3	-0.73
PZ-1	4.78	3.1	4.14	4.02	4.24	3.86	4.03	3.12
MW-7D	8.45	7.8	9.01	8.67	9.18	8.2	8.73	9

LMW-11 Comparison

WELL	3/28/2013	6/21/2013	9/16/2013	12/19/2013	3/28/2014	6/20/2014	8/28/2014	12/4/2014
MW-1S	5.9	7.63	7.14	7.16	7.51	8.07	7.56	6.45
MW-2S	-1.7	-0.76	-1.21	-1.07	-0.97	-0.4	-0.95	-1.77
MW-3S	-2.12	-0.59	-2.02	-1.36	Frozen	-1.44	-1.16	-1.9
MW-4S	-1.56	-0.21	-1.24	-0.75	-0.83	-0.94	-0.78	-1.27
MW-5S	-2.74	-0.43	-1.46	-1.03	-0.91	-1.26	-0.93	-1.76
MW-7S	6.85	7.64	7.5	7.15	7.61	6.77	7.2	7.06
MW-9S	-1.74	-0.4	-1.71	-1.2	-1.12	-1.26	-1.03	-1.67
PZ-1	3.89	3.57	3.33	3.25	3.48	3.06	3.3	2.18
MW-7D	7.56	8.27	8.2	7.9	8.42	7.4	8	8.06

Notes:

1) A negative number indicates an inward gradient.

2) * Obstruction in well casing unable to obtain water level measurement.

Table 3
Operational Data
City of Rome
Tannery Road Landfill

Pump Station at Tannery Road
Hour Meters

	12/19/2013	3/28/2014	6/20/2014	8/28/2014	12/4/2014	12/19/2013 - 12/04/2014
Pump #1	102,656	103,567	104,928	105,626	106,436	3,780
Pump #2	87,180	87,924	89,019	89,592	90,252	3,072

Totalizers in Meter Pit

	12/19/2013	3/28/2014	6/20/2014	8/28/2014	12/4/2014	12/19/2013 - 12/04/2014
RW-1	4,538,600	4,538,600	4,538,600	4,538,600	4,538,600	0
RW-2	4,028,600	4,028,600	4,291,200	4,347,200	4,413,000	384,400
RW-3	4,602,200	4,752,300	4,811,900	4,925,600	5,061,900	459,700
RW-4	Removed	Removed	Removed	Removed	Removed	0
Total						844,100

Hour Meters

	12/19/2013	3/28/2014	6/20/2014	8/28/2014	12/4/2014	12/19/2013 - 12/04/2014
RW-1	19,686.5	19,686.5	19,686.5	19,686.5	19,686.5	0
RW-2	76,124.3	76,124.3	77,529.4	77,630.2	6,015.0	6,015
RW-3	84,218.2	86,588.4	88,546.3	90,163.5	91,154.1	6,936
RW-4	28,401.5	28,401.5	28,401.5	28,401.5	28,401.5	0

FIGURES

ELEV. 452.74
MW-9S

MW-2PD
MW-2PS
MW-2D
MW-2S
ELEV. 452.59

SLURRY WALL LOCATION

SLURRY WALL LOCATION

MW-1S ELEV. 444.11
MW-1D

ELEV. 448.14

PZ-1

FROZEN
MW-3S

RW-2

RW-1

LF-2
MW-12
(SEE NOTE BELOW)

LF-1

452

MW-11
ELEV. 451.62

RW-4

SLURRY WALL LOCATION

MW-10
ELEV. 452.38

RW-3

LF-3

451

450

449

447

446

445

ELEV. 452.45
MW-4S
MW-4P
MW-4D

ONEIDA HERKIMER COUNTY SOLID WASTE LANDFILL

DO-2

DO-3

MW-5D
DO-1
MW-5S
ELEV. 452.53

SLURRY WALL LOCATION

MW-7D
MW-7S ELEV. 444.01

TANNERY ROAD

LEGEND

EXISTING CONTOURS

450 EXISTING GROUNDWATER CONTOURS

MW-4S WELL ELEVATIONS
ELEV. 452.45

Note: for MW-12
* Obstruction in well casing unable to obtain water level measurement.

GRAPHIC SCALE
200 0 100 200
(IN FEET)

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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 303, ONEONTA, NY 13820 - 607.432.8073
28 NICOLE DRIVE EXTENSION, ALBANY, NY 12203 - 518.452.1290
6 TOWNSEND STREET, HAULTON, NY 13666 - 607.865.9234

REVISIONS

NO.	DATE	DESCRIPTION

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: MARCH 2014
GROUNDWATER TABLE

SHEET: 1

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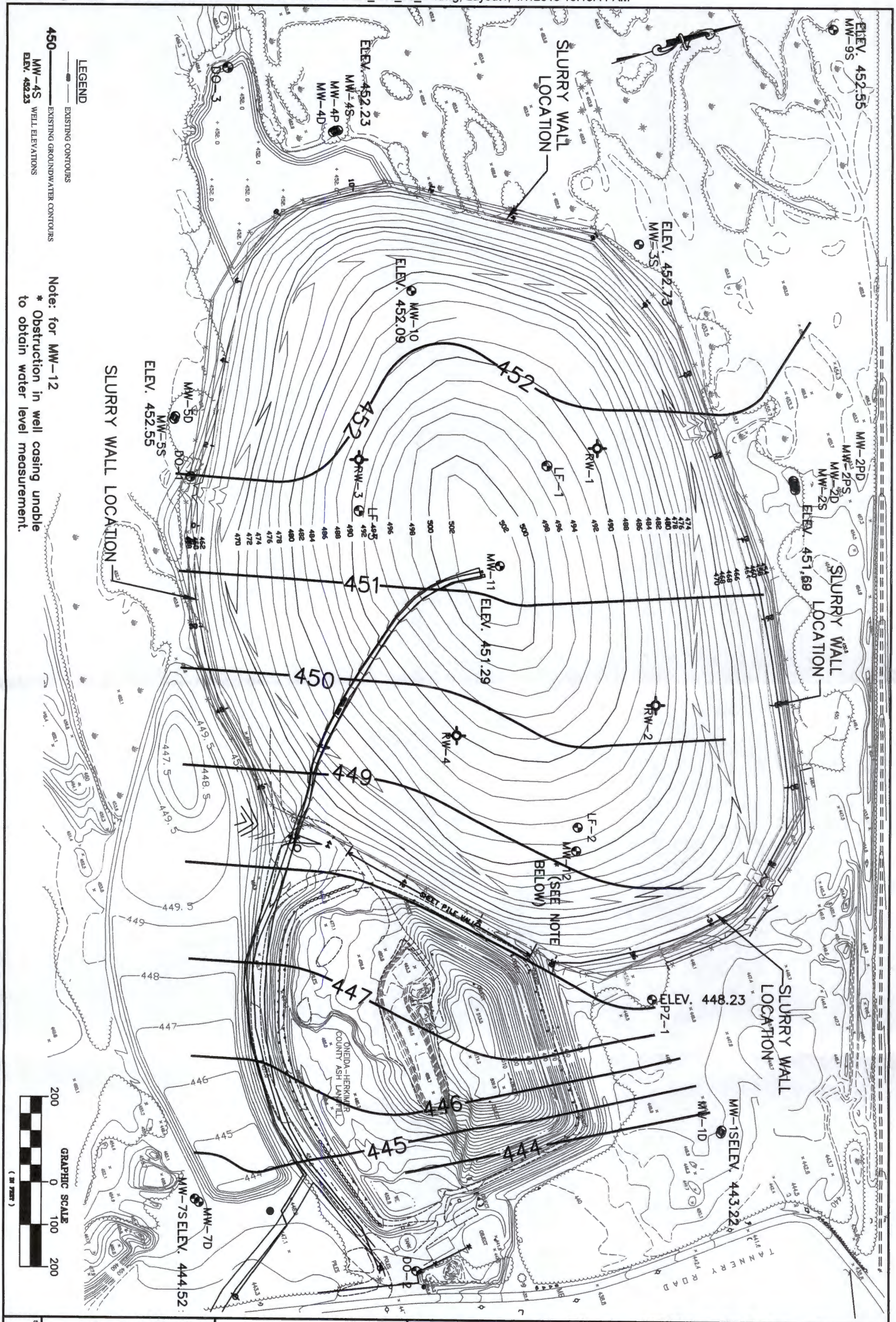

LEGEND

—— EXISTING CONTOURS

450 —— EXISTING GROUNDWATER CONTOURS

MW-4S WELL ELEVATIONS
ELEV. 452.23

Note: for MW-12
* Obstruction in well casing unable to obtain water level measurement.

SLURRY WALL LOCATION

SHEET:	GROUNDWATER CONTOUR MAP SHALLOW OVERBURDEN DATED: JUNE 2014 GROUNDWATER TABLE	TANNERY ROAD LANDFILL CITY OF ROME, NEW YORK
1		

REVISIONS

NO.	DATE	DESCRIPTION

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
6-12 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.8073
28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.92354

DATE:	01-06-15
DRAWN BY:	KJ
SCALE:	AS SHOWN
REVIEWED BY:	EF
PROJECT NO.:	
FILE:	

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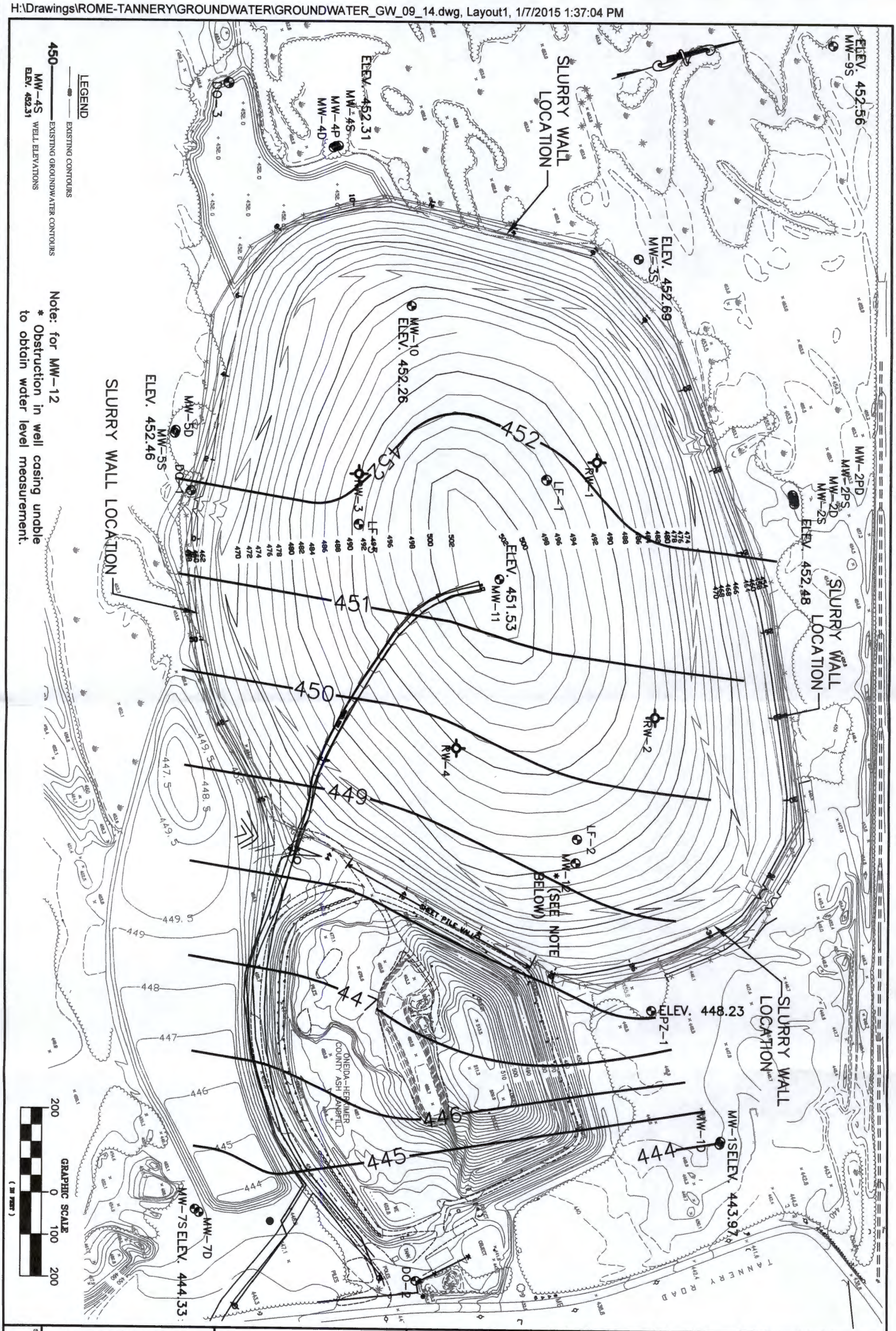

LEGEND

—— EXISTING CONTOURS

450 —— EXISTING GROUNDWATER CONTOURS

MW-4S WELL ELEVATIONS
ELEV. 452.31

Note: for MW-12
* Obstruction in well casing unable to obtain water level measurement.

SHEET: 1	GROUNDWATER CONTOUR MAP SHALLOW OVERBURDEN DATED: AUGUST 28, 2014 GROUNDWATER TABLE	TANNERY ROAD LANDFILL CITY OF ROME, NEW YORK

REVISIONS

NO.	DATE	DESCRIPTION

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
8-12 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.6073
28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.92354

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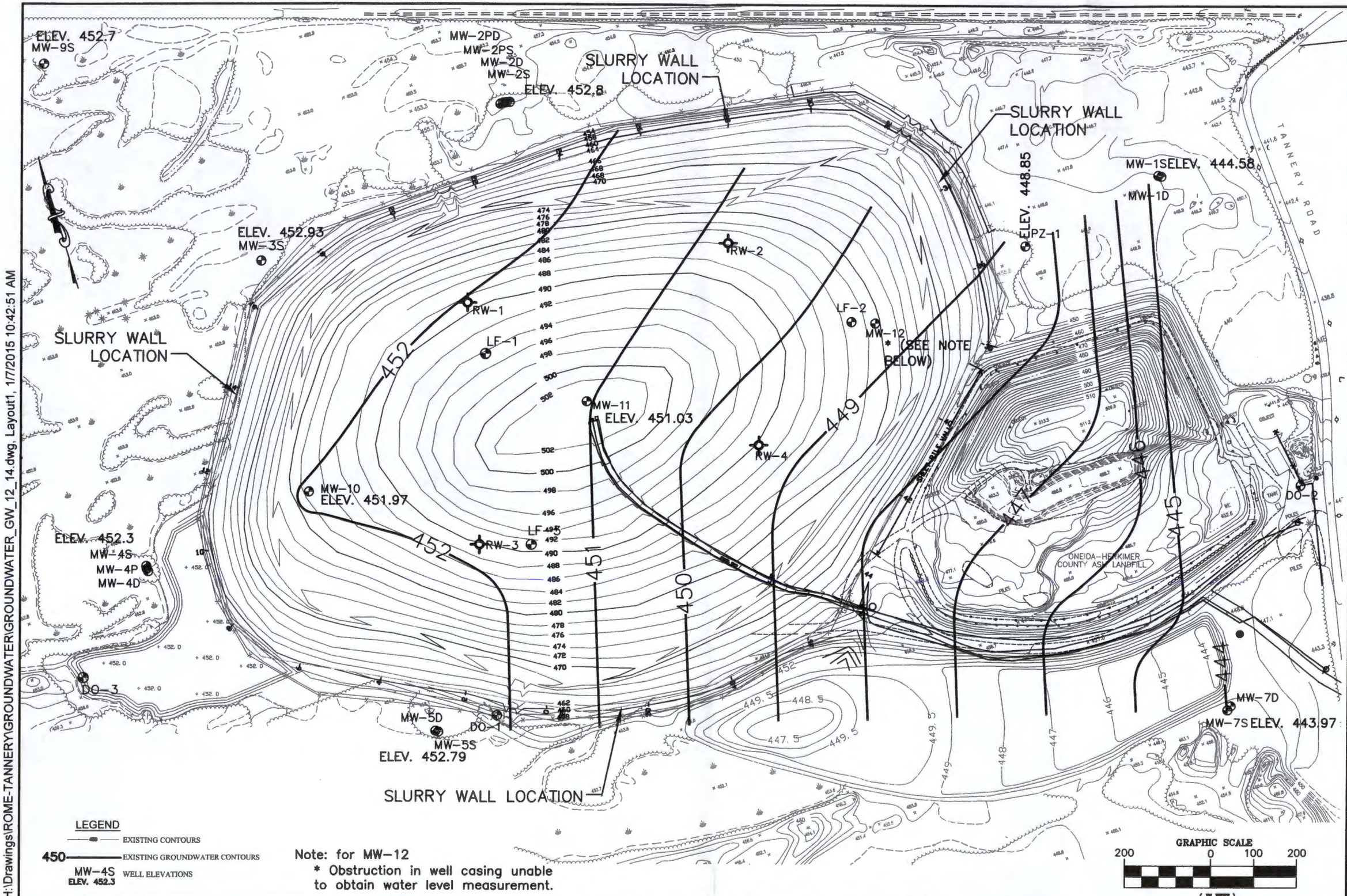

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PROJECT NO.:
FILE:

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
8-12 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.8073
28 AIRLINE DRIVE EXTENSION, ALBANY, NY 12233 - 518.452.1290
6 TOWNSEND STREET, WALTON, NY 13856 - 607.865.6264

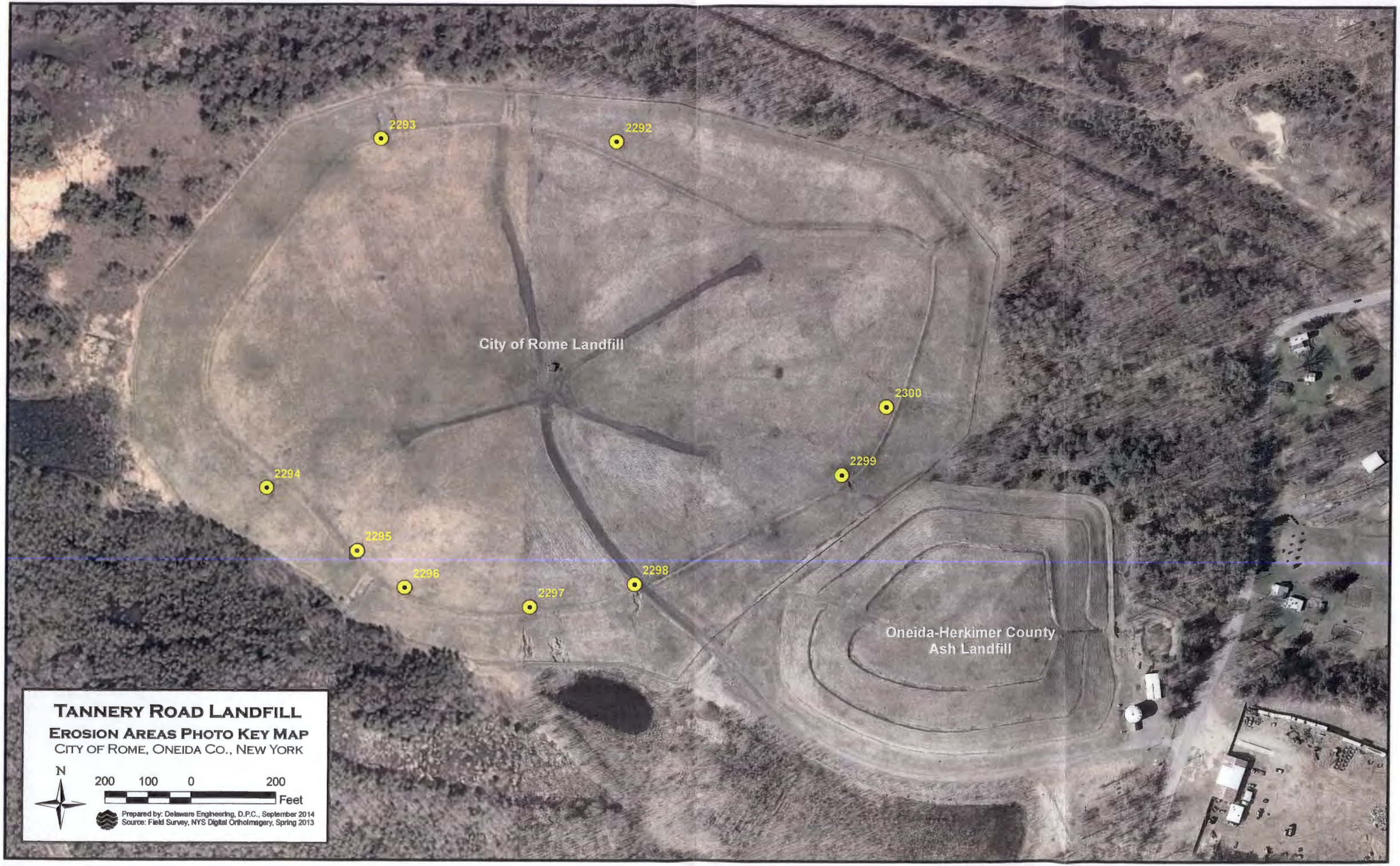
REVISIONS

NO.	DESCRIPTION	DATE

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: DECEMBER 2014
GROUNDWATER TABLE

SHEET: 1


2293
2292
City of Rome Landfill
2300
2299
2294
2295
2296
2297
2298
Oneida-Herkimer County
Ash Landfill
TANNERY ROAD LANDFILL
EROSION AREAS PHOTO KEY MAP
CITY OF ROME, ONEIDA CO., NEW YORK
N
200 100 0 200
Feet
Prepared by: Delaware Engineering, D.P.C., September 2014
Source: Field Survey, NYS Digital Orthoimagery, Spring 2013

APPENDIX A

HISTORICAL ANALYTICAL DATA SUMMARY TABLES

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

Date	NYSDEC Ground Water Standard	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	03/23/04	06/22/04	09/28/04	12/16/04	03/22/05	06/28/05	09/27/05	12/06/05	03/28/06	06/28/06
Field Parameter																															
Conductivity (µmhos/cm)	NS	31	103	398	89	39	39	31	23	23	34	62	37	75	67	190	58	376	21	180	20	24	35	44	73	51	71	130	40	20	230
pH (s.u.)	6.5 - 8.5	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	**5.22**	**5.11**	**5.3**	**6.2**	6.66	**6.2**	6.8	7.4	**5.9**	**6.2**
Temperature (deg C)	NS	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	4.2	11.5	15	7	4.3		12	6	5	16
Turbidity (NTU)	5	**785**	**925**	**560**	**140**	**222**	**161**	**527**	**195**	**316**	**186**	**88**	**90**	**145**	**68**	**126**	**8**	**65**	**556**	**52**	**50**	**113**	**73**	**29**	**140**	**124**	**120**	**5**	**68**	**218**	3
Dissolved Oxygen (mg/L)	NS																														
Redox	NS																														
Part 360 Leachate Indicator Parameters																															
Ammonia-Nitrogen (mg/L)	2	<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	<0.030	0.059	0.14	<0.03	0.09	<0.03	1.3	<0.03	0.046	<0.030
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	8	<4.0	<2.0	2	<2.0	30	<2.0	<4.0		<4.0	<4.0	<4.0	<4.0	4.6	12	<4.0	8.6	<4	<4.0	<4	<4.0	<4	<4	<4	<4.0	<4.0	<4.0	<4	<4	<4.0
Bromide (mg/L)	2	<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	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	0.14	<0.1	<0.1	<0.10
Chemical Oxygen Demand (mg/L)	NS	52	100	25	14	12	6.7	96	19	36	26	34	14	24	45	66	9.9	<1.0	33	25	35	18	27	7.9	9.7	22	27	30	15	12	<5.0
Chloride (mg/L)	250	<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	3.4	3.3	2.5	2.7	2.1	2.7	4.1	<1.0	<0.01	2.3
Color (Pt-Co)	15		46					**30**					**50**	**20**					8					**180**					**160**	**100**	
Nitrate-Nitrogen (mg/L)	10	<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	0.16	0.17	0.14	<0.1	<0.1	0.12	0.18	<0.1	<0.1	<0.10
Sulfate (mg/L)	250	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	7.4	8.2	7.1	6.6	7.3	6.8	6.4	6.6	9	6.1
Total Alkalinity (mg/L)	NS	<100	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	<1.000	6	8	4	4	3	48	1	2	2
Total Cyanide (mg/L)	0.2		<0.010					<0.010					<0.010	<0.010					<0.01					0.01					<0.01	<0.01	
Total Dissolved Solids (mg/L)	500	140	140	260	39	30	**1,900**	26	<4.0	14	56	190	<4.0	170	26	120	42	280	30	120	34	32	20	52	14	14	50	88	36	20	20
Total Hardness (mg/L)	NS	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	7.8	3.7	5.4	<7	<7.0	7	7	6.3	<7	<7.0
Total Kjeldahl Nitrogen (mg/L)	NS	<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	0.53	0.69	0.28	0.2	0.32	0.66	0.66	0.27	0.17	0.37
Total Organic Carbon (mg/L)	NS	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	4.1	8.6	3	3.2	5.5	8.3	11	3.4	6.3	3.8
Total Phenols (mg/L)	0.001	<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**	<0.002	<0.002	<0.002	<0.002	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																															
Cadmium (mg/L)	0.005	<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	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010
Calcium (mg/L)	NS	3.26	29.1	43.2	4.2	6.7	15	3.1	1.4	1.9	1.7	5.7	2.2	1	1.3	18	1.4	62	3.4	18	<1	1.5	1.5	2.2	0.73	<1.0	2.8	15	1.7	1.5	<1.0
Iron (mg/L)	0.3*	**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**	**2.4**	**2.3**	**1.1**	0.16	**4.2**	**5.9**	**13**	**3.2**	**1.9**	**1.9**
Lead (mg/L)	0.025	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	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	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	<1.0	<1	<1	0.25	<1.0	<1.0	2.6	<1	<1	<1.0
Manganese (mg/L)	0.3*	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	0.049	0.1	0.061	0.014	0.049	0.1	**0.54**	0.046	<0.01	0.033
Potassium (mg/L)	NS	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	<1.0	<1	<1	0.27	<1.0	<1.0	2.9	<1	<1	<1.0
Sodium (mg/L)	20	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	1.1	1.2	1.2	0.74	<1.0	<1.0	2.5	1	1.1	1.3
Part 360 Additional Baseline Metals																															
Aluminum (mg/L)	NS		32					25					5	8.9					3					2.1					2.8	3.3	
Antimony (mg/L)	0.003		<0.015					**0.012**					<0.010	<0.010					<0.01					<0.01					<0.01	<0.01	
Arsenic (mg/L)	0.025		0.018					<0.010					<0.010	<0.010					0.013					<0.01					<0.01	<0.01	
Barium (mg/L)	1		0.431					<0.2					<0.2	<0.2					<0.2					<0.2					<0.1	<0.2	
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01	<0.01	
Boron (mg/L)	1		<0.100				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5		<0.01					<0.5	<0.5	
Chromium (mg/L)	0.05		0.047					0.01					<0.010	<0.010					<0.01					<0.01					<0.01	<0.01	
Chromium, Hexavalent (mg/L)	0.05		<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01	**3.3**	
Cobalt (mg/L)	NS		<0.020					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01	<0.01	
Copper (mg/L)	0.2		0.041					0.022					<0.010	<0.010					0.012					<0.01					<0.01	<0.01	
Mercury (mg/L)	0.0007		<0.0002					0.00053					<0.0002	0.000300					<0.0002					<0.0002					0.00042	<0.0002	
Nickel (mg/L)	0.1		0.039					0.012					<0.010	<0.010					<0.01					<0.01					<0.01	<0.01	
Selenium (mg/L)	0.01		<0.005					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01	<0.01	
Silver (mg/L)	0.05		<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					<0.01	<0.01	
Thallium (mg/L)	0.0005 (GV)		<0.010					<0.010					<0.010	<0.010					<0.01					<0.01					**0.02**	**0.024**	
Vanadium (mg/L)	NS		0.031					0.012					<0.010	<0.010					<0.01					<0.01					<0.01	<0.01	
Zinc (mg/L)	2		0.149					0.1					0.04	0.033					0.094					0.022					0.027	0.021	
Part 360 Volatile Organics																															
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,2,3-Trichloropropane (µg/L)	0.04												<5.0	<5.0					<5					<1					<1	<1	
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,4-Dichlorobenzene (µg/L)	3		<5.0					<10.0					<10.0	<10.0					<5					<1					<1	<1	
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<5	
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<5	
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<20.0	<20.0				<10	<10					<10					<5	<5	
Acetone (µg/L)	50 (GV)		<10.0					<20.0					<5.0	<5.0				11	<10					<10					<10	<5	
Acrylonitrile (µg/L)	5		<100					<5.0					<5.0	<5.0					<20					<5					<20	<20	
Benzene (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
Bromodichloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Carbon disulfide (µg/L)	60 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chlorobenzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	

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

Date	NYSDEC Ground Water Standard	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	03/23/04	06/22/04	09/28/04	12/16/04	03/22/05	06/28/05	09/27/05	12/06/05	03/28/06	06/28/06
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1	<1	
Dibromomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<5					<1				<1	<1	
Ethyl benzene (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<5	<5					<1				<1	<1	
Iodomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<10					<10				<5	<5	
Methylene Chloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<10	<10					<10				<5	<1	
Styrene (µg/L)	5							<5					<5	<5				<5	<5					<1				<1	<1	
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1	<1	
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1	<1	
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1	<1	
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<50.0					<50.0	<10.0				<5	<5					<1				<1	<1	
trans-1,4-Dichloro-2-butene (µg/L)	5							<50					<50	<10					<10					<10				<5	<5	
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1	<1	
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1	<1	
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5				<5	<5	
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1	<1	
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1	<1	
1,2-Dichloroethene - Total	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
Monitoring Well MW-1S Ground Water Analtyical Data

Date	NYSDEC Ground Water Standard	09/26/06	12/13/06	03/15/07	06/21/07	09/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/20008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Field Parameter																							
Conductivity (µmhos/cm)	NS	47	20	19	23	62	18	18	18	44	152	18	28	76	17	25	14	43	19	25	24	20	20
pH (s.u.)	6.5 - 8.5	7.07	**5.64**	**5.02**	**5.44**	**5.7**	**5.34**	**5.43**	**5.23**	**6.26**	6.84	**5.58**	**5.16**	**5.75**	6.75	**5.98**	6.66	6.74	**5.69**	7.05	7.65	**5.9**	**6.1**
Temperature (deg C)	NS	13.6	8.6	3.7	12.5	12.5	5.6	4.6	11.6	13.7	5.7	4.3	12	12	7	5.3	12.1	13.6	5.8	3.7	12.2	13	7
Turbidity (NTU)	5	-	**65**	0	**119**	**116**	**57**	**30**	**83**	4	4	**50**	**18**	**91**	**10**	**59**	**16**	**88**	0	**87**	**87**	**110**	**140**
Dissolved Oxygen (mg/L)	NS				7.58																		
Redox	NS				63																		
Part 360 Leachate Indicator Parameters																							
Ammonia-Nitrogen (mg/L)	2	0.27	0.054	<0.03	0.85	0.3	<0.03	0.085	<0.03	0.55	<0.03	<0.03	0.044	0.38	<0.030	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4	<4	<4	<4	6	<4	<5	<4	<4	<4	<4	<4	<4.0	<4.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromide (mg/L)	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<01	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	23	11	9.6	11	31	14	<5	<5	<5	25	<5	<5	16	<5.0	21.4	<5.0	22	13	9	<5.0	57	38
Chloride (mg/L)	250	4.5	3.2	2.4	3.4	4.4	3.4	<2	2.9	2.5	2.8	2.9	2.6	2.7	2.5	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Color (Pt-Co)	15				**80**					**30**					<5	<5.0				<5.0	10	<5.0	5
Nitrate-Nitrogen (mg/L)	10	0.11	<0.1	<0.1	<0.1	0.11	<0.1	0.048	0.15	0.22	<0.1	<0.1	<0.1	0.25	<0.1	<0.020	<0.020	0.08	<0.02	0.03	<0.02	0.03	0.04
Sulfate (mg/L)	250	8.2	7.5	7.8	8.8	4.9	6.3	5.5	7.2	6.7	5.8	<1	6.2	6.5	6	4.6	4.45	6.12	6.08	5.54	9.17	4.07	6.1
Total Alkalinity (mg/L)	NS	46	4	2	4	18	<1	3	4	13	2	2	<3	19	<3.0	2	3	12	3	4	2	1	1
Total Cyanide (mg/L)	0.2				0.011					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010	<0.01
Total Dissolved Solids (mg/L)	500	54	34	12	52	74	12	<10	32	90	20	20	<10	40	<10	20	107	30	28	45	<10.0	<5.0	<5.0
Total Hardness (mg/L)	NS	26	<7	<7	33	25	<7	<7	<7	12	<7	<7	<7	26	<7.0	3	<5.0	16	6	6	3	4	<5.0
Total Kjeldahl Nitrogen (mg/L)	NS	0.73	0.32	0.2	1.1	1	0.35	0.18	2.4	1.2	0.4	0.2	0.21	1.1	0.35	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0
Total Organic Carbon (mg/L)	NS	7.8	3.1	2.4	3.1	11	4.8	2.5	4.2	6.5	2	3.6	2.6	18	3.2	5.7	3.7	9.6	4	3.6	4.2	2.4	26
Total Phenols (mg/L)	0.001	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	**0.0039**	<0.003	<0.003	<0.003	**0.0043**	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																							
Cadmium (mg/L)	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	<0.010	<0.01	0.00027	<0.005	<0.005	<0.005	0.00048	<0.00021	0.00023	<0.005
Calcium (mg/L)	NS	8.1	1.2	<1	3.5	8.1	1.3	1.2	1.4	5	<1	1.1	70	8.1	<1.0	0.572	0.572	5.12	1.9	1.7	0.697	1.13	1.22
Iron (mg/L)	0.3*	**5.1**	**0.54**	**2.2**	**2**	**17**	**3.3**	**2.5**	**1.7**	**3.6**	**1.5**	**1.3**	**41**	**5.7**	**1.7**	**1.91**	**2.43**	**7.35**	**1.25**	**0.819**	**1.61**	**1.32**	**1.02**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.017	<0.010	<0.01	<0.002	<0.005	<0.005	<0.005	<0.0019	<0.0018	<0.002	<0.005
Magnesium (mg/L)	35 (GV)	1.3	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	16	1.4	<1.0	0.351	0.38	0.717	0.333	0.326	0.366	0.354	0.099
Manganese (mg/L)	0.3*	<0.01	0.063	0.041	0.14	**0.62**	0.074	0.06	0.058	**0.36**	0.018	0.042	**0.73**	**0.31**	0.02	0.02	0.025	0.221	0.032	0.0229	0.0195	0.024	<0.02
Potassium (mg/L)	NS	1.6	<1	<1	1.2	1.2	<1	<1	<1	0.83	6	<1	28	<1.0	<1.0	0.179	0.242	0.591	0.167	0.197	0.203	0.263	<0.05
Sodium (mg/L)	20	<1	<1	1	2.5	<1	<1	<1	<1	<1	1.1	<1	**31**	<1.0	<1.0	0.431	0.432	0.518	0.46	0.665	0.448	0.649	0.41
Part 360 Additional Baseline Metals																							
Aluminum (mg/L)	NS				1.6					2.3					1.3	1.87				2.4	2.68	10.3	11.4
Antimony (mg/L)	0.003				<0.01					<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002	<0.06
Arsenic (mg/L)	0.025				<0.01					<0.01					<0.01	<0.002				0.0025	<0.0022	<0.002	<0.005
Barium (mg/L)	1				<0.2					<0.2					<0.1	0.007				0.0075	0.0116	0.015	0.024
Beryllium (mg/L)	0.003 (GV)				<0.01					<0.01					<0.01	<0.00014				0.00017	<0.00016	<0.0001	<0.005
Boron (mg/L)	1				<0.5					<0.5					<0.5	0.002				0.0049	0.0045	0.005	<0.05
Chromium (mg/L)	0.05				<0.01					<0.01					<0.01	<0.005				0.0063	<0.0051	<0.003	<0.005
Chromium, Hexavalent (mg/L)	0.05				<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020	<0.02
Cobalt (mg/L)	NS				<0.01					<0.01					<0.01	0.001				0.0012	0.0013	0.001	<0.05
Copper (mg/L)	0.2				<0.04					<0.01					<0.01	<0.003				0.0028	<0.0025	0.007	<0.005
Mercury (mg/L)	0.0007				<0.0002					<0.0002					<0.0002	<0.00007				<0 00006	<0.0001	<0.15	<0.0002
Nickel (mg/L)	0.1				<0.01					<0.01					<0.01	0.001				0.0011	0.0015	0.0019	<0.02
Selenium (mg/L)	0.01				<0.01					<0.01					<0.01	<0.003				0.004	0.0018	<0.003	0.006
Silver (mg/L)	0.05				0.038					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003	<0.01
Thallium (mg/L)	0.0005 (GV)				<0.01					<0.01					<0.02	**0.004**				**0.0062**	**0.0057**	<0.003	<0.01
Vanadium (mg/L)	NS				<0.01					<0.01					<0.01	<0.005				0.0077	<0.0054	<0.011	<0.02
Zinc (mg/L)	2				<0.43					0.041					0.024	0.01				0.0253	0.0235	0.026	0.037
Part 360 Volatile Organics																							
1,1,1,2-Tetrachloroethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04				<1.0					<1					<1	<10				<10	<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)				<5.0					<10					<10	<10				<10	<10	<10	<10
2-Hexanone (µg/L)	50 (GV)				<5.0					<10					<10	<10				<10	<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS				<5.0					<10					<10	<10				<10	<10	<10	<10
Acetone (µg/L)	50 (GV)				<5.0					<10					<10	<10				<10	<10	<10	<10
Acrylonitrile (µg/L)	5				<20					<20					<20	<25				<25	<25	<25	<25
Benzene (µg/L)	1				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromomethane (µg/L)	5				<1.0					<1					<1	<10				<10	<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloroethane (µg/L)	5				<1.0					<1					<1	<10				<10	<10	<10	<10
Chloroform (µg/L)	7				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloromethane (µg/L)	5				<1.0					<1					<1	<10				<10	<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0

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

Date	NYSDEC Ground Water Standard	09/26/06	12/13/06	03/15/07	06/21/07	09/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/20008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Dibromochloromethane (µg/L)	50 (GV)				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Iodomethane (µg/L)	5				<5.0					<5					<5	<10				<10	<10	<10	<10
Methylene Chloride (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Styrene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Toluene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5				<5.0					<5					<5	<10				<10	<10	<10	<10
Trichloroethene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS				<5.0					<5					<5	<10				<10	<10	<10	<10
Vinyl Chloride (µg/L)	2				<1.0					<1					<1	<10				<10	<10	<10	<10
Xylenes (Total) (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
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
Monitoring Well MW-2D
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	3/12/2003	6/22/2004	9/28/2004	12/16/2004	3/22/2005	6/28/2005	9/27/2005	12/6/2005	3/28/2006	6/28/2006	9/26/2006	12/13/2006	3/15/2007	6/21/2007	9/25/2007	12/17/2007	3/27/2008	6/19/2008
Field Parameters																			
Conductivity (µmhos/cm)	NS	381	270	253	300	235	288	245	270	240	480	353	203	295	221	165	180	161	192
pH (s.u.)	6.5 - 8.5	6.7	6.73	6.98	6.8	7.62	6.96	7.45	6.7	7.3	8	7.8	6.72	7.01	7.32	7.1	7.06	7.34	7.3
Temperature (deg C)	NS	6.3	12	13.7	8	7.6		11.5	9	9	12	11.2	10.5	7.5	11	11.8	8.7	8.1	10.4
Turbidity (NTU)	5	**202**	**138**	**125**	**150**	**39**	**100**	**30**	**38**	**48**	**28**	**-**	**6**	0	**67**	**16**	**6**	**16**	**97**
Redox	NS														-118				
Dissolved Oxygen (mg/L)	NS														3.58				
Part 360 Leachate Indicator Parameters																			
Ammonia-Nitrogen (mg/L)	2	**11**	**7.5**	**2.5**	1.6	**6.1**	**4.6**	**6.5**	**5.3**	**4.5**	**5.4**	**11**	**3.3**	**5.8**	**4.2**	0.8	1.4	1.3	**2.8**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<10.0	7.3	7.5	4.7	<4.0	<4.0	4.5	<4	<4	<4.0	5.5	<4	<20	<4	8.4	<4	<5	<4
Bromide (mg/L)	2	<0.1	<0.1	0.12	<0.1	<0.1	0.14	0.14	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	10	43	32	26	29	27	26	13	68	23	31	26	23	24	21	28	<5	19
Chloride (mg/L)	250	4.4	4.5	3.8	3.3	4	3.3	4.2	3.9	3.7	3.9	5.2	3.1	3.6	3.6	2.5	2.8	<2	3.6
Color (Pt-Co)	15			**650**					**100**	**300**					**160**				
Nitrate-Nitrogen (mg/L)	10	0.16	0.15	0.17	1.6	0.15	0.16	0.28	<0.1	<0.1	<0.10	<0.1	<0.1	0.1	0.1	0.55	<0.1	<0.04	<0.1
Sulfate (mg/L)	250	77	38	33	22	30	24	31	32	24	23	37	15	23	18	10	2.3	12	14
Total Alkalinity (mg/L)	NS	100	92	74	66	88	80	80	84	84	120	130	82	120	120	77	83	95	120
Total Cyanide (mg/L)	0.2			<0.01					<0.01	<0.01					<0.01				
Total Dissolved Solids (mg/L)	500	300	140	160	120	160	140	170	210	150	160	150	150	160	160	130	120	100	130
Total Hardness (mg/L)	NS	130	100	90	69	89	73	80	93	87	110	110	78	97	150	73	74	68	86
Total Kjeldahl Nitrogen (mg/L)	NS	13	8.4	5	1.9	7.2	4.4	6.5	3.3	3.1	4.9	11	4.9	5.8	4.7	1.4	2.6	1.7	3.7
Total Organic Carbon (mg/L)	NS	13	9.1	8	7.9	7.6	2.3	10	8	7.3	8.1	9.4	7.3	8	8.5	7.5	7	6.3	6.8
Total Phenols (mg/L)	0.001	<0.002	<0.002	<0.002	<0.002	<0.01	**0.0032**	<0.002	**0.0035**	**0.0023**	<0.002	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003
Part 360 Routine Metals																			
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	44	34	29	23	30	24	26	32	29	37	38	26	33	27	24	25	23	29
Iron (mg/L)	0.3*	**21**	**12**	**11**	**3.1**	**13**	**7.4**	**8.8**	**11**	9.9	**14**	**10**	**8.1**	**9.7**	**9.1**	**2.1**	**7.4**	**8**	**7.2**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	0.022	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	6.3	4.1	3.9	3	3.6	3.2	3.8	3.3	3.2	4.4	4.4	2.9	3.8	3.4	3.3	2.9	2.7	3.5
Manganese (mg/L)	0.3*	**1.5**	**1**	**1.1**	**0.97**	**0.96**	**0.87**	**0.93**	**0.89**	0.84	**1**	<0.01	**0.7**	**0.87**	**0.86**	**0.75**	**0.82**	**0.65**	**0.76**
Potassium (mg/L)	NS	21	13	17	12	12	11	12	11	11	12	15	6.6	12	11	7.6	8.1	6.9	8.6
Sodium (mg/L)	20	5.7	2.4	3	2.7	1.4	2.2	2.2	2.6	2.5	3.7	4.5	1.5	2.7	2.7	1.7	1.6	1.3	1.6
Part 360 Additional Baseline Metals																			
Aluminum (mg/L)	NS			0.37					0.26	0.25					0.23				
Antimony (mg/L)	0.003			<0.01					<0.01	<0.01					<0.01				
Arsenic (mg/L)	0.025			0.011					<0.01	<0.01					<0.01				
Barium (mg/L)	1			0.23					0.23	0.2					<0.2				
Beryllium (mg/L)	0.003 (GV)			<0.01					<0.01	<0.01					<0.01				
Boron (mg/L)	1			0.089					<0.5	<0.5					<0.5				
Chromium (mg/L)	0.05			<0.01					<0.01	<0.01					<0.01				
Chromium, Hexavalent (mg/L)	0.05			<0.01					<0.01	<0.01					<0.01				
Cobalt (mg/L)	NS			<0.01					<0.01	<0.01					<0.01				
Copper (mg/L)	0.2			<0.01					<0.01	<0.01					<0.04				
Mercury (mg/L)	0.0007			<0.0002					<0.0002	<0.0002					<0.0002				
Nickel (mg/L)	0.1			<0.01					<0.01	<0.01					<0.01				
Selenium (mg/L)	0.01			<0.01					<0.01	<0.01					<0.01				
Silver (mg/L)	0.05			<0.01					<0.01	<0.01					0.049				
Thallium (mg/L)	0.0005 (GV)			<0.01					<0.01	0.013					<0.01				
Vanadium (mg/L)	NS			0.012					<0.01	<0.01					<0.01				
Zinc (mg/L)	2			0.017					<0.01	0.021					0.023				
Part 360 Volatile Organics																			
1,1,1,2-Tetrachloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
1,1,1-Trichloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
1,1,2,2-Tetrachloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
1,1,2-Trichloroethane (µg/L)	1	<5		<1					<1	<1					<1.0				
1,1-Dichloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
1,1-Dichloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				

City of Rome
Tannery Road Landfill
Monitoring Well MW-2D
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	3/12/2003	6/22/2004	9/28/2004	12/16/2004	3/22/2005	6/28/2005	9/27/2005	12/6/2005	3/28/2006	6/28/2006	9/26/2006	12/13/2006	3/15/2007	6/21/2007	9/25/2007	12/17/2007	3/27/2008	6/19/2008
1,2,3-Trichloropropane (µg/L)	0.04	<5		<1					<1	<1					<1.0				
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<5		<1					<1	<1					<1.0				
1,2-Dibromoethane (EDB) (µg/L)	5	<5		<1					<1	<1					<1.0				
1,2-Dichlorobenzene (µg/L)	3	<5		<1					<1	<1					<1.0				
1,2-Dichloroethane (µg/L)	0.6	<5		<1					<1	<1					<1.0				
1,2-Dichloropropane (µg/L)	1	<5		<1					<1	<1					<1.0				
1,4-Dichlorobenzene (µg/L)	3	<5		<1					<1	<1					<1.0				
2-Butanone (MEK) (µg/L)	50 (GV)	<10		<10					<5	<5					<5.0				
2-Hexanone (µg/L)	50 (GV)	<10		<10					<5	<5					<5.0				
4-Methyl 2-pentanone (µg/L)	NS	<10		<10					<5	<5					<5.0				
Acetone (µg/L)	50 (GV)	<10		<10					<10	<5					<5.0				
Acrylonitrile (µg/L)	5	<5		<5					<20	<20					<20				
Benzene (µg/L)	1	<5		<1					<1	<1					<1.0				
Bromochloromethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Bromodichloromethane (µg/L)	50 (GV)	<5		<1					<1	<1					<1.0				
Bromoform (µg/L)	50 (GV)	<5		<1					<1	<1					<1.0				
Bromomethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Carbon disulfide (µg/L)	60 (GV)	<5		<1					<1	<1					<1.0				
Carbon tetrachloride (µg/L)	5	<5		<1					<1	<1					<1.0				
Chlorobenzene (µg/L)	5	<5		<1					<1	<1					<1.0				
Chloroethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Chloroform (µg/L)	7	<5		<1					<1	<1					<1.0				
Chloromethane (µg/L)	5	<5		<1					<1	<1					<1.0				
cis-1,2-Dichloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
cis-1,3-Dichloropropene (µg/L)	0.4**	<5		<1					<1	<1					<1.0				
Dibromochloromethane (µg/L)	50 (GV)	<5		<1					<1	<1					<1.0				
Dibromomethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Ethyl benzene (µg/L)	5	<5		<1					<1	<1					<1.0				
Iodomethane (µg/L)	5	<5		<10					<5	<5					<5.0				
Methylene Chloride (µg/L)	5	<10		<10					<5	<1					<1.0				
Styrene (µg/L)	5	<5		<1					<1	<1					<1.0				
Tetrachloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
Toluene (µg/L)	5	<5		<1					<1	<1					<1.0				
trans-1,2-Dichloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
trans-1,3-Dichloropropene (µg/L)	0.4**	<5		<1					<1	<1					<1.0				
trans-1,4-Dichloro-2-butene (µg/L)	5	<5		<10					<5	<5					<5.0				
Trichloroethene (µg/L)	5	<5		<1					<1	<1					<1.0				
Trichlorofluoromethane (µg/L)	5	<5		<1					<1	<1					<1.0				
Vinyl Acetate (µg/L)	NS	<5		<5					<5	<5					<5.0				
Vinyl Chloride (µg/L)	2	<5		<1					<1	<1					<1.0				
Xylenes (Total) (µg/L)	5	<5		<1					<1	<1					<1.0				
1,2-Dichloroethene - Total	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
Monitoring Well MW-2D
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Field Parameters															
Conductivity (µmhos/cm)	NS	228	211	162	139	147	230	194	213	230	174	194	167	140	150
pH (s.u.)	6.5 - 8.5	7.39	7.35	6.8	6.89	6.92	6.97	7.06	**6.41**	7.56	7.1	**6.39**	6.66	**5.1**	**6.4**
Temperature (deg C)	NS	10.8	8.4	8.1	12.5	11	8.8	7	10.1	10.4	9	7.1	10.6	13	8
Turbidity (NTU)	5	0	**8**	**22**	**8**	**9**	0	**121**	0	**35**	0	**39**	0	**8**	**40**
Redox	NS														
Dissolved Oxygen (mg/L)	NS														
Part 360 Leachate Indicator Parameters															
Ammonia-Nitrogen (mg/L)	2	**4.9**	0.28	1.6	0.89	<0.030	**4.3**	1.63	**2.6**	**3.3**	1.2	1	0.9	0.2	0.2
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4	<4	<4	5.6	<4.0	<4.0	6	<2.0	<12	<4.0	<4.0	<4.0	5	4
Bromide (mg/L)	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	24	29	14	7.5	8.9	9.3	20	13	22	13	22	23	24	26
Chloride (mg/L)	250	3.9	3.1	2.8	2.8	2.6	4.5	1.6	4.77	3.38	1.42	1.23	<1.0	<1.0	<1.0
Color (Pt-Co)	15	**100**					**120**	**70**				**>70**	**>70**	**60**	**70**
Nitrate-Nitrogen (mg/L)	10	0.17	0.58	<0.1	0.23	0.43	<0.1	0.13	<0.020	<0.020	<0.02	0.03	<0.02	0.03	0.27
Sulfate (mg/L)	250	16	10	11	9.9	10	13	14.7	13.6	15	13.6	11.4	8.28	8.61	7.14
Total Alkalinity (mg/L)	NS	150	130	74	85	92	86	75	100	104	80	56	86	60	60
Total Cyanide (mg/L)	0.2	<0.01					<0.01	<0.010				<0.01	<0.01	<0.010	<0.01
Total Dissolved Solids (mg/L)	500	210	110	110	110	96	140	120	8	172	130	145	100	90	30
Total Hardness (mg/L)	NS	98	83	69	71	70	91	74	107	104	75	74	90	62	61
Total Kjeldahl Nitrogen (mg/L)	NS	5.3	1.4	2.1	1.2	0.89	2.4	2.24	3.6	3.1	1.7	3.6	2	<1.0	<1.0
Total Organic Carbon (mg/L)	NS	7.2	5.6	6.7	5.4	4	6.8	10.1	8.6	8.1	7.8	7.2	5.8	7.4	7.5
Total Phenols (mg/L)	0.001	**0.0055**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.002**
Part 360 Routine Metals															
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	0.00033	<0.005	<0.005	<0.005	0.00014	<0.00021	<0.00015	<0.005
Calcium (mg/L)	NS	32	25	23	23	22	30	24.7	35.5	33.8	24.8	24.1	29.4	19.6	19.9
Iron (mg/L)	0.3*	**7.6**	**7.7**	**7.1**	**3.4**	**3**	**8.8**	**8.71**	**10.9**	**11.9**	**9.33**	**8.16**	**11.2**	**4.7**	**1.77**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.002	<0.005	<0.005	<0.005	<0.0019	<0.0018	<0.002	<0.005
Magnesium (mg/L)	35 (GV)	4.4	5	2.9	3.3	3.5	3.7	2.88	4.49	4.75	3.18	3.33	3.98	3.21	2.71
Manganese (mg/L)	0.3*	**0.75**	**0.91**	**0.72**	**0.85**	**0.8**	**0.84**	**0.779**	**0.981**	**1.01**	**0.829**	**0.745**	**0.799**	**0.626**	0.24
Potassium (mg/L)	NS	9.9	7.1	5.8	4.6	5.2	9	4.55	7.41	8.07	4.49	3.98	4.56	2.75	3.66
Sodium (mg/L)	20	1.9	2.2	1.1	1.1	<1.0	1.8	1.08	1.79	2.07	1.13	1.2	1.42	0.902	0.835
Part 360 Additional Baseline Metals															
Aluminum (mg/L)	NS	0.22					0.12	0.053				0.116	0.287	0.025	<0.1
Antimony (mg/L)	0.003	<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002	<0.06
Arsenic (mg/L)	0.025	<0.01					<0.01	0.002				0.0055	0.007	0.002	0.008
Barium (mg/L)	1	0.21					0.15	0.121				0.11	0.119	0.072	0.076
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01	<0.00014				0.00015	<0.00016	<0.0001	<0.005
Boron (mg/L)	1	<0.5					<0.5	0.009				0.0102	<0.00057	0.008	<0.05
Chromium (mg/L)	0.05	<0.01					<0.01	<0.005				0.0084	<0.0051	<0.003	<0.005
Chromium, Hexavalent (mg/L)	0.05	<0.01					<0.01	<0.020				<0.020	<0.02	<0.020	<0.02
Cobalt (mg/L)	NS	<0.01					<0.01	<0.000				<0.00043	0.00036	<0.001	<0.05
Copper (mg/L)	0.2	<0.01					<0.01	<0.003				<0.0025	<0.0025	<0.001	<0.005
Mercury (mg/L)	0.0007	<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15	<0.0002
Nickel (mg/L)	0.1	<0.01					<0.01	<0.001				<0.00056	<0.00029	<0.00046	<0.02
Selenium (mg/L)	0.01	<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003	0.007
Silver (mg/L)	0.05	<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003	<0.01
Thallium (mg/L)	0.0005 (GV)	<0.01					<0.02	**0.01**				**0.0168**	<0.0018	<0.003	<0.01
Vanadium (mg/L)	NS	<0.01					<0.01	<0.005				<0.0049	0.0123	<0.011	<0.02
Zinc (mg/L)	2	0.021					<0.02	0.007				0.0024	<0.0011	0.002	<0.01
Part 360 Volatile Organics															
1,1,1,2-Tetrachloroethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0

City of Rome
Tannery Road Landfill
Monitoring Well MW-2D
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
1,2,3-Trichloropropane (µg/L)	0.04	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1					<1	<10				<10	<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<10					<10	<10				<10	<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<10					<10	<10				<10	<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<10					<10	<10				<10	<10	<10	<10
Acetone (µg/L)	50 (GV)	<10					<10	<10				<10	<10	<10	<10
Acrylonitrile (µg/L)	5	<20					<20	<25				<25	<25	<25	<25
Benzene (µg/L)	1	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromomethane (µg/L)	5	<1					<1	<10				<10	<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloroethane (µg/L)	5	<1					<1	<10				<10	<10	<10	<10
Chloroform (µg/L)	7	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloromethane (µg/L)	5	<1					<1	<10				<10	<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Iodomethane (µg/L)	5	<5					<5	<10				<10	<10	<10	<10
Methylene Chloride (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Styrene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Toluene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5	<5					<5	<10				<10	<10	<10	<10
Trichloroethene (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS	<5					<5	<10				<10	<10	<10	<10
Vinyl Chloride (µg/L)	2	<1					<1	<10				<10	<10	<10	<10
Xylenes (Total) (µg/L)	5	<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
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	NYSDEC Ground Water Standards	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	03/23/04	06/22/04	09/28/04	12/16/04	03/22/05	06/28/05	09/27/05	12/06/05	03/28/06
Field Parameters																														
Conductivity (µmhos/cm)	NS	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	Frozen	815	841	2,400	623	2,331	726	630	560
pH (s.u.)	6.5 - 8.5	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	Frozen	6.6	6.57	6.7	6.97	6.75	6.95	**6.2**	6.8
Temperature (deg C)	NS	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	Frozen	11.7	14	7	5.5		12.5	8	7
Turbidity (NTU)	5	**88**	**482**	**357**	**167**	**77**	**78**	**132**	**49**	**35**	**31**	**56**	**42**	**32**		**14**	0	Frozen	**109**	**60**	**70**	Frozen	**11**	**86**	**95**	**71**	**93**	**25**	**88**	**56**
Redox	NS																													
Dissolved Oxygen (mg/L)	NS																													
Leachate Indicator Parameters																														
Ammonia-Nitrogen (mg/L)	2		**75**	**89**	**84**	**120**	**120**	**160**	**130**	**130**	**110**	**95**	**130**	**120**	**82**	**53**	**78**	Frozen	**78**	**72**	**75**	Frozen	**53**	**56**	**52**	**45**	**50**	**39**	**36**	**25**
Biochemical Oxygen Demand (BOD5) (mg	NS	18	35	28	28	34	16	**31**	30		24	16	12	11	<10	35	<10	Frozen	14	<4.0	17	Frozen	12	16	<10	<4.0	24	5.1	<4	<4
Bromide (mg/L)	2	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	Frozen	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	930	320	<1	310	420	430	550	410	350	180	410	230	220	150	110	110	Frozen	93	96	120	Frozen	**83**	84	110	72	70	61	40	46
Chloride (mg/L)	250	**560**	**560**	**430**	**320**	**350**	13	**370**	**400**	220	210	110	150	130	42	24	25	Frozen	5.7	10	4.4	Frozen	4.1	3.3	2.2	3.6	3.7	3.2	<1	3.1
Color (Pt-Co)	15		**290**					**1,200**					**750**	**900**				Frozen	**500**	<0.1	0.17	Frozen		**750**					**340**	**375**
Nitrate-Nitrogen (mg/L)	10	<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			Frozen	0.18	0.15	<0.1	0.16	0.29	<0.1	<0.1	0.25
Sulfate (mg/L)	250	<5	6	110	16	48	32	2.3	5.8	33	32	66	79	94	63	120	110	Frozen	94	49	52	Frozen	55	36	6.3	42	37	24	30	2.9
Total Alkalinity (mg/L)	NS	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	450	370	Frozen	360	340	340	340	350	310	260	300
Total Cyanide	0.2		<0.01					<0.01					<0.01	<0.01				Frozen	<0.01	490	350	Frozen		<0.01					<0.01	<0.01
Total Dissolved Solids (mg/L)	500	**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			Frozen	370	350	320	350	390	340	280	260
Total Hardness (mg/L)	NS	770	750	644	504	478	430	470	410	320	360	290	260	200	170	190	150	Frozen	120	190	100	Frozen	120	100	110	130	120	110	110	130
Total Kjeldahl Nitrogen (mg/L)	NS	85	85	99	89	120	170	160	130	150	130	100	120	140	76	61	32	Frozen	86	63	64	Frozen	63	50	28	35	44	35	28	14
Total Organic Carbon (mg/L)	NS	200	170	247	123	36	200	150	130	120	130	84	90	86	60	47	43	Frozen	22	35	43	Frozen	30	26	35	23	24	21	19	13
Total Phenols (mg/L)	0.001	**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**		<0.002	<0.002	<0.002	<0.01	**0.0038**	**0.0021**	**0.0039**	<0.002
Part 360 Routine Metals																														
Cadmium (mg/L)	0.005		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	Frozen	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	216	212	171	134	123	110	120	110	87	99	82	73	52	49	56	46	Frozen	39	59	32	Frozen	37	29	30	36	31	32	29	33
Iron (mg/L)	0.3*	**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**	Frozen	**11**	**9.3**	**22**	**15**	**10**	**16**	**14**	**19**
Lead (mg/L)	0.025	<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	Frozen	<0.01	<0.01	<0.01	<0.01	**0.044**	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	**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	Frozen	7.3	6.8	7.5	9.5	9.3	8.2	8.5	13
Manganese (mg/L)	0.3*	**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**	Frozen	0.043	**0.38**	**0.39**	**0.47**	**0.4**	**0.43**	**0.45**	**0.71**
Potassium (mg/L)	NS	202	191	210	160	160	210	230	210	170	170	140	150	140	110	79	97	Frozen	93	94	79	Frozen	110	110	66	70	74	66	60	53
Sodium (mg/L)	20	**960**	**417**	**310**	**310**	**300**	**320**	**510**	**370**	**320**	**370**	**220**	**250**	**210**	**92**	**54**	**76**	Frozen	16	**27**	10	Frozen	9.3	6.1	6.5	6.7	5.2	5.1	2.6	2.6
Part 360 Baseline Metals																														
Aluminum (mg/L)	NS		4.04					1.8					1	0.91					1.3				0.44					2.5	2.8
Antimony (mg/L)	0.003		<0.015					0.043					<0.01	<0.01					<0.01				<0.01					<0.01	<0.01
Arsenic (mg/L)	0.025		<0.01					0.01					<0.01	<0.01					0.011				0.012					0.019	<0.01
Barium (mg/L)	1		**1.25**					**1.3**					0.61	0.5					0.27				<0.2					0.16	<0.2
Beryllium (mg/L)	0.003 (GV)		<0.003					0.01					<0.01	<0.01					<0.01				<0.01					<0.01	<0.01
Boron (mg/L)	1		**2.2**		**2.5**	**2.4**				**1.2**	**1.3**	**1.6**	**1.4**	**1.1**	**1**			Frozen	<0.5	0.85	<0.5	Frozen	0.37					<0.5	<0.5
Chromium (mg/L)	0.05		0.0222			0.025						0.015	0.018						0.011				<0.01					<0.01	<0.01
Chromium, Hexavalent (mg/L)	0.05		<0.01			<0.01						<0.01	<0.5						<0.01				<0.01					<0.01	<0.01
Cobalt (mg/L)	NS		<0.02			0.013						<0.01	<0.01						<0.01				<0.01					<0.01	<0.01
Copper (mg/L)	0.2		0.0163			<0.01						<0.01	<0.01						<0.01				<0.01					<0.01	<0.01
Mercury (mg/L)	0.0007		<0.0002			<0.0002						0.007	<0.0002						<0.0002				<0.0002					<0.0002	<0.0002
Nickel (mg/L)	0.1		<0.03			0.033						0.019	0.027						<0.01				0.011					<0.01	<0.01
Selenium (mg/L)	0.01		<0.005			<0.01						<0.01	<0.01						<0.01				<0.01					<0.01	<0.01
Silver (mg/L)	0.05		<0.01			<0.01						<0.01	<0.01						<0.01				<0.01					<0.01	<0.01
Thallium (mg/L)	0.0005 (GV)		**0.0139**			<0.01						<0.01	<0.01						<0.01				<0.01					<0.01	<0.01
Vanadium (mg/L)	NS		0.0457			0.075						0.042	0.051						0.027				0.018					0.014	0.012
Zinc (mg/L)	2		0.107			0.062						0.025	0.021						0.091				0.02					0.018	0.018
Volatile Organics																														
1,1,1,2-Tetrachloroethane (µg/L)	5					<5						<5	<5					Frozen	<5				<1					<1	<1
1,1,1-Trichloroethane (µg/L)	5		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,1,2,2-Tetrachloroethane (µg/L)	5		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,1,2-Trichloroethane (µg/L)	1		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,1-Dichloroethane (µg/L)	5		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,1-Dichloroethene (µg/L)	5		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,2,3-Trichloropropane (µg/L)	0.04					<5						<5	<5					Frozen	<5				<1					<1	<1
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10			<5						<5	<5					Frozen	<5				<1					<1	<1
1,2-Dibromoethane (EDB) (µg/L)	5		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,2-Dichlorobenzene (µg/L)	3		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,2-Dichloroethane (µg/L)	0.6		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,2-Dichloropropane (µg/L)	1		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
1,4-Dichlorobenzene (µg/L)	3		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
2-Butanone (MEK) (µg/L)	50 (GV)		<10			<10						<10	<10					Frozen	<10				<10					<5	<5
2-Hexanone (µg/L)	50 (GV)		<10			<10						<10	<10					Frozen	<10				<10					<5	<5
4-Methyl 2-pentanone (µg/L)	NS		<10			<10						<10	<10					Frozen	<10				<10					<5	<5
Acetone (µg/L)	50 (GV)		21			<10						<10	<10					Frozen	<10				<10					<10	<5
Acrylonitrile (µg/L)	5		<100			<20						<20	<20					Frozen	<20				<5					<20	<20
Benzene (µg/L)	1		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
Bromochloromethane (µg/L)	5		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
Bromodichloromethane (µg/L)	50 (GV)		<5									<5	<5					Frozen	<5				<1					<1	<1
Bromoform (µg/L)	50 (GV)		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
Bromomethane (µg/L)	5		<5			<5						<5	<5					Frozen	<5				<1					<1	<1
Carbon disulfide (µg/L)	60 (GV)		6			<5						<5	<5					Frozen	<5				<1					<1	<1

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

Parameter	NYSDEC	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	03/23/04	06/22/04	09/28/04	12/16/04	03/22/05	06/28/05	09/27/05	12/06/05	03/28/06
Carbon tetrachloride (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Chlorobenzene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Chloroethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Chloroform (µg/L)	7		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Chloromethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
cis-1,2-Dichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
cis-1,3-Dichloropropene (µg/L)	0.4**		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Dibromochloromethane (µg/L)	50 (GV)		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Dibromomethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Ethyl benzene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Iodomethane (µg/L)	5		<5					<20					<20	<10				Frozen	<10					<10					<5	<5
Methylene Chloride (µg/L)	5		<5					<10					<10	<10				Frozen	<10					<10					<5	<1
Styrene (µg/L)	5							<5					<5	<5				Frozen	<5					<1					<1	<1
Tetrachloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Toluene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
trans-1,2-Dichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
trans-1,3-Dichloropropene (µg/L)	0.4**		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
trans-1,4-Dichloro-2-butene (µg/L)	5							<50					<50	<10				Frozen	<10					<10					<5	<5
Trichloroethene (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Trichlorofluoromethane (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Vinyl Acetate (µg/L)	NS		<50					<20					<20	<20				Frozen	<20					<5					<5	<5
Vinyl Chloride (µg/L)	2		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
Xylenes (Total) (µg/L)	5		<5					<5					<5	<5				Frozen	<5					<1					<1	<1
	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	NYSDEC Ground Water Standards	06/28/06	09/26/06	12/13/06	03/15/07	06/21/07	09/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/20014
Field Parameters																								
Conductivity (µmhos/cm)	NS	460	517	453	212	555	533	441	475	448	452	507	425	412	493	500	478	480	451	477	521	402	340	440
pH (s.u.)	6.5 - 8.5	7.5	7.44	6.51	**6.38**	6.79	6.72	**6.48**	6.69	6.67	7.01	6.96	**6.31**	6.69	6.57	**6.1**	6.65	**5.54**	**6.34**	6.7	**5.86**	**6.22**	**5.7**	**6**
Temperature (deg C)	NS	12	12.9	9.5	5.2	11.2	12.5	7.3	5.6	10.3	12.6	7.8	6.1	14	12	8.4	6	11	13.1	7.1	5	11.1	14	5
Turbidity (NTU)	5	**55**	-	**46**	0	**21**	**101**	**10**	**11**	**12**	0	**85**	**21**	**14**	3	0	**30**	0	**24**	0	**23**	0	**60**	**290**
Redox	NS					-83																		
Dissolved Oxygen (mg/L)	NS					3.99																		
Leachate Indicator Parameters																								
Ammonia-Nitrogen (mg/L)	2	**17**	**12**	**9.1**	**8.7**	**14**	**15**	**7.3**	**11**	**5.8**	**9.7 J**	**3.9**	**3.3**	**2.7**	**2.4**	1.9	**2.2**	1.8	1.7	1.7	1.2	0.8	0.3	0.3
Biochemical Oxygen Demand (BOD5) (mg	NS	7.6	5.6	<4	<20	<4	13	<4	<5	<4	<4	7	4.9	<4	8.1	4.6	10	6	17	9	9	2	5	6
Bromide (mg/L)	2	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	40	43	35	37	41	40	27	11	34	9.6	67	23	19	26	25	32.8	22	34	22	27	20	47	38
Chloride (mg/L)	250	2.6	3.2	2.6	2.8	2.5	4	3.4	<2	2.4	2	3.1	2.7	2.6	3.9	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Color (Pt-Co)	15					**400**					**100**					**25**	10				**20**	**>70**	**20**	**70**
Nitrate-Nitrogen (mg/L)	10	<0.10	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.04	<0.1	0.17	<0.1	<0.1	0.23	<0.1	<0.1	<0.020	<0.020	<0.020	<0.02	<0.020	<0.02	0.03	0.1
Sulfate (mg/L)	250	3.7	4.9	4	4.1	5.4	13	4.7	2.7	4.7	4.4	4	3.7	<1	4.1	6.6	<1.0	4.77	<2.0	<2.0	<2.0	<2.0	5.26	2.11
Total Alkalinity (mg/L)	NS	270	280	250	300	300	280	250	270	250	260	280	240	220	250	250	260	250	240	255	250	210	210	200
Total Cyanide	0.2					<0.01					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010	<0.01
Total Dissolved Solids (mg/L)	500	310	310	270	390	300	280	250	250	280	310	270	230	260	270	260	293	237	287	320	**5310 S**	200	220	155
Total Hardness (mg/L)	NS	160	150	160	190	120	160	170	180	180	170	220	190	210	210	230	222	246	203	142	25	204	**181**	215
Total Kjeldahl Nitrogen (mg/L)	NS	14	15	9.8	8.3	8.3	18	9.4	11	11	2.2 J	6	4.1	3.1	3.3	2.5	3.64	5	2.2	3.9	1.7	1.1	<1.0	<1.0
Total Organic Carbon (mg/L)	NS	14	14	12	13	14	12	11	11	10	11	14	9.9	9.5	10	11	12.6	12.3	10.9	11.9	10.6	9.1	11.3	11.3
Total Phenols (mg/L)	0.001	<0.002	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	**0.0036**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																								
Cadmium (mg/L)	0.005	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.00013	<0.005	<0.005	<0.005	0.00035	<0.00021	<0.00015	<0.005
Calcium (mg/L)	NS	42	40	41	44	42	41	41	42	42	41	54	49	55	52	64	62.7	72	59.1	71.3	72.7	62.6	54.8	65.1
Iron (mg/L)	0.3*	**17**	**15**	**16**	**21**	**23**	**18**	**18**	**21**	**18**	**19**	**52**	**19**	**22**	**27**	**23**	**24.9**	**22.4**	**26.3**	**26.9**	**11.3**	**22.4**	**19.6**	**21.9**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.011	<0.010	<0.01	<0.002	<0.005	<0.005	0.006	0.0023	0.0025	<0.002	<0.005
Magnesium (mg/L)	35 (GV)	14	13	15	19	19	15	16	18	17	16	21	17	18	20	18	15.9	16.3	13.4	15.5	16.2	11.5	10.8	12.6
Manganese (mg/L)	0.3*	**0.69**	<0.01	**0.63**	**0.93**	**0.98**	**0.72**	**0.75**	**0.92**	**0.82**	**0.72**	**1**	**0.83**	**0.94**	**0.89**	**0.92**	**1.07**	**1.03**	**1.06**	**1.24**	**1.27**	**1.03**	**0.929**	**0.859**
Potassium (mg/L)	NS	47	44	19	30	35	40	26	32	25	25	19	17	16	20	18	13.2	16.2	12.9	12.5	10.3	9.05	7.89	5.31
Sodium (mg/L)	20	3	2.6	1.8	1.7	2.2	2.2	1.2	1.1	<1	<1	2.1	1.2	1.8	<1.0	1.3	0.898	1.19	0.933	0.991	0.94	0.722	0.926	0.464
Part 360 Baseline Metals																								
Aluminum (mg/L)	NS					0.37					0.56					0.12	0.071				<0.00810	0.371	0.018	<0.1
Antimony (mg/L)	0.003					<0.01					<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002	<0.06
Arsenic (mg/L)	0.025					<0.01					<0.01					<0.01	<0.002				0.0034	0.003	<0.002	0.006
Barium (mg/L)	1					<0.2					<0.2					<0.1	0.071				0.058	0.0505	0.046	0.044
Beryllium (mg/L)	0.003 (GV)					<0.01					<0.01					<0.01	<0.00014				<0.00014	<0.00016	<0.0001	<0.005
Boron (mg/L)	1					<0.5					<0.5					<0.5	0.022				0.0519	0.0093	0.035	0.092
Chromium (mg/L)	0.05					<0.01					<0.01					<0.01	<0.005				<0.0047	<0.0051	<0.003	<0.005
Chromium, Hexavalent (mg/L)	0.05					<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020	<0.02
Cobalt (mg/L)	NS					<0.01					<0.01					<0.01	<0.000				<0.00043	0.00046	<0.001	<0.05
Copper (mg/L)	0.2					<0.04					<0.01					<0.01	<0.003				<0.0025	<0.0025	<0.001	<0.005
Mercury (mg/L)	0.0007					<0.0002					<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15	<0.0002
Nickel (mg/L)	0.1					<0.01					<0.01					<0.01	<0.001				<0.00056	0.00044	<0.00046	<0.02
Selenium (mg/L)	0.01					<0.01					<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003	<0.005
Silver (mg/L)	0.05					**0.05**					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003	<0.01
Thallium (mg/L)	0.0005 (GV)					<0.01					<0.01					<0.02	**0.028**				**0.0134**	**0.003**	**0.003**	**0.011**
Vanadium (mg/L)	NS					<0.01					<0.01					<0.01	<0.005				0.0069	<0.0054	<0.011	<0.02
Zinc (mg/L)	2					0.045					0.027					<0.02	0.002				0.0047	0.0061	0.003	<0.01
Volatile Organics																								
1,1,1,2-Tetrachloroethane (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04					<1.0					<1					<1	<10				<10	<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)					<5.0					<10					<10	<10				<10	<10	<10	<10
2-Hexanone (µg/L)	50 (GV)					<5.0					<10					<10	<10				<10	<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS					<5.0					<10					<10	<10				<10	<10	<10	<10
Acetone (µg/L)	50 (GV)					<5.0					<10					<10	<10				<10	<10	<10	<10
Acrylonitrile (µg/L)	5					<20					<20					<20	<25				<25	<25	<25	<25
Benzene (µg/L)	1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromomethane (µg/L)	5					<1.0					<1					<1	<10				<10	<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0

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

Parameter	NYSDEC	06/28/06	09/26/06	12/13/06	03/15/07	06/21/07	09/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/20014
Carbon tetrachloride (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloroethane (µg/L)	5					<1.0					<1					<1	<10				<10	<10	<10	<10
Chloroform (µg/L)	7					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloromethane (µg/L)	5					<1.0					<1					<1	<10				<10	<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Iodomethane (µg/L)	5					<5.0					<5					<5	<10				<10	<10	<10	<10
Methylene Chloride (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Styrene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Toluene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5					<5.0					<5					<5	<10				<10	<10	<10	<10
Trichloroethene (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS					<5.0					<5					<5	<10				<10	<10	<10	<10
Vinyl Chloride (µg/L)	2					<1.0					<1					<1	<10				<10	<10	<10	<10
Xylenes (Total) (µg/L)	5					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
	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.

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

Parameter	NYSDEC Ground Water Standard	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	3/23/04	6/22/04	9/28/04	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06
Field Parameter																																
Conductivity (µmhos/cm)	NS	672	1,590	2,010	444	338	334	429	374	204	247	555	177	125	161	807	163	137	123	685	207	164	203	224	450	93	437	1,200	160	100	210	300	155
pH (s.u.)	6.5 - 8.5	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**	**5.64**	**5.2**	**5.75**	**6.1**	**6.36**	**6.16**	**6.35**	**6**	6.5	**6.8**	6.81	**5.67**
Temperature (deg C)	NS	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	4.9	12.3	14.8	7	4.7		12.5	8	6	13	13.2	9.2
Turbidity (NTU)	5	**137**	**77**	**87**	**86**	**40**	**79**	**58**	**33**	**29**	**24**	**19**	**18**	**17**		**91**	0	**25**	**147**	**116**	**6**	**10**	**341**	**46**	**70**	0	**66**	**25**	0	**20**	**18**	-	**6**
Redox	NS																																
Dissolved Oxygen (mg/L)	NS																																
Part 360 Leachate Indicator Parameters																																
Ammonia-Nitrogen (mg/L)	2	**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**	**3.8**	**5.9**	**3.6**	0.84	0.64	**11**	**41**	**3**	1.5	**4.6**	**11**	**5**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	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	<4.0	4.3	<4	<4	<4.0	<10	20	<4	<4	<4.0	5.5	<4
Bromide (mg/L)	2	<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	<0.1	0.12	<0.1	<0.1	<0.10	0.12	0.54	<0.1	<0.1	<0.10	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	540	44	22	110	120	110	160	140	110	98	160	**88**	62	84	230	44	54	75	220	87	74	98	120	130	93	170	350	46	64	100	130	80
Chloride (mg/L)	250	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	2.5	8.4	7.4	3.2	3.7	12	110	4.2	3.6	3.8	13	3.8
Color (Pt-Co)	15		140					**250**					**300**	**250**						**175**				**550**					**70**	**150**			
Nitrate-Nitrogen (mg/L)	10	<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	<0.1	<0.1	<0.1	<0.1	0.14	0.12	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1
Sulfate (mg/L)	250	24	32	11	56	52	28	40	35	11	17	49	27	17	15	20	39	24	14	25	31	3.2	26	20	8	4.8	26	14	35	13	14	29	17
Total Alkalinity (mg/L)	NS	200	120	660	110	99	99	140	100	57	91	170	23	27	48	280	20	24	34	200	30	41	54	60	32	40	76	320	24	28	52	100	48
Total Cyanide (mg/L)	0.2		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01				<0.01	<0.01			
Total Dissolved Solids (mg/L)	500	320	**5,100**	**810**	330	240	160	340	250	170	200	300	180	160	150	**530**	130	150	140	**560**	80	130	190	190	130	100	220	**610**	130	96	160	220	150
Total Hardness (mg/L)	NS	42	110	94	49	36	41	46	44	31	40	56	42	34	**36**	77	42	35	35	130	37	36	43	37	34	36	43	83	**44**	32	41	41	39
Total Kjeldahl Nitrogen (mg/L)	NS	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	3.1	5.9	6.4	1.3	1.2	15	37	31	1.5	5.8	15	7.2
Total Organic Carbon (mg/L)	NS	71	21	47.8	35.5	39.3	45	56	62	42	43	61	33	30	41	84	21	24	27	**78**	32	29	38	40	48	28	44	100	24	25	42	55	34
Total Phenols (mg/L)	0.001	**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**	<0.002	<0.002	**0.0079**	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05
Part 360 Routine Metals																																
Cadmium (mg/L)	0.005	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01
Calcium (mg/L)	NS	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	8.8	11	9.3	8.5	8.6	11	23	12	8.1	11	12	10
Iron (mg/L)	0.3*	**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**	**4**	**4.1**	**4.3**	**6.4**	**5.1**	**5**	**6.9**	**3.6**	**3**	**3.3**	**2.8**	**2.8**
Lead (mg/L)	0.025	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	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	3.5	3.8	3.3	3.1	3.5	3.8	5.8	**3.6**	2.8	3.4	2.8	3.2
Manganese (mg/L)	0.3*	**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	0.24	**0.3**	0.25	0.23	0.25	0.28	**0.7**	0.24	0.19	0.22	<0.01	0.2
Potassium (mg/L)	NS	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	12	16	17	5.1	4.5	14	60	8.9	5.7	8.2	29	8.3
Sodium (mg/L)	20	**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	4.5	9.3	8.2	1.3	0.74	9.4	**110**	3.1	3	6.3	**26**	3.6
Part 360 Additional Basiline Metals																																
Aluminum (mg/L)	NS	2.77			1.8								1.1	1.2					1.4			1.4							0.75	1.1		
Antimony (mg/L)	0.003	<0.015			<0.01								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Arsenic (mg/L)	0.025	**0.027**			<0.01								<0.01	<0.01					0.011			<0.01							<0.01	<0.01		
Barium (mg/L)	1	0.0855			<0.2								<0.2	<0.2					<0.2			<0.2							<0.1	<0.2		
Beryllium (mg/L)	0.003 (GV)	<0.003			<0.01								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Boron (mg/L)	1	<0.1			0.53	0.71		<0.5	0.65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**			<0.01	**1.4**	<0.5	<0.5	0.28									
Chromium (mg/L)	0.05	0.0097			<0.01								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Chromium, Hexavalent (mg/L)	0.05	<0.01			<0.01								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Cobalt (mg/L)	NS	<0.02			<0.01								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Copper (mg/L)	0.2	0.0258			<0.01								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Mercury (mg/L)	0.0007	<0.0002			<0.0002								<0.0002	<0.0002					<0.0002			<0.0002							<0.0002	<0.0002		
Nickel (mg/L)	0.1	<0.03			0.021								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Selenium (mg/L)	0.01	<0.005			<0.01								<0.01	<0.01					<0.01			<0.01							**0.017**	<0.01		
Silver (mg/L)	0.05	<0.01			<0.01								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Thallium (mg/L)	0.0005 (GV)	<0.01			<0.01								<0.01	<0.01					<0.01			<0.01							<0.01	**0.02**		
Vanadium (mg/L)	NS	<0.3			0.011								<0.01	<0.01					<0.01			<0.01							<0.01	<0.01		
Zinc (mg/L)	2	0.0508			0.032								0.012	0.024					0.049			0.019							0.016	<0.01		
Part 360 Volatile Organics																																
1,1,1,2-Tetrachloroethane (µg/L)	5	<5.0			<5.0								<5.0	<5.0					<5			<1							<1	<1		
1,1,1-Trichloroethane (µg/L)	5	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
1,1,2,2-Tetrachloroethane (µg/L)	5	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
1,1,2-Trichloroethane (µg/L)	1	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
1,1-Dichloroethane (µg/L)	5	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
1,1-Dichloroethene (µg/L)	5	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
1,2,3-Trichloropropane (µg/L)	0.04				<5.0								<5.0	<5.0					<5			<1							<1	<1		
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<10.0			<5.0								<5.0	<5.0					<5			<1							<1	<1		
1,2-Dibromoethane (EDB) (µg/L)	5	<5.0			<5.0								<5.0	<5.0					<5			<1							<1	<1		
1,2-Dichlorobenzene (µg/L)	3	<5.0			<5.0								<5.0	<5.0					<5			<1							<1	<1		
1,2-Dichloroethane (µg/L)	0.6	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
1,2-Dichloropropane (µg/L)	1	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
1,4-Dichlorobenzene (µg/L)	3	<5.0			<5.0								<5.0	<5.0					<5			<1										
2-Butanone (MEK) (µg/L)	50 (GV)	<10.0			<10.0								<10.0	<10.0				<10	<10			<10							<5	<5		
2-Hexanone (µg/L)	50 (GV)	<10.0			<10.0								<10.0	<10.0				<10	<10			<10							<5	<5		
4-Methyl 2-pentanone (µg/L)	NS	<10.0			<10.0								<10.0	<10.0				<10	<10			<10							<5	<5		
Acetone (µg/L)	50 (GV)	<10.0			<10.0								<10.0	<10.0				<10	<10			<10							<10	<5		
Acrylonitrile (µg/L)	5	<100.0			<20.0								<20.0	<20.0					<20			<5							<20	<20		
Benzene (µg/L)	1	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
Bromochloromethane (µg/L)	5	<5.0			<5.0								<5.0	<5.0					<5			<1							<1	<1		
Bromodichloromethane (µg/L)	50 (GV)	<5.0											<5.0	<5.0				<5	<5			<1							<1	<1		
Bromoform (µg/L)	50 (GV)	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		
Bromomethane (µg/L)	5	<5.0			<5.0								<5.0	<5.0				<5	<5			<1							<1	<1		

City of Rome
Tannery Road Landfill
MW-4S
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Parameter	NYSDEC Ground Water Standard	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	3/23/04	6/22/04	9/28/04	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06
Carbon disulfide (µg/L)	60 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Chlorobenzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1			
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1			
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10					<5	<5			
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<1			
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1			
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
trans-1,4-Dichloro-2-butene (µg/L)	5							<50.0					<50.0	<10.0					<10					<10					<5	<5			
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1			
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5					<5	<5			
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1			
1,2-Dichloroethene - Total	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
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Parameter	NYSDEC Ground Water Standard	3/15/07	6/21/07	9/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Field Parameter																					
Conductivity (µmhos/cm)	NS	83	507	668	140	170	209	504	770	106	88	387	168	93	136	325	207	230	197	90	140
pH (s.u.)	6.5 - 8.5	**5.78**	**5.95**	**6.01**	**5.16**	**5.95**	**5.9**	**6.17**	**6.2**	**5.87**	**5.8**	**6.11**	**5.8**	**5.55**	**5.01**	**5.99**	**6.1**	**6.13**	**6.17**	**5.5**	**6.1**
Temperature (deg C)	NS	4.8	11	13	7.7	5	10.6	12.7	7.1	5.7	13.8	12	7.8	6.1	10.9	13.4	6.9	4.7	10.9	14	7
Turbidity (NTU)	5	0	**13**	**15**	5	**9**	2	0	**32**	**17**	**6**	**20**	0	3	0	**28**	0	**14**	0	**50**	**110**
Redox	NS		-108																		
Dissolved Oxygen (mg/L)	NS		4.41																		
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	2	**3.3**	**23**	**31**	**3.3**	**3.6**	**7.3**	**30**	0.87	1.6	0.5	**17**	**12**	0.54	**3.2**	**19.3**	**8.4**	**6.2**	**4.6**	0.2	0.2
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<20	9.5	17	<4	6.9	<4	13	<4	<4	<4	11	<4.0	<2.0	<2.0	61	<4.0	<4.0	2	8	2
Bromide (mg/L)	2	<0.1	<0.1	0.37	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	1.9	<1.0	**2.09**	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	75	190	200	55	93	100	210	75	48	8.9	160	50	54.1	83	171	98	88	90	859	113
Chloride (mg/L)	250	3.2	43	60	4.6	5.5	7.6	52	3.4	3.3	2.5	13	3.2	<1.0	1.26	18.9	3.26	1.93	2.07	<1.0	1.16
Color (Pt-Co)	15		**240**					**300**					**60**	**70**				**>70**	**>70**	**>70**	**70**
Nitrate-Nitrogen (mg/L)	10	<0.1	<0.1	<0.1	<0.1	<0.04	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.020	<0.020	<0.020	<0.02	0.02	<0.02	0.02	0.08
Sulfate (mg/L)	250	11	24	11	20	23	20	13	28	16	9.7	24	40	20.5	19.7	26.4	33.8	27	23	11.2	1.61
Total Alkalinity (mg/L)	NS	43	130	230	35	58	76	220	38	30	68	100	19	17	38	120	65	58	50	760	26
Total Cyanide (mg/L)	0.2		<0.01					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010	<0.01
Total Dissolved Solids (mg/L)	500	120	370	410	96	130	190	**500**	120	90	120	250	130	108	117	268	218	193	140	85	80
Total Hardness (mg/L)	NS	33	56	55	35	42	38	52	40	34	36	35	53	36	42	42	42	48	45	47	39
Total Kjeldahl Nitrogen (mg/L)	NS	4.4	23	34	5.8	5.3	1.8	32	3.2	2.4	1.1	20	3.9	1.4	4.2	18.5	9.8	9.5	4.5	4.8	1.4
Total Organic Carbon (mg/L)	NS	33	82	100	29	34	43	90	25	23	22	66	23	22.5	37	59.3	40.8	38.1	40.2	35.9	41.6
Total Phenols (mg/L)	0.001	<0.002	<0.003	<0.003	<0.003	**0.0034**	<0.003	**0.0032**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.002**
Part 360 Routine Metals																					
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.00013	<0.005	<0.005	<0.005	0.00026	<0.00021	0.0011	<0.005
Calcium (mg/L)	NS	8.7	16	17	9.2	11	10	15	10	9	9.4	10	14	9.72	11.7	12.7	11.9	13	12.5	12.7	11.5
Iron (mg/L)	0.3*	**2.7**	**5.4**	**7.8**	**2.8**	**4.2**	**2.9**	**4.6**	**4.7**	**2.9**	**1.5**	**4**	**2.6**	**1.08**	**1.85**	**3.38**	**2.51**	**2.93**	**3.17**	**3.82**	**3.89**
Lead (mg/L)	0.025	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.002	<0.005	<0.005	<0.005	<0.0019	<0.0018	0.022	<0.005
Magnesium (mg/L)	35 (GV)	2.7	4.6	3.3	2.8	3.5	3	3.5	3.7	2.9	3.1	2.4	4.4	2.84	3.01	2.56	2.88	3.72	3.36	3.37	2.4
Manganese (mg/L)	0.3*	0.2	**0.44**	**0.51**	0.22	0.29	0.25	**0.38**	0.24	0.22	0.15	0.23	0.24	0.115	0.194	**0.317**	0.255	**0.333**	**0.323**	0.254	0.263
Potassium (mg/L)	NS	7	21	40	8.6	11	11	25	4.4	4.5	2.7	24	6.2	1.35	6.92	24.4	14.5	12.2	5.68	1.15	0.671
Sodium (mg/L)	20	2.4	**36**	**60**	3.6	9	9.2	**42**	2.5	2.7	1.6	**30**	4.1	1.25	5.5	**32.2**	10.6	8.09	4.94	1.54	0.766
Part 360 Additional Basiline Metals																					
Aluminum (mg/L)	NS		1.6					2.6					0.77	0.678				1.05	1.37	4.83	2.03
Antimony (mg/L)	0.003		<0.01					<0.01					<0.01	<0.020				<0.0196	0.0017	0.009	<0.06
Arsenic (mg/L)	0.025		<0.01					<0.01					<0.01	<0.002				0.0052	<0.0022	<0.002	0.006
Barium (mg/L)	1		<0.2					<0.2					<0.1	0.008				0.0242	0.0138	0.023	0.012
Beryllium (mg/L)	0.003 (GV)		<0.01					<0.01					<0.01	<0.00014				<0.00014	<0.00016	<0.0001	<0.005
Boron (mg/L)	1		0.63					0.9					<0.5	0.036				0.214	0.156	0.041	<0.05
Chromium (mg/L)	0.05		0.015					<0.01					<0.01	<0.005				<0.0047	<0.0051	0.008	<0.005
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020	<0.02
Cobalt (mg/L)	NS		<0.01					<0.01					<0.01	<0.000				<0.00043	0.00069	0.003	<0.05
Copper (mg/L)	0.2		<0.04					<0.01					<0.01	<0.003				<0.002	<0.0025	0.076	<0.005
Mercury (mg/L)	0.0007		<0.0002					<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15	<0.0002
Nickel (mg/L)	0.1		<0.01					0.011					<0.01	0.001				0.0018	0.002	0.0079	<0.02
Selenium (mg/L)	0.01		<0.01					<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003	**0.012**
Silver (mg/L)	0.05		**0.052**					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003	<0.01
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.01					<0.02	**0.009**				**0.0335**	**0.003**	0.005	<0.01
Vanadium (mg/L)	NS		0.012					0.016					<0.01	0.007				<0.0049	0.0067	<0.011	<0.02
Zinc (mg/L)	2		0.01					0.025					0.025	0.009				0.0105	0.0017	0.041	0.013
Part 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<1.0					<20					<1	<10				<10	<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)		<5.0					<200					<10	<10				<10	<10	<10	<10
2-Hexanone (µg/L)	50 (GV)		<5.0					<200					<10	<10				<10	<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS		<5.0					<200					<10	<10				<10	<10	<10	<10
Acetone (µg/L)	50 (GV)		<5.0					<200					<10	<10				<10	<10	<10	<10
Acrylonitrile (µg/L)	5		<20					<500					<20	<25				<25	<25	<25	<25
Benzene (µg/L)	1		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromomethane (µg/L)	5		<1.0					<20					<1	<10				<10	<10	<10	<10

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MW-4S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	3/15/07	6/21/07	9/25/07	12/17/07	3/27/2008	6/19/2008	9/23/2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Carbon disulfide (µg/L)	60 (GV)		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloroethane (µg/L)	5		<1.0					<20					<1	<10				<10	<10	<10	<10
Chloroform (µg/L)	7		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloromethane (µg/L)	5		<1.0					<20					<1	<10				<10	<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Iodomethane (µg/L)	5		<5.0					<100					<5	<10				<10	<10	<10	<10
Methylene Chloride (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Styrene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Toluene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5		<5.0					<100					<5	<10				<10	<10	<10	<10
Trichloroethene (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS		<5.0					<100					<5	<10				<10	<10	<10	<10
Vinyl Chloride (µg/L)	2		<1.0					<20					<1	<10				<10	<10	<10	<10
Xylenes (Total) (µg/L)	5		<1.0					<20					<1	<5.0				<5.0	<5.0	<5.0	<5.0
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.

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

Parameter	NYSDEC Ground Water Standard	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	3/23/04	6/22/04	9/28/04	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06
Field Parameter																														
Conductivity (µmhos/cm)	NS	869	340	308	195	540	230	167	219	456	163	433	227	232	223	112	252	227	208	102	230	306	112	118	276	182	227	178	550	270	420
pH (s.u.)	6.5 - 8.5	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	**6.15**	**6.1**	**6.44**	6.6	7.18	6.66	6.9	**5.9**	6.9	7.2
Temperature (deg C)	NS	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	5.4	11.3	14.1	8	5.7		12.5	9	6	11
Turbidity (NTU)	5	**64**	**533**	**204**	**162**	**74**	**55**	**198**	**46**	**35**	**42**	**68**	**36**	**47**		**837**	0	**27**	**334**	**202**	**140**	**41**	**150**	**108**	**154**	**8**	**149**	**119**	**38**	**50**	**10**
Redox	NS																														
Dissolved Oxygen (mg/L)	NS																														
Part 360 Leachate Indicator Parameters																															
Ammonia-Nitrogen (mg/L)	2	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	0.83	<0.03	<0.03	<0.03	0.15	<0.03	<0.03	0.82	0.93	0.055
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	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	<4.0	<4	<4	<4	<4.0	<4.0	<4.0	7.6	<4	<4.0
Bromide (mg/L)	2	<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	<0.1	<0.1	<0.1	<0.1	<0.1	0.24	<0.1	<0.1	<0.1	<0.10
Chemical Oxygen Demand (mg/L)	NS	71	45	32	20	36	24	32	26	37	5.2	43	23	31	18	62	20	16	69	22	32	25	25	15	14	18	16	15	23	22	8.9
Chloride (mg/L)	250	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	4.2	2.9	2.6	2.5	3	2.6	3.1	3.2	3	2.5
Color (Pt-Co)	15		**110**					**30**					**75**	**150**					**125**					**450**					**130**	**140**	
Nitrate-Nitrogen (mg/L)	10	<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	<0.1	0.19	0.2	0.19	0.14	0.13	0.23	<0.1	<0.1	<0.10
Sulfate (mg/L)	250	37	40	28	31	51	16	44	60	42	34	53	36	23	18	21	23	21	22	16	14	21	11	9.6	8.3	7.3	9	7.6	12	14	8.6
Total Alkalinity (mg/L)	NS	470	170	300	58	260	120	52	47	200	50	190	68	82	80	40	110	97	86	32	100	110	48	38	88	140	24	64	230	110	44
Total Cyanide (mg/L)	0.2		<0.01										<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Total Dissolved Solids (mg/L)	500	430	130	230	150	360	730	140	150	300	120	240	200	78	110	180	170	160	170	92	160	180	80	66	90	170	52	90	290	170	66
Total Hardness (mg/L)	NS	320	130	148	81	228	120	96	110	200	78	230	110	110	93	110	120	130	120	66	110	130	54	52	94	130	31	84	230	130	55
Total Kjeldahl Nitrogen (mg/L)	NS	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	1.3	0.41	0.2	0.14	0.32	0.66	0.39	1.1	0.8	0.23
Total Organic Carbon (mg/L)	NS	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	8.9	4.5	3.6	5.4	5.6	5.1	5.4	9.7	9.4	4.7
Total Phenols (mg/L)	0.001	<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	<0.002	<0.002	**0.0039**	<0.002	<0.01	**0.0037**	<0.002	**0.0035**	**0.0021**	**0.0032**
Part 360 Routine Metals																															
Cadmium (mg/L)	0.005	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010
Calcium (mg/L)	NS	97.8	35	43	23.3	69.9	35	27	31	64	23	72	35	35	30	27	41	42	39	20	35	42	17	16	24	40	9.3	24	71	42	16
Iron (mg/L)	0.3*	**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**	9	**6.3**	**4.7**	**22**	**15**	**7.6**	**24**	**19**	**11**	**2.6**
Lead (mg/L)	0.025	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	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	5.7	2.8	2.9	4.2	8.1	1.9	5.7	12	6.6	3.7
Manganese (mg/L)	0.3*	**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**	**0.67**	**0.32**	**0.34**	**0.63**	**1.3**	0.063	**0.82**	**1.6**	**0.52**	**0.32**
Potassium (mg/L)	NS	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	5.1	2.4	2.4	2.7	3.3	1.5	3.2	5.4	4	1.7
Sodium (mg/L)	20	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	4.4	<1	<1	1.2	<1.0	<1.0	1.1	2	1.5	<1.0
Part 360 Additional Baseline Metals																															
Aluminum (mg/L)	NS		3.2					2					0.41	0.54					0.73					0.44					0.14	0.35	
Antimony (mg/L)	0.003		<0.015					**0.022**					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Arsenic (mg/L)	0.025		0.0138					<0.01					<0.01	0.013					**0.031**					0.013					<0.02	<0.01	
Barium (mg/L)	1		0.0655					<0.2					<0.2	<0.2					<0.2					<0.2					0.14	<0.2	
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Boron (mg/L)	1		<0.1				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5		0.014					<0.5	<0.5	
Chromium (mg/L)	0.05		0.0109					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Cobalt (mg/L)	NS		<0.02					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Copper (mg/L)	0.2		0.0295					0.014					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Mercury (mg/L)	0.0007		<0.0002					**0.0027**					<0.0002	<0.0002					<0.0002					<0.0002					<0.0002	<0.0002	
Nickel (mg/L)	0.1		<0.03					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Selenium (mg/L)	0.01		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Silver (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Vanadium (mg/L)	NS		<0.3					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01	<0.01	
Zinc (mg/L)	2		0.0827					0.058					0.013	0.032					0.041					0.017					<0.01	0.015	
Part 360 Volatile Organics																															
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,4-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1		
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<5	
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<5	
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<5	
Acetone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10					<10	<5	
Acrylonitrile (µg/L)	5		<100.0					<20.0					<20.0	<20.0					<20					<5					<20	<20	
Benzene (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
Bromodichloromethane (µg/L)	50 (GV)		<5.0										<5.0	<5.0				<5	<5					<1					<1	<1	
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	

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

Parameter	NYSDEC Ground Water Standard	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	3/23/04	6/22/04	9/28/04	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Carbon disulfide (µg/L)	60 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chlorobenzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10					<5	<5	
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10					<5	<1	
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
trans-1,4-Dichloro-2-butene (µg/L)	5							<50.0					<50.0	<10.0					<10					<10					<5	<5	
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1	<1	
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5					<5	<5	
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1	<1	
1,2-Dichloroethene - Total	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-5S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08	6/19//2008	9/23//2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Field Parameter																							
Conductivity (µmhos/cm)	NS	102	324	172	109	97	324	326	79	80	324	274	108	81	119	52	185	129	237	252	100	100	140
pH (s.u.)	6.5 - 8.5	7.19	**6.45**	**6.38**	6.72	**6.32**	**6.13**	**6.38**	6.75	**6.48**	6.67	**5.92**	**6.13**	**6.13**	**6.4**	**6.2**	**5.36**	**6.37**	6.6	**5.98**	6.77	**6.4**	**6**
Temperature (deg C)	NS	12	9.4	5.5	9.8	11.1	7.4	5.1	8.7	11.5	7.8	5.1	10.6	10.5	7.9	5.2	9.9	12.5	7	4.2	9.6	14	6
Turbidity (NTU)	5	-	**28**	0	**161**	**260**	**15**	**55**	**78**	3	**74**	**121**	**310**	**127**	**22**	**107**	**116**	**102**	0	**73**	**97**	**50**	**320**
Redox	NS				-8																		
Dissolved Oxygen (mg/L)	NS				5.14																		
Part 360 Leachate Indicator Parameters																							
Ammonia-Nitrogen (mg/L)	2	<0.03	0.88	0.28	0.14	<0.03	0.51	0.83	<0.03	<0.03	1.2	0.44	<0.03	<0.030	0.058	<0.1	<0.1	<0.1	0.3	0.2	<0.1	<0.1	<0.1
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<4	<4	<4	<4	<4	5.2	<5	<4	<4	<4	<4	<4	<4.0	<4.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	2
Bromide (mg/L)	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	16	23	12	19	30	14	30	<5	7.6	40	14	<5	20	<5.0	8.2	<5.0	9	13	**8**	<5.0	147	26
Chloride (mg/L)	250	2.9	2.7	2.9	2.7	2.2	3	<2	2.7	2.2	3.1	2.6	2.4	2.5	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Color (Pt-Co)	15				**100**					**200**					<5	<5.0				10	5	5	**15**
Nitrate-Nitrogen (mg/L)	10	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	0.17	0.18	<0.1	<0.1	<0.1	<0.1	<0.1	0.03	<0.020	<0.020	<0.02	0.02	<0.02	<0.02	0.09
Sulfate (mg/L)	250	8.8	8.1	9.4	8.2	7.3	6	8.3	6.6	6.7	6.8	7.9	8.1	6.9	5.6	10.2	6.37	5.4	5.86	5.32	6.32	5.83	6.03
Total Alkalinity (mg/L)	NS	52	150	78	56	44	170	150	37	240	200	140	120	78	60	17	95	50	135	100	44	40	42
Total Cyanide (mg/L)	0.2				<0.01					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010	<0.01
Total Dissolved Solids (mg/L)	500	120	210	140	86	74	210	160	82	92	170	120	48	48	<10	25	102	95	138	153	60	60	50
Total Hardness (mg/L)	NS	49	150	78	110	45	160	140	42	41	150	110	18	34	68	22	111	54	113	109	53	49	**82**
Total Kjeldahl Nitrogen (mg/L)	NS	0.48	1.1	0.51	0.37	0.42	1.2	1.8	1.4	0.34	2.8	0.77	0.25	0.66	0.23	<1.0	<1.0	<1.0	1.4	1.7	<1.0	<1.0	<1.0
Total Organic Carbon (mg/L)	NS	4.3	7.2	4.2	5	12	7.8	7.8	3.9	4.6	4.7	6.9	5.7	3.9	5.1	3	4	3.6	5.6	4.8	3.1	3.9	7.9
Total Phenols (mg/L)	0.001	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.002**
Part 360 Routine Metals																							
Cadmium (mg/L)	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	<0.010	<0.01	<0.00013	<0.005	<0.005	<0.005	<0.00013	0.00023	<0.00015	<0.005
Calcium (mg/L)	NS	15	47	23	16	13	48	43	13	12	45	35	4.6	9.6	20	6.02	32.5	15.5	34.6	32.1	15.4	14.6	24
Iron (mg/L)	0.3*	**2.8**	**12**	**4.8**	**13**	**65**	**12**	**9.1**	**5.9**	**6.4**	**17**	**11**	**1**	**12**	**6.6**	**18.3**	**6.1**	**6.53**	**6.73**	**3.39**	**8.94**	**5.41**	**3.8**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.002	<0.005	<0.005	<0.005	<0.0019	<0.0018	<0.002	<0.005
Magnesium (mg/L)	35 (GV)	2.9	9	4.9	3.8	2.9	8.8	7.4	2.6	2.6	9	6.5	1.5	2.4	4.3	1.58	7.29	3.65	6.55	6.97	3.45	3.13	5.38
Manganese (mg/L)	0.3*	<0.01	**0.88**	**0.49**	**0.44**	**0.34**	**0.96**	**0.89**	**0.32**	**0.4**	**1.1**	**1.1**	0.02	0.16	**0.64**	0.178	**1.38**	0.277	**0.739**	**0.585**	0.217	0.221	**0.564**
Potassium (mg/L)	NS	1.8	2.5	1.9	1.8	1.6	4.2	3.8	1.5	1.6	3.9	2.6	<1	1.2	2	0.609	1.77	1.33	1.73	1.46	1.09	0.936	1.19
Sodium (mg/L)	20	<1	1.2	1.2	1	1.5	1.3	1.1	1	<1	1.6	<1	<1	<1.0	<1.0	0.365	0.798	0.646	0.734	0.705	0.418	0.574	0.392
Part 360 Additional Baseline Metals																							
Aluminum (mg/L)	NS				0.64					1.2					0.15	0.234				0.0462	0.445	0.28	0.329
Antimony (mg/L)	0.003				<0.01					<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002	<0.06
Arsenic (mg/L)	0.025				<0.01					<0.01					<0.01	0.008				0.0039	0.0097	<0.002	<0.005
Barium (mg/L)	1				<0.2					<0.2					<0.1	0.019				0.0323	0.0358	0.028	0.03
Beryllium (mg/L)	0.003 (GV)				<0.01					<0.01					<0.01	<0.00014				0.00019	<0.00016	<0.0001	<0.005
Boron (mg/L)	1				<0.5					<0.5					<0.5	<0.001				0.0066	<0.00057	0.001	<0.05
Chromium (mg/L)	0.05				<0.01					<0.01					<0.01	<0.005				<0.0047	<0.0051	<0.003	<0.005
Chromium, Hexavalent (mg/L)	0.05				<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020	<0.02
Cobalt (mg/L)	NS				<0.01					<0.01					<0.01	0.001				0.00067	0.00061	<0.001	<0.05
Copper (mg/L)	0.2				<0.04					<0.01					<0.01	<0.003				<0.002	<0.0025	<0.001	<0.005
Mercury (mg/L)	0.0007				<0.0002					<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15	<0.0002
Nickel (mg/L)	0.1				<0.01					<0.01					<0.01	<0.001				0.00081	0.0011	0.00049	<0.02
Selenium (mg/L)	0.01				<0.01					<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003	<0.005
Silver (mg/L)	0.05				0.049					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003	<0.01
Thallium (mg/L)	0.0005 (GV)				<0.01					<0.01					<0.02	**0.003**				**0.0153**	<0.0018	<0.003	<0.01
Vanadium (mg/L)	NS				<0.01					<0.01					<0.01	<0.005				<0.0049	<0.0054	<0.011	<0.02
Zinc (mg/L)	2				0.023					0.022					<0.02	0.006				0.0026	0.0015	0.003	<0.01
Part 360 Volatile Organics																							
1,1,1,2-Tetrachloroethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04				<1.0					<1					<1	<10				<10	<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3				<1.0					<10					<1	<5.0				<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)				<5.0					<10					<10	<10				<10	<10	<10	<10
2-Hexanone (µg/L)	50 (GV)				<5.0					<10					<10	<10				<10	<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS				<5.0					<20					<10	<10				<10	<10	<10	<10
Acetone (µg/L)	50 (GV)				<5.0					<1					<10	<10				<10	<10	<10	<10
Acrylonitrile (µg/L)	5				<20					<1					<20	<25				<25	<25	<25	<25
Benzene (µg/L)	1				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0

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

Parameter	NYSDEC Ground Water Standard	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08	6/19//2008	9/23//2008	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Bromomethane (µg/L)	5				<1.0					<1					<1	<10				<10	<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	**<5.0**
Chloroethane (µg/L)	5				<1.0					<1					<1	<10				<10	<10	<10	<10
Chloroform (µg/L)	7				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloromethane (µg/L)	5				<1.0					<1					<1	<10				<10	<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5				<1.0					<5					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Iodomethane (µg/L)	5				<5.0					<1					<5	<10				<10	<10	<10	<10
Methylene Chloride (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Styrene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Toluene (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5				<1.0					<5					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5				<5.0					<1					<5	<10				<10	<10	<10	<10
Trichloroethene (µg/L)	5				<1.0					<5					**<1**	<5.0				<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5				<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS				<5.0					<1					<5	<10				<10	<10	<10	<10
Vinyl Chloride (µg/L)	2				<1.0										<1	<10				<10	<10	<10	<10
Xylenes (Total) (µg/L)	5				<1.0										<1	<5.0				<5.0	<5.0	<5.0	<5.0
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	NYSDEC Ground Water Standard	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	3/23/04	6/22/04	9/28/04	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05
Field Parameters																												
Conductivity (µmhos/cm)	NS	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	1,030	807	817	1150	785	1,131	434	730
pH (s.u.)	6.5 - 8.5	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	6.23	5.7	6	6.4	6.25	6.4	7.05	6.1
Temperature (deg C)	NS	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	9.5	12.3	12.6	9	8.7		10.8	9
Turbidity (NTU)	5	160	42	94	247	128	83	98	62	97	112	152	53	29		345	61	69	999	128	30	59	150	165	200	70	151	104	98
Redox	NS																												
Dissolved Oxygen (mg/L)	NS																												
Part 360 Leachate Indicator Parameters																													
Ammonia-Nitrogen (mg/L)	2	47	25	47	36	33	58	41	37	46	40	47	39	43	46	22	34	39	40	38	8.4	30	29	25	8.5	26	11	17	22
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	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	<10.0	<10	7.2	<4	6.2	<10	13	<4
Bromide (mg/L)	2	<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	0.83	0.68	0.5	<0.1	0.4	0.22	0.15	<0.1
Chemical Oxygen Demand (mg/L)	NS	570	140	14	110	120	150	140	120	140	120	120	120	130	130	150	100	120	150	120	76	110	550	130	59	109	76	83	93
Chloride (mg/L)	250	81	70	88	84	68	3.3	65	59	74	62	46	56	76	72	21	7	55	57	54	8.8	56	44	27	5.5	36	7.6	15	24
Color (Pt-Co)	15		280					750					850	750					600					675					350
Nitrate-Nitrogen (mg/L)	10	<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	0.23	<0.1	<0.1	0.49	0.16	0.18	0.19	<0.1
Sulfate (mg/L)	250	<5.0	35	12	28	34	9.3	41	44	35	47	45	52	58	61	47	8.6	54	57	49	28	39	37	23	14	15	7.5	5.9	5
Total Alkalinity (mg/L)	NS	670	370	710	470	450	680	460	440	430	470	430	390	460	470	160	360	390	410	340	120	320	330	290	150	320	140	230	300
Total Cyanide (mg/L)	0.2		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01
Total Dissolved Solids (mg/L)	500	540	540	710	660	610	400	590	600	670	570	480	650	720	650	420	520	580	640	580	240	510	440	420	240	460	280	280	360
Total Hardness (mg/L)	NS	300	260	350	310	244	390	320	270	280	270	260	250	270	280	140	240	270	270	310	97	230	220	200	90	180	140	150	200
Total Kjeldahl Nitrogen (mg/L)	NS	44	36	36	24	26	680	50	51	52	43	50	39	50	44	26	36	41	41	25	6.4	35	24	18	8.5	21	11	13	19
Total Organic Carbon (mg/L)	NS	55	48	45.9	38.5	38.1	60	48	55	49	44	43	47	50	46	50	41	42	27	43	28	39	39	34	23	38	26	25	38
Total Phenols (mg/L)	0.001	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	0.004	<0.002	0.0021	<0.002	<0.01	0.0047	0.0041	0.0044
Part 360 Routine Metals																													
Cadmium (mg/L)	0.005	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	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	57	54	49	21	45	32	33	51
Iron (mg/L)	0.3*	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	34	31	29	11	27	26	24	27
Lead (mg/L)	0.025	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	0.012	0.015	<0.01	0.012	<0.01	0.032	0.028	<0.01
Magnesium (mg/L)	35 (GV)	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	22	20	18	9	17	14	16	17
Manganese (mg/L)	0.3*	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	0.68	0.68	0.64	0.38	0.55	0.61	0.59	0.62
Potassium (mg/L)	NS	54.8	40.9	48	50.5	38.4	60	46	66	43	39	41	37	40	43	23	40	39	47	39	20	37	42	40	14	28	19	20	26
Sodium (mg/L)	20	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	44	36	31	7.7	33	7.4	19	25
Part 360 Additional Baseline Metals																													
Aluminum (mg/L)	NS		0.439					1					1.2	0.83					2.3					1.1					1.4
Antimony (mg/L)	0.003		<0.015					0.034					<0.01	<0.01					<0.01					<0.01					<0.01
Arsenic (mg/L)	0.025		<0.01					0.011					<0.01	<0.01					0.026					0.011					0.024
Barium (mg/L)	1		0.217					<0.2					0.43	0.49					0.61					0.23					0.22
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01
Boron (mg/L)	1		0.7				1.7	1.2			<0.5	0.83	<0.5	0.99	0.83	<0.5			1.1	1.2	<0.5	0.95		0.8					0.55
Chromium (mg/L)	0.05		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01
Cobalt (mg/L)	NS		<0.02					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01
Copper (mg/L)	0.2		<0.01					<0.01					0.022	<0.01					<0.01					<0.01					<0.01
Mercury (mg/L)	0.0007		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002					<0.0002					<0.0002
Nickel (mg/L)	0.1		<0.03					<0.01					<0.01	<0.01					<0.01					0.046					<0.01
Selenium (mg/L)	0.01		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01
Silver (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01
Thallium (mg/L)	0.0005 (GV)		0.0105					<0.01					<0.01	<0.01					<0.01					<0.01					<0.01
Vanadium (mg/L)	NS		<0.3					0.013					0.013	0.01					0.018					0.016					0.029
Zinc (mg/L)	2		0.056					0.067					0.036	0.034					0.097					0.041					0.029
Part 360 Volatile Organics																													
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1					<1
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1					<1
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1					<1

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

Parameter	NYSDEC Ground Water Standard	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	3/23/04	6/22/04	9/28/04	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
1,4-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10				<5
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10				<5
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<10.0	<10.0				<10	<10					<10				<5
Acetone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				10	<10					<10				<10
Acrylonitrile (µg/L)	5		<100.0					<20.0					<20.0	<20.0					<20					<5				<20
Benzene (µg/L)	1		<5.0					**14**					**17**	**24**				**15**	**16**					**4.3**				**6.3**
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
Bromodichloromethane (µg/L)	50 (GV)		<5.0										<5.0	<5.0				<5	<5					<1				<1
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Carbon disulfide (µg/L)	60 (GV)		<18.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Chlorobenzene (µg/L)	5		**23**					**8.4**					**5.8**	**5.3**				<5	<5					4.4				4.1
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10				<5
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10				<5
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1				<1
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
trans-1,4-Dichloro-2-butene (µg/L)	5							<50.0					<50.0	<10.0					<10					<10				<5
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1				<1
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5				<5
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1				<1
Xylenes (Total) (µg/L)	5		2					**16**					**130**	**180**				**160**	**97**					**<1**				**110**
1,2-Dichloroethene - Total	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
7) J indicates estimated concentration due to QC sample recovery

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

Parameter	NYSDEC Ground Water Standard	3/6/06	6/6/06	9/26/06	12/13/06	3/15/07	6/1/07	9/25/07	12/17/07	3/27/08	6/19/08	9/23/08	12/15/08	3/17/09	6/22/09	9/25/09	12/14/09	3/24/10	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Field Parameters																									
Conductivity (µmhos/cm)	NS	710	450	670	684	1,020	650	287	581	656	551	649	633	327	407	258	632	440	519	578	525	599	438	320	330
pH (s.u.)	6.5 - 8.5	6.8	7.2	7.25	**6.33**	**6.27**	6.53	6.75	**6.14**	6.73	**6.36**	**6.09**	7.08	**6.16**	**6.34**	**6.08**	**5.8**	**5.7**	**5.91**	**6.37**	**5.75**	**5.15**	**5.79**	6.9	6.5
Temperature (deg C)	NS	10	12	11	10.1	8.7	10.8	12	9.1	9.5	10.7	10.2	9.4	10.1	13	10.5	9.7	8.6	10.7	11.1	9.4	9.1	11.4	12	9
Turbidity (NTU)	5	**78**	**67**	-	**40**	0	**76**	**33**	**43**	**36**	**59**	0	**215**	**79**	**56**	**9**	0	**20**	**10**	**100**	0	**45**	0	**10**	**10**
Redox	NS						-89																		
Dissolved Oxygen (mg/L)	NS						3.95																		
Part 360 Leachate Indicator Parameters																									
Ammonia-Nitrogen (mg/L)	2	**31**	**21**	**24**	**26**	**28**	**24**	**3.9**	**20**	**27**	**18**	**35 J**	**6.2**	**18**	**7.7**	1.5	1.8	**2.77**	**14**	**17.2**	**14.6**	**15.3**	**13**	0.3	<0.1
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	7.7	8	<4	<10	180	5.2	<4	8	7.8	6.1	9.5	<10	8.4	<4	<4.0	<4.0	<2.0	6	<60	<12	7	4	6	4
Bromide (mg/L)	2	0.3	<0.10	0.32	<0.1	0.55	<0.1	<0.1	0.25	0.26	0.27	0.29	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	110	110	110	110	100	100	12	93	68	75	73	80	75	67	56	62	69.9	62	80	59	70	67	62	42
Chloride (mg/L)	250	33	28	29	35	47	31	3.6	22	31	23	29	5.2	20	5.5	4	<1.0	2.8	9.02	8.5	9.11	6.68	5.84	<1.0	<1.0
Color (Pt-Co)	15	**750**					**400**					**400**					12	**70**				**>70**	**>70**	**>70**	**70**
Nitrate-Nitrogen (mg/L)	10	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.020	<0.020	<0.020	<0.02	0.03	0.02	0.1	0.16
Sulfate (mg/L)	250	4.8	2.8	4.4	5.2	5.9	5.6	7.7	3.6	2.1	3.3	3.2	1.9	3.4	5.2	7.8	<1.0	7.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.95
Total Alkalinity (mg/L)	NS	350	320	320	340	420	330	120	330	370	300	370	210	320	220	150	300	160	265	310	275	280	236	160	130
Total Cyanide (mg/L)	0.2	<0.01					<0.01					<0.01					<0.01	<0.010				<0.01	<0.01	<0.010	<0.01
Total Dissolved Solids (mg/L)	500	430	400	430	440	490	420	190	340	390	370	470	280	340	320	250	330	270	272	340	330	335	260	180	120
Total Hardness (mg/L)	NS	210	180	210	210	220	160	100	180	210	460	190	170	190	160	150	190	174	205	193	191	209	173	150	142
Total Kjeldahl Nitrogen (mg/L)	NS	19	19	25	24	30	25	4.6	21	28	2	33	9.5	21	8.6	5.4	18	3.64	15.7	18.5	17.9	18.4	12.9	1.7	<1.0
Total Organic Carbon (mg/L)	NS	41	38	43	39	42	40	25	36	36	34	34 J	33	37	34	26	34	29.8	27.9	27	27.8	27.8	26.2	27.6	17.6
Total Phenols (mg/L)	0.001	**0.0021**	**0.0052**	**0.0021**	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	**0.099 J**	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	**0.002**	<0.002	<0.002
Part 360 Routine Metals																									
Cadmium (mg/L)	0.005	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	0.00018	<0.005	<0.005	<0.005	<0.00013	<0.00021	0.00015	<0.005
Calcium (mg/L)	NS	52	46	54	53	56	43	24	49	54	130	53	45	50	45	41	51	48.2	55.8	51.2	52.2	55	46.8	42.9	42.8
Iron (mg/L)	0.3*	**31**	**27**	**28**	**27**	**30**	**25**	**19**	**25**	**29**	**23**	**27**	**21**	**25**	**22**	**20**	**25**	**33.8**	**24.1**	**25.5**	**24.2**	**23.1**	**20.1**	**16.1**	**2.76**
Lead (mg/L)	0.025	<0.01	0.01	0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	0.019	<0.010	<0.01	0.005	<0.005	<0.005	0.007	0.0047	0.0039	0.01	<0.005
Magnesium (mg/L)	35 (GV)	20	17	17	19	20	16	10	15	18	33	16	14	15	12	12	15	13.1	16.1	15.8	14.8	17.3	13.6	10.4	8.62
Manganese (mg/L)	0.3*	**0.65**	**0.57**	<0.01	**0.64**	**0.6**	**0.52**	**0.62**	**0.6**	**0.61**	**1.8**	**0.59**	**0.81**	**0.63**	**0.66**	**0.86**	**0.61**	**0.642**	**0.62**	**0.667**	**0.653**	**0.629**	**0.669**	**1.24**	**1.5**
Potassium (mg/L)	NS	34	26	29	14	31	27	7.9	23	34	4.4	26	10	23	12	7.8	24	13.1	22.2	25	19.1	21.6	16.9	7.14	6.61
Sodium (mg/L)	20	**36**	**28**	**50**	**32**	**38**	**29**	3.3	**24**	**32**	**36**	**24**	4.9	18	8.5	3.5	17	6.51	13.2	14.2	10.3	11.5	7.5	3.49	2.16
Part 360 Additional Baseline Metals																									
Aluminum (mg/L)	NS	2.6					1.4					2					0.88	0.811				0.292	0.965	0.512	<0.1
Antimony (mg/L)	0.003	<0.01					<0.01					<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002	<0.06
Arsenic (mg/L)	0.025	<0.01					<0.01					<0.01					<0.01	0.006				<0.0015	<0.0022	<0.002	0.006
Barium (mg/L)	1	0.31					<0.2					0.24					0.17	0.132				0.153	0.129	0.058	0.035
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01					<0.01					<0.01	0.00017				<0.00014	<0.00016	<0.0001	<0.005
Boron (mg/L)	1	0.83					0.73					0.73					<0.5	0.162				0.336	0.256	0.131	0.091
Chromium (mg/L)	0.05	<0.01					0.026					<0.01					<0.01	<0.005				<0.0047	<0.0051	0.005	<0.005
Chromium, Hexavalent (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.020				<0.020	<0.02	<0.020	<0.02
Cobalt (mg/L)	NS	<0.01					<0.01					<0.01					<0.01	<0.000				0.00061	0.001	<0.001	<0.05
Copper (mg/L)	0.2	<0.01					<0.04					<0.01					<0.01	<0.003				<0.0025	<0.0025	<0.001	<0.005
Mercury (mg/L)	0.0007	<0.0002					<0.0002					<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15	<0.0002
Nickel (mg/L)	0.1	<0.01					<0.01					<0.01					<0.01	<0.001				<0.00056	<0.00029	<0.00046	<0.02
Selenium (mg/L)	0.01	<0.01					<0.01					<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003	0.008
Silver (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003	<0.01
Thallium (mg/L)	0.0005 (GV)	<0.01					<0.01					<0.01					<0.02	**0.025**				**0.0458**	**0.003**	0.008	<0.01
Vanadium (mg/L)	NS	0.013					0.015					0.013					0.011	0.011				<0.0049	0.0106	<0.011	<0.02
Zinc (mg/L)	2	0.029					0.058					0.031					0.021	0.024				0.0035	0.0084	0.047	<0.01
Part 360 Volatile Organics																									
1,1,1,2-Tetrachloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<1					<1.0					<1			1		<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<1					<1.0					<1					<1	<10				<10	<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0

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

Parameter	NYSDEC Ground Water Standard	3/6/06	6/6/06	9/26/06	12/13/06	3/15/07	6/1/07	9/25/07	12/17/07	3/27/08	6/19/08	9/23/08	12/15/08	3/17/09	6/22/09	9/25/09	12/14/09	3/24/10	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
1,2-Dichloroethane (µg/L)	0.6	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<5					<5.0					<10					<10	<10				<10	<10	<10	<10
Acetone (µg/L)	50 (GV)	<5					<5.0					<10					<10	<10				<10	<10	<10	<10
Acrylonitrile (µg/L)	5	<40					<40					<20					<1	<25				<25	<25	<25	<25
Benzene (µg/L)	1	**8.7**					**7.5**					**6**					**5.1**	<5.0				**5.2**	**3**	<5.0	<5.0
Bromochloromethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromomethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5	3.9					3.2					<1					<1	2.7				<5.0	2.1	<5.0	<5.0
Chloroethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10	<10
Chloroform (µg/L)	7	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloromethane (µg/L)	5	<1					<1.0					<1					<1	<10				<10	<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Iodomethane (µg/L)	5	<10					<1.0					<5					<5	<10				<10	<10	<10	<10
Methylene Chloride (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Styrene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Toluene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5	<10					<1.0					<5					<5	<10				<10	<10	<10	<10
Trichloroethene (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5	<1					<1.0					<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS	<10					<1.0					<5					<5	<10				<10	<10	<10	<10
Vinyl Chloride (µg/L)	2	<1					<1.0					<1					<1	<10				<10	<10	<10	<10
Xylenes (Total) (µg/L)	5	**190**					**72**					**80**					**44**	<5.0				**55**	**22**	<5.0	<5.0
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
7) J indicates estimated concentration due to QC sample recovery

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

Parameter	NYSDEC Ground Water Standard	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	3/23/04	6/22/04	9/28/04	12/16/04
Field Parameters																									
Conductivity (µmhos/cm)	NS	485	398	369	411	413	414	411	411	419	365	390	408	435	415	377	410	423	385	392	480	413	365	394	410
pH (s.u.)	6.5 - 8.5	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	6.98	6.78	6.95	7.3
Temperature (deg C)	NS	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	5.2	11	13.2	7
Turbidity (NTU)	5	**999**	**324**	**659**	**999**	**999**	**999**	**999**	**999**	**999**	**704**	**241**	**466**	**460**	**501**	**999**	**506**	**218**	**999**	**614**	**50**	**492**	**999**	**331**	**290**
Part 360 Leachate Indicator Parameters																									
Ammonia-Nitrogen (mg/L)	2	<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	0.56	0.64	0.48	<0.03
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<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	<4.0	12	4.7	4.8
Bromide (mg/L)	2	<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	<0.1	<0.1	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	160	120	26	76	64	74	160	120	96	120	72	75	290	75	87	64	57	120	67	75	120	120	79	86
Chloride (mg/L)	250	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	3.5	3.6	3	3.1
Color (Pt-Co)	15		**530**					**400**					**600**	**850**					**750**					**700**	
Nitrate-Nitrogen (mg/L)	10	<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	<0.1	0.16	<0.1	0.15
Sulfate (mg/L)	250	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	5.9	3.5	1.9	3
Total Alkalinity (mg/L)	NS	230	260	1400	260	270	240	270	280	230	260	240	210	240	250	230	250	240	250	220	240	220	240	210	18
Total Cyanide (mg/L)	0.2		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01	
Total Dissolved Solids (mg/L)	500	420	260	360	340	340	390	420	400	360	380	240	430	360	340	330	380	390	360	340	320	360	250	370	290
Total Hardness (mg/L)	NS	1100	530	477.2904	489.5396	466	610	720	700	1200	300	420	390	460	360	650	730	380	400	410	150	730	400	280	110
Total Kjeldahl Nitrogen (mg/L)	NS	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	1.1	1	0.78	0.64
Total Organic Carbon (mg/L)	NS	30	29	28.6	38.5	32.6	32	31	36	35	30	29	32	29	31	32	26	24	32	25	28	25	30	24	28
Total Phenols (mg/L)	0.001	<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**	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																									
Cadmium (mg/L)	0.005	**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	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	307	142	142	138	138	160	190	180	300	88	120	110	130	100	170	200	100	110	120	50	180	120	84	38
Iron (mg/L)	0.3*	**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**	**67**	**13**	**6.1**	**0.75**
Lead (mg/L)	0.025	**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	**0.043**	0.017	<0.01	<0.01
Magnesium (mg/L)	35 (GV)	**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	**66**	26	16	3.3
Manganese (mg/L)	0.3*	**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**	**3**	**1.4**	**0.96**	0.25
Potassium (mg/L)	NS	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	7.8	3.5	2.2	2.2
Sodium (mg/L)	20	**49.3**	**39.3**	**30**	**41.7**	**46**	**46**	**49**	**53**	**55**	**48**	**33**	**43**	**55**	**57**	**38**	**40**	**53**	**54**	**37**	**55**	**62**	**53**	**33**	**47**
Part 360 Additional Baseline Metals																									
Aluminum (mg/L)	NS		23.9					<0.01					12	12					18					1.4	
Antimony (mg/L)	0.003		<0.015					**0.048**					<0.01	<0.01					<0.01					<0.01	
Arsenic (mg/L)	0.025		<0.01					<0.01					0.016	0.019					**0.035**					<0.01	
Barium (mg/L)	1		0.201					0.23					<0.2	<0.2					0.2					<0.2	
Beryllium (mg/L)	0.003 (GV)		<0.003					<0.01					<0.01	<0.01					<0.01					<0.01	
Boron (mg/L)	1		<0.1			<0.5		<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5		0.027	
Chromium (mg/L)	0.05		**0.0592**					<0.01					0.02	0.022					0.033					<0.01	
Chromium, Hexavalent (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01	
Cobalt (mg/L)	NS		<0.02					0.024					<0.01	<0.01					0.014					<0.01	
Copper (mg/L)	0.2		0.0845					0.092					0.036	0.027					0.085					<0.01	
Mercury (mg/L)	0.0007		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002					<0.0002	
Nickel (mg/L)	0.1		0.0726					0.071					0.027	0.034					0.042					0.014	
Selenium (mg/L)	0.01		<0.005					<0.01					<0.01	<0.01					<0.01					<0.01	
Silver (mg/L)	0.05		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01	
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.01					<0.01	<0.01					<0.01					<0.01	
Vanadium (mg/L)	NS		0.047					0.048					0.023	0.024					0.037					<0.01	
Zinc (mg/L)	2		0.184					0.2					0.063	0.081					0.13					0.022	
Part 360 Volatile Organics																									
1,1,1,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
1,1,1-Trichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1	
1,1,2,2-Tetrachloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1	
1,1,2-Trichloroethane (µg/L)	1		<5.0					<5.0					<5.0	<5.0			<5		<5					<1	
1,1-Dichloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1	
1,1-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0			<5		<5					<1	
1,2,3-Trichloropropane (µg/L)	0.04							<5.0					<5.0	<5.0					<5					<1	
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<10.0					<5.0					<5.0	<5.0					<5					<1	
1,2-Dibromoethane (EDB) (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
1,2-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1	
1,2-Dichloroethane (µg/L)	0.6		<5.0					<5.0					<5.0	<5.0			<5		<5					<1	

City of Rome
Tannery Road Landfill
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Parameter	NYSDEC Ground Water Standard	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	3/23/04	6/22/04	9/28/04	12/16/04
1,2-Dichloropropane (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,4-Dichlorobenzene (µg/L)	3		<5.0					<5.0					<5.0	<5.0					<5					<1	
2-Butanone (MEK) (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10	
2-Hexanone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10	
4-Methyl 2-pentanone (µg/L)	NS		<10.0					<10.0					<10.0	<10.0				<10	<10					<10	
Acetone (µg/L)	50 (GV)		<10.0					<10.0					<10.0	<10.0				<10	<10					<10	
Acrylonitrile (µg/L)	5		<100.0					<20.0					<20.0	<20.0					<20					<5	
Benzene (µg/L)	1		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Bromochloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
Bromodichloromethane (µg/L)	50 (GV)		<5.0										<5.0	<5.0				<5	<5					<1	
Bromoform (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Bromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Carbon disulfide (µg/L)	60 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Carbon tetrachloride (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Chlorobenzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Chloroethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Chloroform (µg/L)	7		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Chloromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
cis-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
cis-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Dibromochloromethane (µg/L)	50 (GV)		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Dibromomethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
Ethyl benzene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Iodomethane (µg/L)	5		<5.0					<20.0					<20.0	<10.0					<10					<10	
Methylene Chloride (µg/L)	5		<5.0					<10.0					<10.0	<10.0				<10	<10					<10	
Styrene (µg/L)	5							<5.0					<5.0	<5.0				<5	<5					<1	
Tetrachloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Toluene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
trans-1,2-Dichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
trans-1,3-Dichloropropene (µg/L)	0.4**		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
trans-1,4-Dichloro-2-butene (µg/L)	5		<10.0					<50.0					<50.0	<10.0					<10					<10	
Trichloroethene (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Trichlorofluoromethane (µg/L)	5		<5.0					<5.0					<5.0	<5.0					<5					<1	
Vinyl Acetate (µg/L)	NS		<50.0					<20.0					<20.0	<20.0					<20					<5	
Vinyl Chloride (µg/L)	2		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
Xylenes (Total) (µg/L)	5		<5.0					<5.0					<5.0	<5.0				<5	<5					<1	
1,2-Dichloroethene - Total	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
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Parameter	NYSDEC Ground Water Standard	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009
Field Parameters																					
Conductivity (µmhos/cm)	NS	308	404	404	380	390	350	391	375	387	367	354	385	394	383	361	415	388	377	378	392
pH (s.u.)	6.5 - 8.5	7.57	7.3	7.5	6.7	7.7	8.1	7.83	7.11	7.08	7.29	7.05	6.95	7.3	7.13	7.51	7.48	6.92	7.11	6.97	6.76
Temperature (deg C)	NS	6.6		12	8	7	14	12.5	9.3	6.7	11.4	11.7	7.1	5.2	10.2	12.4	6.6	6	11.5	11.5	8.1
Turbidity (NTU)	5	**512**	**614**	**206**	**270**	**480**	**37**	-	**70**	**385**	**80**	**43**	**45**	**25**	**83**	**26**	**80**	**203**	**12**	**15**	4
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	2	0.24	0.31	0.26	0.18	0.18	0.24	0.19	0.14	0.13	0.2	0.14	<0.03	0.084	0.17	0.063	<0.03	0.094	0.22	0.15	0.25
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	4.3	4.6	6.2	<4	<4	<4.0	8.9	<4	<4	4	<4	<4	<5	<4	<4	<4	<4	<4	<4.0	<4.0
Bromide (mg/L)	2	<0.100	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	NS	140	65	66	78	58	79	97	65	83	77	48	48	47	52	43	57	39	39	40	36
Chloride (mg/L)	250	3.1	4.2	3.4	3.4	3.4	3.1	3.6	3	3.2	3.2	2.5	4	<2	3.3	2.7	3.6	3.2	3.1	3.2	3
Color (Pt-Co)	15				**800**	**1,500**					**200**					**200**					**100**
Nitrate-Nitrogen (mg/L)	10	0.15	0.13	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate (mg/L)	250	2.3	3.2	1.8	3.3	7.5	5.4	2.3	3.8	5.6	2.9	1.6	4.6	9.7	7.2	3.2	5.8	5.2	9.4	3.3	3.8
Total Alkalinity (mg/L)	NS	220	210	220	230	220	230	240	230	280	230	230	320	210	240	240	250	250	220	220	220
Total Cyanide (mg/L)	0.2				<0.01	<0.01					<0.01					<0.01					<0.01
Total Dissolved Solids (mg/L)	500	350	310	310	340	300	290	330	270	300	310	280	270	300	360	360	290	260	310	**2,100**	260
Total Hardness (mg/L)	NS	440	120	250	290	210	400	360	240	320	420	210	150	430	170	280	180	310	160	190	390
Total Kjeldahl Nitrogen (mg/L)	NS	0.96	0.89	0.59	0.59	0.38	0.63	1.1	6.1	0.82	0.66	0.65	0.49	0.64	1.3	0.64	0.55	0.67	0.81	0.66	0.59
Total Organic Carbon (mg/L)	NS	26	28	25	25	22	26	25	22	25	22	24	19	19	24	20	17	22	20	20	16
Total Phenols (mg/L)	0.001	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Part 360 Routine Metals																					
Cadmium (mg/L)	0.005	<0.010	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01
Calcium (mg/L)	NS	120	41	75	**89**	65	120	110	74	91	43	70	77	120	45	87	59	94	54	65	120
Iron (mg/L)	0.3*	**23**	**3.2**	**14**	**12**	**13**	**12**	**21**	**3.1**	**18**	**25**	**6.8**	**8.6**	**24**	**22**	**10**	**5.7**	**9.8**	**3.9**	**5.4**	**12**
Lead (mg/L)	0.025	<0.010	**0.046**	**0.043**	<0.01	<0.01	0.014	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.010	<0.01
Magnesium (mg/L)	35 (GV)	33	5.2	15	16	12	26	24	12	21	16	9.5	13	30	14	15	9	20	4.9	6.9	24
Manganese (mg/L)	0.3*	**1.6**	**0.35**	**0.89**	**0.86**	**0.76**	**1.4**	0.026	**0.68**	**1.1**	**0.52**	**0.71**	**0.81**	**1.7**	**0.51**	**0.95**	**0.57**	**1.2**	**0.47**	**0.58**	**1.3**
Potassium (mg/L)	NS	5.3	3.4	4.1	3.1	7	2.7	4	<1	4.4	3.2	2	3.1	3.7	27	2.9	4	3.6	3.1	2.4	2.4
Sodium (mg/L)	20	**48**	**43**	**30**	**26**	**51**	**34**	**37**	**34**	**44**	**29**	19	**31**	**43**	**21**	**45**	**37**	**32**	**42**	**25**	**31**
Part 360 Additional Baseline Metals																					
Aluminum (mg/L)	NS				5.6	9					1.4					3.9					4.8
Antimony (mg/L)	0.003				<0.01	<0.01					<0.01					<0.01					<0.01
Arsenic (mg/L)	0.025				**0.029**	<0.01					<0.01					<0.01					<0.01
Barium (mg/L)	1				0.11	<0.2					0.23					<0.2					0.11
Beryllium (mg/L)	0.003 (GV)				<0.01	<0.01					<0.01					<0.01					<0.01
Boron (mg/L)	1				<0.5	<0.5					0.73					<0.5					<0.5
Chromium (mg/L)	0.05				0.012	0.017					0.013					<0.01					0.013
Chromium, Hexavalent (mg/L)	0.05				<0.01	<0.01					<0.01					<0.01					<0.01
Cobalt (mg/L)	NS				<0.01	<0.01					<0.01					<0.01					<0.01
Copper (mg/L)	0.2				0.02	0.033					0.019					0.018					0.074
Mercury (mg/L)	0.0007				<0.0002	<0.0002					<0.0002					<0.0002					<0.0002
Nickel (mg/L)	0.1				0.012	0.02					0.01					<0.01					0.02
Selenium (mg/L)	0.01				<0.01	<0.01					<0.01					<0.01					<0.01
Silver (mg/L)	0.05				<0.01	<0.01					**0.05**					<0.01					<0.01
Thallium (mg/L)	0.0005 (GV)				<0.01	<0.01					<0.01					<0.01					<0.02
Vanadium (mg/L)	NS				0.012	0.017					0.012					0.011					0.012
Zinc (mg/L)	2				0.039	0.045					0.035					0.036					0.051
Part 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (µg/L)	5				**<1**	<1					<1.0					<1					<1
1,1,1-Trichloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
1,1,2,2-Tetrachloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
1,1,2-Trichloroethane (µg/L)	1				<1	<1					<1.0					<1					<1
1,1-Dichloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
1,1-Dichloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
1,2,3-Trichloropropane (µg/L)	0.04				<1	<1					<1.0					<1					<1
1,2-Dibromo-3-chloropropane (µg/L)	0.04				<1	<1					<1.0					<1					<1
1,2-Dibromoethane (EDB) (µg/L)	5				<1	<1					<1.0					<1					<1
1,2-Dichlorobenzene (µg/L)	3				<1	<1					<1.0					<1					<1
1,2-Dichloroethane (µg/L)	0.6				<1	<1					<1.0					<1					<1

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Parameter	NYSDEC Ground Water Standard	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009
1,2-Dichloropropane (µg/L)	1				<1	<1					<1.0					<1					<1
1,4-Dichlorobenzene (µg/L)	3				<1	<1					<1.0					<1					<1
2-Butanone (MEK) (µg/L)	50 (GV)				<5	<5					<5.0					<10					<10
2-Hexanone (µg/L)	50 (GV)				<5	<5					<5.0					<10					<10
4-Methyl 2-pentanone (µg/L)	NS				<5	<5					<5.0					<10					<10
Acetone (µg/L)	50 (GV)				<10	<5					<5.0					<10					<10
Acrylonitrile (µg/L)	5				<20	<20					<20					<20					<20
Benzene (µg/L)	1				<1	<1					<1.0					<1					<1
Bromochloromethane (µg/L)	5				<1	<1					<1.0					<1					<1
Bromodichloromethane (µg/L)	50 (GV)				<1	<1					<1.0					<1					<1
Bromoform (µg/L)	50 (GV)				<1	<1					<1.0					<1					<1
Bromomethane (µg/L)	5				<1	<1					<1.0					<1					<1
Carbon disulfide (µg/L)	60 (GV)				<1	<1					<1.0					<1					<1
Carbon tetrachloride (µg/L)	5				<1	<1					<1.0					<1					<1
Chlorobenzene (µg/L)	5				<1	<1					<1.0					<1					<1
Chloroethane (µg/L)	5				<1	<1					<1.0					<1					<1
Chloroform (µg/L)	7				<1	<1					<1.0					<1					<1
Chloromethane (µg/L)	5				<1	<1					<1.0					<1					<1
cis-1,2-Dichloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
cis-1,3-Dichloropropene (µg/L)	0.4**				<1	<1					<1.0					<1					<1
Dibromochloromethane (µg/L)	50 (GV)				<1	<1					<1.0					<1					<1
Dibromomethane (µg/L)	5				<1	<1					<1.0					<1					<1
Ethyl benzene (µg/L)	5				<1	<1					<1.0					<1					<1
Iodomethane (µg/L)	5				<5	<5					<5.0					<5					<5
Methylene Chloride (µg/L)	5				<5	<1					<1.0					<1					<1
Styrene (µg/L)	5				<1	<1					<1.0					<1					<1
Tetrachloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
Toluene (µg/L)	5				<1	<1					<1.0					<1					<1
trans-1,2-Dichloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
trans-1,3-Dichloropropene (µg/L)	0.4**				<1	<1					<1.0					<1					<1
trans-1,4-Dichloro-2-butene (µg/L)	5				<5	<5					<5.0					<5					<5
Trichloroethene (µg/L)	5				<1	<1					<1.0					<1					<1
Trichlorofluoromethane (µg/L)	5				<1	<1					<1.0					<1					<1
Vinyl Acetate (µg/L)	NS				<5	<5					<5.0					<5					<5
Vinyl Chloride (µg/L)	2				<1	<1					<1.0					<1					<1
Xylenes (Total) (µg/L)	5				<1	<1					<1.0					<1					<1
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-9S
Ground Water Analytical Data

Parameter	NYSDEC Ground Water Standard	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Field Parameters									
Conductivity (µmhos/cm)	NS	397	389	372	371	433	393	370	140
pH (s.u.)	6.5 - 8.5	7.08	7.38	7.18	**6.12**	**6.39**	6.74	**5.5**	**6.1**
Temperature (deg C)	NS	6.5	11.2	13.1	7.5	5	11.1	14	6
Turbidity (NTU)	5	**30**	0	**148**	**253**	**141**	**9**	**40**	**150**
Part 360 Leachate Indicator Parameters									
Ammonia-Nitrogen (mg/L)	2	1.44	<0.1	0.2	<0.1	<0.1	0.2	0.2	<0.1
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	<2.0	2	<4.0	<4.0	<4.0	3	3.9	3.6
Bromide (mg/L)	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	49.7	38	59	34	58	38	61	49
Chloride (mg/L)	250	1.2	1.05	<1.0	1.72	1.04	<1.0	<1.0	<1.0
Color (Pt-Co)	15	**70**				**>70**	**70**	**>70**	**70**
Nitrate-Nitrogen (mg/L)	10	0.26	<0.020	<0.020	<0.02	<0.020	<0.02	0.05	0.13
Sulfate (mg/L)	250	14.3	5.18	<2.0	3.18	6.18	2.57	14.2	3.74
Total Alkalinity (mg/L)	NS	235	225	220	235	230	217	230	230
Total Cyanide (mg/L)	0.2	<0.010				<0.01	<0.01	<0.010	<0.01
Total Dissolved Solids (mg/L)	500	305	280	307	332	312	350	275	220
Total Hardness (mg/L)	NS	139	340	496	447	290	702	160	116
Total Kjeldahl Nitrogen (mg/L)	NS	<1.0	6.7	1.1	<1.0	2.8	1.1	<1.0	<1.0
Total Organic Carbon (mg/L)	NS	18.7	18.7	19.5	18.6	19.2	20.4	23.9	21.2
Total Phenols (mg/L)	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.003**
Part 360 Routine Metals									
Cadmium (mg/L)	0.005	0.00023	<0.005	<0.005	<0.005	0.00021	0.00041	0.00027	<0.005
Calcium (mg/L)	NS	48.3	100	137	126	94.9	184	54.3	40.4
Iron (mg/L)	0.3*	**0.364**	**18.8**	**36.3**	**31**	**2.72**	**58.6**	**5.29**	**0.614**
Lead (mg/L)	0.025	<0.002	<0.005	<0.005	0.007	0.0029	0.0022	<0.002	0.021
Magnesium (mg/L)	35 (GV)	4.49	21.7	**37.3**	32.3	13	**58.9**	5.92	3.76
Manganese (mg/L)	0.3*	**0.466**	**1.34**	**1.97**	**1.66**	**0.955**	**2.57**	**0.601**	0.179
Potassium (mg/L)	NS	2.13	4.31	5	4.91	1.68	6.71	2.86	3.39
Sodium (mg/L)	20	**32.3**	**29**	**20.8**	**27.9**	**21.4**	**24.7**	**34.9**	**52.5**
Part 360 Additional Baseline Metals									
Aluminum (mg/L)	NS	0.132				0.392	31.2	0.305	0.194
Antimony (mg/L)	0.003	<0.020				<0.0196	<0.0011	<0.002	<0.06
Arsenic (mg/L)	0.025	<0.002				0.0035	<0.0022	0.003	<0.005
Barium (mg/L)	1	0.067				0.102	0.233	0.094	0.066
Beryllium (mg/L)	0.003 (GV)	<0.00014				0.00023	0.0012	<0.0001	<0.005
Boron (mg/L)	1	0.012				0.0046	<0.00057	0.003	<0.05
Chromium (mg/L)	0.05	<0.005				<0.0047	0.0602	0.005	<0.005
Chromium, Hexavalent (mg/L)	0.05	<0.020				<0.020	<0.02	<0.020	<0.02
Cobalt (mg/L)	NS	<0.000				0.001	0.0242	<0.001	<0.05
Copper (mg/L)	0.2	0.018				0.0103	0.157	<0.001	0.02
Mercury (mg/L)	0.0007	<0.00007				<0.00006	<0.0001	<0.15	<0.0002
Nickel (mg/L)	0.1	0.007				0.0039	0.0663	0.0046	<0.02
Selenium (mg/L)	0.01	<0.003				<0.0025	<0.0015	<0.003	<0.005
Silver (mg/L)	0.05	<0.003				<0.0028	<0.0014	<0.003	<0.01
Thallium (mg/L)	0.0005 (GV)	**0.021**				**0.032**	**0.0028**	<0.003	<0.01
Vanadium (mg/L)	NS	0.005				<0.0049	0.0534	<0.011	<0.02
Zinc (mg/L)	2	0.007				0.0113	0.156	0.01	<0.01
Part 360 Volatile Organics									
1,1,1,2-Tetrachloroethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<10				<10	<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6	<5.0				<5.0	<5.0	<5.0	<5.0

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

Parameter	NYSDEC Ground Water Standard	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
1,2-Dichloropropane (µg/L)	1	<5.0				<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3	<5.0				<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (µg/L)	50 (GV)	<10				<10	<10	<10	<10
2-Hexanone (µg/L)	50 (GV)	<10				<10	<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS	<10				<10	<10	<10	<10
Acetone (µg/L)	50 (GV)	<10				<10	<10	<10	<10
Acrylonitrile (µg/L)	5	<25				<25	<25	<25	<25
Benzene (µg/L)	1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromochloromethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)	<5.0				<5.0	<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)	<5.0				<5.0	<5.0	<5.0	<5.0
Bromomethane (µg/L)	5	<10				<10	<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)	<5.0				<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Chloroethane (µg/L)	5	<10				<10	<10	<10	<10
Chloroform (µg/L)	7	<5.0				<5.0	<5.0	<5.0	<5.0
Chloromethane (µg/L)	5	<10				<10	<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Iodomethane (µg/L)	5	<10				<10	<10	<10	<10
Methylene Chloride (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Styrene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Toluene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5	<10				<10	<10	<10	<10
Trichloroethene (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS	<10				<10	<10	<10	<10
Vinyl Chloride (µg/L)	2	<10				<10	<10	<10	<10
Xylenes (Total) (µg/L)	5	<5.0				<5.0	<5.0	<5.0	<5.0
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 standarc
5) Values in bold exceeded the applicable NYSDEC ground water standard/gı
6) ** Indicates standard applies to the sum of the isomers

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

Parameter	NYSDEC Ground Water Standard	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08
Field Parameters																										
Conductivity (µmhos/cm)	NS	4,940	4,970	5,440	3,780	4,050	4,810	5,600	4,300	4,810	5,990	3,480	4,743	5,320	4,787	4,570	3,600	5,800	6,400	2,110	5,160	1,420	3,860	5,410	6,070	4,780
pH (s.u.)	6.5 - 8.5	**6.48**	6.63	7		6.6	6.5	6.78	**6.4**	6.59	**6.14**	**6.22**	6.5	7.03	6.57	6.99	**6.3**	7	8	7.17	6.69	**6**	6.57	6.59	6.65	6.71
Temperature (deg C)	NS	12.8	15.2	17.2	10.4	7.6	19.7	15.8	9	12.8	16	16.8	10	13		15.5	12	14	18	15.1	13.5	11.3	16	15.4	10.2	13.5
Turbidity (NTU)	5	**356**	**183**	**585**	**164**	**207**	**383**	**47**	**430**	**189**	**10**	**73**	**189**	**246**	**236**	**100**	**68**	**168**	**600**	**-**	**81**	0	**67**	**101**	**134**	**60**
Redox	NS																						-80			
Dissolved Oxygen (mg/L)	NS																						2.66			
Part 360 Leachate Indicator Parameters																										
Ammonia-Nitrogen (mg/L)	2	**200**	**260**	**270**	**200**	**280**	**280**	**270**	**230**	**380**	**350**	**160**	**260**	**290**	**300**	**300**	**230**	**340**	**330**	**160**	**280**	**60**	**320**	**350**	**290**	**260**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	38	24	46	34	30	20	36	43	28	32	31	41	<4.0	31	36	24	39	36	36	35	<20	40	30	31	29
Bromide (mg/L)	2	**2.6**	**3**	**3.9**	1.9	**2.1**	**3.2**	**3.8**	**2.3**	**3.7**	**4.2**	**2.5**	**3.3**	**4.2**	**2.7**	**3**	**2.2**	**17**	<0.10	1.6	**5.9**	<0.1	**3.9**	**3.5**	**2.1**	**2.7**
Chemical Oxygen Demand (mg/L)	NS	420	250	3,200	270	340	490	640	270	300	470	290	490	670	440	430	240	240	71	200	560	105	105	700	420	380
Chloride (mg/L)	250	**440**	**430**	**610**	**380**	200	**450**	**550**	**260**	**450**	**600**	**280**	**410**	**560**	**410**	**470**	**340**	**570**	**600**	220	**590**	67	**650**	**580**	**410**	**560**
Color (Pt-Co)	15	**1,400**					**600**					**950**					**500**	**1,500**					**1,000**			
Nitrate-Nitrogen (mg/L)	10	<0.1	0.16	0.17	<0.1	<0.1	0.15	0.76	0.54	<0.1	<0.1	0.2	0.28	0.27	0.19	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
Sulfate (mg/L)	250	2.9	2.2	3.6	2.2	2.3	2.5	<1	2.3	3.6	1.4	2.1	2	1.8	2.3	60	<1	2.5	2.8	2.2	<1	3.1	3.1	1.8	26	<10
Total Alkalinity (mg/L)	NS	1,700	1,900	2,200	1,500	1,600	1,800	2,000	1,500	2,000	2,100	1,900	1,900	2,400	2,500	1,200	1,900	2,400	2,700	1,400	2,900	570	2,000	2,200	1,600	1,700
Total Cyanide (mg/L)	0.2	<0.01					<0.01					<0.01					<0.01	<0.01					<0.01			
Total Dissolved Solids (mg/L)	500	**1,900**	**2,100**	**2,500**	**1,500**	**1,400**	**2,200**	**2,500**	**1,200**	**2,200**	**2,400**	**1,700**	**1,900**	**2,700**	**2,000**	**2,100**	**1,800**	**2,600**	**2,600**	**1,200**	**2,700**	**590**	**2,600**	**2,300**	**1,900**	**2,400**
Total Hardness (mg/L)	NS	580	580	690	480	550	750	790	430	700	590	480	520	660	670	450	600	740	690	460	800	270	310	690	530	670
Total Kjeldahl Nitrogen (mg/L)	NS	290	220	320	220	280	300	330	350	330	380	260	220	310	270	260	210	330	390	150	280	60	280	350	270	270
Total Organic Carbon (mg/L)	NS	160	150	230	99	120	120	230	110	180	240	75	160	230	200	120	13	210	270	84	180	28	230	240	160	210
Total Phenols (mg/L)	0.001	**0.016**	**0.02**	**0.015**	**0.026**	<0.002	**0.015**	**0.013**	**0.017**	**0.017**	**0.021**	**0.02**	**0.016**	<0.01	<0.002	**0.0022**	<0.002	<0.002	<0.002	<0.002	<0.05	**0.0062**	**0.013**	**0.015**	0.02	**0.011**
Part 360 Routine Metals																										
Cadmium (mg/L)	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	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	NS	120	120	140	100	110	150	150	91	120	110	110	97	110	120	91	120	120	130	100	130	73	100	120	120	130
Iron (mg/L)	0.3*	**62**	**60**	**70**	**48**	**58**	**61**	**68**	**52**	**38**	**47**	**49**	**35**	**45**	**35**	**45**	**34**	**35**	**49**	**39**	**16**	**32**	**38**	**35**	**55**	**41**
Lead (mg/L)	0.025	**0.049**	**0.031**	**0.04**	0.022	**0.041**	<0.01	0.014	0.022	**0.028**	<0.01	<0.01	<0.01	0.017	<0.01	**0.26**	0.014	**0.03**	**0.036**	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Magnesium (mg/L)	35 (GV)	**68**	**67**	**83**	**53**	**65**	**94**	**100**	**50**	**96**	**75**	**53**	**67**	**92**	**92**	**54**	**74**	**110**	**91**	**51**	**110**	20	**65**	**88**	**54**	**85**
Manganese (mg/L)	0.3*	**1.3**	**1.5**	**2.4**	**1.6**	**1.5**	**1.7**	**2.7**	**1.3**	**0.74**	**1.5**	**1.6**	**0.85**	**1**	**0.62**	**1.4**	**0.76**	**0.55**	**1.2**	0.029	0.26	**0.98**	**0.98**	**1.2**	**1.1**	**70**
Potassium (mg/L)	NS	190	200	340	180	230	230	410	220	350	330	320	380	330	320	280	250	280	300	160	240	40	370	380	170	310
Sodium (mg/L)	20	**430**	**460**	**600**	**250**	**270**	**420**	**630**	**250**	**500**		**230**	**470**	**580**	**410**	**270**	**380**	**370**	**490**	**230**	**580**	**50**	**430**	**520**	**200**	**450**
Part 360 Additional Baseline Metals																										
Aluminum (mg/L)	NS	2.4					0.9					0.28					0.96	1.4					0.93			
Antimony (mg/L)	0.003	<0.01					<0.01					**0.012**					<0.01	<0.01					<0.01			
Arsenic (mg/L)	0.025	0.02					**0.038**					0.022					**0.03**	<0.01					<0.01			
Barium (mg/L)	1	<0.2					0.32					0.25					0.47	0.75					0.37			
Beryllium (mg/L)	0.003 (GV)	<0.01					<0.01					<0.01					<0.01	<0.01					<0.01			
Boron (mg/L)	1	**2.5**	**2.7**	**3.7**			**3.4**	**4.4**	**1.6**	**3.8**		**1.7**					**2.3**	**3.8**					**2.3**			
Chromium (mg/L)	0.05	0.031					0.019					<0.01					0.017	0.02					<0.01			
Chromium, Hexavalent (mg/L)	0.05	<0.01					<0.01					<0.01					0.013	<0.01					0.017			
Cobalt (mg/L)	NS	0.012					0.017					<0.01					0.012	0.018					0.021			
Copper (mg/L)	0.2	0.052					0.013					<0.01					0.018	**0.024**					<0.04			
Mercury (mg/L)	0.0007	0.0002					<0.0002					<0.0002					<0.0002	<0.0002					<0.0002			
Nickel (mg/L)	0.1	0.062					0.049					0.024					0.029	0.046					0.036			
Selenium (mg/L)	0.01	<0.01					<0.01					<0.01					<0.01	**0.013**					<0.01			
Silver (mg/L)	0.05	<0.01					<0.01					<0.01					<0.01	<0.01					**0.057**			
Thallium (mg/L)	0.0005 (GV)	<0.01					<0.01					<0.01					<0.01	<0.01					<0.01			
Vanadium (mg/L)	NS	<0.01					0.012					0.013					0.013	0.025					0.032			
Zinc (mg/L)	2	0.16					0.11					0.099					0.052	0.061					0.089			
Part 360 Volatile Organics																										
1,1,1,2-Tetrachloroethane (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
1,1,1-Trichloroethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
1,1,2,2-Tetrachloroethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
1,1,2-Trichloroethane (µg/L)	1	<5.0				<5	<5					<1					<5	<5					<5.0			
1,1-Dichloroethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
1,1-Dichloroethene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
1,2,3-Trichloropropane (µg/L)	0.04	<5.0					<5					<1					<5	<5					<5.0			

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

Parameter	NYSDEC Ground Water Standard	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	6/22/04	9/28/04	12/16/04	3/22/05	6/28/05	9/27/05	12/6/05	3/28/06	6/28/06	9/26/06	12/13/06	3/15/07	6/21/07	9/25/07	12/17/07	3/27/08
1,2-Dibromo-3-chloropropane (µg/L)	0.04	<5.0					<5					<1					<5	<5					<5.0			
1,2-Dibromoethane (EDB) (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
1,2-Dichlorobenzene (µg/L)	3	<5.0					<5					<1					<5	<5					<5.0			
1,2-Dichloroethane (µg/L)	0.6	<5.0				<5	<5					<1					<5	<5					<5.0			
1,2-Dichloropropane (µg/L)	1	<5.0				<5	<5					<1					<5	<5					<5.0			
1,4-Dichlorobenzene (µg/L)	3	<5.0					<5					**3.7**					<5	<5					<5.0			
2-Butanone (MEK) (µg/L)	50 (GV)	<10.0				<10	<10					<10					<20	<50					<5.0			
2-Hexanone (µg/L)	50 (GV)	<10.0				<10	<10					<10					<20	<50					<5.0			
4-Methyl 2-pentanone (µg/L)	NS	<10.0					<10					<10					<20	<50					<5.0			
Acetone (µg/L)	50 (GV)	**18**				28	13					<10					<50	<50					<5.0			
Acrylonitrile (µg/L)	5	<20.0					<20					<5					<100	<200					<200			
Benzene (µg/L)	1	**5.5**				**5.7**	<5					**5**					**6.2**	**7.7**					**7**			
Bromochloromethane (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
Bromodichloromethane (µg/L)	50 (GV)	<5.0				<5	<5					<1					<5	<5					<5.0			
Bromoform (µg/L)	50 (GV)	<5.0				<5	<5					<1					<5	<5					<5.0			
Bromomethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Carbon disulfide (µg/L)	60 (GV)	<5.0				<5	<5					<1					<5	<5					<5.0			
Carbon tetrachloride (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Chlorobenzene (µg/L)	5	<5.0				<5	<5					4.1					**5.3**	<5					<5.0			
Chloroethane (µg/L)	5	**33**				**33**	**22**					**22**					**24**	**20**					<5.0			
Chloroform (µg/L)	7	<5.0				<5	<5					<1					<5	<5					<5.0			
Chloromethane (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
cis-1,2-Dichloroethene (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
cis-1,3-Dichloropropene (µg/L)	0.4**	<5.0				<5	<5					<1					<5	<5					<5.0			
Dibromochloromethane (µg/L)	50 (GV)	<5.0				<5	<5					<1					<5	<5					<5.0			
Dibromomethane (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
Ethyl benzene (µg/L)	5	**29**				<5	<5					<1					<5	<5					<5.0			
Iodomethane (µg/L)	5	<10.0					<10					<10					<20	<50					<5.0			
Methylene Chloride (µg/L)	5	<10.0				<10	<10					<10					<20	<5					<5.0			
Styrene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Tetrachloroethene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Toluene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
trans-1,2-Dichloroethene (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
trans-1,3-Dichloropropene (µg/L)	0.4**	<5.0				<5	<5					<1					<5	<5					<5.0			
trans-1,4-Dichloro-2-butene (µg/L)	5	<10.0					<10					<10					<20	<50					<5.0			
Trichloroethene (µg/L)	5	<5.0				<5	<5					<1					<5	<5					<5.0			
Trichlorofluoromethane (µg/L)	5	<5.0					<5					<1					<5	<5					<5.0			
Vinyl Acetate (µg/L)	NS	<20.0					<20					<5					<20	<50					<5.0			
Vinyl Chloride (µg/L)	2	<5.0				<5	<5					<1					<5	<5					<5.0			
Xylenes (Total) (µg/L)	5	**75**				**96**	**28**					**63**					**69**	**26**					**63**			
1,2-Dichloroethene - Total	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
7) J indicates estimated concentration based on QC data

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

Parameter	NYSDEC Ground Water Standard	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
Field Parameters																
Conductivity (µmhos/cm)	NS	4,430	5,160	4,590	5,050	5,100	1,450	1260	5,660	4,430	5,290	2850	3,100	2,770	1,700	2,400
pH (s.u.)	6.5 - 8.5	**6.44**	6.93	7.4	**6.35**	6.5	6.6	**6.08**	**6.43**	7.77	7.53	6.68	**6.23**	**6.35**	6.5	6.6
Temperature (deg C)	NS	14.9	15.3	13	13.9	14	14.5	11.8	11.5	15.5	14.3	10.4	12.3	15	14	7
Turbidity (NTU)	5	**51**	0	**27**	**35**	**35**	**180**	**10**	**16**	**57**	**96**	**10**	**39**	0	**40**	**10**
Redox	NS															
Dissolved Oxygen (mg/L)	NS															
Part 360 Leachate Indicator Parameters																
Ammonia-Nitrogen (mg/L)	2	**320**	**260**	**280**	**260**	**49**	**270**	**54**	**310**	**148**	**235**	**158**	**167**	**150**	**86.4**	**109**
Biochemical Oxygen Demand (BOD5) (mg/L)	NS	32	52	36	46	12	40	20	22	29	>175	35	38	36	35	20
Bromide (mg/L)	2	**3.3**	**4.1**	**3.3**	**3**	<0.1	**4.3**	<0.1	<1.0	<1.0	**2.62**	<1.0	<1.0	<1.0	<1.0	<1.0
Chemical Oxygen Demand (mg/L)	NS	590	140	490	430	56	430	64	635	507	613	258	247	221	127	117
Chloride (mg/L)	250	**540**	**610**	**540**	**580**	34	**520**	83	**250**	**508**	**516**	188	195	231	99.2	97.3
Color (Pt-Co)	15		**400**					**25**	70				**>70**	**>70**	**30**	**70**
Nitrate-Nitrogen (mg/L)	10	0.2	0.22	<0.1	<0.1	<0.1	<0.1	<0.1	1.56	0.16	<0.020	<0.02	0.15	<0.02	0.26	<0.02
Sulfate (mg/L)	250	1.9	2	<1	2	<1	2.7	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Total Alkalinity (mg/L)	NS	2,200	2,400	2,300	2,300	210	1,900	620	2,200	2,100	2,300	1210	1210	1,240	22	830
Total Cyanide (mg/L)	0.2		0.01					<0.01	<0.010				<0.01	<0.01	<0.010	<0.01
Total Dissolved Solids (mg/L)	500	**2,200**	**2,700**	**2,400**	**2,300**	430	300	**610**	**1,240**	**2,160**	**2,300**	**1,090**	**1,090**	**1,180**	**1,200**	**650**
Total Hardness (mg/L)	NS	590	570	610	630	240	750	340	358	730	724	379	393	467	954	318
Total Kjeldahl Nitrogen (mg/L)	NS	310	270	260	260	53	260	54	25.2	260	231	171	169	123	83.7	104
Total Organic Carbon (mg/L)	NS	230	210	200	200	23	120	37	220	194	183	66.6	64	88.2	37.1	38.2
Total Phenols (mg/L)	0.001	**0.016**	**0.014**	**0.01**	**0.012**	**0.086 J**	**0.009**	0.01	**0.003**	0.007	0.018	**0.01**	**0.018**	**0.005**	**0.009**	**0.01**
Part 360 Routine Metals																
Cadmium (mg/L)	0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.00013	<0.005	<0.005	<0.005	0.00015	<0.00021	<0.00015	<0.005
Calcium (mg/L)	NS	120	120	100	120	70	130	100	85.3	122	125	69.2	83.2	112	161	82.1
Iron (mg/L)	0.3*	**55**	**40**	**32**	**38**	**41**	**43**	47	**33.9**	**26.9**	**35.6**	**30.2**	**21.2**	**41.8**	**65.8**	**25.2**
Lead (mg/L)	0.025	<0.01	<0.01	<0.01	0.03	0.017	**0.046**	<0.01	<0.002	<0.005	<0.005	0.014	0.0046	0.0063	0.003	<0.005
Magnesium (mg/L)	35 (GV)	**69**	**78**	**87**	**79**	16	**100**	22	**35.2**	**103**	**100**	**35**	**45**	**45.5**	**35.9**	27.3
Manganese (mg/L)	0.3*	**1.5**	**0.69**	**0.34**	**0.4**	**0.73**	**0.43**	**1**	**0.678**	0.269	**0.387**	**0.759**	**0.743**	**1.03**	**0.911**	**0.807**
Potassium (mg/L)	NS	220	270	250	330	28	390	39	101	368	222	99.2	127	125	134	74
Sodium (mg/L)	20	**330**	**340**	**350**	**450**	**31**	**670**	**55**	**112**	**371**	**346**	**124**	**146**	**116**	**130**	**84.2**
Part 360 Additional Baseline Metals																
Aluminum (mg/L)	NS		0.91					0.34	0.106				0.0346	0.165	0.032	<0.1
Antimony (mg/L)	0.003		<0.01					<0.01	<0.020				<0.0196	<0.0011	<0.002	<0.06
Arsenic (mg/L)	0.025		<0.01					<0.01	<0.002				<0.0015	<0.0022	<0.002	<0.005
Barium (mg/L)	1		0.51					0.17	0.302				0.0904	0.151	0.174	0.08
Beryllium (mg/L)	0.003 (GV)		<0.01					<0.01	<0.00014				<0.00014	<0.00016	<0.0001	<0.005
Boron (mg/L)	1		**2.8**					<0.5	**1.03**				**1.28**	**1.16**	0.754	0.686
Chromium (mg/L)	0.05		<0.01					<0.01	<0.005				0.0081	<0.0051	0.006	<0.005
Chromium, Hexavalent (mg/L)	0.05		0.016					<0.01	<0.020				<0.020	<0.02	<0.020	<0.02
Cobalt (mg/L)	NS		0.013					<0.01	0.005				0.0059	0.0058	0.003	<0.05
Copper (mg/L)	0.2		<0.01					0.011	<0.003				0.0042	<0.0025	<0.001	<0.005
Mercury (mg/L)	0.0007		<0.0002					<0.0002	<0.00007				<0.00006	<0.0001	<0.15	<0.0002
Nickel (mg/L)	0.1		0.042					0.019	0.016				0.0177	0.0137	0.00079	<0.02
Selenium (mg/L)	0.01		<0.01					<0.01	<0.003				<0.0025	<0.0015	<0.003	<0.005
Silver (mg/L)	0.05		<0.01					<0.01	<0.003				<0.0028	<0.0014	<0.003	<0.01
Thallium (mg/L)	0.0005 (GV)		<0.01					<0.02	**0.038**				**0.0219**	<0.0018	0.008	<0.01
Vanadium (mg/L)	NS		0.023					<0.01	<0.005				<0.0049	0.006	<0.011	<0.02
Zinc (mg/L)	2		0.072					0.026	0.005				0.0082	0.0068	0.006	<0.01
Part 360 Volatile Organics																
1,1,1,2-Tetrachloroethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane (µg/L)	1		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane (µg/L)	0.04		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0

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

Parameter	NYSDEC Ground Water Standard	6/19/08	9/23/08	12/15/2008	3/17/2009	6/22/2009	9/25/2009	12/14/2009	3/24/2010	6/23/2010	9/22/2010	12/21/2010	3/29/2011	6/18/2012	9/16/2013	12/4/2014
1,2-Dibromo-3-chloropropane (µg/L)	0.04		<1					<1	<10				<10	<10	<10	<10
1,2-Dibromoethane (EDB) (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene (µg/L)	3		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane (µg/L)	0.6		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane (µg/L)	1		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene (µg/L)	3		1.4					**6.6**	<5.0				<5.0	**3.1**	**6.9**	**7**
2-Butanone (MEK) (µg/L)	50 (GV)		<10					<10	<10				<10	<10	<10	<10
2-Hexanone (µg/L)	50 (GV)		<10					<10	<10				<10	<10	<10	<10
4-Methyl 2-pentanone (µg/L)	NS		<10					<10	<10				<10	<10	<10	<10
Acetone (µg/L)	50 (GV)		16					16	11				8.6 J	<10	<10	<10
Acrylonitrile (µg/L)	5		<20					<20	<25				<25	<25	<25	<25
Benzene (µg/L)	1		**5.9**					**6.3**	**5.6**				**8**	**4.4**	**7.7**	**7**
Bromochloromethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromodichloromethane (µg/L)	50 (GV)		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromoform (µg/L)	50 (GV)		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Bromomethane (µg/L)	5		<1					<1	<10				<10	<10	<10	<10
Carbon disulfide (µg/L)	60 (GV)		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chlorobenzene (µg/L)	5		1.3					**9.7**	<5.0				**9.3**	**5.2**	**10**	**10**
Chloroethane (µg/L)	5		**7.3**					**21**	**15**				**42**	**8.8**	**14**	**18**
Chloroform (µg/L)	7		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Chloromethane (µg/L)	5		<1					<1	<10				<10	<10	<10	<10
cis-1,2-Dichloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene (µg/L)	0.4**		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromochloromethane (µg/L)	50 (GV)		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Dibromomethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Ethyl benzene (µg/L)	5		<1					1.3	<5.0				<5.0	<5.0	<5.0	<5.0
Iodomethane (µg/L)	5		<5					<5	<10				<10	<10	<10	<10
Methylene Chloride (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Styrene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Toluene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene (µg/L)	0.4**		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene (µg/L)	5		<5					<5	<10				<10	<10	<10	<10
Trichloroethene (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane (µg/L)	5		<1					<1	<5.0				<5.0	<5.0	<5.0	<5.0
Vinyl Acetate (µg/L)	NS		<5					<5	<10				<10	<10	<10	<10
Vinyl Chloride (µg/L)	2		<1					<1	<10				<10	<10	<10	<10
Xylenes (Total) (µg/L)	5		4.2					**85**	**15**				**72.6**	**6.2**	**5.1**	**48**
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
7) J indicates estimated concentration based on QC data

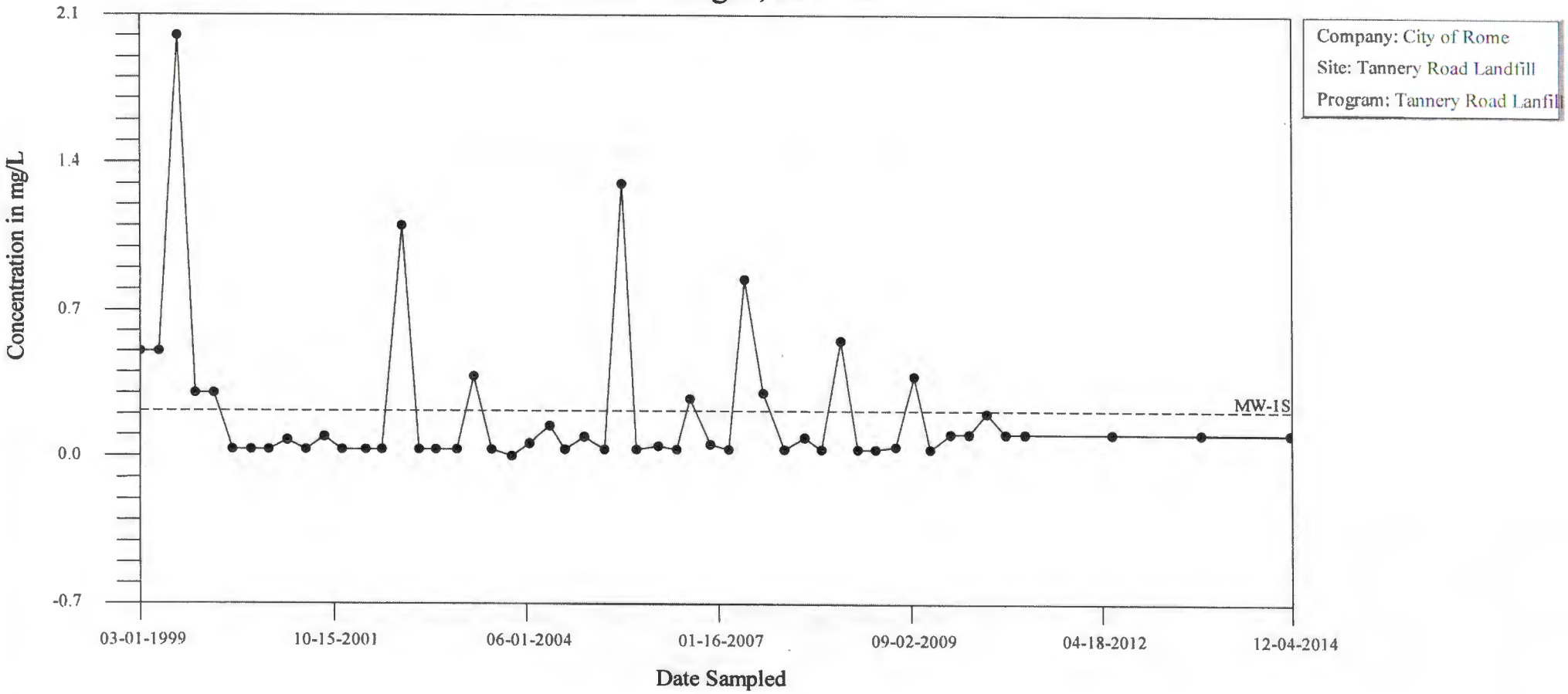
APPENDIX B

MONITORING WELL AND LEACHATE WELL

TIME SERIES CONCENTRATION GRAPHS

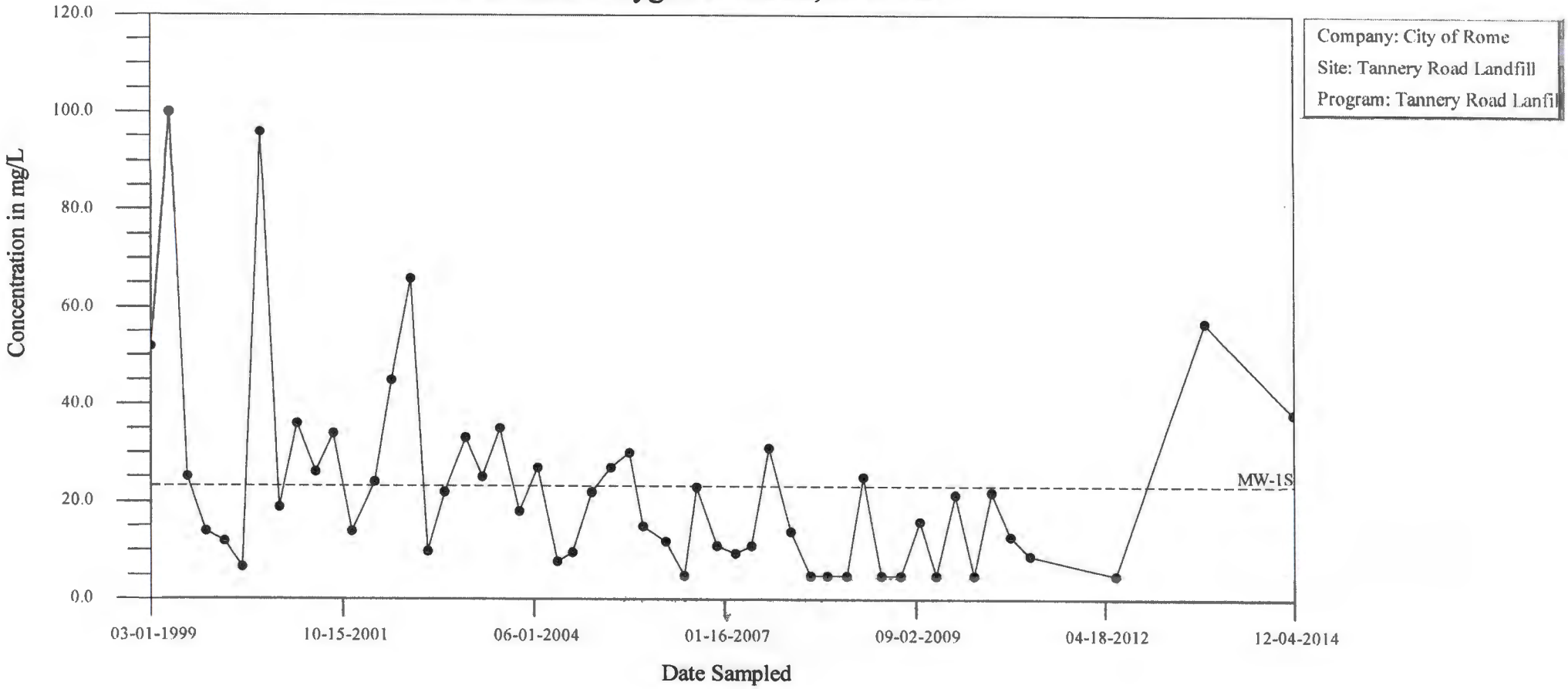
Time-Series Plot

Ammonia-Nitrogen, MW-1S



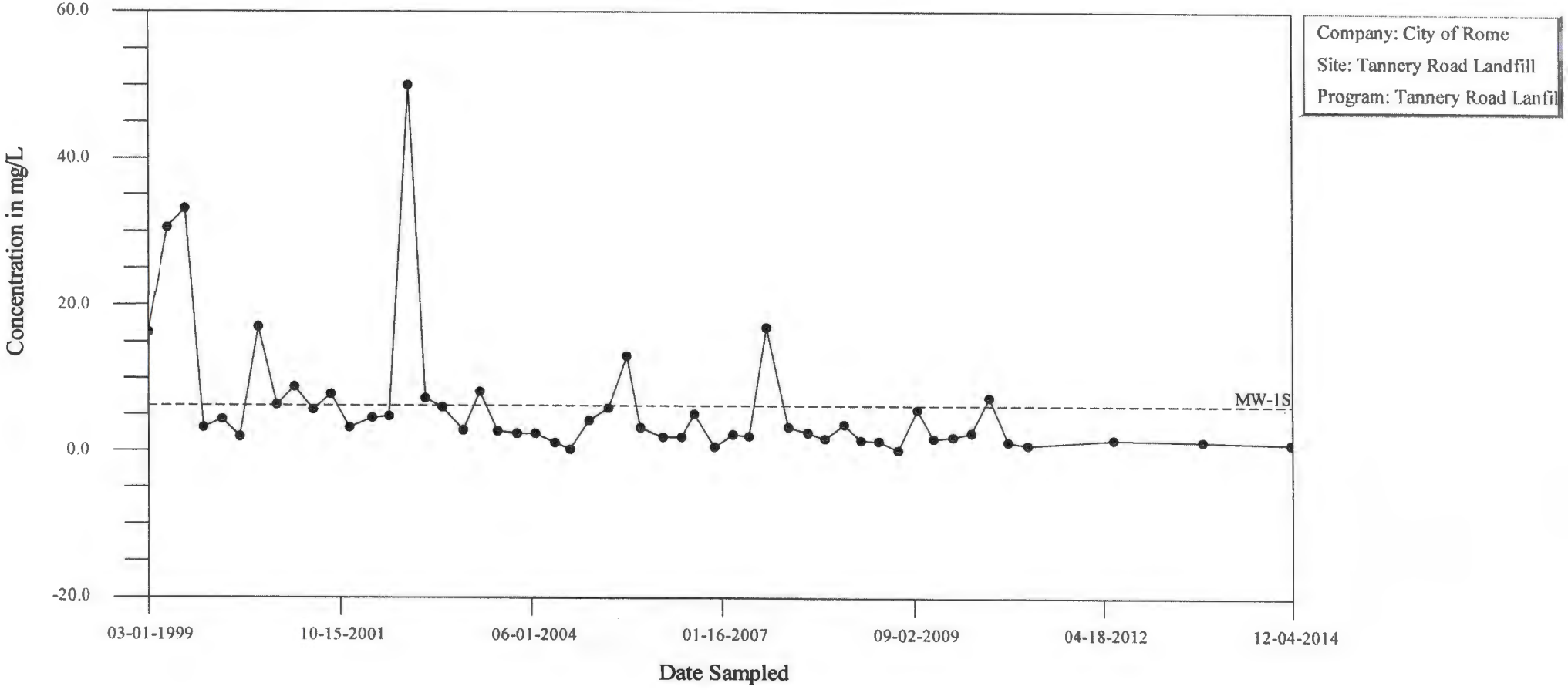
Time-Series Plot

Chemical Oxygen Demand, MW-1S



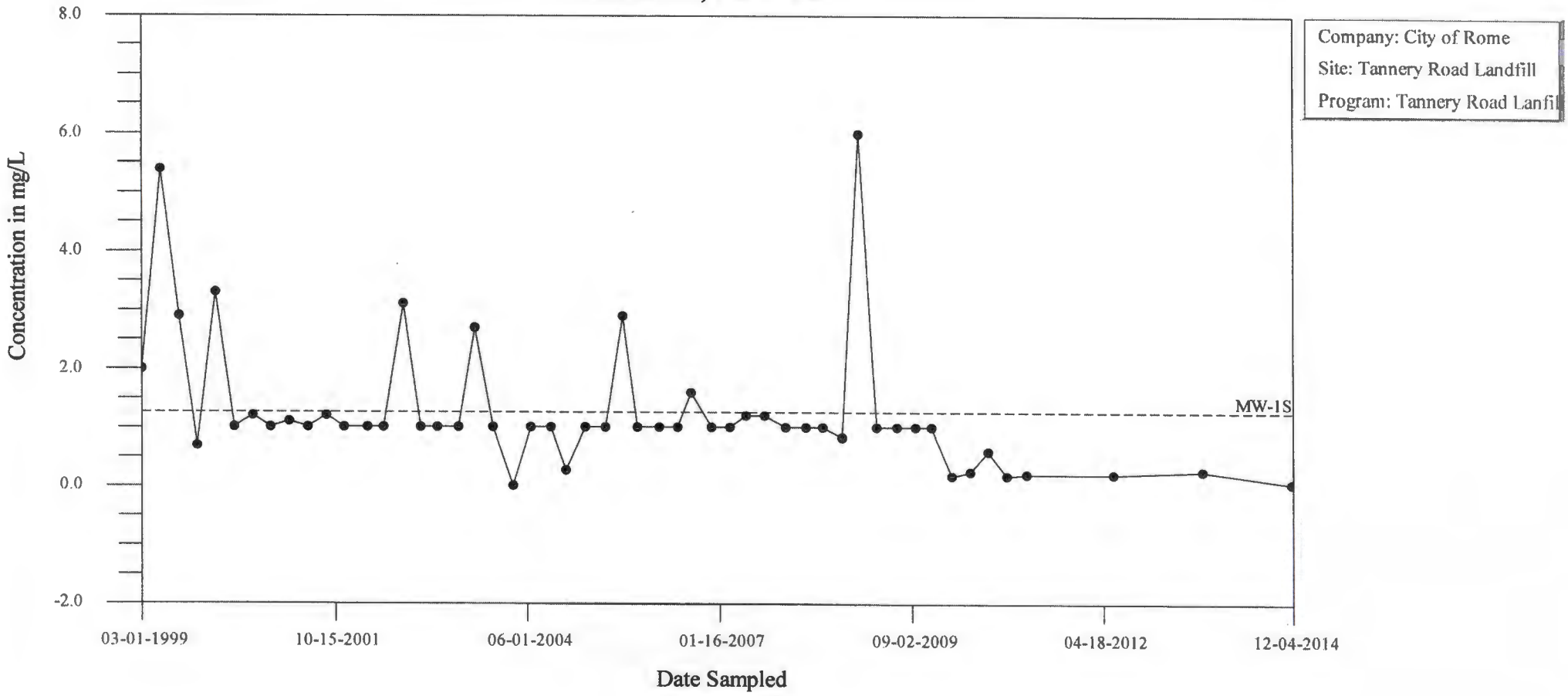
Time-Series Plot

Iron, MW-1S



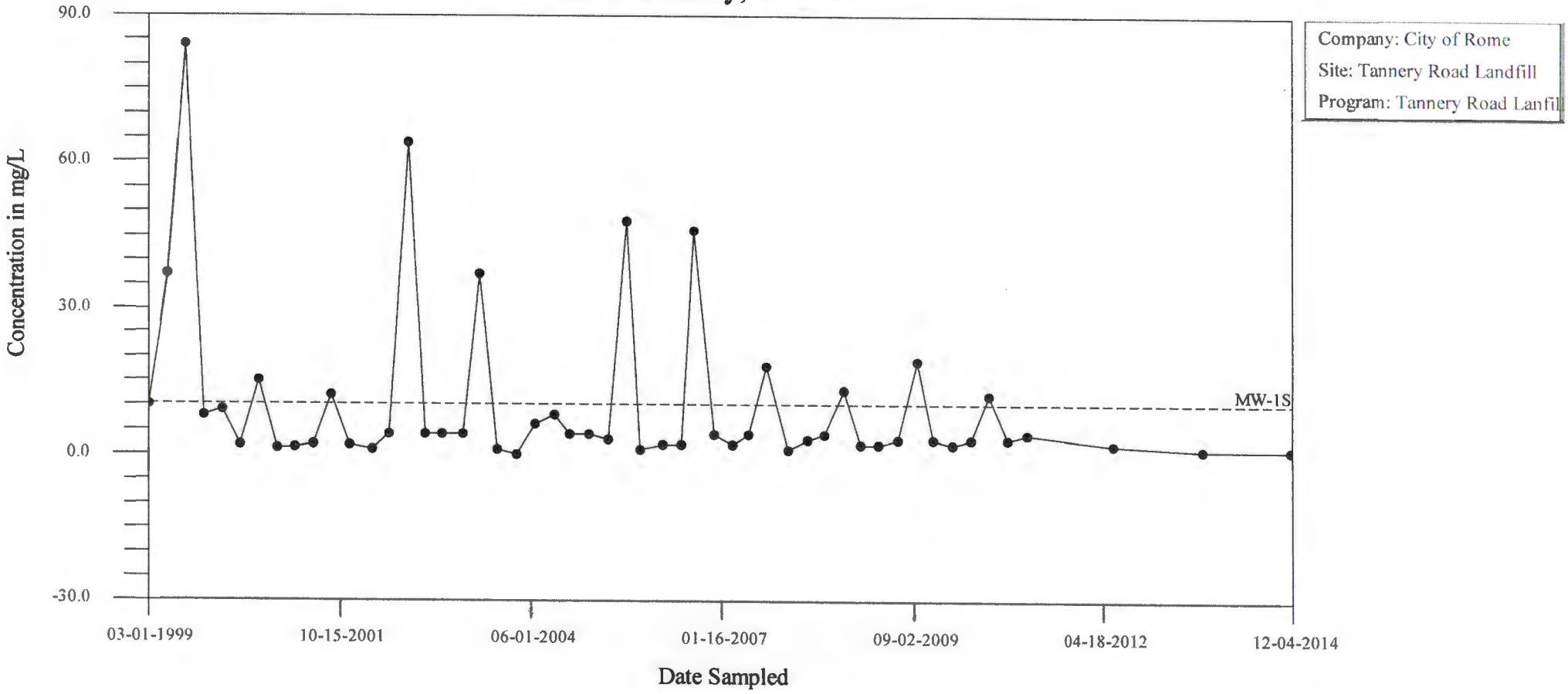
Time-Series Plot

Potassium, MW-1S



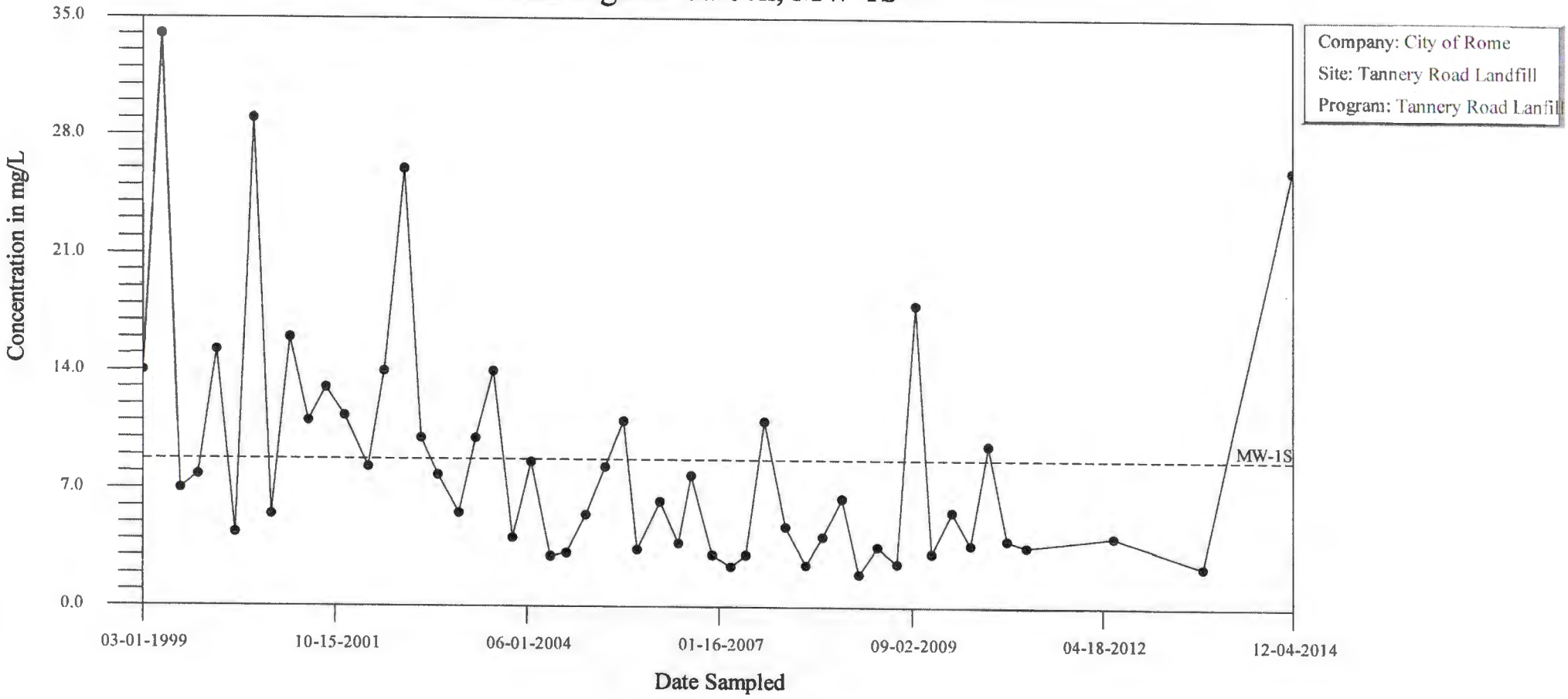
Time-Series Plot

Total Alkalinity, MW-1S



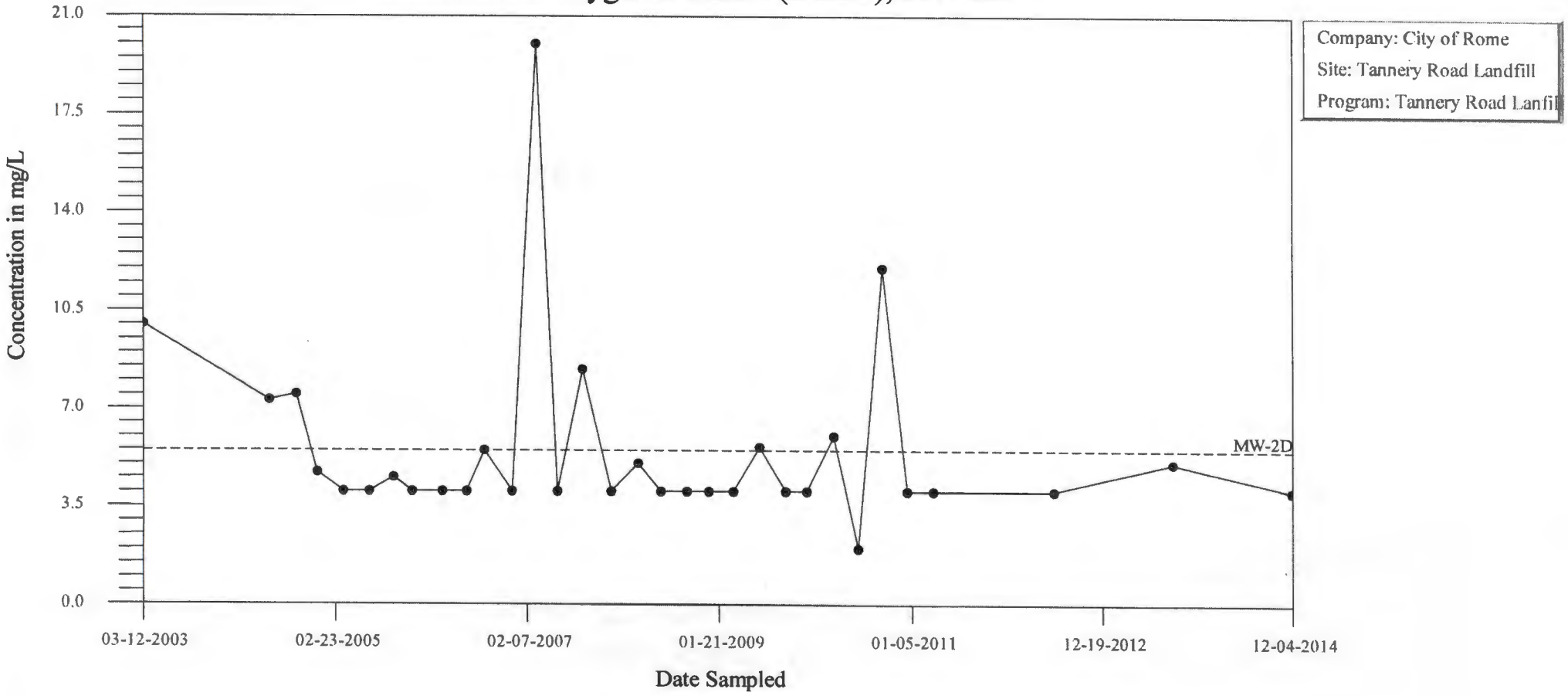
Time-Series Plot

Total Organic Carbon, MW-1S



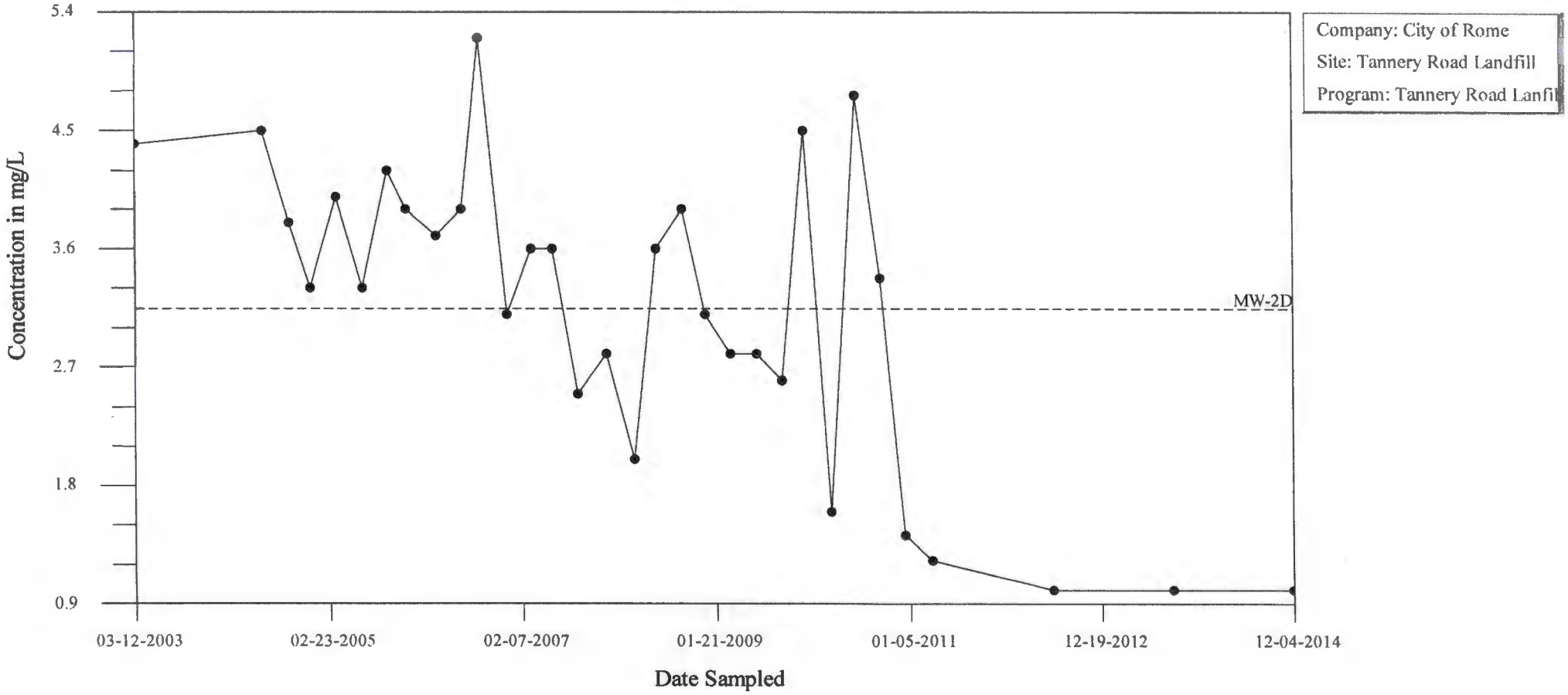
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-2D



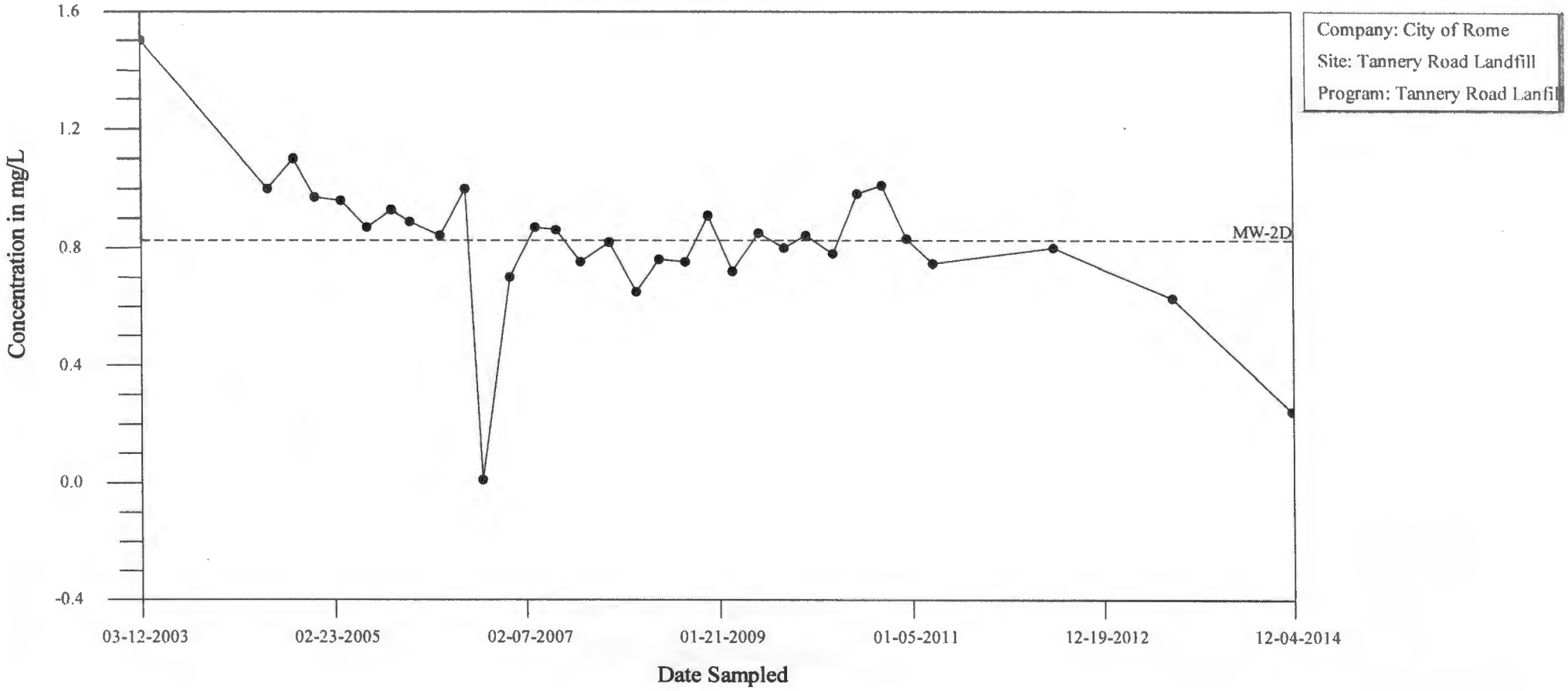
Time-Series Plot

Chloride, MW-2D



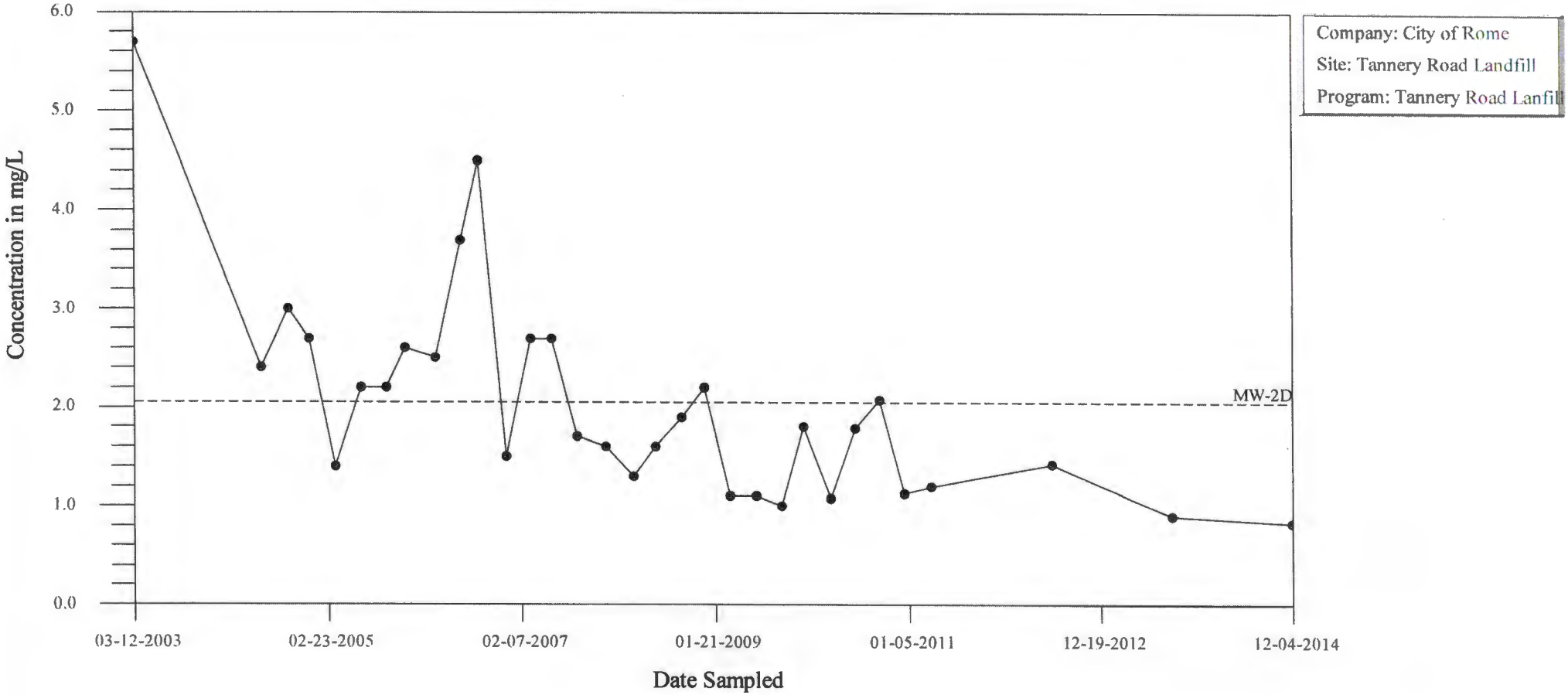
Time-Series Plot

Manganese, MW-2D



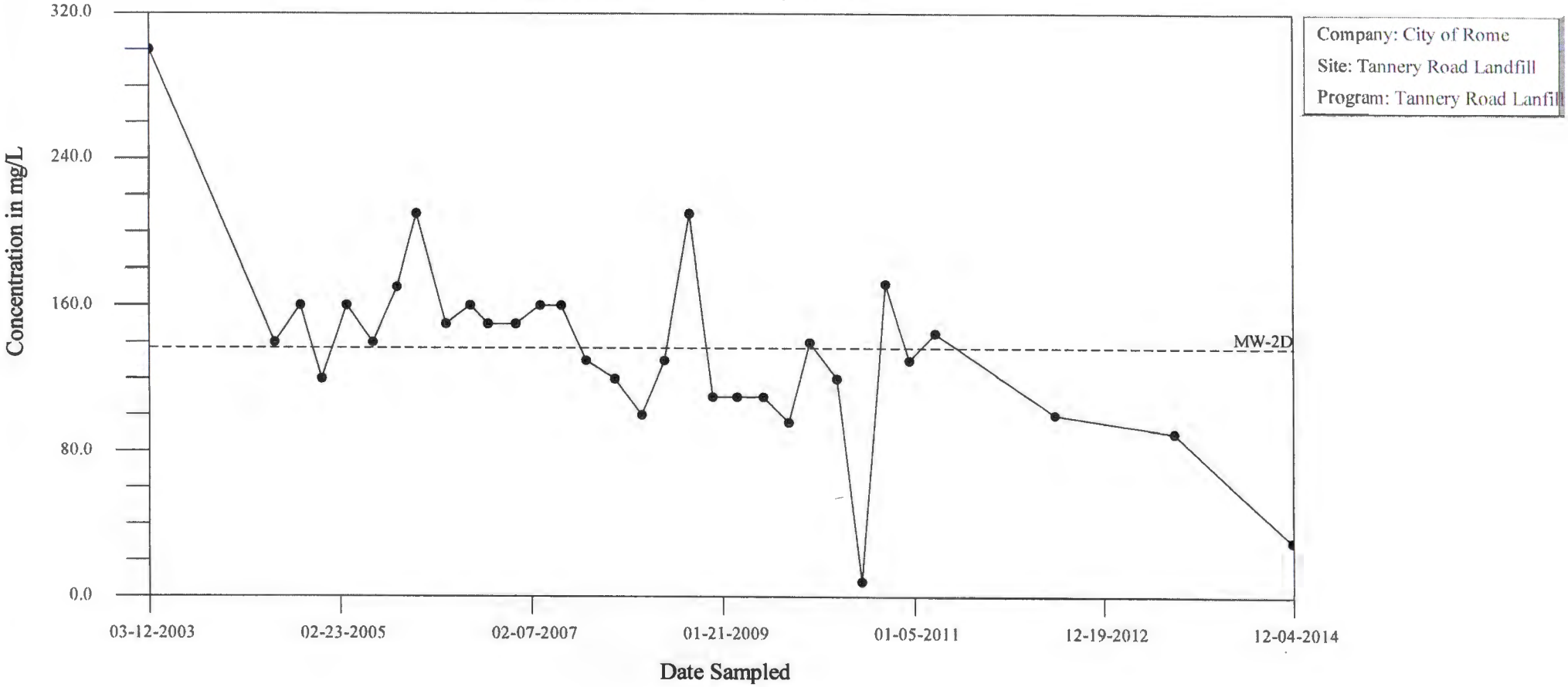
Time-Series Plot

Sodium, MW-2D



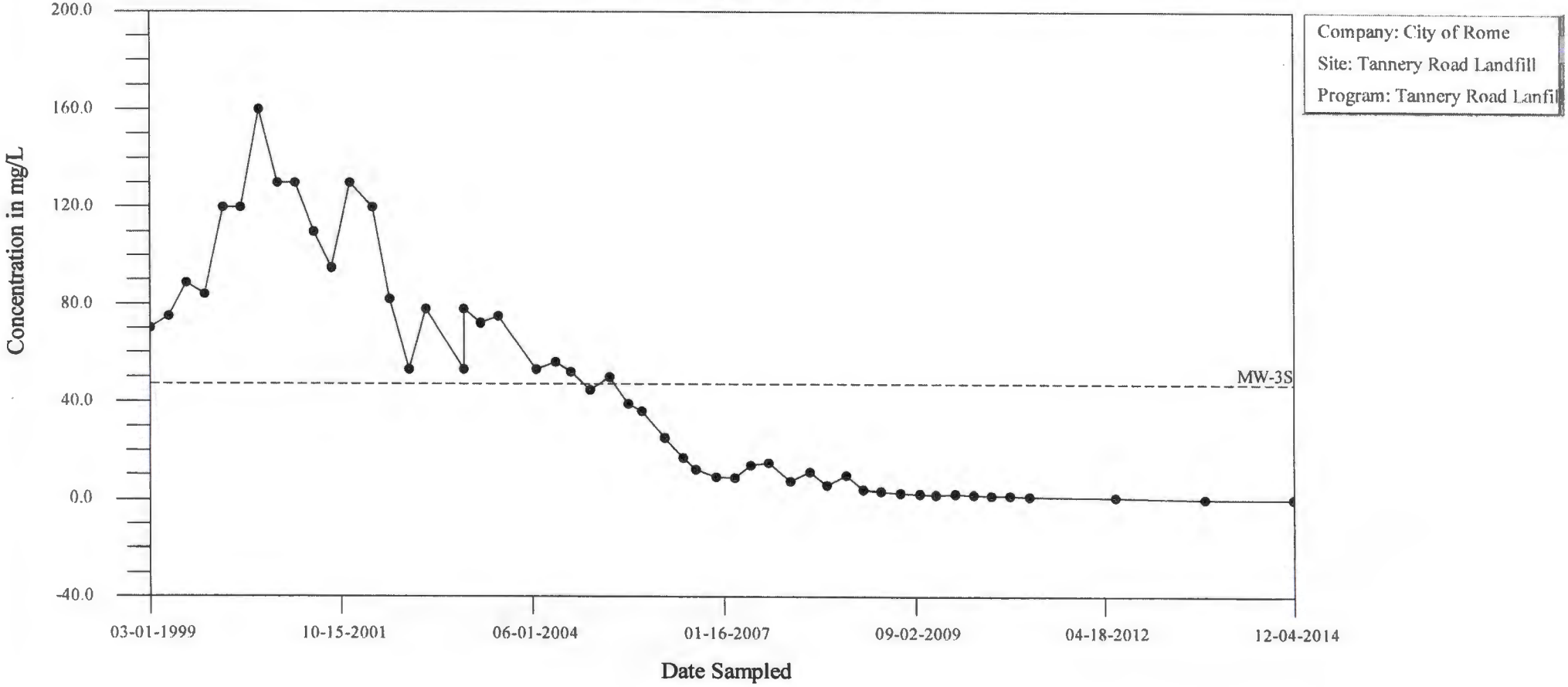
Time-Series Plot

Total Dissolved Solids, MW-2D



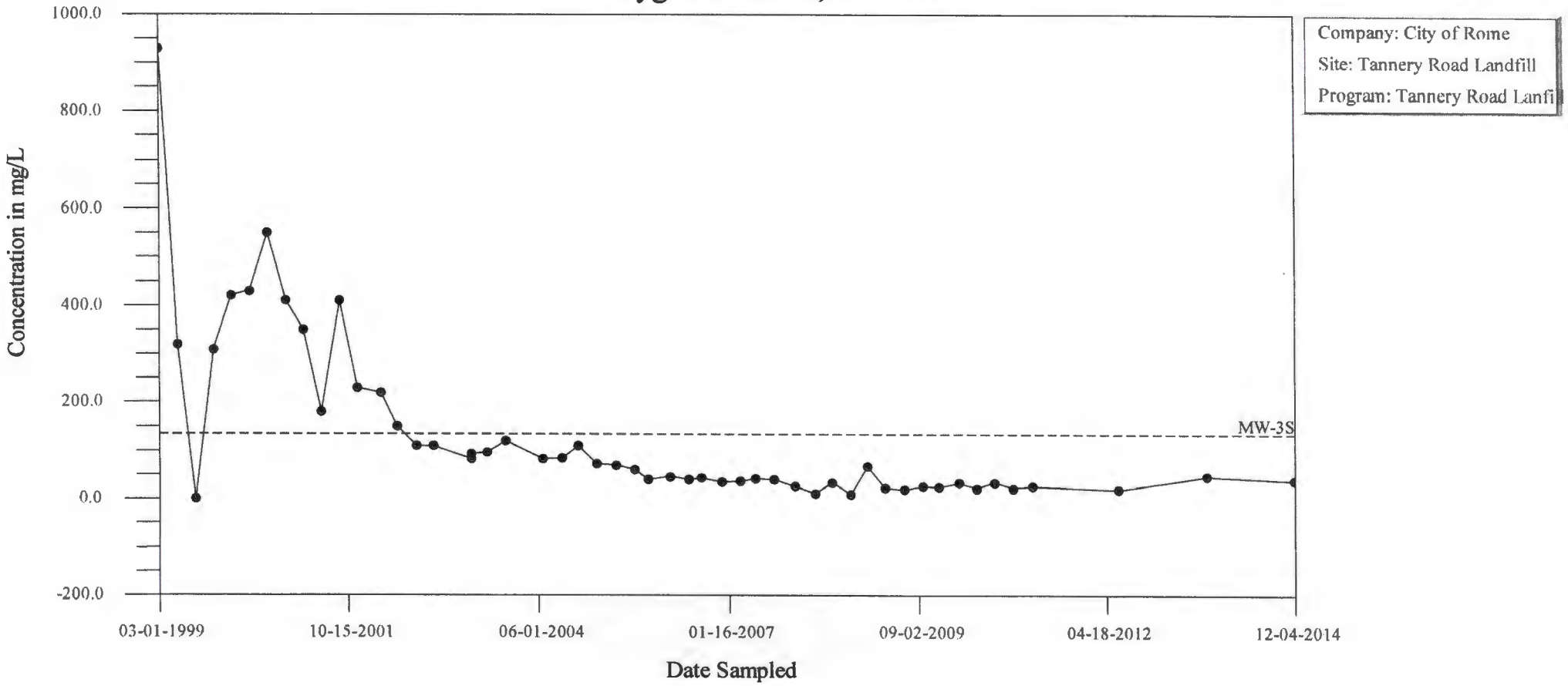
Time-Series Plot

Ammonia-Nitrogen, MW-3S



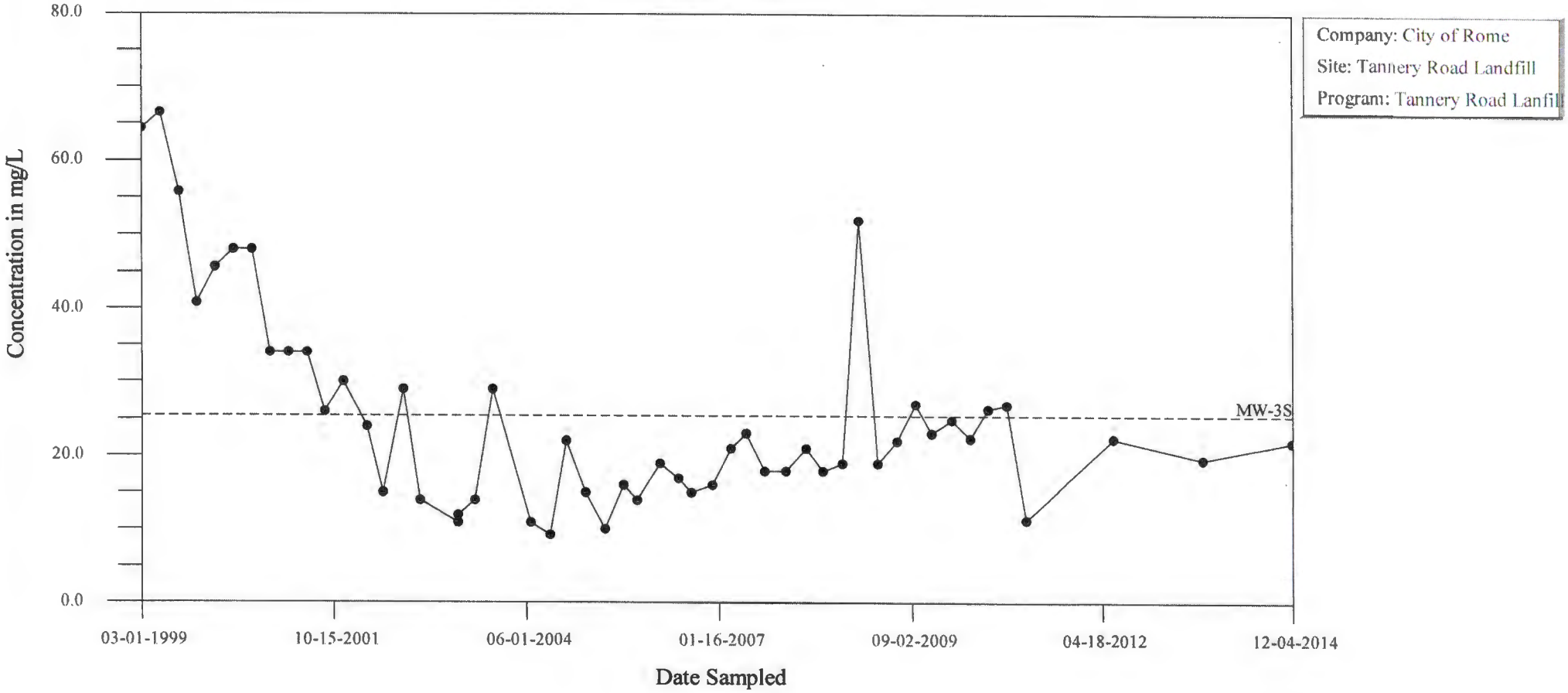
Time-Series Plot

Chemical Oxygen Demand, MW-3S



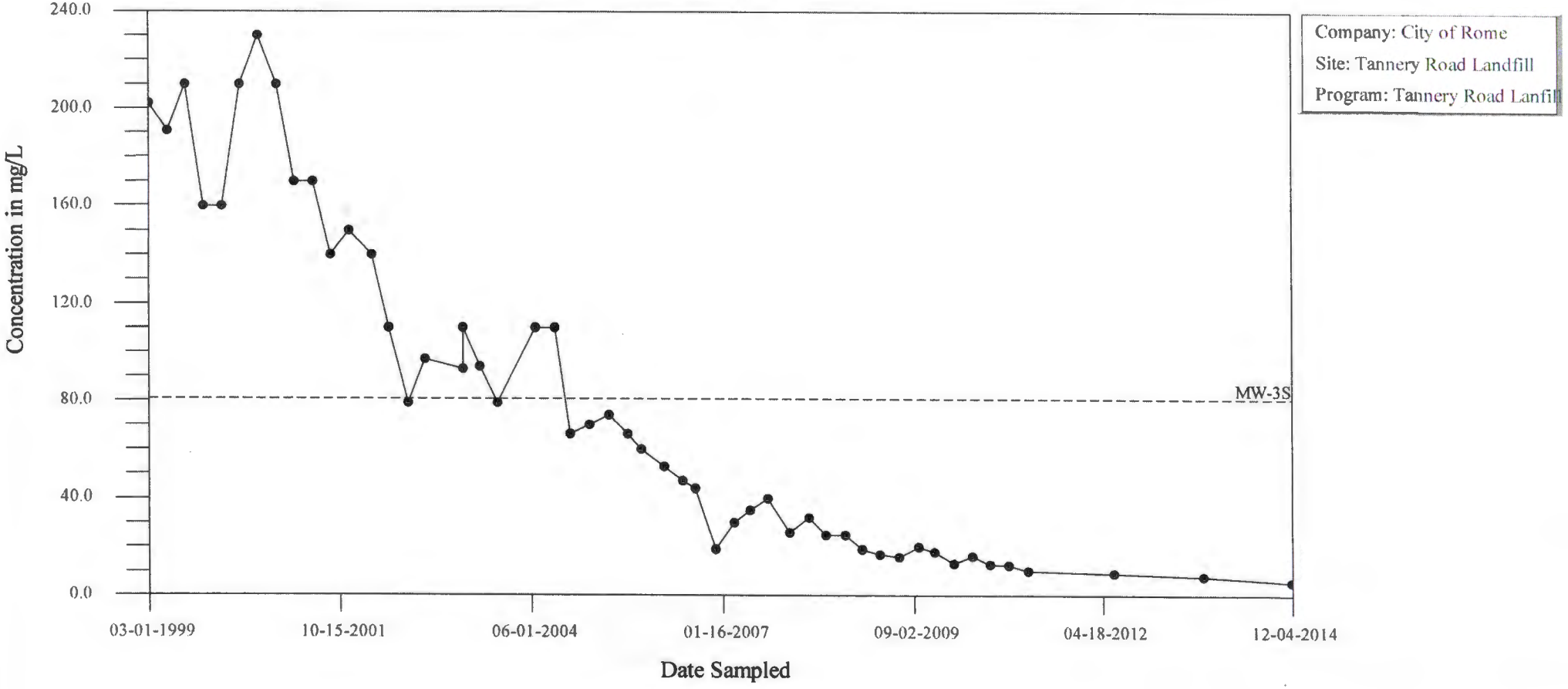
Time-Series Plot

Iron, MW-3S



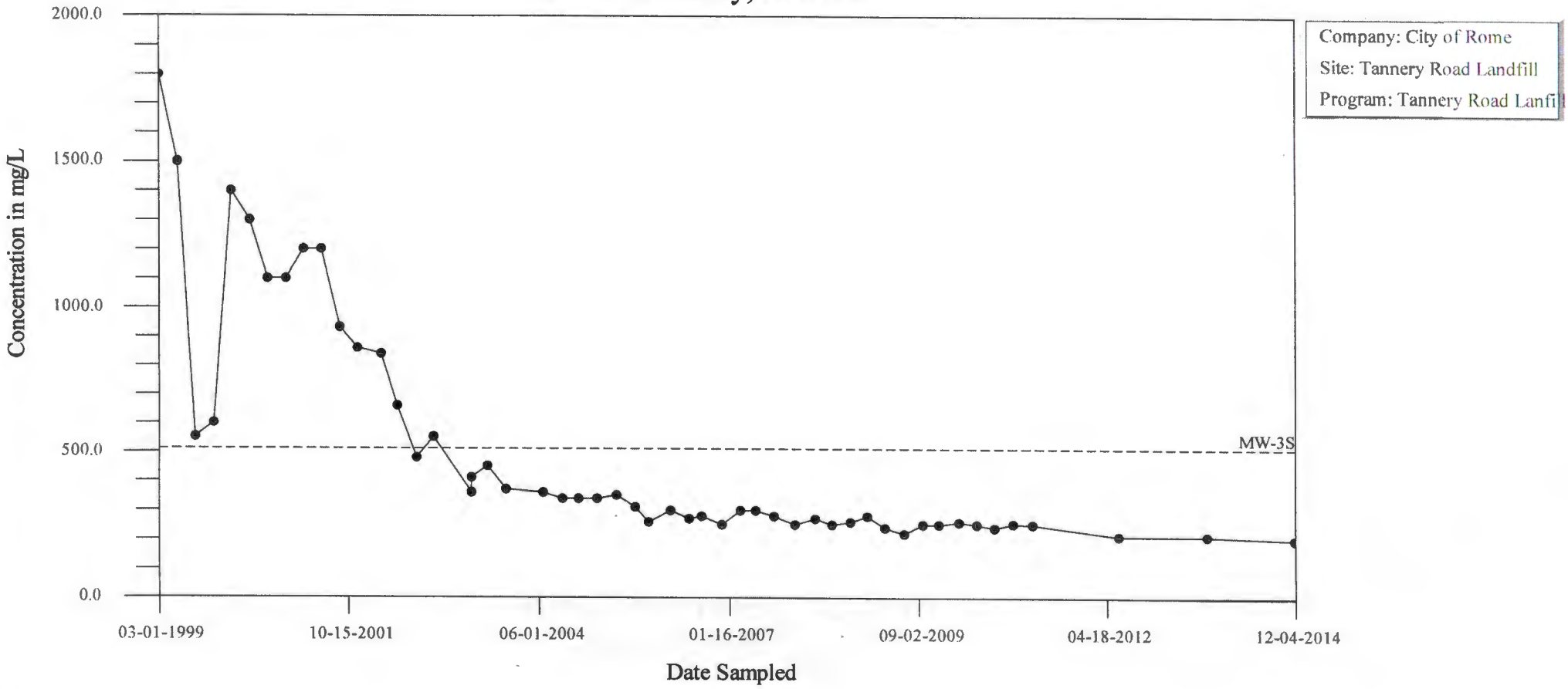
Time-Series Plot

Potassium, MW-3S



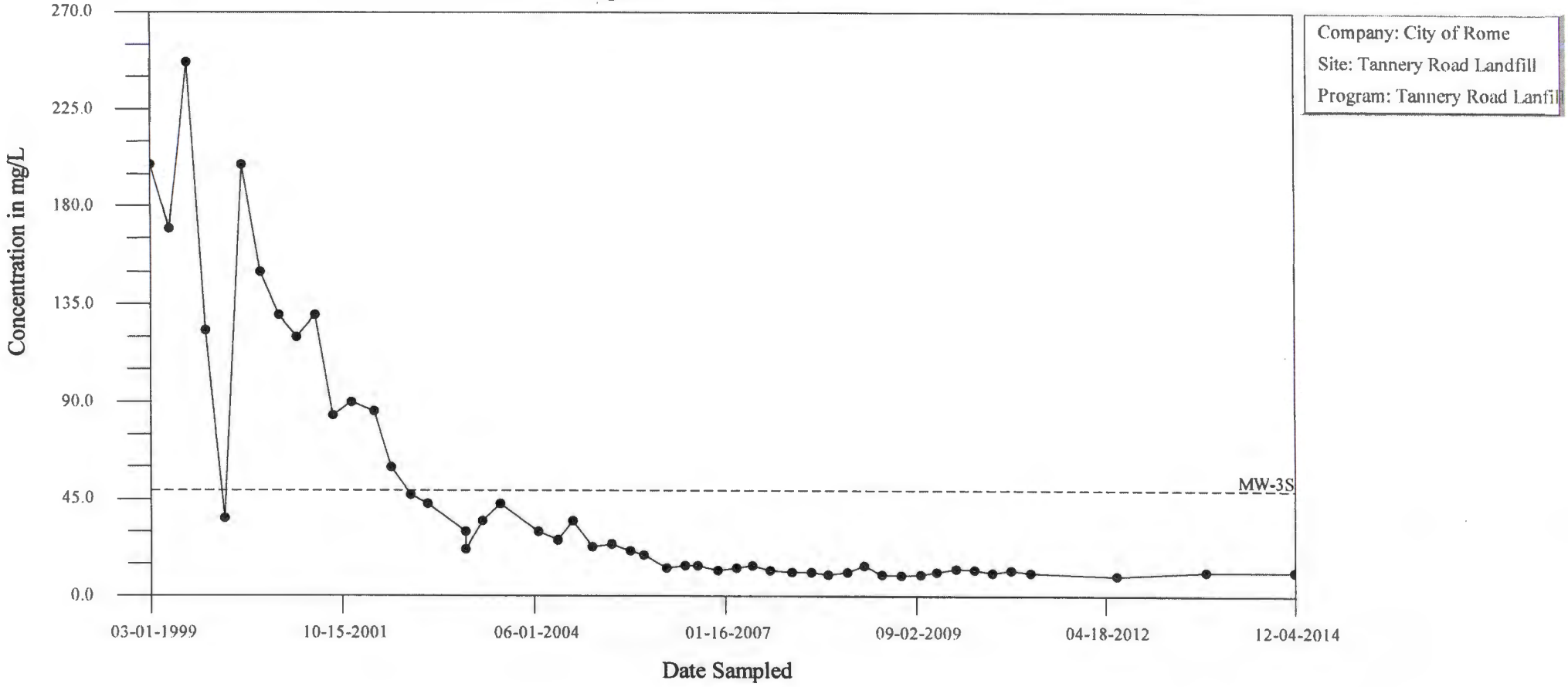
Time-Series Plot

Total Alkalinity, MW-3S



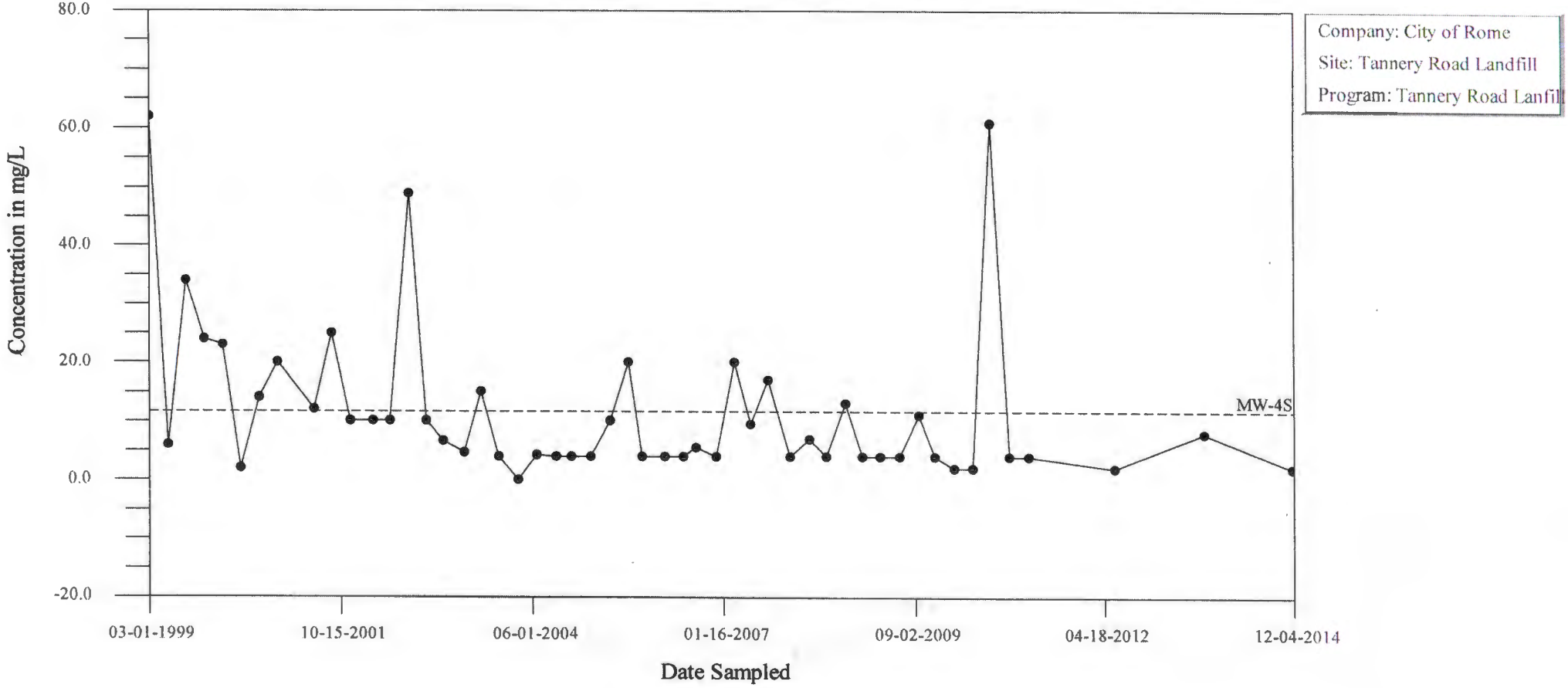
Time-Series Plot

Total Organic Carbon, MW-3S



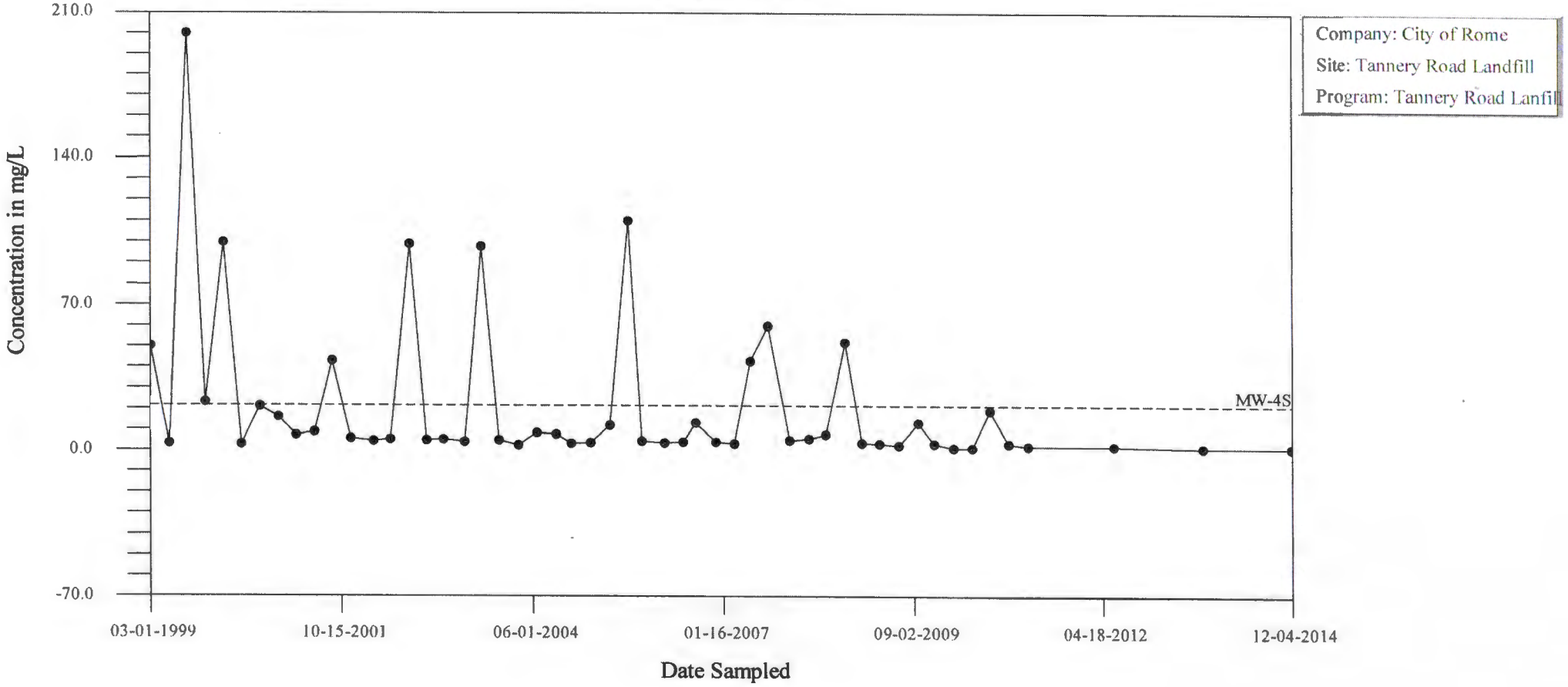
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-4S



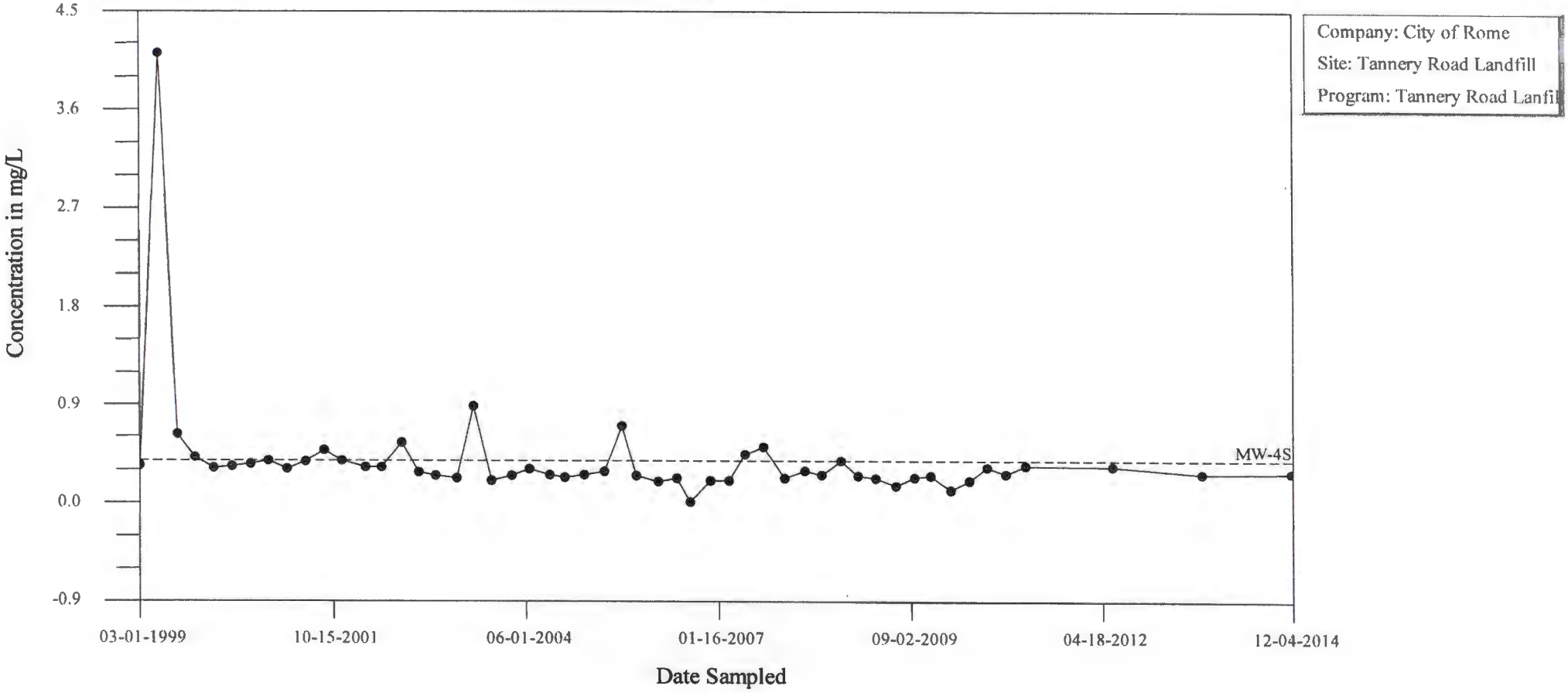
Time-Series Plot

Chloride, MW-4S



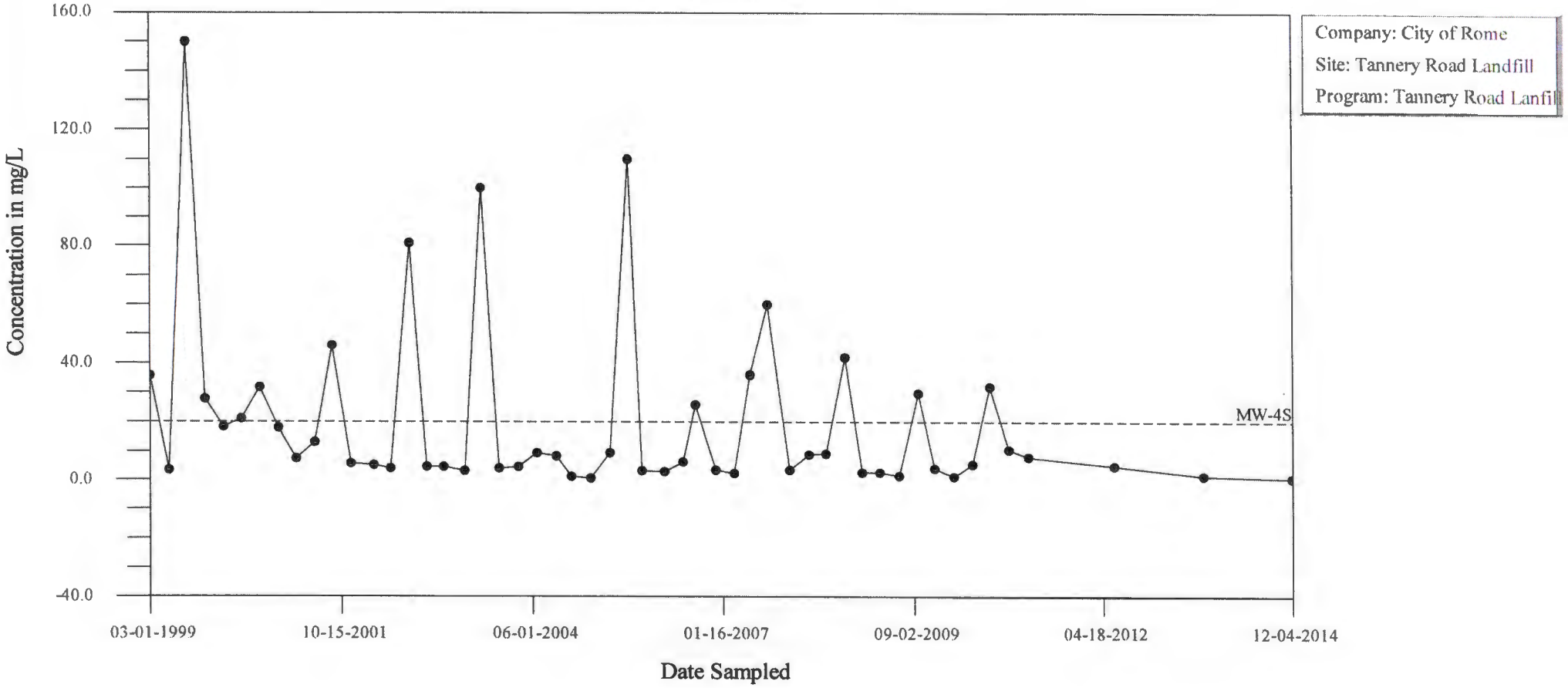
Time-Series Plot

Manganese, MW-4S



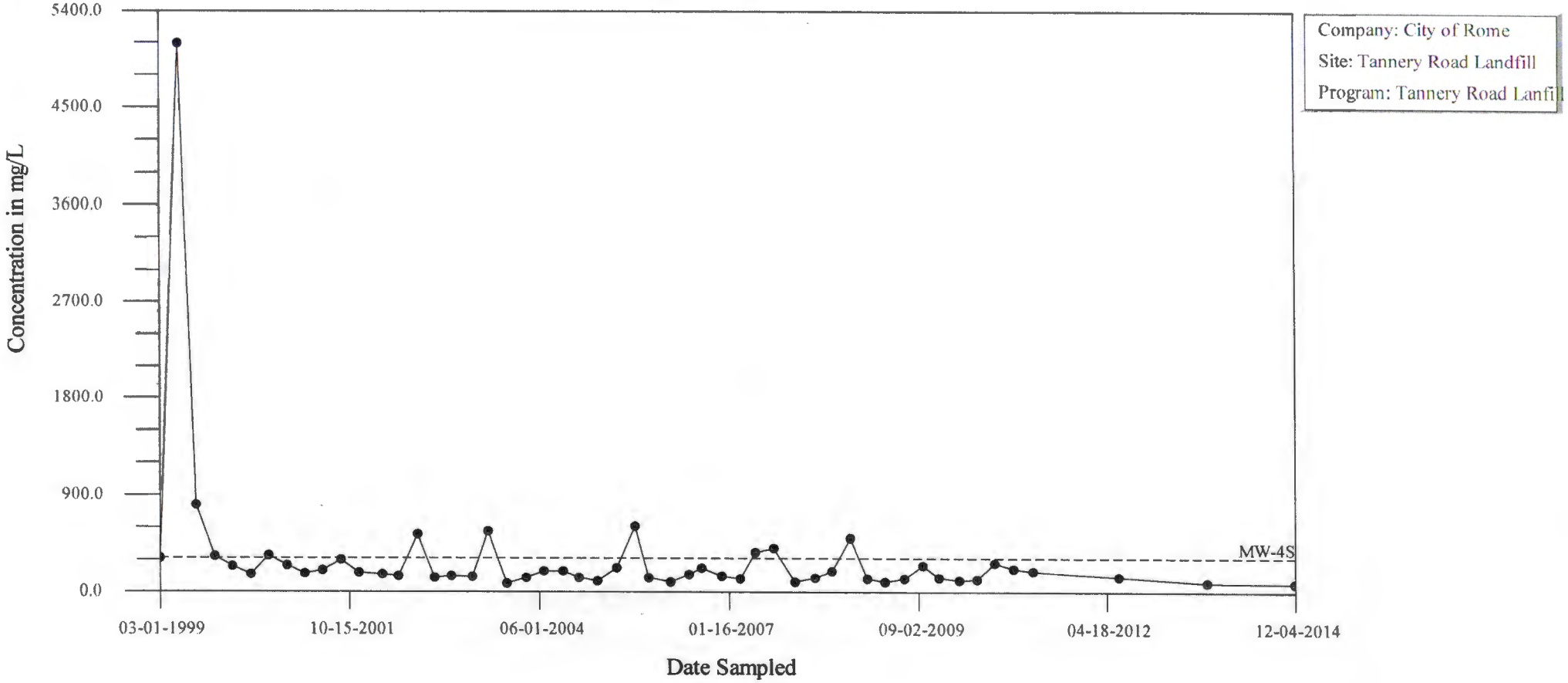
Time-Series Plot

Sodium, MW-4S



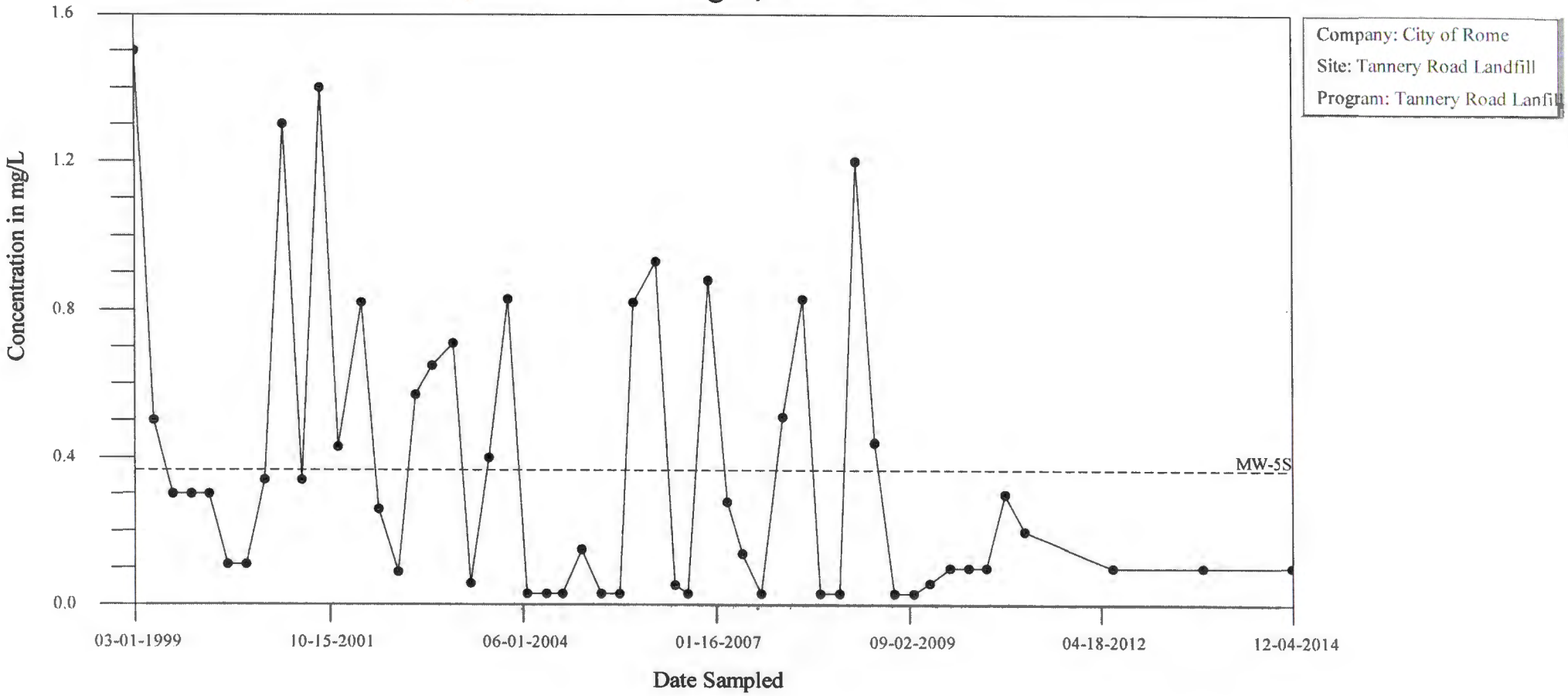
Time-Series Plot

Total Dissolved Solids, MW-4S



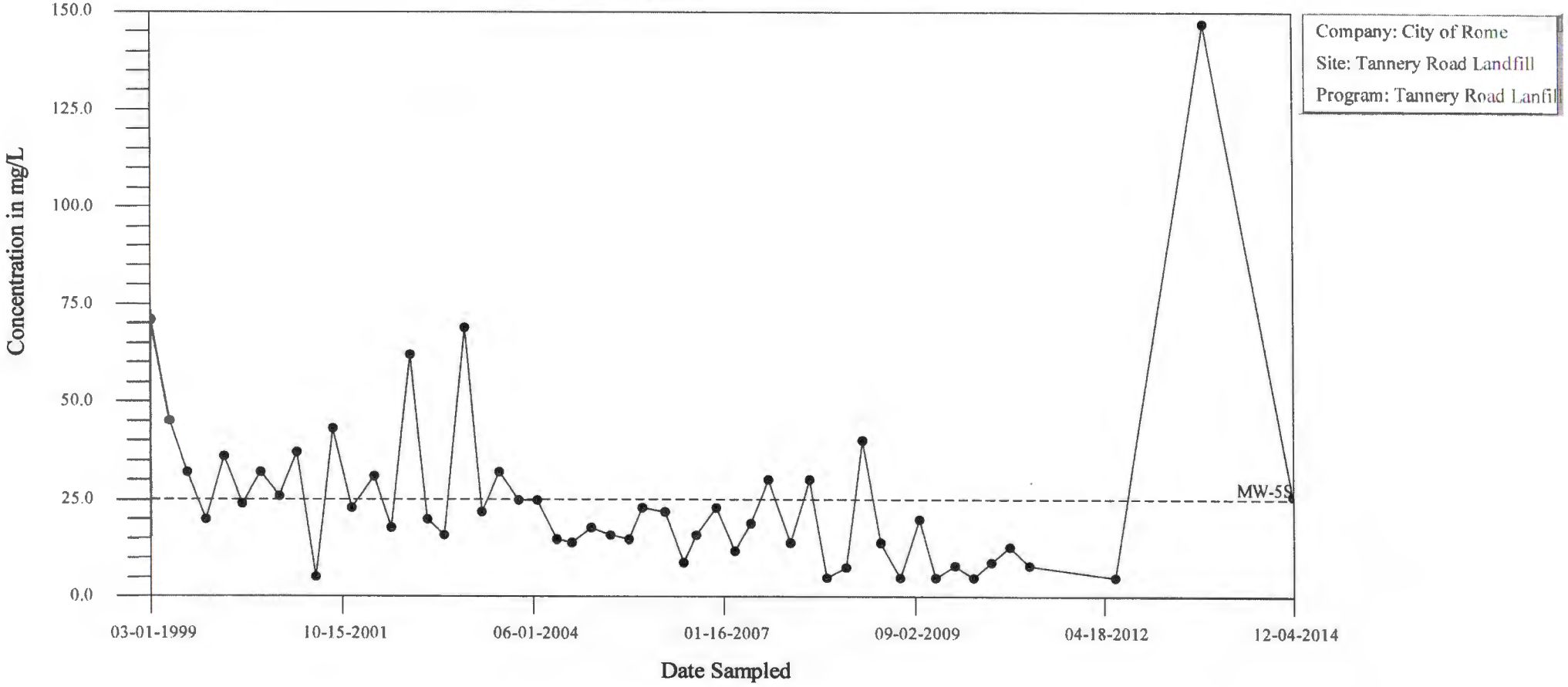
Time-Series Plot

Ammonia-Nitrogen, MW-5S



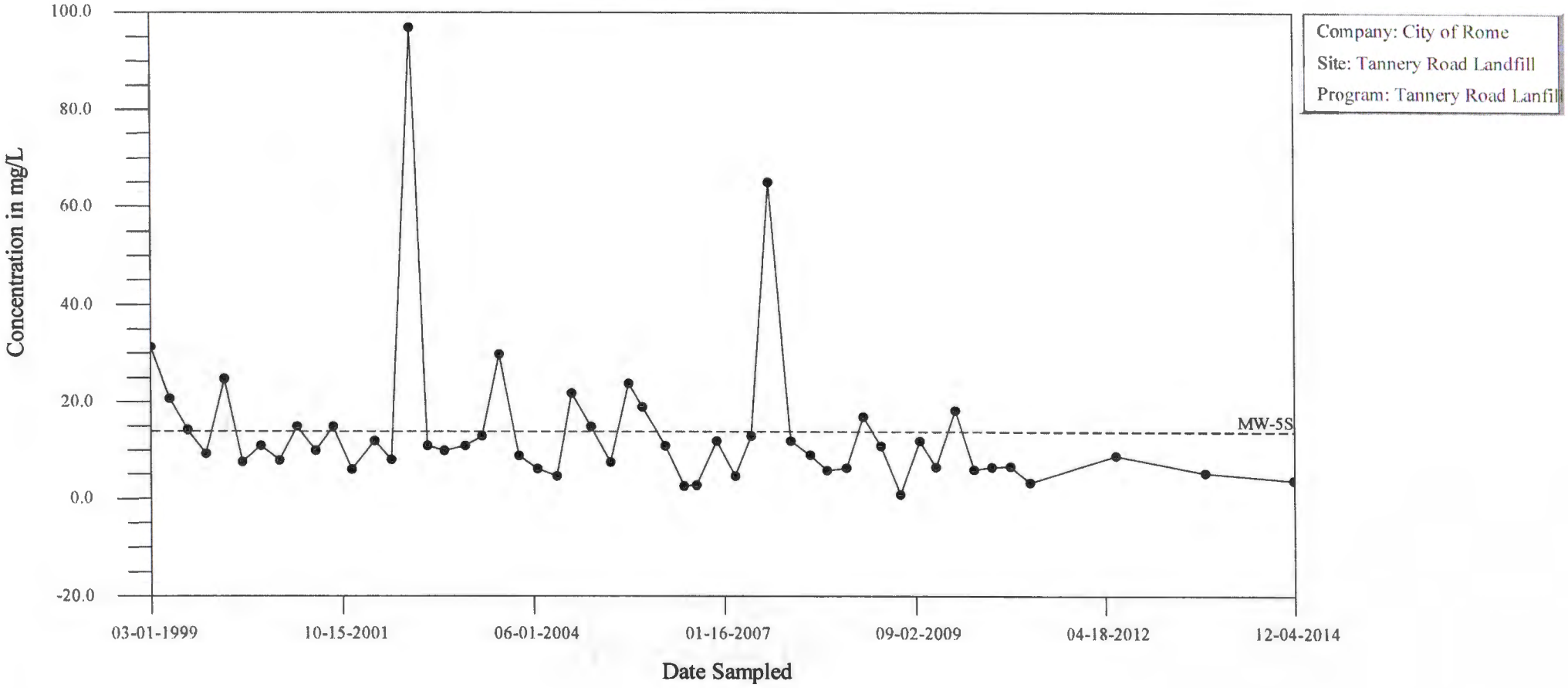
Time-Series Plot

Chemical Oxygen Demand, MW-5S



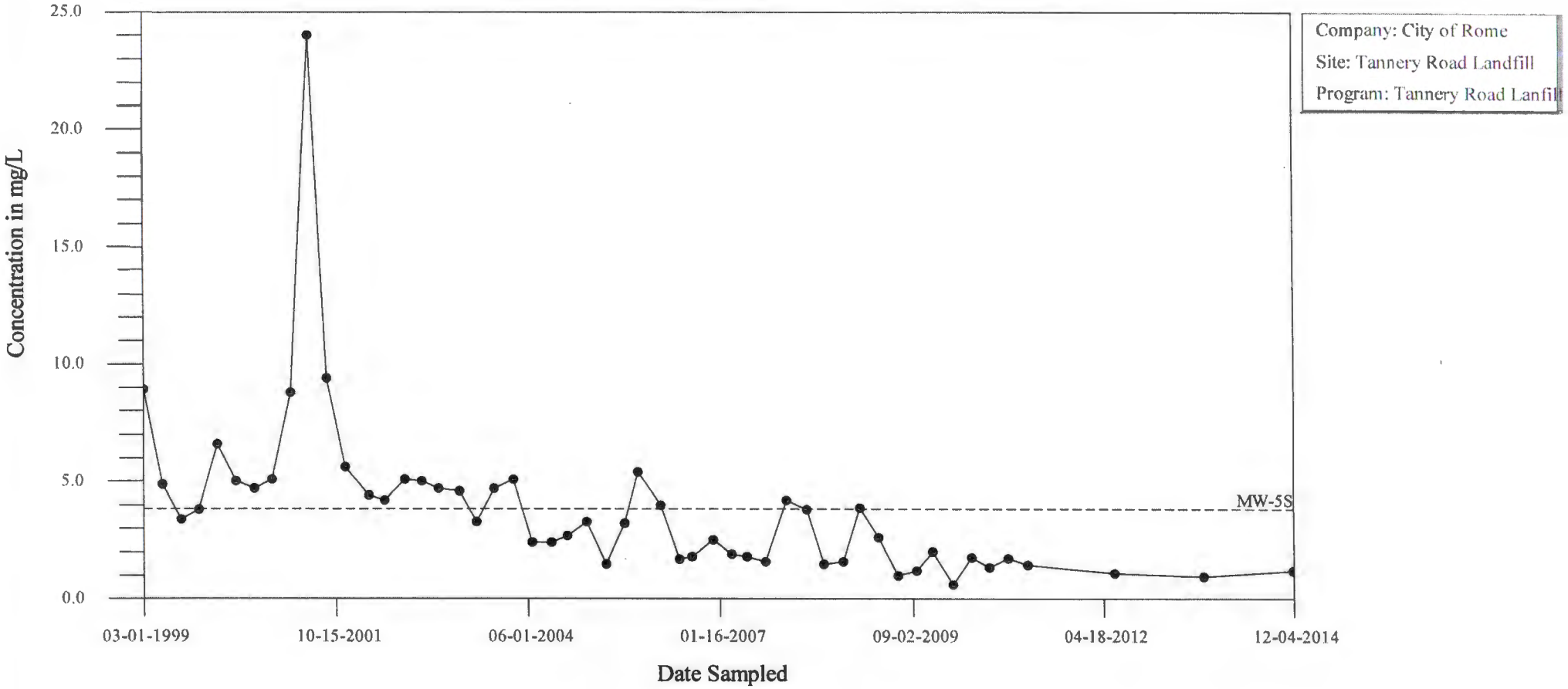
Time-Series Plot

Iron, MW-5S



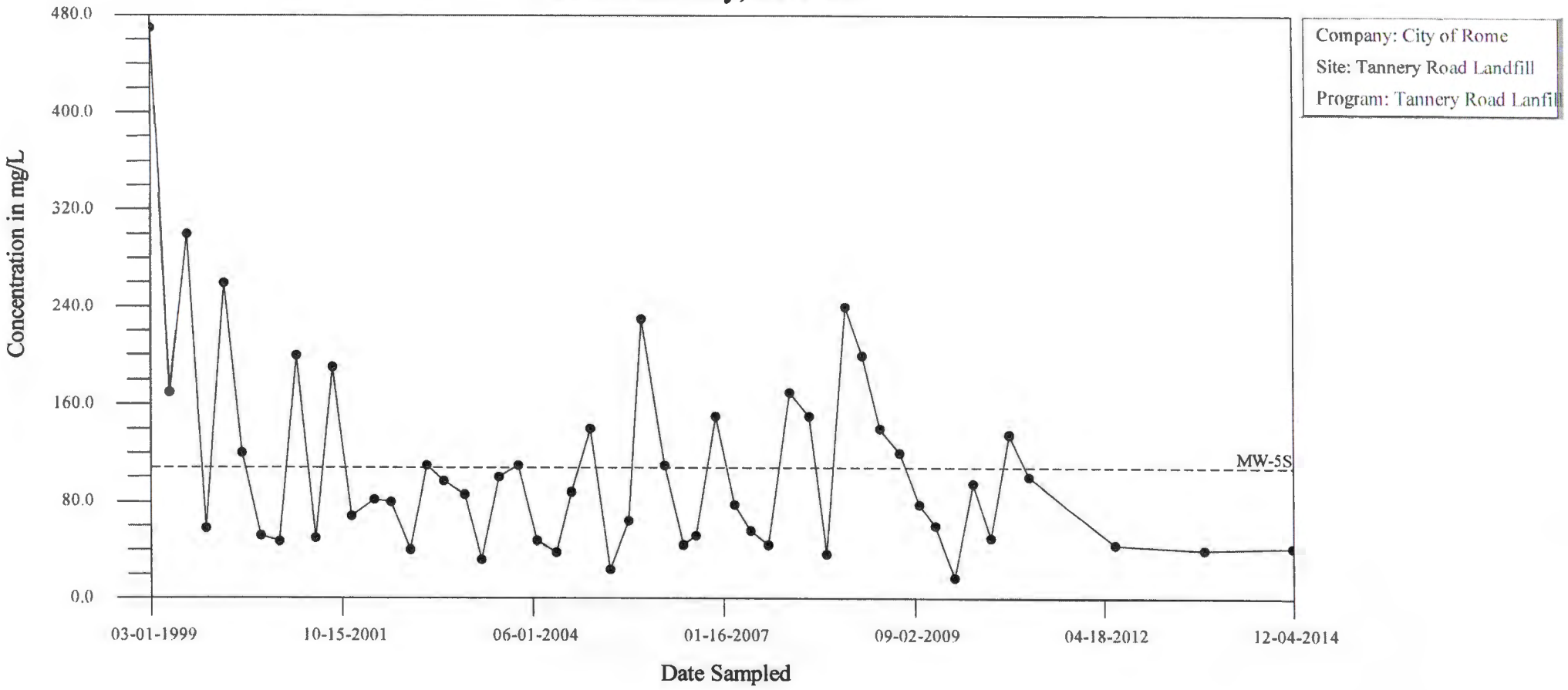
Time-Series Plot

Potassium, MW-5S



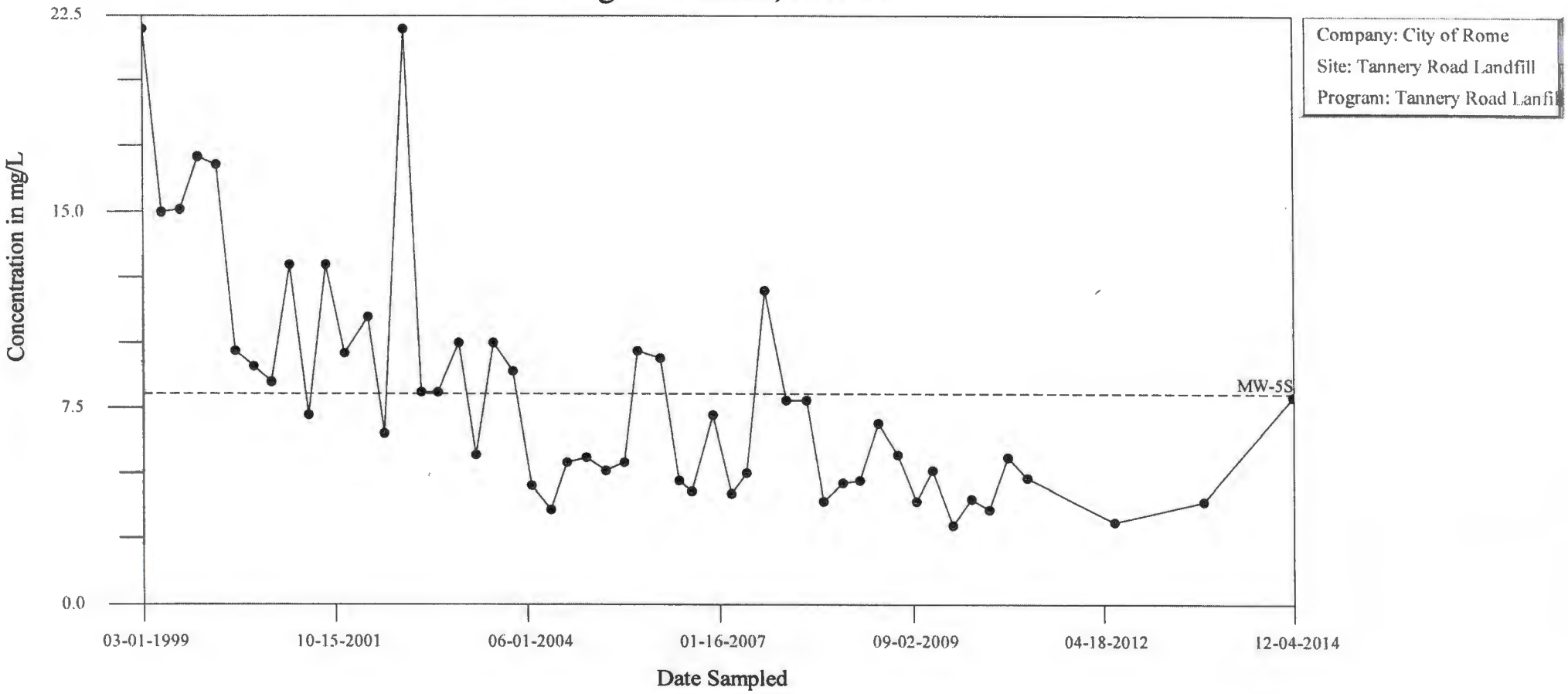
Time-Series Plot

Total Alkalinity, MW-5S



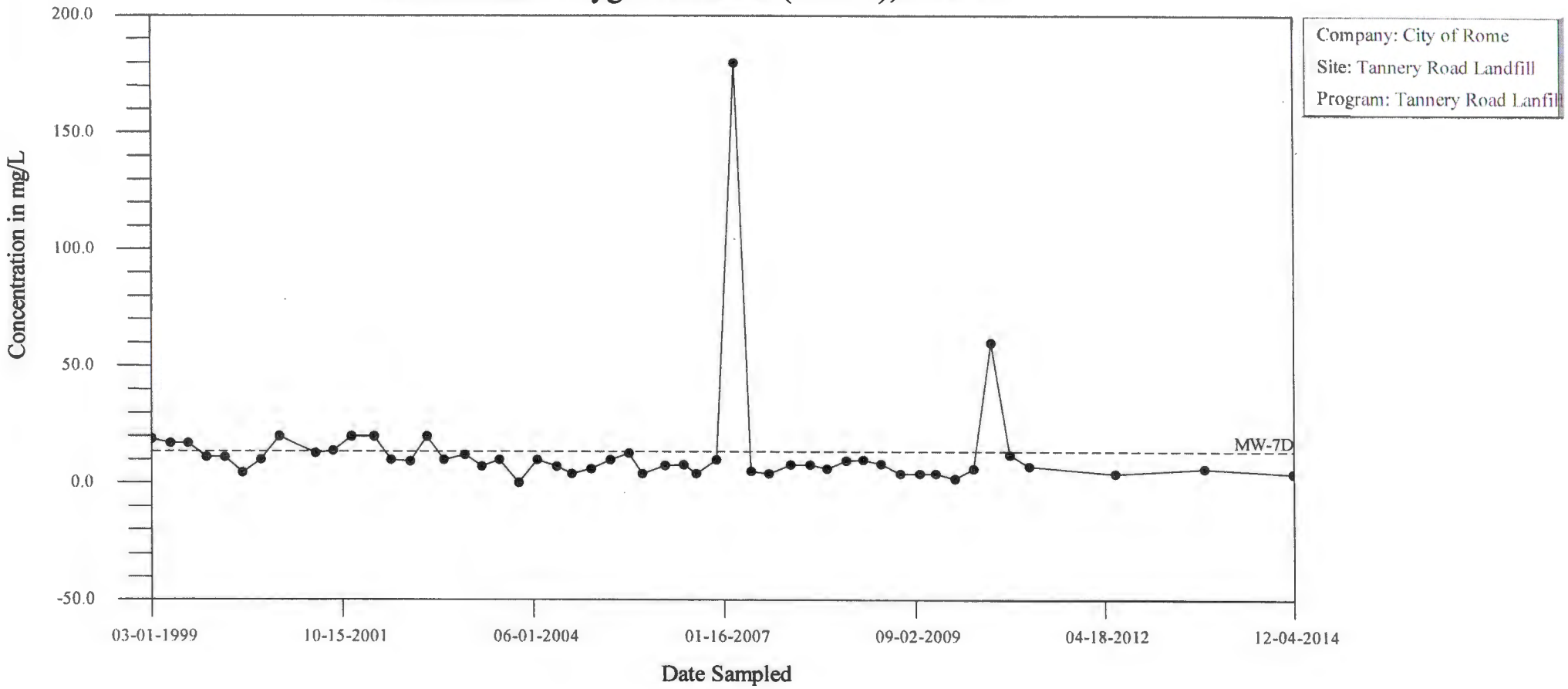
Time-Series Plot

Total Organic Carbon, MW-5S



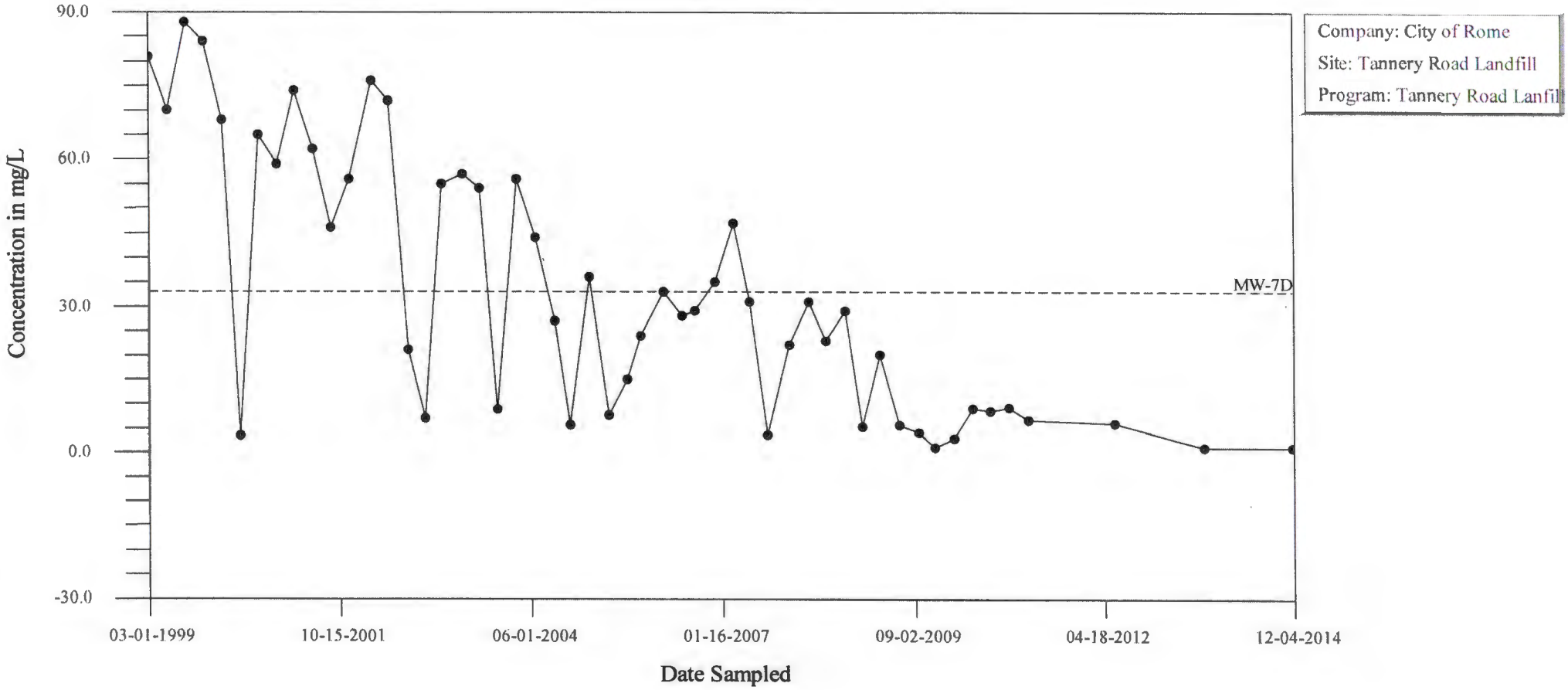
Time-Series Plot

Biochemical Oxygen Demand (BOD5), MW-7D



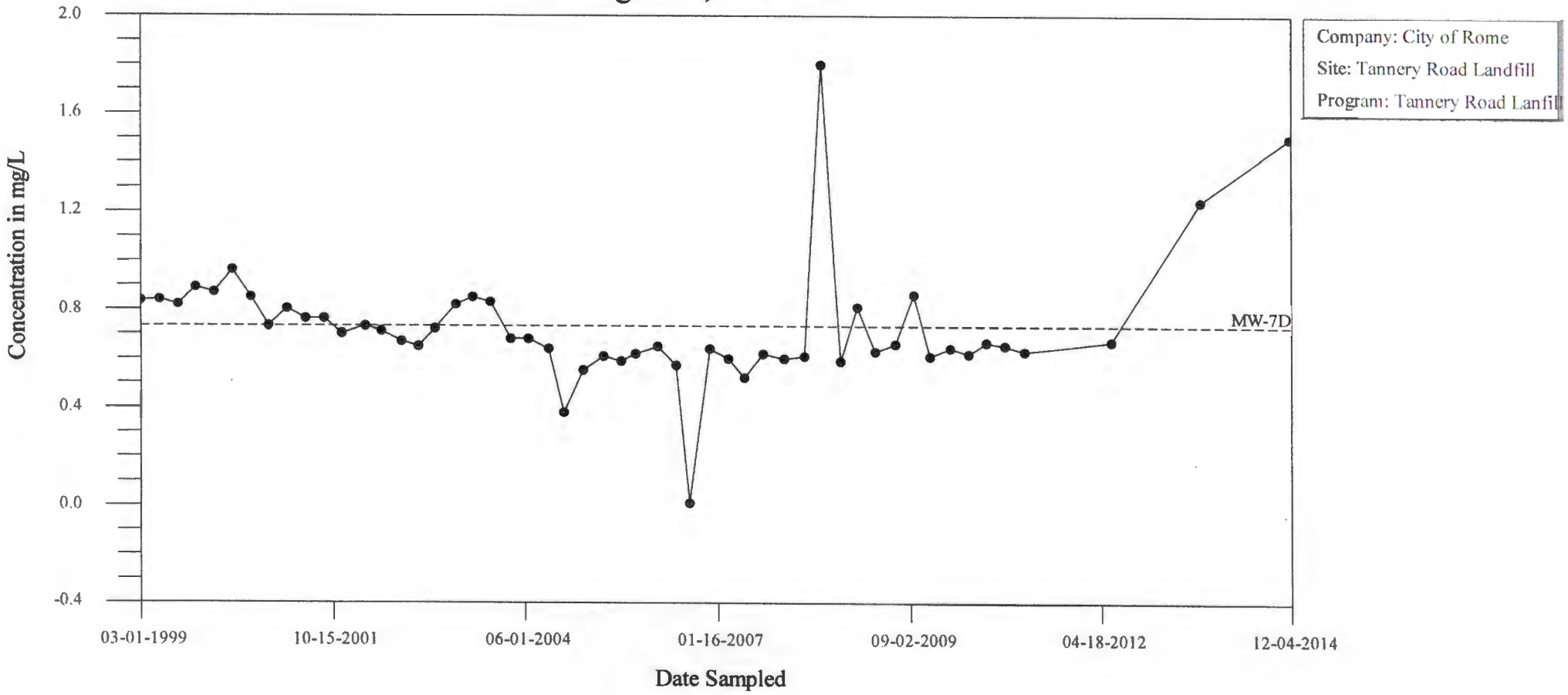
Time-Series Plot

Chloride, MW-7D



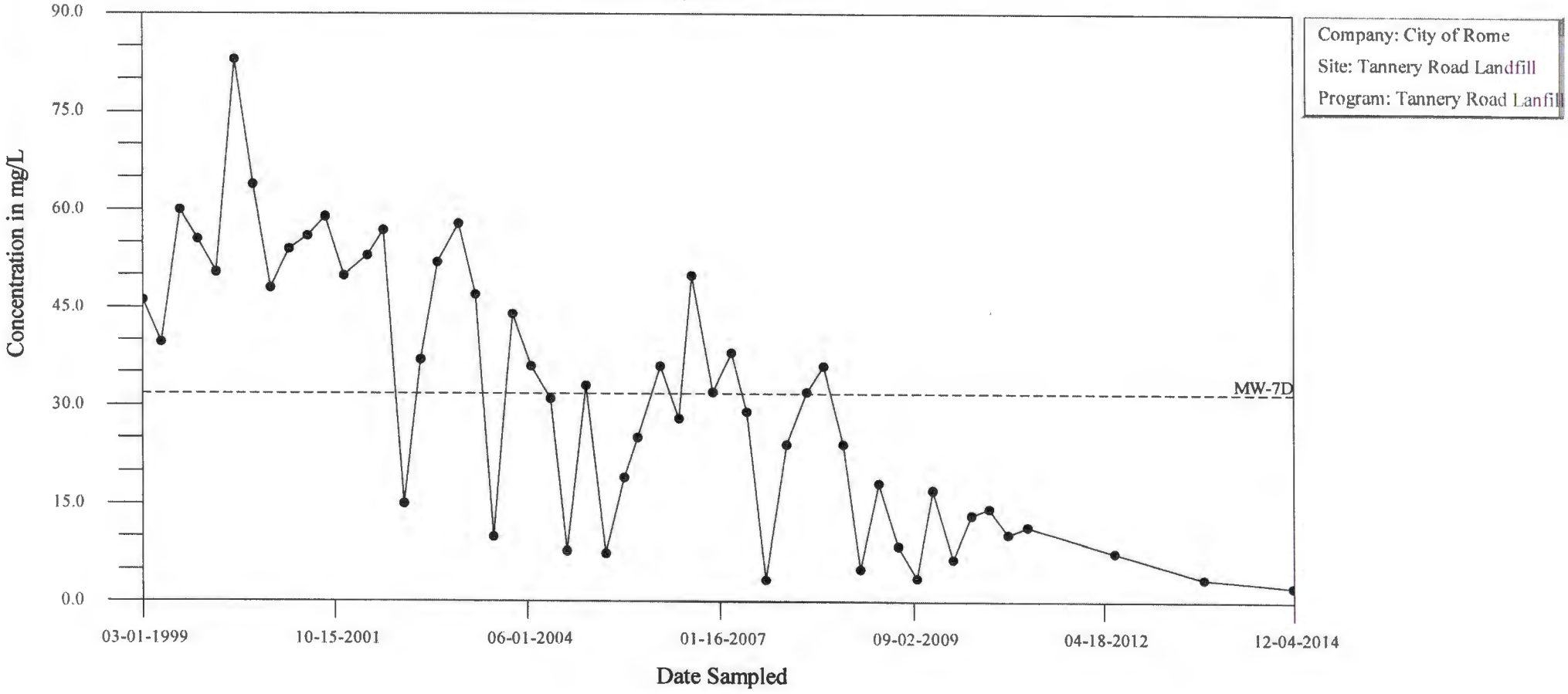
Time-Series Plot

Manganese, MW-7D



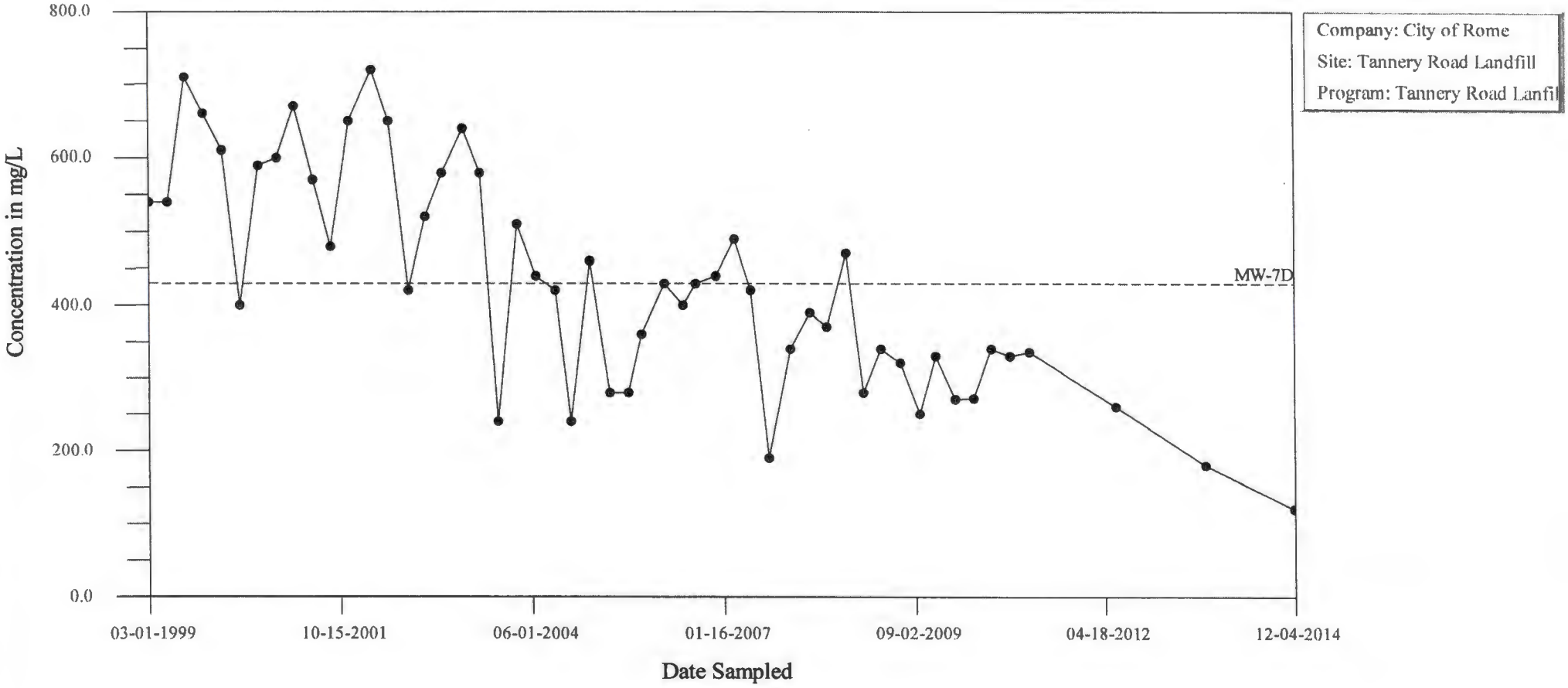
Time-Series Plot

Sodium, MW-7D



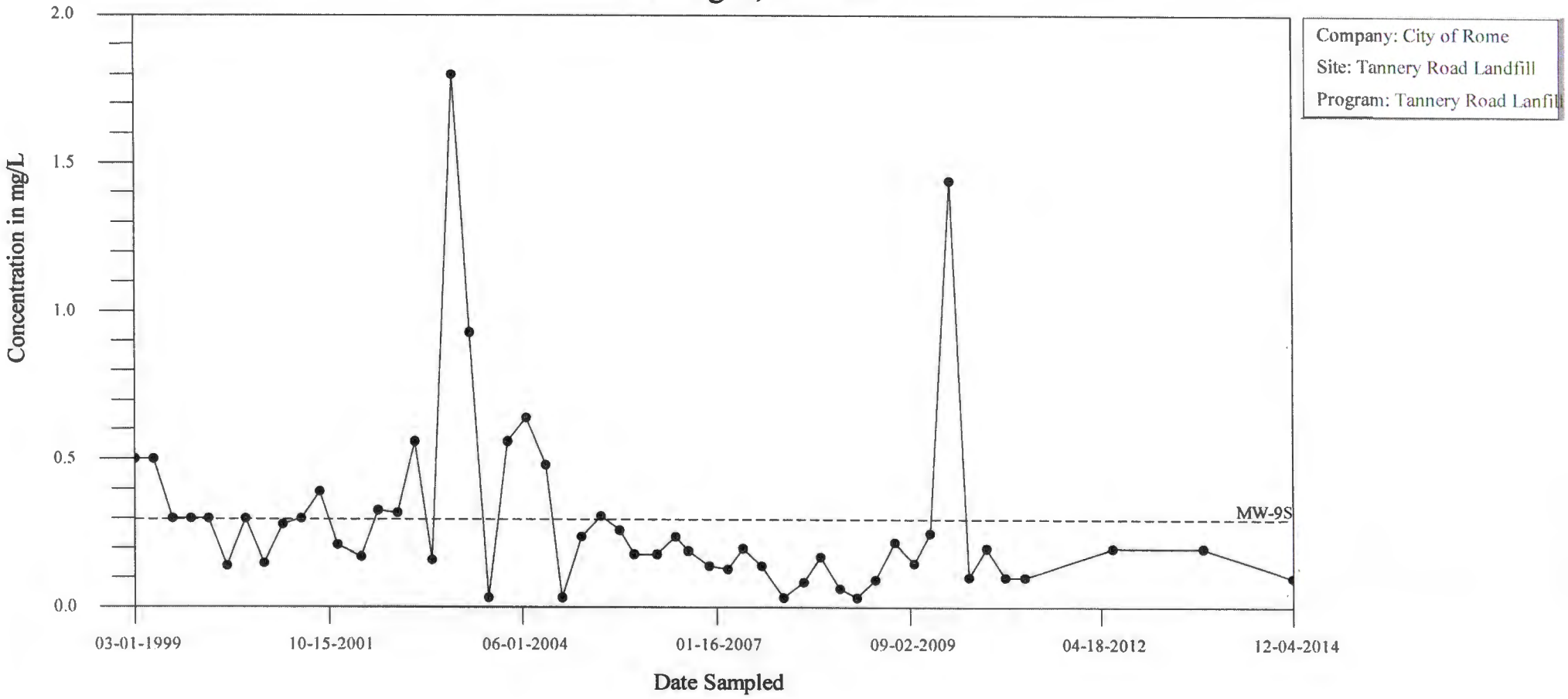
Time-Series Plot

Total Dissolved Solids, MW-7D



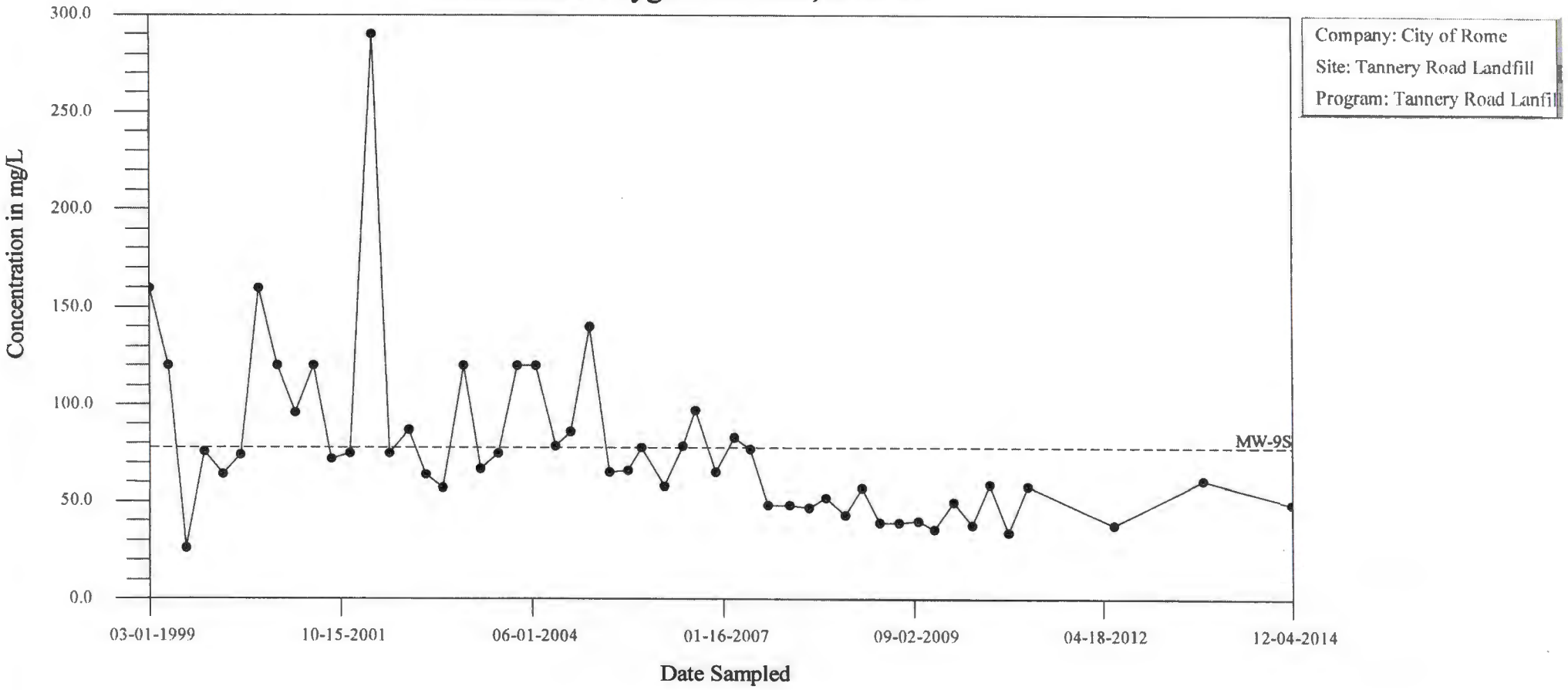
Time-Series Plot

Ammonia-Nitrogen, MW-9S



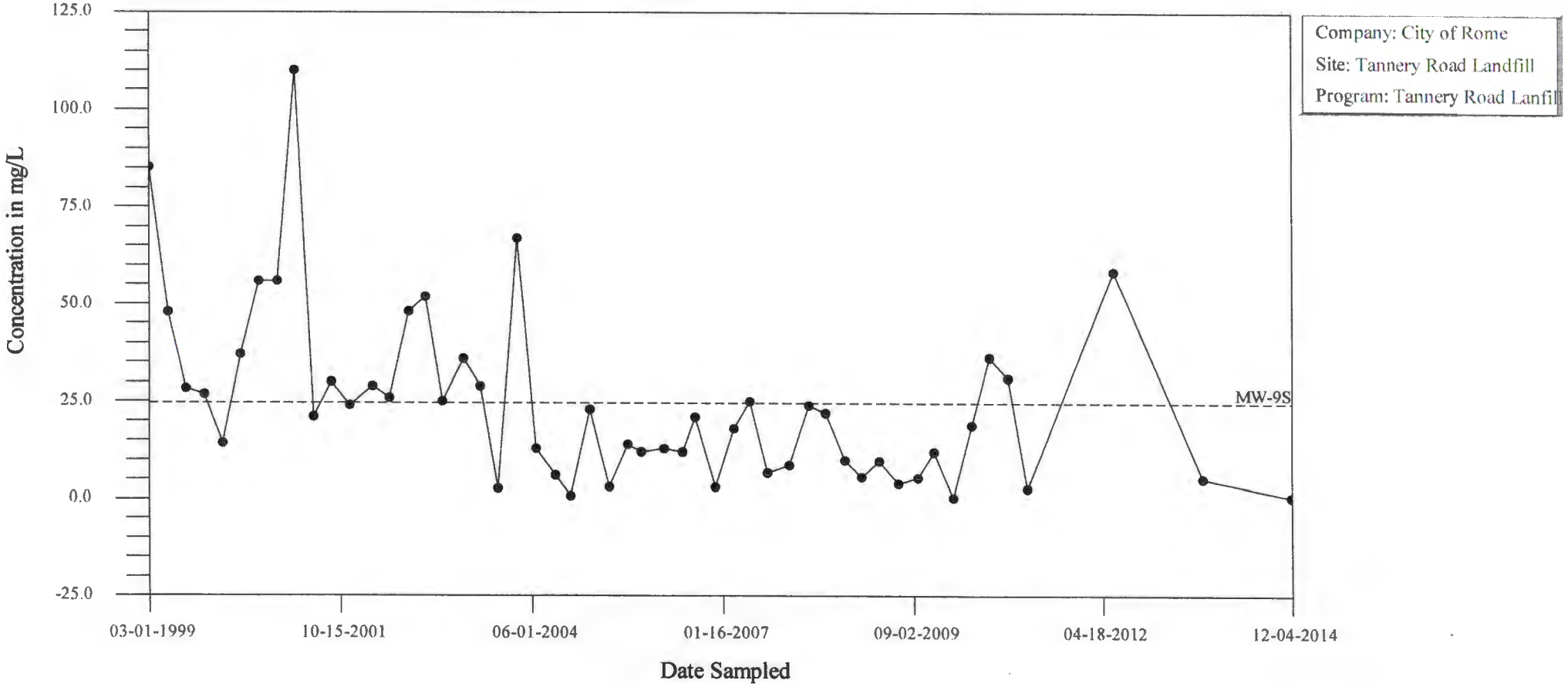
Time-Series Plot

Chemical Oxygen Demand, MW-9S



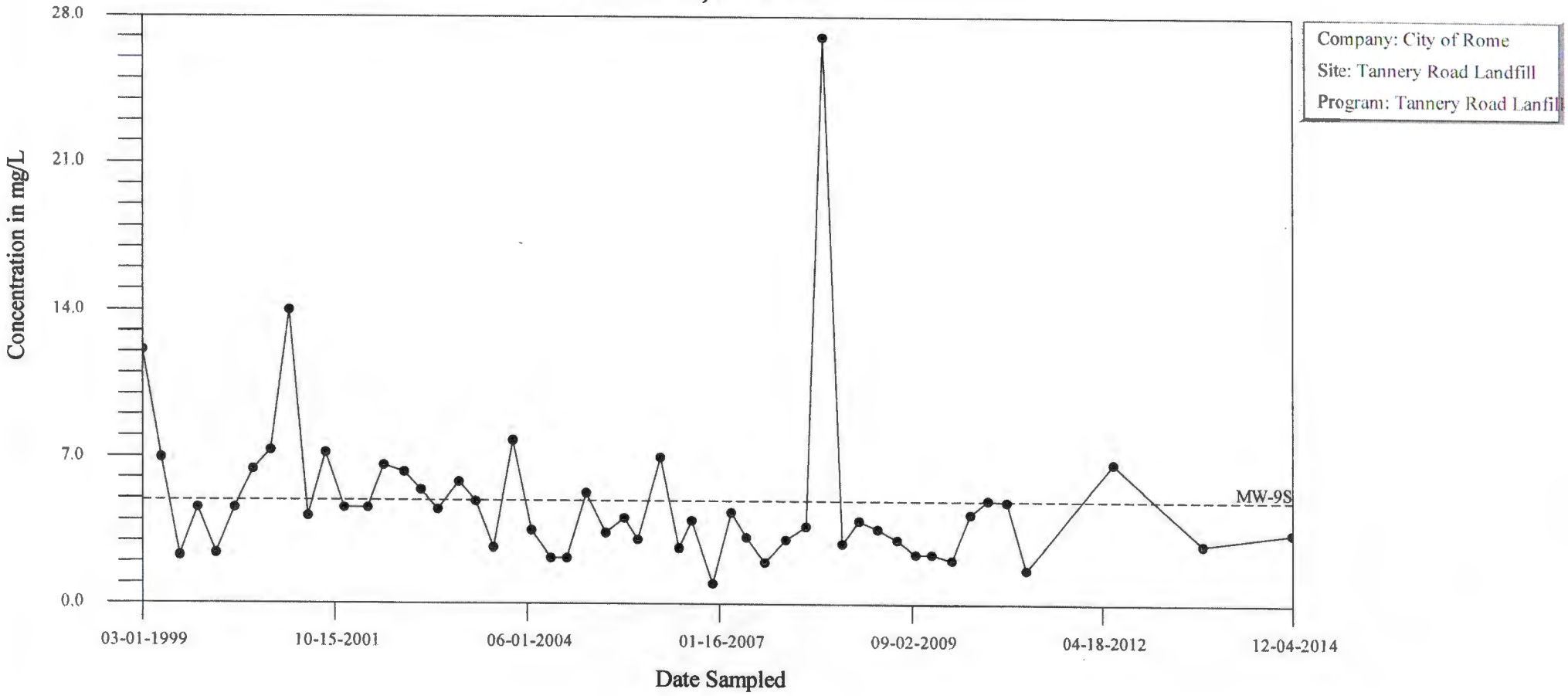
Time-Series Plot

Iron, MW-9S



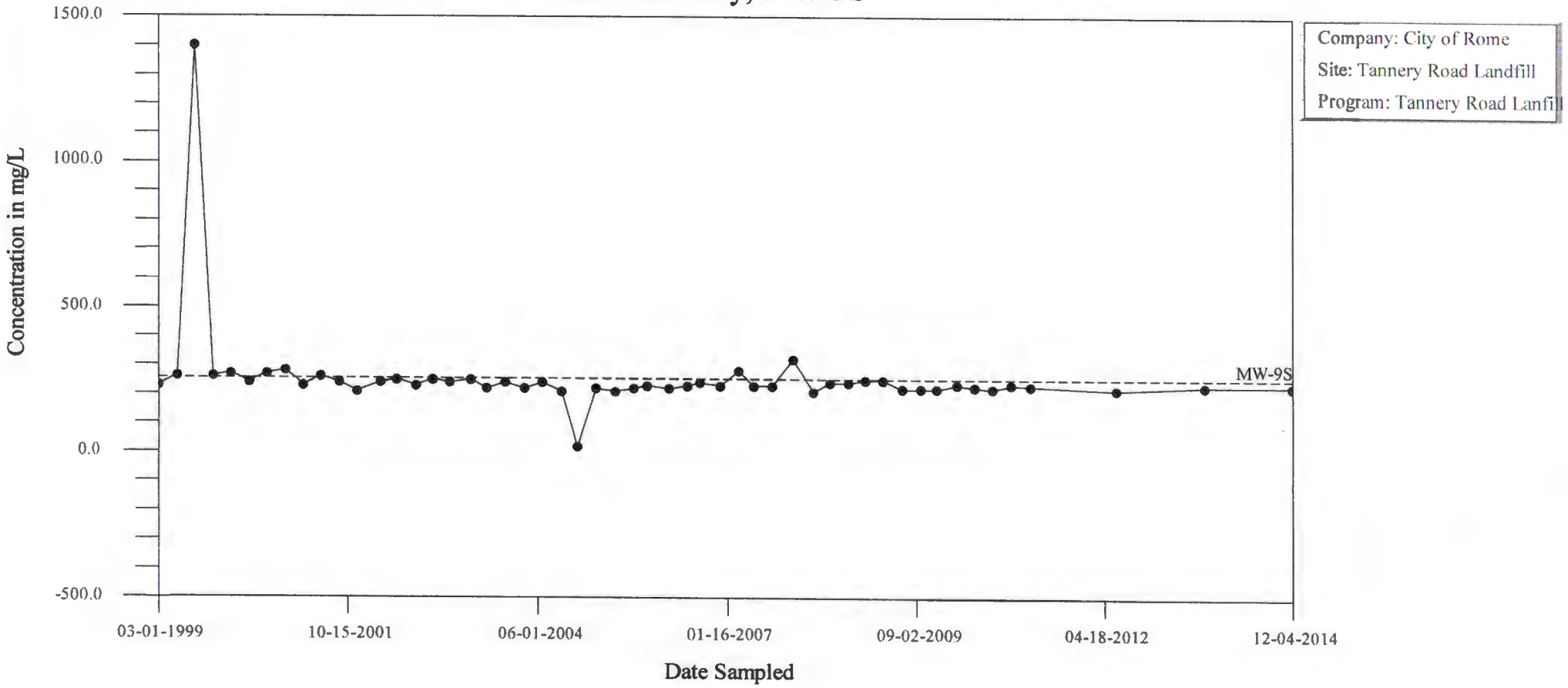
Time-Series Plot

Potassium, MW-9S



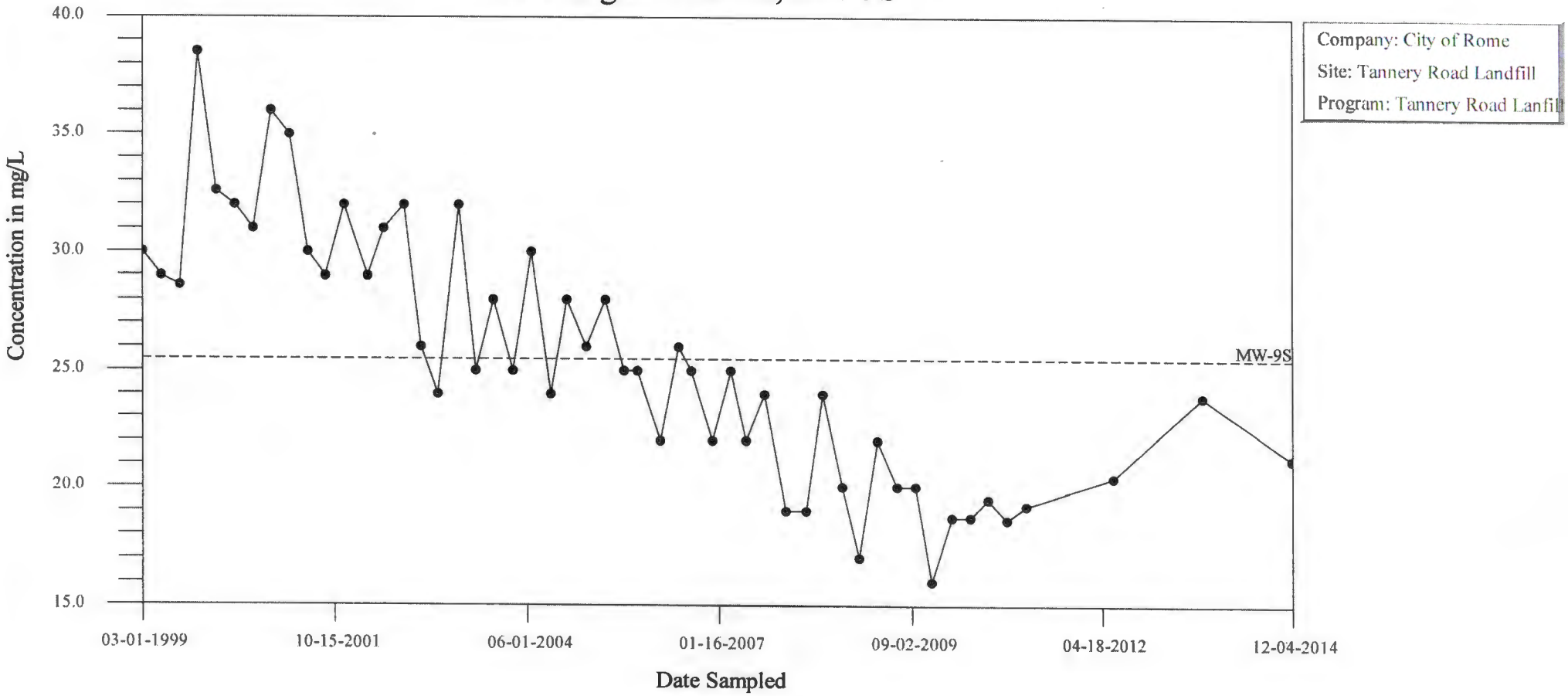
Time-Series Plot

Total Alkalinity, MW-9S



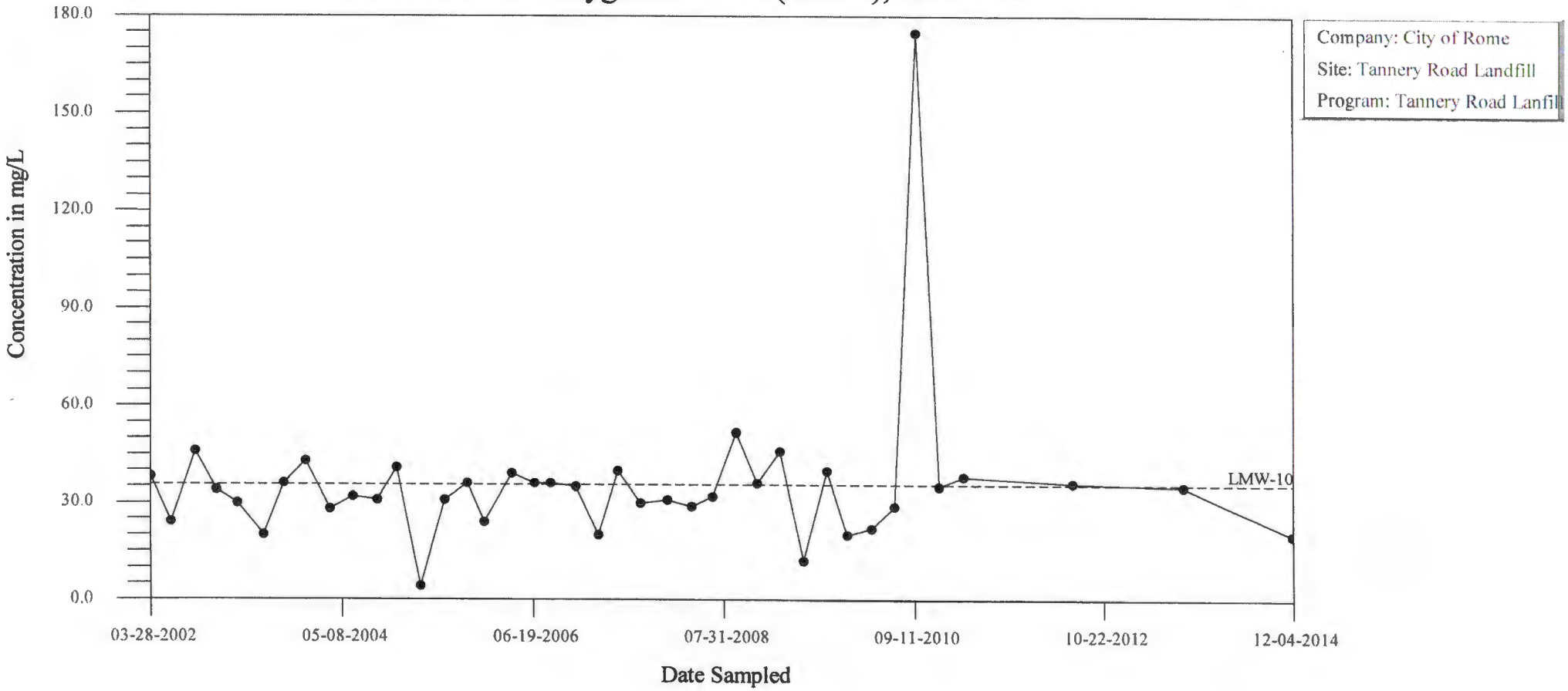
Time-Series Plot

Total Organic Carbon, MW-9S



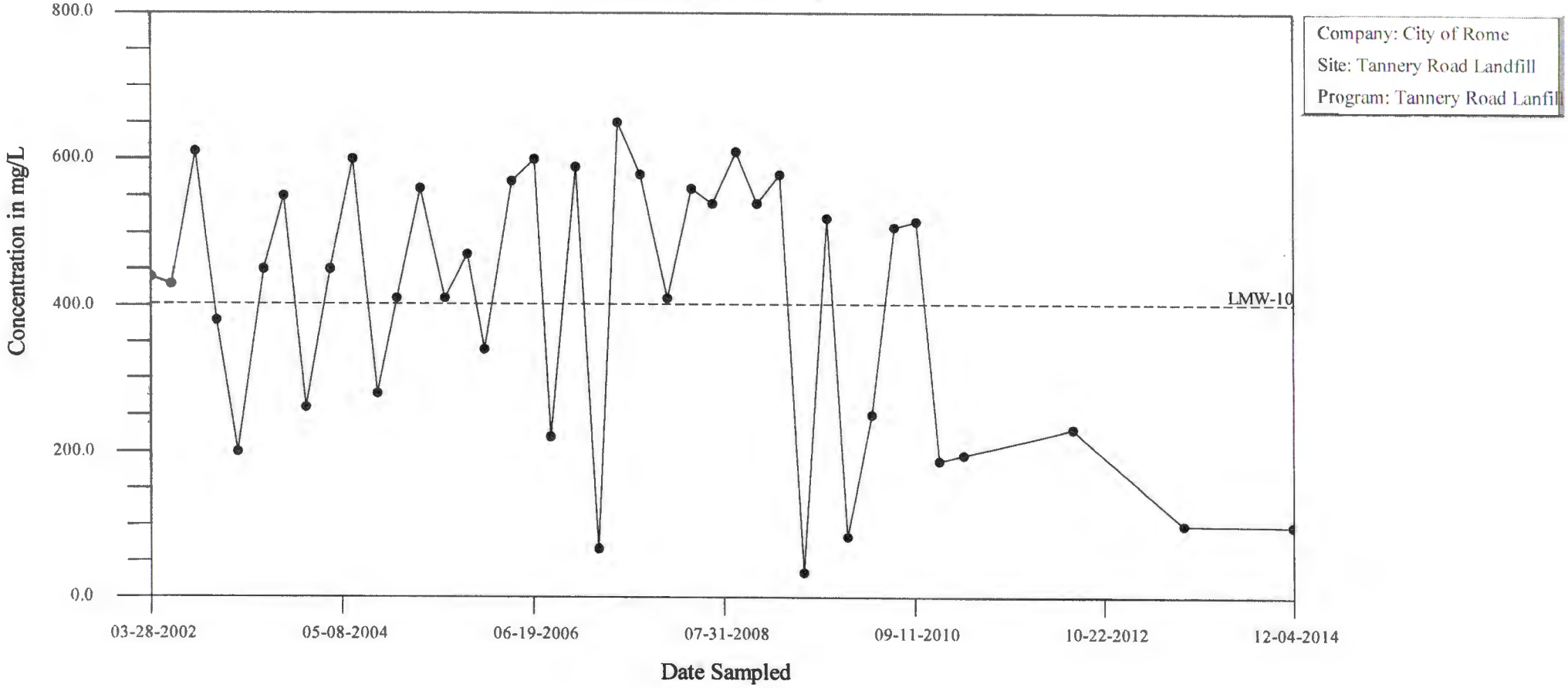
Time-Series Plot

Biochemical Oxygen Demand (BOD5), LMW-10



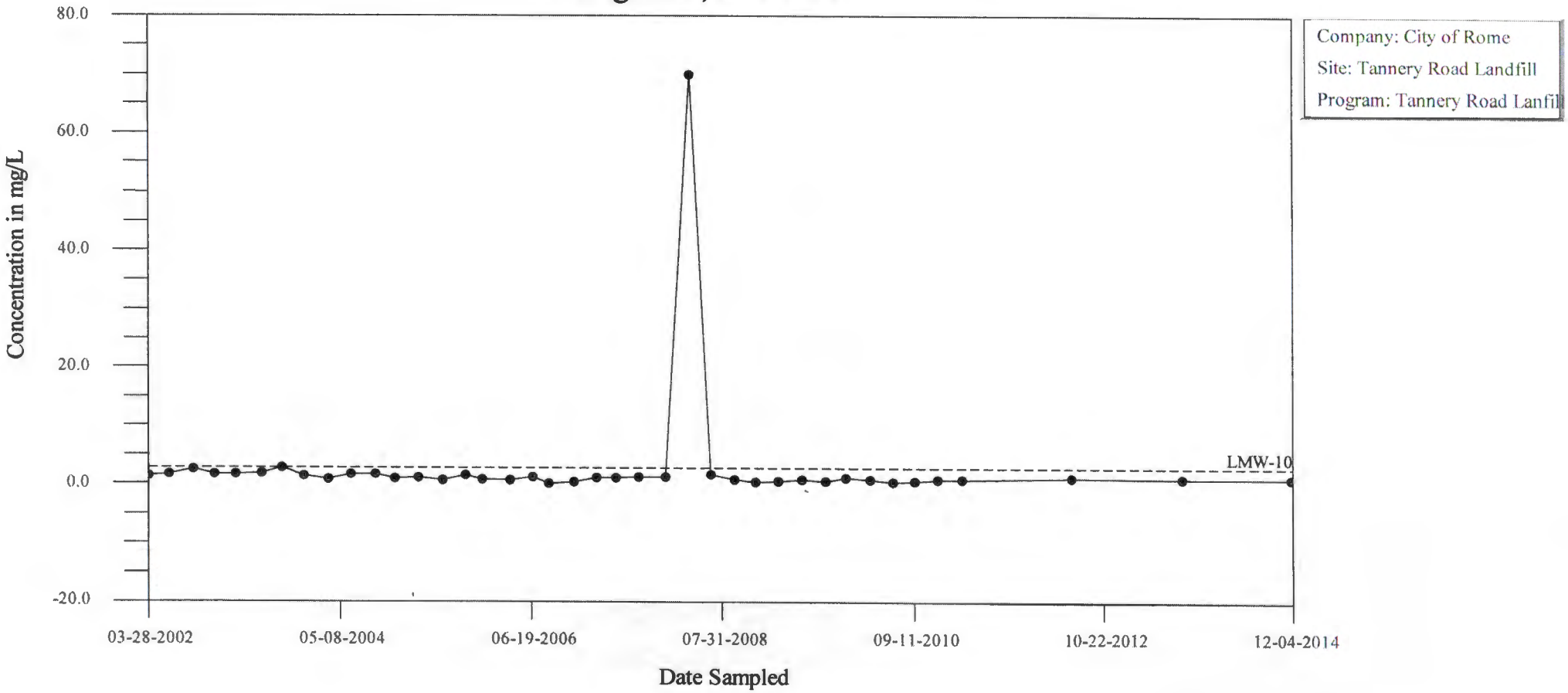
Time-Series Plot

Chloride, LMW-10



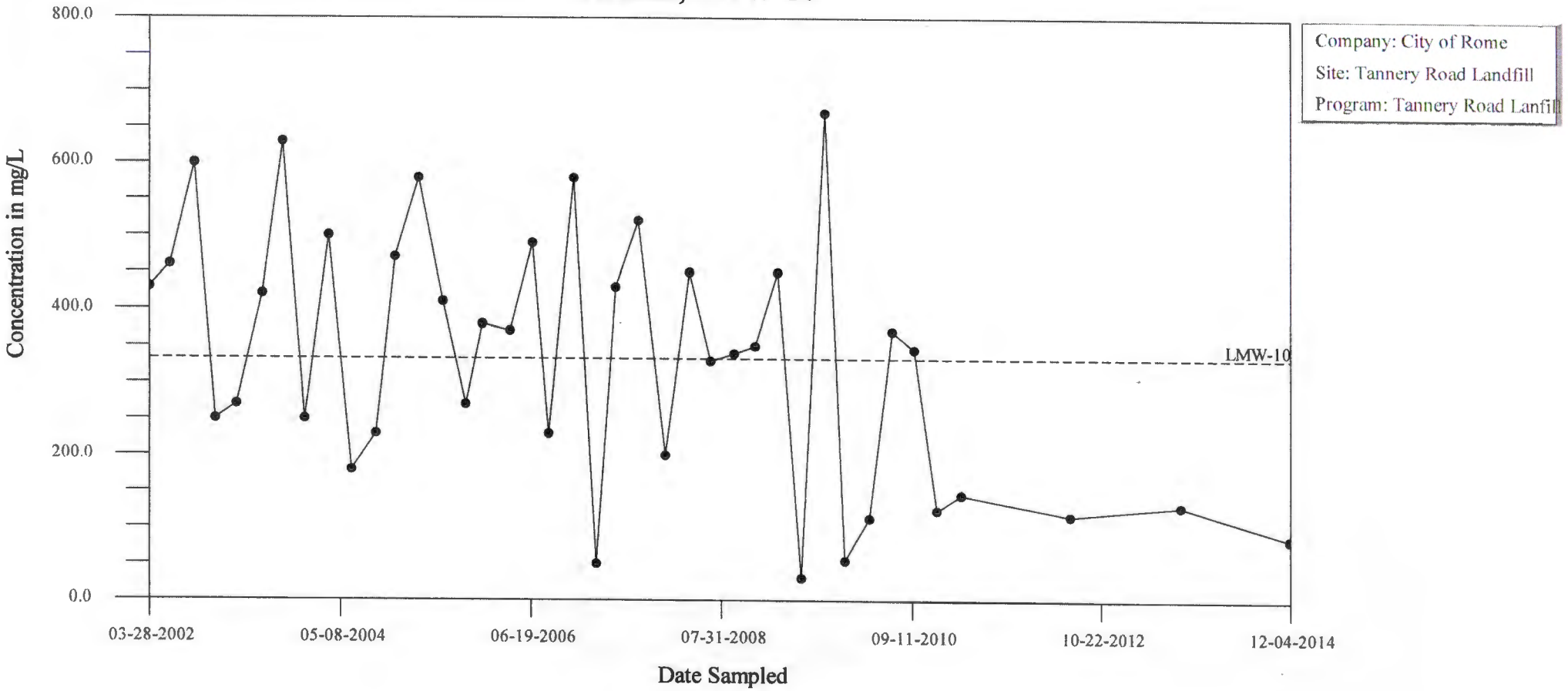
Time-Series Plot

Manganese, LMW-10



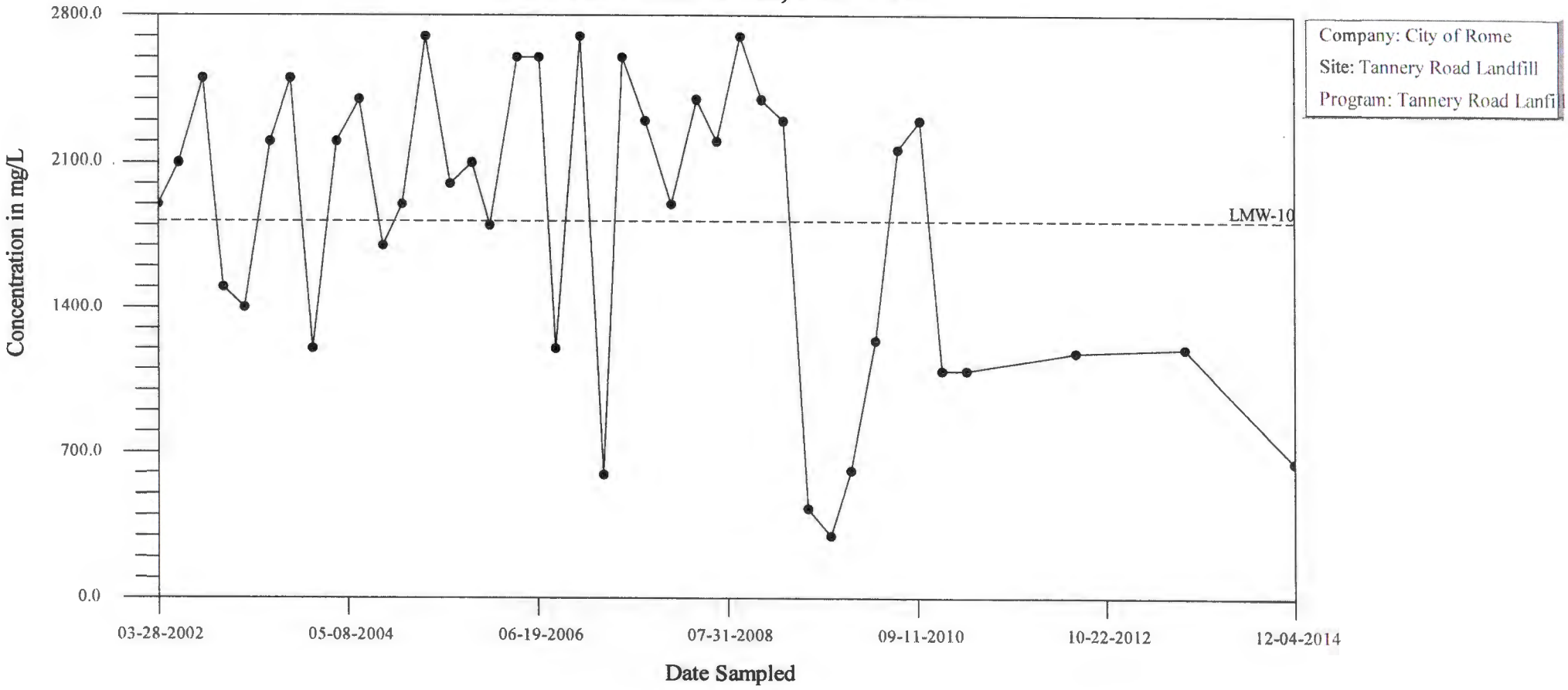
Time-Series Plot

Sodium, LMW-10



Time-Series Plot

Total Dissolved Solids, LMW-10

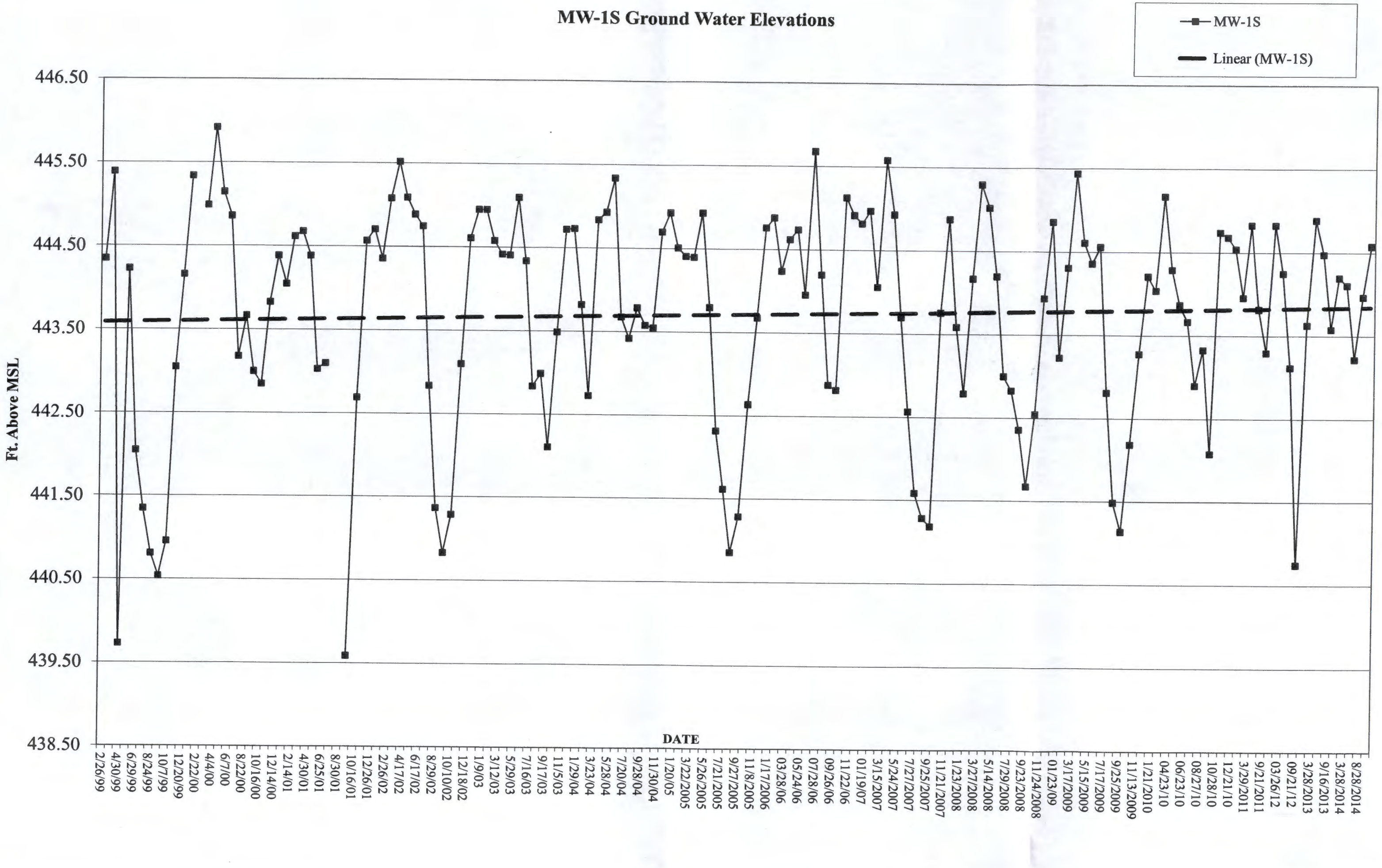


APPENDIX C

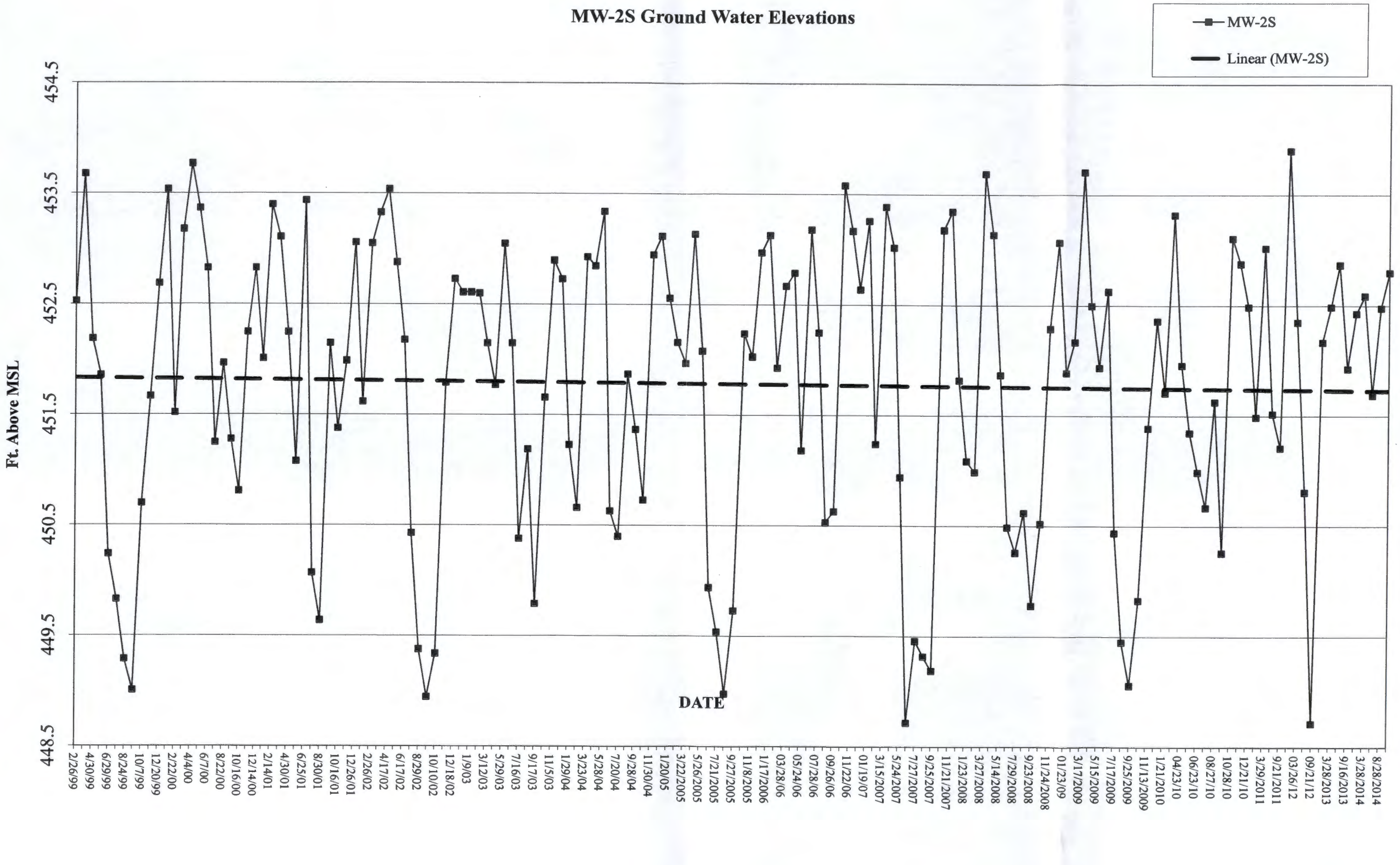
MONITORING WELL AND LEACHATE WELL

GROUND WATER ELEVATION GRAPHS

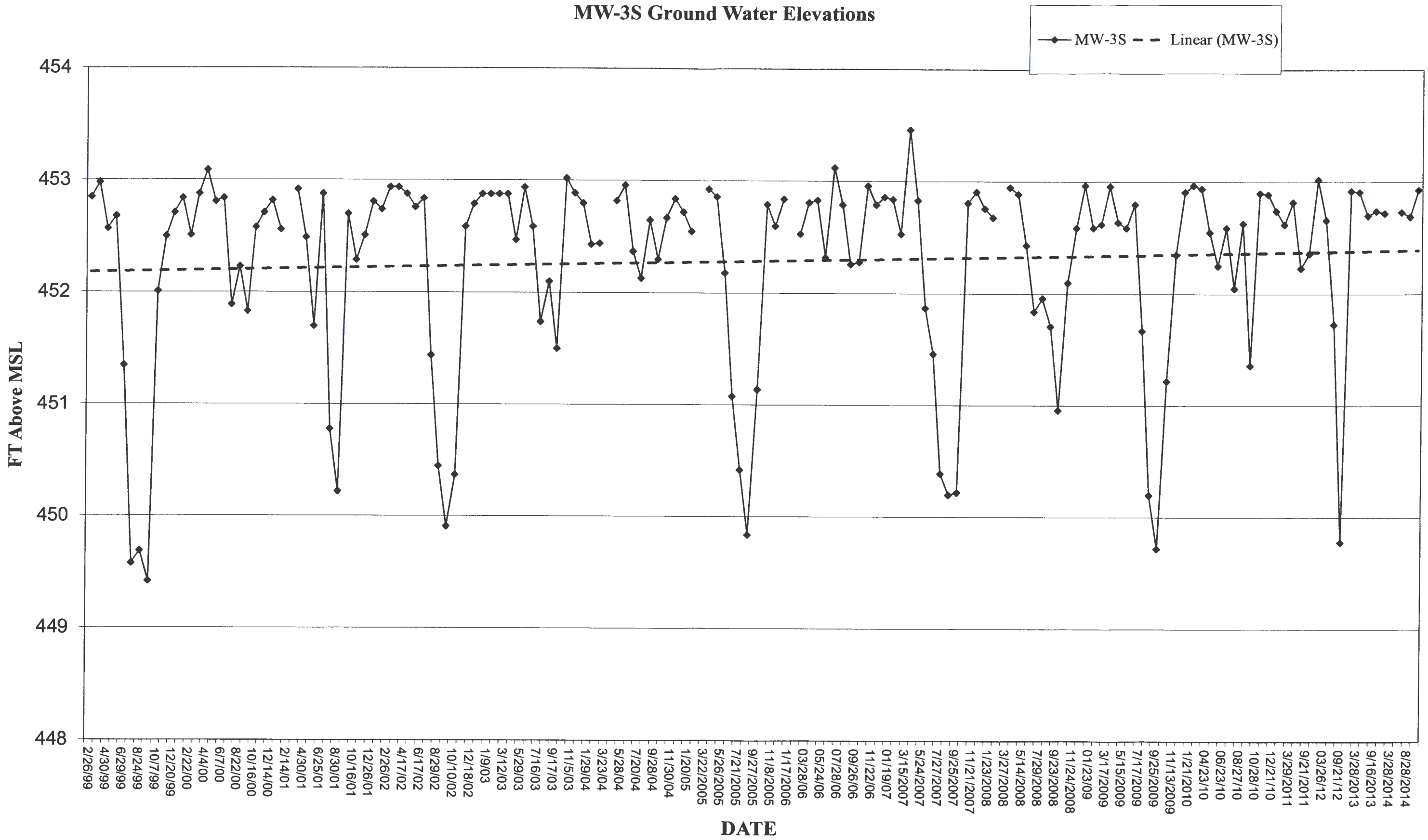
MW-1S Ground Water Elevations



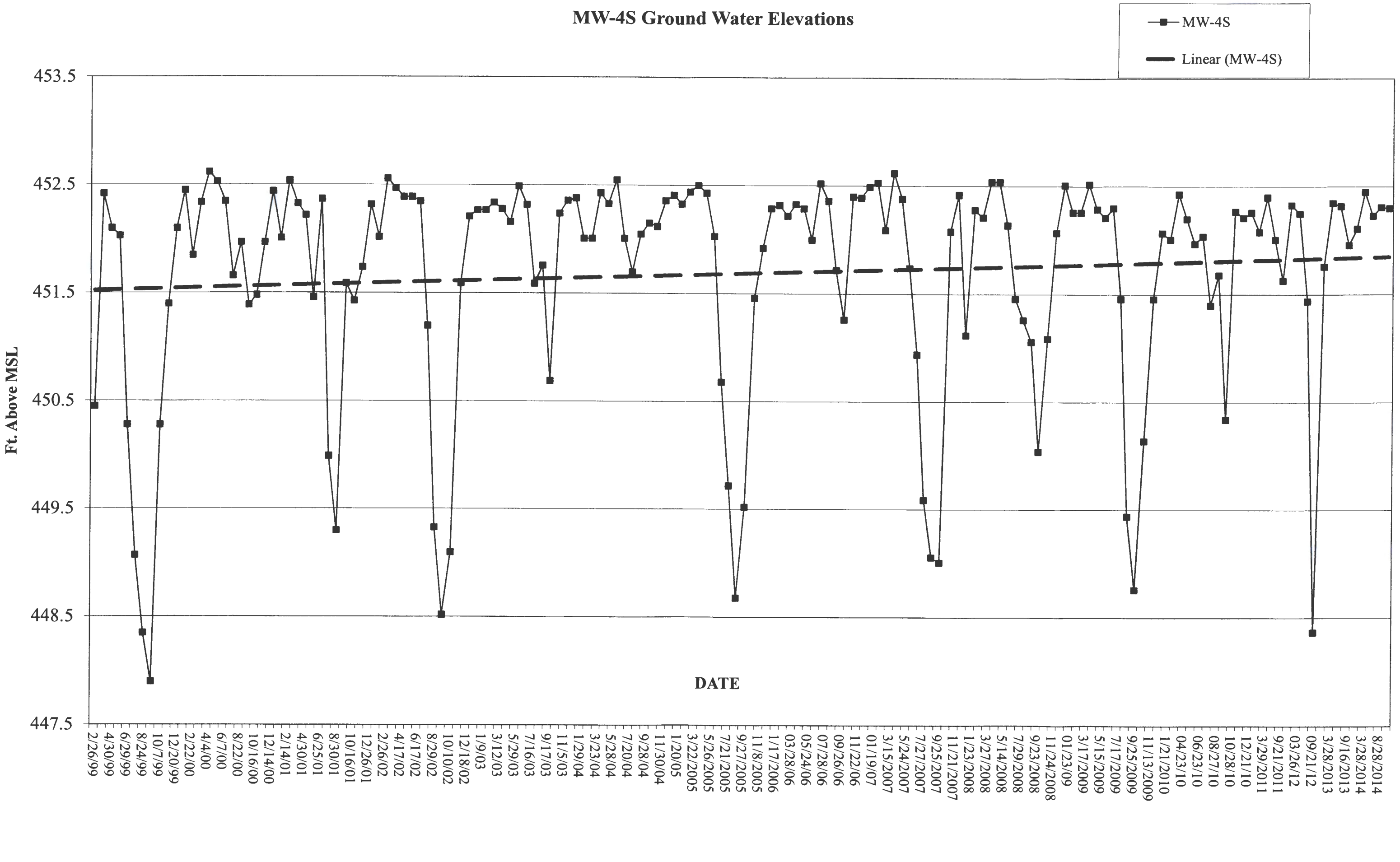
MW-2S Ground Water Elevations



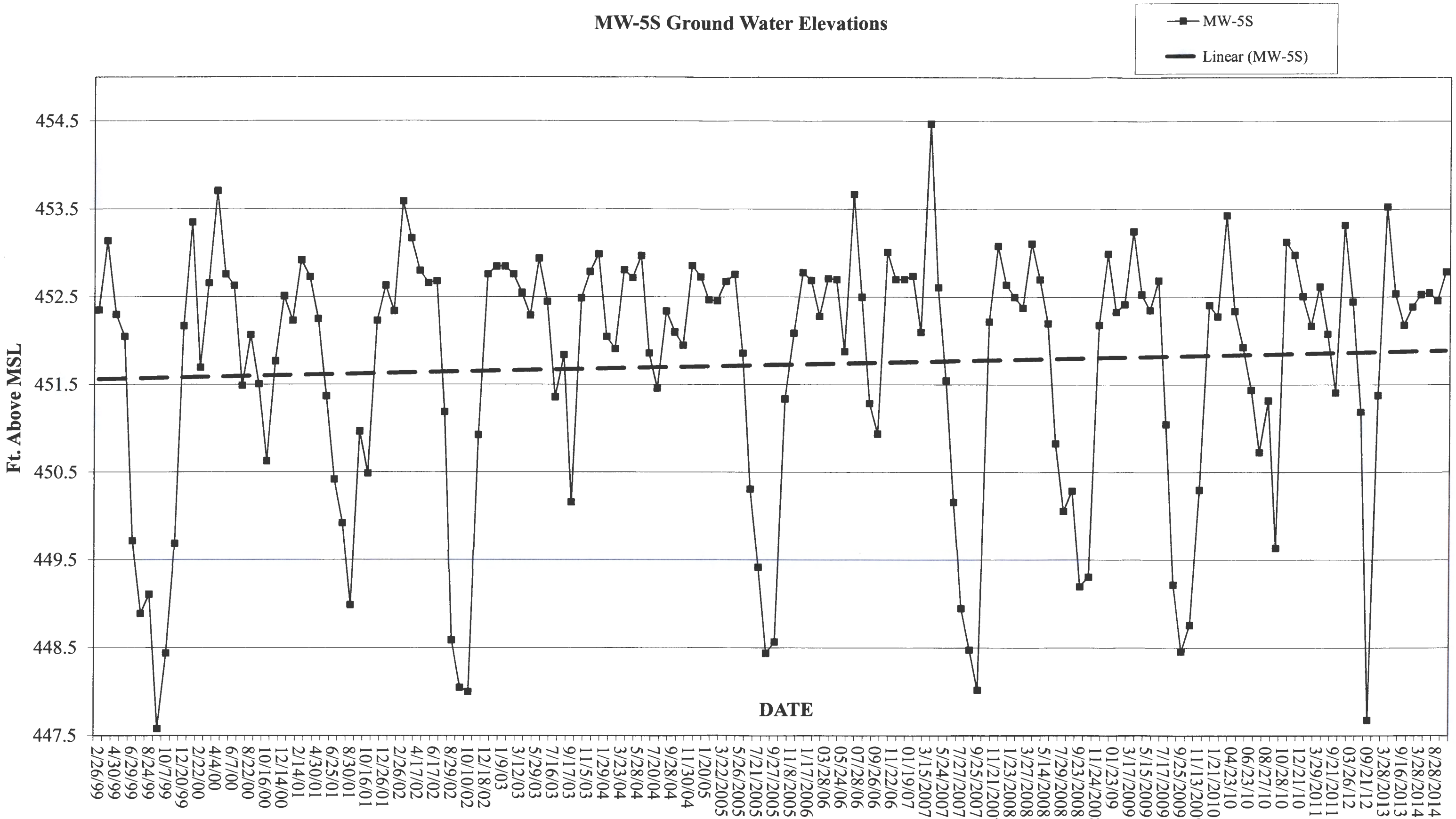
MW-3S Ground Water Elevations



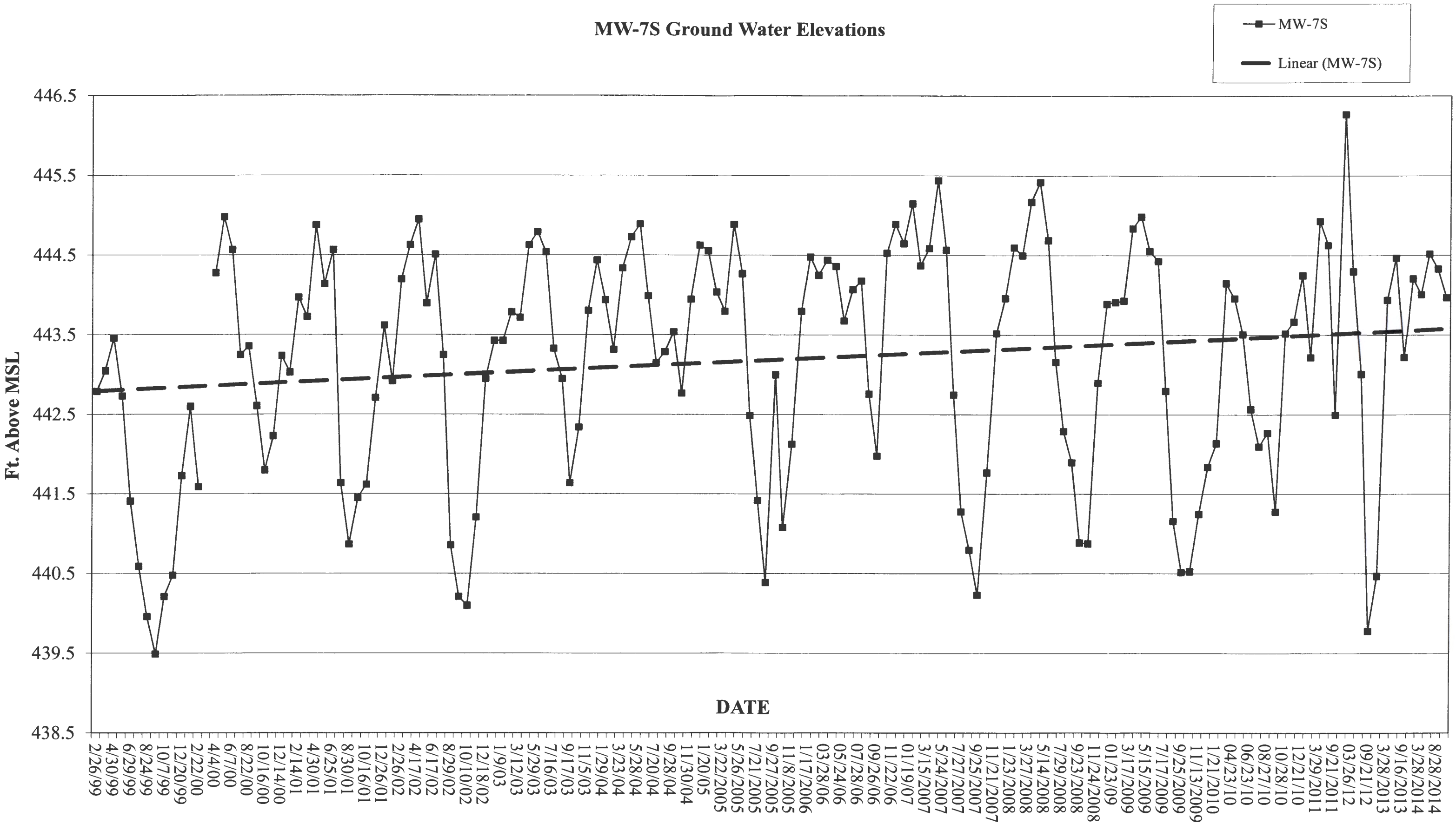
MW-4S Ground Water Elevations



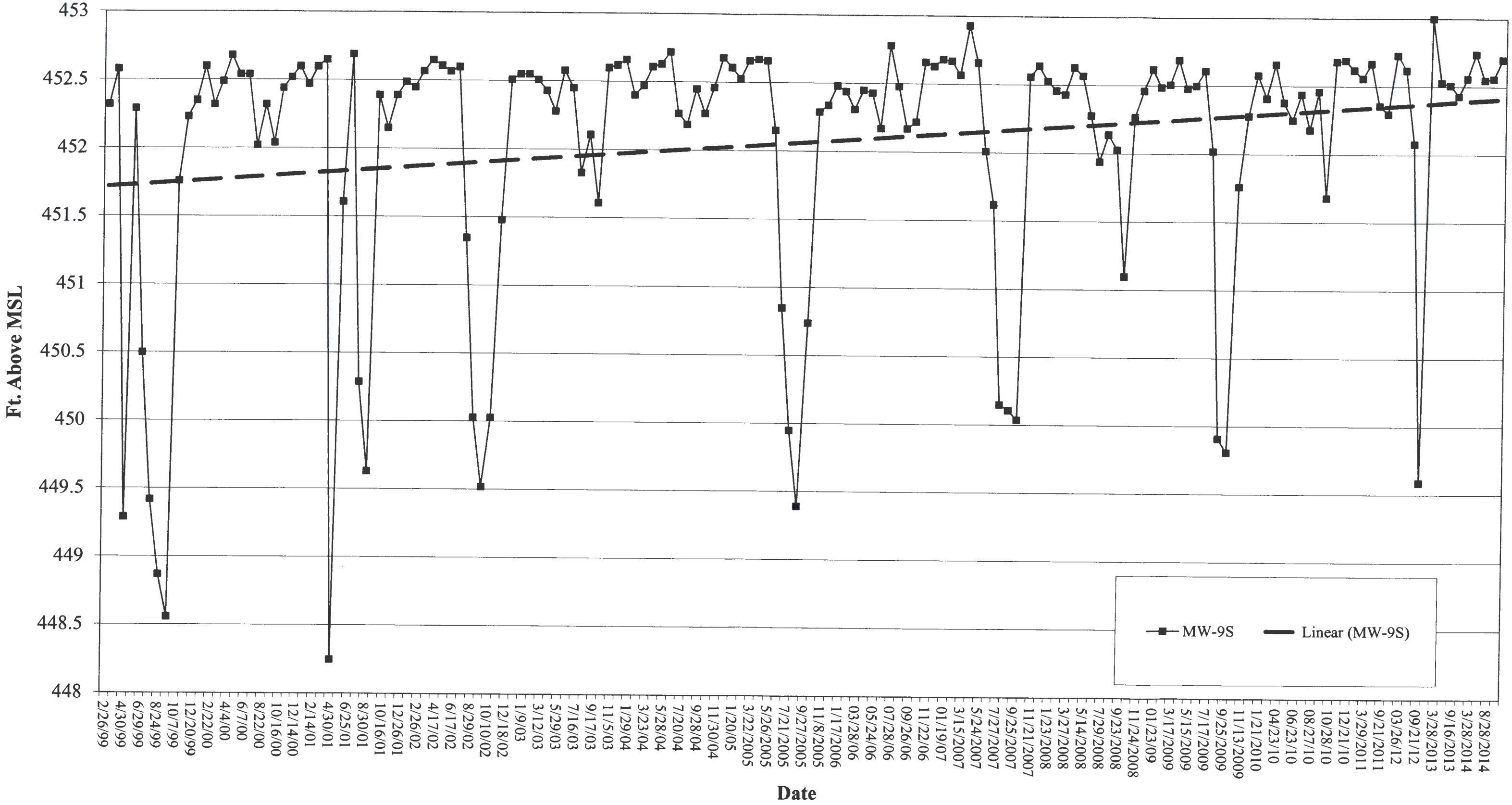
MW-5S Ground Water Elevations



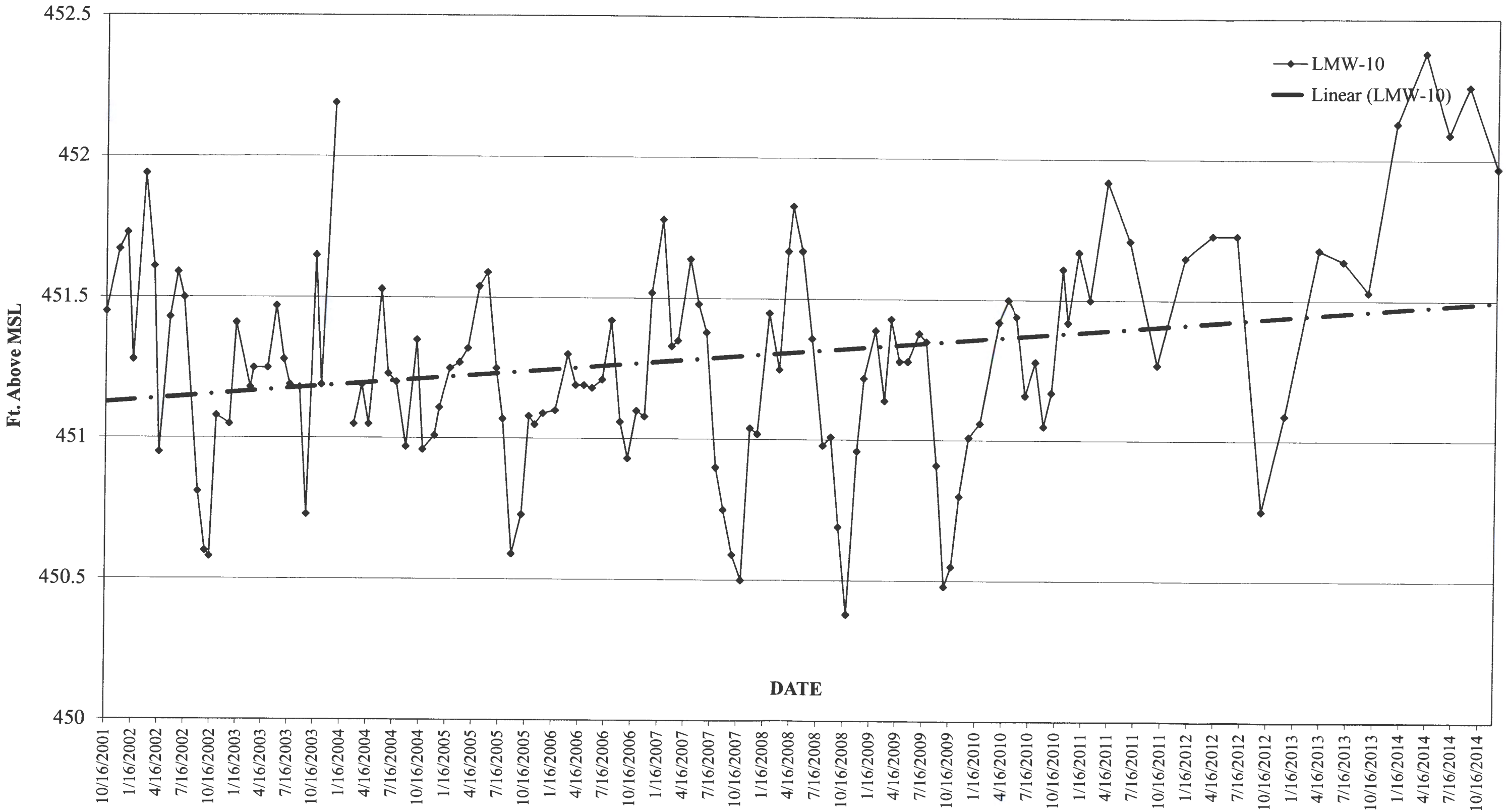
MW-7S Ground Water Elevations



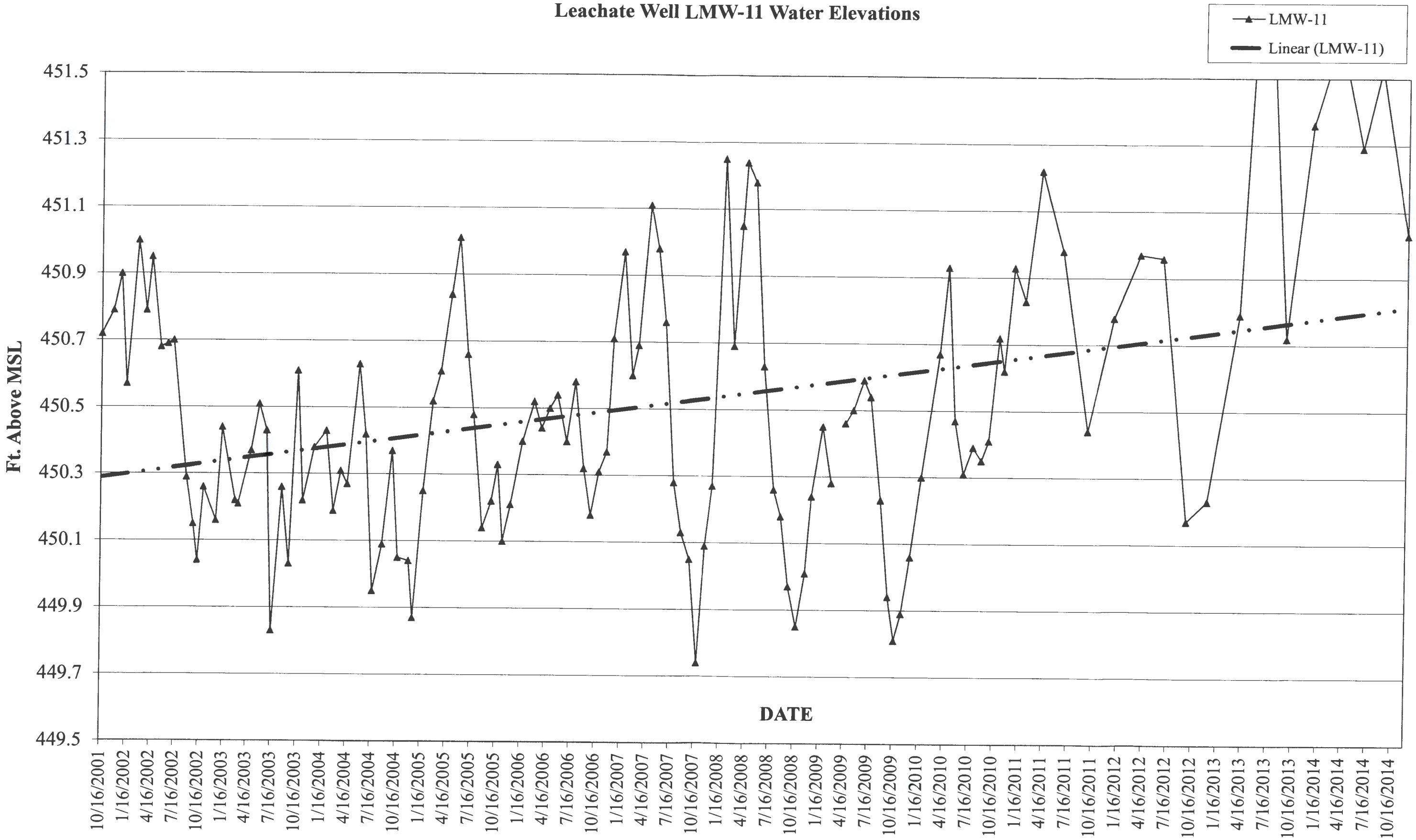
MW-9S Ground Water Elevations

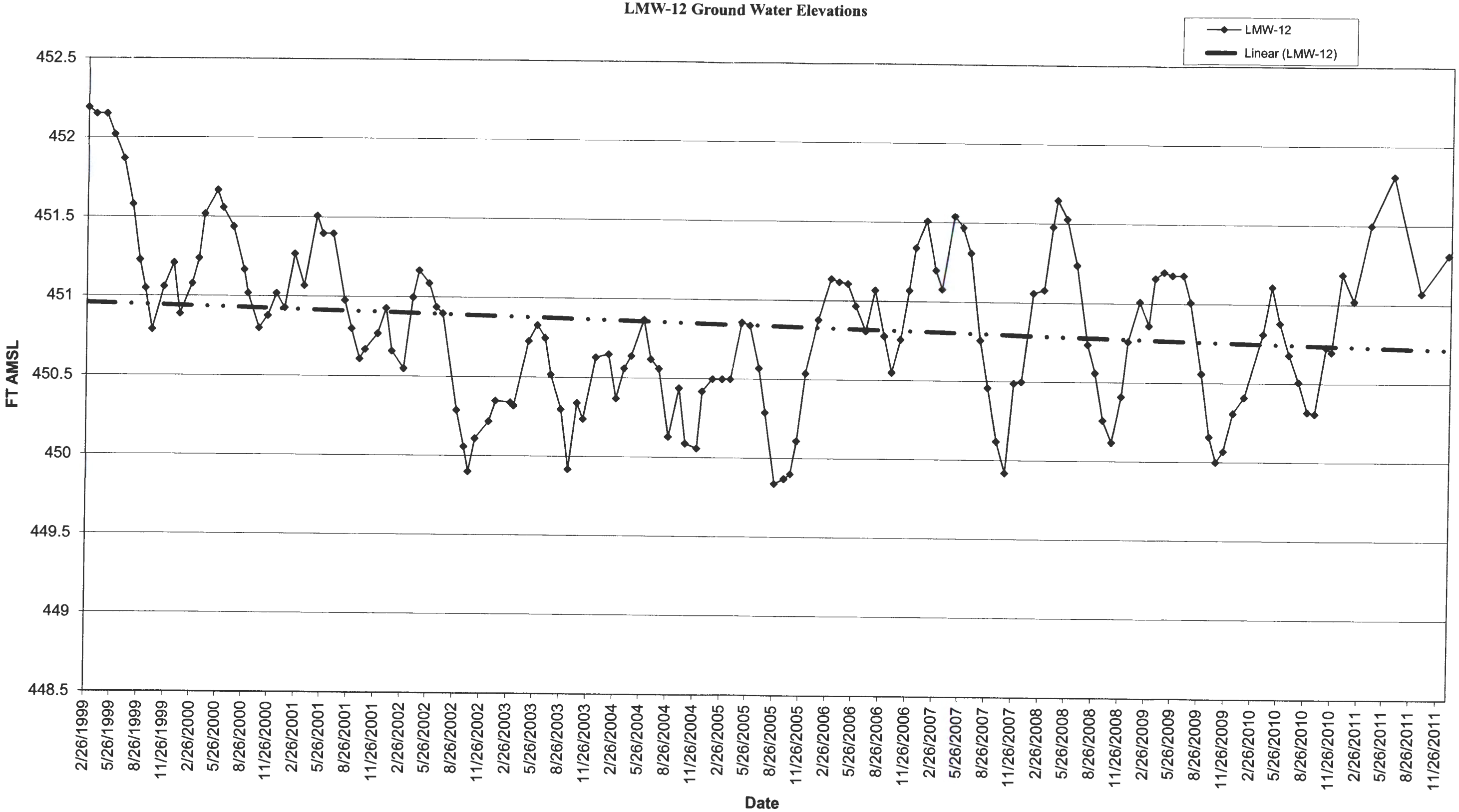


Leachate Well LMW-10 Water Elevations



Leachate Well LMW-11 Water Elevations




LMW-12 Ground Water Elevations
LMW-12
Linear (LMW-12)
FT AMSL
452.5
452
451.5
451
450.5
450
449.5
449
448.5
2/26/1999
5/26/1999
8/26/1999
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2/26/2010
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11/26/2010
2/26/2011
5/26/2011
8/26/2011
11/26/2011
Date

APPENDIX D

QUARTERLY INSPECTION FORMS

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/28/14 Inspector: Brent Zimmer
Weather: Sunny

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	(OK)	North Gate off Hinges
Access Road - surface/paving/snow	(OK)	Snow/Mud
Overall appearance (trash/litter)	OK	Good
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 103567	Pump #2 Hours: 087924	
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	4538600	RW-3	4752300
RW-2	4028600	RW-4	missing

Hour Meters

RW-1	196865	RW-3	865884
RW-2	761243	RW-4	284015

Landfill Cover Inspection			
Leachate seeps Any new seeps	NO	If YES, describe:	Snow covered
Western seep condition:			Drifted
North seep condition:			Drifted
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:	Snow covered

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/28/14 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	5.48	444.11	Good
MW - 2S	459.44	6.85	452.59	Good
MW - 3S	456.4	~~6.85~~	=	Frozen
MW - 4S	456.19	3.74	452.45	Good
MW - 5S	457.15	4.62	452.53	Good
MW - 7S	452.25	8.24	444.01	Good
MW - 7D	451.79	8.59	443.20	Good
MW - 9S	456.38	3.64	452.74	Good
MW - 10	486.3	33.92	452.38	Good
MW - 11	502.4	50.78	451.62	Missing Cover
MW - 12	483.11			Obstruction 22.64
PZ - 1*	454.37	6.23	448.14	Good

NOTES: 6.87 2D

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/20/14 Inspector: EGF

Weather: Sunny 70° 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: 104928 Pump #2 Hours: 089019

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 4538600 RW-3 4811900

RW-2 4291200 RW-4 Disconnected

Hour Meters

RW-1 196865 RW-3 885463

RW-2 775294 RW-4 284015

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:

Western seep condition: slight

North seep condition: Not apparent

Gas vents - general condition OK

- Unusual odors, list vents/describe.

Flares ignited OK None

Perimeter fence OK except northern man gate off hinges

Erosion/animal burrows NO If YES, describe:

1. Erosion southern man gate
2. Erosion south side LF east of RW3 downschute
3. Erosion several other areas around tac-on berms. see attached sheet for locations

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/20/14 Inspector: EGV

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.27		
MW - 2S	459.44	7.75		
MW - 3S	456.4	3.67		
MW - 4S	456.19	3.96		
MW - 5S	457.15	4.60		
MW - 7S	452.25	7.73		
MW - 9S	456.38	3.83		
MW - 10	486.3	34.21		
MW - 11	502.4	51.11		
MW - 12	483.11	unable to get water level meter by obstruction/bent casing at 22.70 ft.		
PZ - 1	454.37	6.14		

NOTES: 7D 7.90
5D 5.62

Man gate North side by MW-2 cluster down

2D 7.0
5D 4.62

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/28/2014 Inspector: Brent Zimmer
Weather: Sony

GENERAL INSPECTION - To Be Completed Monthly

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

Pump #1 Hours: 10562.6 Pump #2 Hours: 8959.2

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 4538600 RW-3 4925600
RW-2 4347200 RW-4 Removed

Hour Meters

RW-1 1968.5 RW-3 9016.3.5
RW-2 7763.0.2 RW-4 2840.5

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 North Gate off Hinges
Erosion/animal burrows (NO) If YES, describe:

* Took 1 pictures to document locations of erosion of the toe on berm georeferenced

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/28/2014 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	5.62	443.97	Good
MW - 2S	459.44	6.96	452.48	Good
MW - 3S	456.4	3.71	452.69	Good
MW - 4S	456.19	3.88	452.31	Good
MW - 5S	457.15	4.69	452.46	Good
MW - 7S	452.25	7.92	444.33	Good
MW - 7D	451.79	8.26	443.53	Good
MW - 9S	456.38	3.82	452.56	Good
MW - 10	486.3	34.04	452.26	Good
MW - 11	502.4	50.87	451.53	Good
MW - 12	483.11	—	—	Obstruction 22.63
PZ - 1*	454.37	6.14	448.23	Good

NOTES: MW-20 6.99

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/4/14 Inspector: EAF

Weather: cloudy 30°F

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: 106436 Pump #2 Hours: 090252

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	1&4 non operational
Meter Pit - open lid, check heater, leaks, etc.	OK	OK
Panel note conditions and any alarms:	OK	OK

Totallizers (in meter pit)

RW-1 45386 RW-3 506900

RW-2 441/3000 RW-4 Disconnected

Hour Meters

RW-1 19865 RW-3 911541

RW-2 006015 RW-4 284013

Landfill Cover Inspection

Leachate seeps Any new seeps (NO) If YES, describe:

Western seep condition: Not apparent

North seep condition: Not apparent

Gas vents - general condition (OK)

- Unusual odors, list vents/describe.

Flares ignited NO OK

Perimeter fence OK OK except Northern gate MW2

Erosion/animal burrows NO If YES describe:

See attached figure

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/4/14 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	5.01		
MW - 2S	459.44	6.64		
MW - 3S	456.4	3.47		
MW - 4S	456.19	3.89		
MW - 5S	457.15	4.36		
MW - 7S	452.25	8.28		
MW - 9S	456.38	3.68		
MW - 10	486.3	34.33		
MW - 11	502.4	57.37		
MW - 12	483.11	—		
PZ - 1	454.37	5.52		

NOTES:

7D 8.82
1D 5.51
5D 4.39
2D 6.69

APPENDIX E

LABORATORY REPORTING SHEETS

Adirondack Environmental Services, Inc.

Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

December 29, 2014

Ed Fahrenkopf
Delaware Engineering
28 Madison Avenue Ext.
Albany, NY 12203

TEL: (518) 452-1290
FAX: (518) 452-1335

Work Order No: 141204076

RE:

Dear Ed Fahrenkopf:

Adirondack Environmental Services, Inc received 8 samples on 12/4/2014 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Christopher Hess
QA Manager

Adirondack Environmental Services, Inc — CASE NARRATIVE

CLIENT: Delaware Engineering **Date:** *29-Dec-14*

Project:

Lab Order: 141204076

Sample containers were supplied by Adirondack Environmental Services.

Qualifiers:

- ND - Not Detected at reporting limit
- J - Analyte detected below quantitation limit
- B - Analyte detected in Blank
- X - Exceeds maximum contamination limit
- H - Hold time exceeded
- C - Details are above in Case Narrative
- S - LCS Spike recovery outside acceptable limits(+ is over - is under)
- R - Duplication outside acceptable limits
- T - Tentatively Identified Compound-Estimated
- E -Above quantitation range-Estimated
- M - Matrix Spike outside acceptable limits(+ is over - is under)

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-7D
Collection Date: 12/4/2014 7:15:00 AM
Lab Sample ID: 141204076-001
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS - SM 2340B (Prep: SW3010A - 12/5/2014)						Analyst: SM
Total Hardness (As CaCO3)	142	5		mg/L CaCO3	1	12/18/2014
ICP METALS - EPA 200.7 (Prep: SW3010A - 12/5/2014)						Analyst: SM
Aluminum	< 0.100	0.100		mg/L	1	12/18/2014 6:08:07 PM
Antimony	< 0.060	0.060		mg/L	1	12/18/2014 6:08:07 PM
Arsenic	0.006	0.005		mg/L	1	12/18/2014 6:08:07 PM
Barium	0.035	0.010		mg/L	1	12/18/2014 6:08:07 PM
Beryllium	< 0.005	0.005		mg/L	1	12/18/2014 6:08:07 PM
Boron	0.091	0.050		mg/L	1	12/18/2014 6:08:07 PM
Cadmium	< 0.005	0.005		mg/L	1	12/18/2014 6:08:07 PM
Calcium	42.8	0.050		mg/L	1	12/18/2014 6:08:07 PM
Chromium	< 0.005	0.005		mg/L	1	12/18/2014 6:08:07 PM
Cobalt	< 0.050	0.050		mg/L	1	12/18/2014 6:08:07 PM
Copper	< 0.005	0.005		mg/L	1	12/18/2014 6:08:07 PM
Iron	2.76	0.050		mg/L	1	12/18/2014 6:08:07 PM
Lead	< 0.005	0.005		mg/L	1	12/18/2014 6:08:07 PM
Magnesium	8.62	0.050		mg/L	1	12/18/2014 6:08:07 PM
Manganese	1.50	0.020		mg/L	1	12/18/2014 6:08:07 PM
Nickel	< 0.020	0.020		mg/L	1	12/18/2014 6:08:07 PM
Potassium	6.61	0.050		mg/L	1	12/18/2014 6:08:07 PM
Selenium	0.007	0.005		mg/L	1	12/18/2014 6:08:07 PM
Silver	< 0.010	0.010		mg/L	1	12/18/2014 6:08:07 PM
Sodium	2.16	0.050		mg/L	1	12/18/2014 6:08:07 PM
Thallium	< 0.010	0.010		mg/L	1	12/18/2014 6:08:07 PM
Vanadium	< 0.020	0.020		mg/L	1	12/18/2014 6:08:07 PM
Zinc	< 0.010	0.010		mg/L	1	12/18/2014 6:08:07 PM
MERCURY - EPA 245.1 (Prep: E245.1 - 12/8/2014)						Analyst: TM
Mercury	< 0.0002	0.0002		mg/L	1	12/8/2014
ANIONS BY ION CHROMATOGRAPHY - EPA 300.0						Analyst: CS
Chloride	< 1.00	1.00		mg/L	1	12/5/2014 3:48:33 PM
Bromide	< 1.00	1.00		mg/L	1	12/5/2014 3:48:33 PM
Nitrate, Nitrogen (As N)	0.16	0.02		mg/L	1	12/5/2014 3:48:33 PM
Sulfate	4.95	1.00		mg/L	1	12/5/2014 3:48:33 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-7D
Collection Date: 12/4/2014 7:15:00 AM
Lab Sample ID: 141204076-001
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						**Analyst: SJ**
Chloromethane	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
Bromomethane	< 10	10	S-	µg/L	1	12/8/2014 3:14:00 PM
Vinyl chloride	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
Chloroethane	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
Methylene chloride	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Acetone	< 10	10	S-	µg/L	1	12/8/2014 3:14:00 PM
Iodomethane	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
Acrylonitrile	< 25	25		µg/L	1	12/8/2014 3:14:00 PM
Trichlorofluoromethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Carbon disulfide	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,1-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,1-Dichloroethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
2,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Bromochloromethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Chloroform	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,2-Dichloroethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
2-Butanone	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
1,1,1-Trichloroethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Carbon tetrachloride	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Vinyl acetate	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
Bromodichloromethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,2,3-Trichloropropane	< 5	5	S-	µg/L	1	12/8/2014 3:14:00 PM
Dibromomethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Trichloroethene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Dibromochloromethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,1,2-Trichloroethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Benzene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Bromoform	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
2-Hexanone	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
Tetrachloroethene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,2-Dibromoethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Toluene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Chlorobenzene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-7D
Collection Date: 12/4/2014 7:15:00 AM
Lab Sample ID: 141204076-001
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						**Analyst: SJ**
1,1,1,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Ethylbenzene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
Styrene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
o-Xylene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
m,p-Xylene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
trans-1,4-Dichloro-2-butene	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,4-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:14:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	12/8/2014 3:14:00 PM
Surr: 1,2-Dichloroethane-d4	99.2	80.7-117		%REC	1	12/8/2014 3:14:00 PM
Surr: 4-Bromofluorobenzene	97.5	80.2-127		%REC	1	12/8/2014 3:14:00 PM
Surr: Toluene-d8	91.2	79.9-122		%REC	1	12/8/2014 3:14:00 PM
ALKALINITY TO PH 4.5 -SM 2320B						**Analyst: PL**
Alkalinity, Total (As CaCO3)	130	10		mg/L CaCO3	1	12/16/2014
AMMONIA (NON-DISTILLED) - EPA 350.1						**Analyst: RK**
Nitrogen, Ammonia (As N)	< 0.1	0.1		mg/L	1	12/17/2014 2:20:00 PM
BOD, 5 DAY, 20°C - SM 5210B						**Analyst: SH**
Biochemical Oxygen Demand	4	4	B	mg/L	1	12/5/2014 5:50:00 PM
CHEMICAL OXYGEN DEMAND - EPA 410.4						**Analyst: SH**
Chemical Oxygen Demand	42	5		mg/L	1	12/11/2014
CYANIDE, TOTAL - EPA 335.4 (**Prep: Method - 12/8/2014**)						**Analyst: KB**
Cyanide	< 0.01	0.01		mg/L	1	12/9/2014 2:19:00 PM
PHENOLS, TOTAL - EPA 420.1 (**Prep: Method - 12/16/2014**)						**Analyst: KB**
Phenolics, Total Recoverable	< 0.002	0.002		mg/L	1	12/28/2014
TOTAL DISSOLVED SOLIDS - SM 2540C						**Analyst: CS**

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-7D
Collection Date: 12/4/2014 7:15:00 AM
Lab Sample ID: 141204076-001
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: **CS**
TDS (Residue, Filterable)	120	5	R	mg/L	1	12/10/2014
TKN (INCLUDES PREP) - SM 4500 N C						Analyst: **TS**
Nitrogen, Kjeldahl, Total	< 1.0	1.0		mg/L	1	12/17/2014
TOTAL ORGANIC CARBON - SM 5310C						Analyst: **RK**
Total Organic Carbon	17.6	1.0		mg/L	1	12/23/2014 4:20:00 AM
COLOR (PLATINUM-COBALT) - SM 2120B						Analyst: **KB**
Color	> 70	5		cpu	1	12/4/2014 7:30:00 PM
HEXAVALENT CHROMIUM - SM3500-CR D						Analyst: **TS**
Chromium, Hexavalent	< 0.02	0.02		mg/L	1	12/4/2014 6:55:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-1S
Collection Date: 12/4/2014 8:15:00 AM
Lab Sample ID: 141204076-002
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS - SM 2340B (**Prep: SW3010A - 12/5/2014**)						Analyst: **SM**
Total Hardness (As CaCO3)	< 5	5		mg/L CaCO3	1	12/18/2014
ICP METALS - EPA 200.7 (**Prep: SW3010A - 12/5/2014**)						Analyst: **SM**
Aluminum	11.4	0.100		mg/L	1	12/18/2014 6:14:31 PM
Antimony	< 0.060	0.060		mg/L	1	12/18/2014 6:14:31 PM
Arsenic	< 0.005	0.005		mg/L	1	12/18/2014 6:14:31 PM
Barium	0.024	0.010		mg/L	1	12/18/2014 6:14:31 PM
Beryllium	< 0.005	0.005		mg/L	1	12/18/2014 6:14:31 PM
Boron	< 0.050	0.050		mg/L	1	12/18/2014 6:14:31 PM
Cadmium	< 0.005	0.005		mg/L	1	12/18/2014 6:14:31 PM
Calcium	1.22	0.050		mg/L	1	12/18/2014 6:14:31 PM
Chromium	< 0.005	0.005		mg/L	1	12/18/2014 6:14:31 PM
Cobalt	< 0.050	0.050		mg/L	1	12/18/2014 6:14:31 PM
Copper	< 0.005	0.005		mg/L	1	12/18/2014 6:14:31 PM
Iron	1.02	0.050		mg/L	1	12/18/2014 6:14:31 PM
Lead	< 0.005	0.005		mg/L	1	12/18/2014 6:14:31 PM
Magnesium	0.099	0.050		mg/L	1	12/18/2014 6:14:31 PM
Manganese	< 0.020	0.020		mg/L	1	12/18/2014 6:14:31 PM
Nickel	< 0.020	0.020		mg/L	1	12/18/2014 6:14:31 PM
Potassium	< 0.050	0.050		mg/L	1	12/18/2014 6:14:31 PM
Selenium	0.006	0.005		mg/L	1	12/18/2014 6:14:31 PM
Silver	< 0.010	0.010		mg/L	1	12/18/2014 6:14:31 PM
Sodium	0.410	0.050		mg/L	1	12/18/2014 6:14:31 PM
Thallium	< 0.010	0.010		mg/L	1	12/18/2014 6:14:31 PM
Vanadium	< 0.020	0.020		mg/L	1	12/18/2014 6:14:31 PM
Zinc	0.037	0.010		mg/L	1	12/18/2014 6:14:31 PM
MERCURY - EPA 245.1 (**Prep: E245.1 - 12/8/2014**)						Analyst: **TM**
Mercury	< 0.0002	0.0002		mg/L	1	12/8/2014
ANIONS BY ION CHROMATOGRAPHY - EPA 300.0						Analyst: **CS**
Chloride	< 1.00	1.00		mg/L	1	12/5/2014 3:59:40 PM
Bromide	< 1.00	1.00		mg/L	1	12/5/2014 3:59:40 PM
Nitrate, Nitrogen (As N)	0.04	0.02		mg/L	1	12/5/2014 3:59:40 PM
Sulfate	6.10	1.00		mg/L	1	12/5/2014 3:59:40 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-1S
Collection Date: 12/4/2014 8:15:00 AM
Lab Sample ID: 141204076-002
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						**Analyst: SJ**
Chloromethane	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
Bromomethane	< 10	10	S-	µg/L	1	12/8/2014 3:35:00 PM
Vinyl chloride	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
Chloroethane	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
Methylene chloride	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Acetone	< 10	10	S-	µg/L	1	12/8/2014 3:35:00 PM
Iodomethane	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
Acrylonitrile	< 25	25		µg/L	1	12/8/2014 3:35:00 PM
Trichlorofluoromethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Carbon disulfide	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,1-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,1-Dichloroethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
2,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Bromochloromethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Chloroform	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,2-Dichloroethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
2-Butanone	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
1,1,1-Trichloroethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Carbon tetrachloride	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Vinyl acetate	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
Bromodichloromethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,2,3-Trichloropropane	< 5	5	S-	µg/L	1	12/8/2014 3:35:00 PM
Dibromomethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Trichloroethene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Dibromochloromethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,1,2-Trichloroethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Benzene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Bromoform	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
2-Hexanone	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
Tetrachloroethene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,2-Dibromoethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Toluene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Chlorobenzene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-1S
Collection Date: 12/4/2014 8:15:00 AM
Lab Sample ID: 141204076-002
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						**Analyst: SJ**
1,1,1,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Ethylbenzene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
Styrene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
o-Xylene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
m,p-Xylene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
trans-1,4-Dichloro-2-butene	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,4-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:35:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	12/8/2014 3:35:00 PM
Surr: 1,2-Dichloroethane-d4	94.8	80.7-117		%REC	1	12/8/2014 3:35:00 PM
Surr: 4-Bromofluorobenzene	98.8	80.2-127		%REC	1	12/8/2014 3:35:00 PM
Surr: Toluene-d8	90.5	79.9-122		%REC	1	12/8/2014 3:35:00 PM
ALKALINITY TO PH 4.5 -SM 2320B						**Analyst: PL**
Alkalinity, Total (As CaCO3)	1	1		mg/L CaCO3	1	12/16/2014
AMMONIA (NON-DISTILLED) - EPA 350.1						**Analyst: RK**
Nitrogen, Ammonia (As N)	< 0.1	0.1		mg/L	1	12/17/2014 2:22:00 PM
BOD, 5 DAY, 20°C - SM 5210B						**Analyst: SH**
Biochemical Oxygen Demand	< 4	4		mg/L	1	12/5/2014 5:50:00 PM
CHEMICAL OXYGEN DEMAND - EPA 410.4						**Analyst: SH**
Chemical Oxygen Demand	38	5		mg/L	1	12/11/2014
CYANIDE, TOTAL - EPA 335.4 (**Prep: Method - 12/8/2014**)						**Analyst: KB**
Cyanide	< 0.01	0.01		mg/L	1	12/9/2014 2:21:00 PM
PHENOLS, TOTAL - EPA 420.1 (**Prep: Method - 12/16/2014**)						**Analyst: KB**
Phenolics, Total Recoverable	< 0.002	0.002		mg/L	1	12/28/2014
TOTAL DISSOLVED SOLIDS - SM 2540C						**Analyst: CS**

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-1S
Collection Date: 12/4/2014 8:15:00 AM
Lab Sample ID: 141204076-002
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: CS
TDS (Residue, Filterable)	< 5	5		mg/L	1	12/10/2014
TKN (INCLUDES PREP) - SM 4500 N C						Analyst: TS
Nitrogen, Kjeldahl, Total	< 1.0	1.0		mg/L	1	12/17/2014
TOTAL ORGANIC CARBON - SM 5310C						Analyst: RK
Total Organic Carbon	26.0	1.0		mg/L	1	12/23/2014 4:38:00 AM
COLOR (PLATINUM-COBALT) - SM 2120B						Analyst: KB
Color	5	5		cpu	1	12/4/2014 7:30:00 PM
HEXAVALENT CHROMIUM - SM3500-CR D						Analyst: TS
Chromium, Hexavalent	< 0.02	0.02		mg/L	1	12/4/2014 6:55:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-5S
Collection Date: 12/4/2014 9:10:00 AM
Lab Sample ID: 141204076-003
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS - SM 2340B						Analyst: SM
(Prep: SW3010A - 12/5/2014)						
Total Hardness (As CaCO3)	82	5		mg/L CaCO3	1	12/18/2014
ICP METALS - EPA 200.7						Analyst: SM
(Prep: SW3010A - 12/5/2014)						
Aluminum	0.329	0.100		mg/L	1	12/18/2014 6:20:54 PM
Antimony	< 0.060	0.060		mg/L	1	12/18/2014 6:20:54 PM
Arsenic	< 0.005	0.005		mg/L	1	12/18/2014 6:20:54 PM
Barium	0.030	0.010		mg/L	1	12/18/2014 6:20:54 PM
Beryllium	< 0.005	0.005		mg/L	1	12/18/2014 6:20:54 PM
Boron	< 0.050	0.050		mg/L	1	12/18/2014 6:20:54 PM
Cadmium	< 0.005	0.005		mg/L	1	12/18/2014 6:20:54 PM
Calcium	24.0	0.050		mg/L	1	12/18/2014 6:20:54 PM
Chromium	< 0.005	0.005		mg/L	1	12/18/2014 6:20:54 PM
Cobalt	< 0.050	0.050		mg/L	1	12/18/2014 6:20:54 PM
Copper	< 0.005	0.005		mg/L	1	12/18/2014 6:20:54 PM
Iron	3.80	0.050		mg/L	1	12/18/2014 6:20:54 PM
Lead	< 0.005	0.005		mg/L	1	12/18/2014 6:20:54 PM
Magnesium	5.38	0.050		mg/L	1	12/18/2014 6:20:54 PM
Manganese	0.564	0.020		mg/L	1	12/18/2014 6:20:54 PM
Nickel	< 0.020	0.020		mg/L	1	12/18/2014 6:20:54 PM
Potassium	1.19	0.050		mg/L	1	12/18/2014 6:20:54 PM
Selenium	< 0.005	0.005		mg/L	1	12/18/2014 6:20:54 PM
Silver	< 0.010	0.010		mg/L	1	12/18/2014 6:20:54 PM
Sodium	0.392	0.050		mg/L	1	12/18/2014 6:20:54 PM
Thallium	< 0.010	0.010		mg/L	1	12/18/2014 6:20:54 PM
Vanadium	< 0.020	0.020		mg/L	1	12/18/2014 6:20:54 PM
Zinc	< 0.010	0.010		mg/L	1	12/18/2014 6:20:54 PM
MERCURY - EPA 245.1						Analyst: TM
(Prep: E245.1 - 12/8/2014)						
Mercury	< 0.0002	0.0002		mg/L	1	12/8/2014
ANIONS BY ION CHROMATOGRAPHY - EPA 300.0						Analyst: CS
Chloride	< 1.00	1.00		mg/L	1	12/5/2014 4:10:45 PM
Bromide	< 1.00	1.00		mg/L	1	12/5/2014 4:10:45 PM
Nitrate, Nitrogen (As N)	0.09	0.02		mg/L	1	12/5/2014 4:10:45 PM
Sulfate	6.03	1.00		mg/L	1	12/5/2014 4:10:45 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-5S
Collection Date: 12/4/2014 9:10:00 AM
Lab Sample ID: 141204076-003
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: **SJ**
Chloromethane	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
Bromomethane	< 10	10	S-	µg/L	1	12/8/2014 3:57:00 PM
Vinyl chloride	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
Chloroethane	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
Methylene chloride	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Acetone	< 10	10	S-	µg/L	1	12/8/2014 3:57:00 PM
Iodomethane	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
Acrylonitrile	< 25	25		µg/L	1	12/8/2014 3:57:00 PM
Trichlorofluoromethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Carbon disulfide	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,1-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,1-Dichloroethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
2,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Bromochloromethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Chloroform	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,2-Dichloroethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
2-Butanone	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
1,1,1-Trichloroethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Carbon tetrachloride	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Vinyl acetate	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
Bromodichloromethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,2,3-Trichloropropane	< 5	5	S-	µg/L	1	12/8/2014 3:57:00 PM
Dibromomethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Trichloroethene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Dibromochloromethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,1,2-Trichloroethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Benzene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Bromoform	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
2-Hexanone	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
Tetrachloroethene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,2-Dibromoethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Toluene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Chlorobenzene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-5S
Collection Date: 12/4/2014 9:10:00 AM
Lab Sample ID: 141204076-003
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: SJ
1,1,1,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Ethylbenzene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
Styrene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
o-Xylene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
m,p-Xylene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
trans-1,4-Dichloro-2-butene	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,4-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 3:57:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	12/8/2014 3:57:00 PM
Surr: 1,2-Dichloroethane-d4	94.1	80.7-117		%REC	1	12/8/2014 3:57:00 PM
Surr: 4-Bromofluorobenzene	99.4	80.2-127		%REC	1	12/8/2014 3:57:00 PM
Surr: Toluene-d8	94.3	79.9-122		%REC	1	12/8/2014 3:57:00 PM
ALKALINITY TO PH 4.5 -SM 2320B						Analyst: PL
Alkalinity, Total (As CaCO3)	42	2		mg/L CaCO3	1	12/16/2014
AMMONIA (NON-DISTILLED) - EPA 350.1						Analyst: RK
Nitrogen, Ammonia (As N)	< 0.1	0.1		mg/L	1	12/17/2014 2:24:00 PM
BOD, 5 DAY, 20°C - SM 5210B						Analyst: SH
Biochemical Oxygen Demand	2 J	4	B	mg/L	1	12/5/2014 5:50:00 PM
CHEMICAL OXYGEN DEMAND - EPA 410.4						Analyst: SH
Chemical Oxygen Demand	26	5		mg/L	1	12/11/2014
CYANIDE, TOTAL - EPA 335.4 (Prep: Method - 12/8/2014)						Analyst: KB
Cyanide	< 0.01	0.01		mg/L	1	12/9/2014 2:27:00 PM
PHENOLS, TOTAL - EPA 420.1 (Prep: Method - 12/17/2014)						Analyst: KB
Phenolics, Total Recoverable	0.002	0.002		mg/L	1	12/28/2014
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: CS

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-5S
Collection Date: 12/4/2014 9:10:00 AM
Lab Sample ID: 141204076-003
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: **CS**
TDS (Residue, Filterable)	50	5		mg/L	1	12/10/2014
TKN (INCLUDES PREP) - SM 4500 N C						Analyst: **TS**
Nitrogen, Kjeldahl, Total	< 1.0	1.0		mg/L	1	12/17/2014
TOTAL ORGANIC CARBON - SM 5310C						Analyst: **RK**
Total Organic Carbon	7.9	1.0		mg/L	1	12/23/2014 4:55:00 AM
COLOR (PLATINUM-COBALT) - SM 2120B						Analyst: **KB**
Color	15	5		cpu	1	12/4/2014 7:30:00 PM
HEXAVALENT CHROMIUM - SM3500-CR D						Analyst: **TS**
Chromium, Hexavalent	< 0.02	0.02		mg/L	1	12/4/2014 6:55:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: LMW-10
Collection Date: 12/4/2014 9:50:00 AM
Lab Sample ID: 141204076-004
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS - SM 2340B (Prep: SW3010A - 12/5/2014)						Analyst: SM
Total Hardness (As CaCO3)	318	5		mg/L CaCO3	1	12/18/2014
ICP METALS - EPA 200.7 (Prep: SW3010A - 12/5/2014)						Analyst: SM
Aluminum	< 0.100	0.100		mg/L	1	12/18/2014 6:27:17 PM
Antimony	< 0.060	0.060		mg/L	1	12/18/2014 6:27:17 PM
Arsenic	< 0.005	0.005		mg/L	1	12/18/2014 6:27:17 PM
Barium	0.080	0.010		mg/L	1	12/18/2014 6:27:17 PM
Beryllium	< 0.005	0.005		mg/L	1	12/18/2014 6:27:17 PM
Boron	0.686	0.050		mg/L	1	12/18/2014 6:27:17 PM
Cadmium	< 0.005	0.005		mg/L	1	12/18/2014 6:27:17 PM
Calcium	82.1	0.050		mg/L	1	12/18/2014 6:27:17 PM
Chromium	< 0.005	0.005		mg/L	1	12/18/2014 6:27:17 PM
Cobalt	< 0.050	0.050		mg/L	1	12/18/2014 6:27:17 PM
Copper	< 0.005	0.005		mg/L	1	12/18/2014 6:27:17 PM
Iron	25.2	0.050		mg/L	1	12/18/2014 6:27:17 PM
Lead	< 0.005	0.005		mg/L	1	12/18/2014 6:27:17 PM
Magnesium	27.3	0.050		mg/L	1	12/18/2014 6:27:17 PM
Manganese	0.807	0.020		mg/L	1	12/18/2014 6:27:17 PM
Nickel	< 0.020	0.020		mg/L	1	12/18/2014 6:27:17 PM
Potassium	74.0	0.050		mg/L	1	12/18/2014 6:27:17 PM
Selenium	< 0.005	0.005		mg/L	1	12/18/2014 6:27:17 PM
Silver	< 0.010	0.010		mg/L	1	12/18/2014 6:27:17 PM
Sodium	84.2	0.050		mg/L	1	12/18/2014 6:27:17 PM
Thallium	< 0.010	0.010		mg/L	1	12/18/2014 6:27:17 PM
Vanadium	< 0.020	0.020		mg/L	1	12/18/2014 6:27:17 PM
Zinc	< 0.010	0.010		mg/L	1	12/18/2014 6:27:17 PM
MERCURY - EPA 245.1 (Prep: E245.1 - 12/8/2014)						Analyst: TM
Mercury	< 0.0002	0.0002		mg/L	1	12/8/2014
ANIONS BY ION CHROMATOGRAPHY - EPA 300.0						Analyst: CS
Chloride	97.3	1.00		mg/L	1	12/5/2014 5:29:16 PM
Bromide	< 1.00	1.00		mg/L	1	12/5/2014 5:29:16 PM
Nitrate, Nitrogen (As N)	< 0.02	0.02		mg/L	1	12/5/2014 5:29:16 PM
Sulfate	< 1.00	1.00		mg/L	1	12/5/2014 5:29:16 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: LMW-10
Collection Date: 12/4/2014 9:50:00 AM
Lab Sample ID: 141204076-004
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: SJ
Chloromethane	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
Bromomethane	< 10	10	S-	µg/L	1	12/8/2014 4:18:00 PM
Vinyl chloride	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
Chloroethane	18	10		µg/L	1	12/8/2014 4:18:00 PM
Methylene chloride	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Acetone	< 10	10	S-	µg/L	1	12/8/2014 4:18:00 PM
Iodomethane	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
Acrylonitrile	< 25	25		µg/L	1	12/8/2014 4:18:00 PM
Trichlorofluoromethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Carbon disulfide	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,1-Dichloroethene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,1-Dichloroethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
2,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Bromochloromethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Chloroform	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,2-Dichloroethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
2-Butanone	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
1,1,1-Trichloroethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Carbon tetrachloride	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Vinyl acetate	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
Bromodichloromethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,2,3-Trichloropropane	< 5	5	S-	µg/L	1	12/8/2014 4:18:00 PM
Dibromomethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Trichloroethene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Dibromochloromethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,1,2-Trichloroethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Benzene	7	5		µg/L	1	12/8/2014 4:18:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Bromoform	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
2-Hexanone	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
Tetrachloroethene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,2-Dibromoethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Toluene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Chlorobenzene	10	5		µg/L	1	12/8/2014 4:18:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: LMW-10
Collection Date: 12/4/2014 9:50:00 AM
Lab Sample ID: 141204076-004
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						**Analyst: SJ**
1,1,1,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Ethylbenzene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
Styrene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
o-Xylene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
m,p-Xylene	48	5		µg/L	1	12/8/2014 4:18:00 PM
trans-1,4-Dichloro-2-butene	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,4-Dichlorobenzene	7	5		µg/L	1	12/8/2014 4:18:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 4:18:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	12/8/2014 4:18:00 PM
Surr: 1,2-Dichloroethane-d4	94.7	80.7-117		%REC	1	12/8/2014 4:18:00 PM
Surr: 4-Bromofluorobenzene	97.0	80.2-127		%REC	1	12/8/2014 4:18:00 PM
Surr: Toluene-d8	90.9	79.9-122		%REC	1	12/8/2014 4:18:00 PM
ALKALINITY TO PH 4.5 -SM 2320B						**Analyst: PL**
Alkalinity, Total (As CaCO3)	830	10		mg/L CaCO3	1	12/16/2014
AMMONIA (NON-DISTILLED) - EPA 350.1						**Analyst: PL**
Nitrogen, Ammonia (As N)	109	10		mg/L	100	12/19/2014 12:27:00 PM
BOD, 5 DAY, 20°C - SM 5210B						**Analyst: SH**
Biochemical Oxygen Demand	20	4	B	mg/L	1	12/5/2014 5:50:00 PM
CHEMICAL OXYGEN DEMAND - EPA 410.4						**Analyst: SH**
Chemical Oxygen Demand	117	5		mg/L	1	12/11/2014
CYANIDE, TOTAL - EPA 335.4 (**Prep: Method - 12/8/2014**)						**Analyst: KB**
Cyanide	< 0.01	0.01		mg/L	1	12/9/2014 2:29:00 PM
PHENOLS, TOTAL - EPA 420.1 (**Prep: Method - 12/17/2014**)						**Analyst: KB**
Phenolics, Total Recoverable	0.010	0.002		mg/L	1	12/28/2014
TOTAL DISSOLVED SOLIDS - SM 2540C						**Analyst: CS**

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT:	Delaware Engineering	**Client Sample ID:**	LMW-10
Work Order:	141204076	**Collection Date:**	12/4/2014 9:50:00 AM
Reference:	/	**Lab Sample ID:**	141204076-004
PO#:		**Matrix:**	GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: **CS**
TDS (Residue, Filterable)	650	5		mg/L	1	12/10/2014
TKN (INCLUDES PREP) - SM 4500 N C						Analyst: **TS**
Nitrogen, Kjeldahl, Total	104	1.0		mg/L	1	12/17/2014
TOTAL ORGANIC CARBON - SM 5310C						Analyst: **RK**
Total Organic Carbon	38.2	1.0		mg/L	1	12/23/2014 5:12:00 AM
COLOR (PLATINUM-COBALT) - SM 2120B						Analyst: **KB**
Color	> 70	5		cpu	1	12/4/2014 7:30:00 PM
HEXAVALENT CHROMIUM - SM3500-CR D						Analyst: **TS**
Chromium, Hexavalent	< 0.02	0.02		mg/L	1	12/4/2014 6:55:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-4S
Collection Date: 12/4/2014 10:30:00 AM
Lab Sample ID: 141204076-005
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS - SM 2340B (Prep: SW3010A - 12/5/2014)						Analyst: SM
Total Hardness (As CaCO3)	39	5		mg/L CaCO3	1	12/18/2014
ICP METALS - EPA 200.7 (Prep: SW3010A - 12/5/2014)						Analyst: SM
Aluminum	2.03	0.100		mg/L	1	12/18/2014 6:33:41 PM
Antimony	< 0.060	0.060		mg/L	1	12/18/2014 6:33:41 PM
Arsenic	0.006	0.005		mg/L	1	12/18/2014 6:33:41 PM
Barium	0.013	0.010		mg/L	1	12/18/2014 6:33:41 PM
Beryllium	< 0.005	0.005		mg/L	1	12/18/2014 6:33:41 PM
Boron	< 0.050	0.050		mg/L	1	12/18/2014 6:33:41 PM
Cadmium	< 0.005	0.005		mg/L	1	12/18/2014 6:33:41 PM
Calcium	11.5	0.050		mg/L	1	12/18/2014 6:33:41 PM
Chromium	< 0.005	0.005		mg/L	1	12/18/2014 6:33:41 PM
Cobalt	< 0.050	0.050		mg/L	1	12/18/2014 6:33:41 PM
Copper	< 0.005	0.005		mg/L	1	12/18/2014 6:33:41 PM
Iron	3.89	0.050		mg/L	1	12/18/2014 6:33:41 PM
Lead	< 0.005	0.005		mg/L	1	12/18/2014 6:33:41 PM
Magnesium	2.40	0.050		mg/L	1	12/18/2014 6:33:41 PM
Manganese	0.263	0.020		mg/L	1	12/18/2014 6:33:41 PM
Nickel	< 0.020	0.020		mg/L	1	12/18/2014 6:33:41 PM
Potassium	0.671	0.050		mg/L	1	12/18/2014 6:33:41 PM
Selenium	0.012	0.005		mg/L	1	12/18/2014 6:33:41 PM
Silver	< 0.010	0.010		mg/L	1	12/18/2014 6:33:41 PM
Sodium	0.766	0.050		mg/L	1	12/18/2014 6:33:41 PM
Thallium	< 0.010	0.010		mg/L	1	12/18/2014 6:33:41 PM
Vanadium	< 0.020	0.020		mg/L	1	12/18/2014 6:33:41 PM
Zinc	0.013	0.010		mg/L	1	12/18/2014 6:33:41 PM
MERCURY - EPA 245.1 (Prep: E245.1 - 12/8/2014)						Analyst: TM
Mercury	< 0.0002	0.0002		mg/L	1	12/8/2014
ANIONS BY ION CHROMATOGRAPHY - EPA 300.0						Analyst: CS
Chloride	1.16	1.00		mg/L	1	12/5/2014 5:40:40 PM
Bromide	< 1.00	1.00		mg/L	1	12/5/2014 5:40:40 PM
Nitrate, Nitrogen (As N)	0.08	0.02		mg/L	1	12/5/2014 5:40:40 PM
Sulfate	1.61	1.00		mg/L	1	12/5/2014 5:40:40 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-4S
Collection Date: 12/4/2014 10:30:00 AM
Lab Sample ID: 141204076-005
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: SJ
Chloromethane	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
Bromomethane	< 10	10	S-	µg/L	1	12/8/2014 4:39:00 PM
Vinyl chloride	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
Chloroethane	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
Methylene chloride	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Acetone	< 10	10	S-	µg/L	1	12/8/2014 4:39:00 PM
Iodomethane	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
Acrylonitrile	< 25	25		µg/L	1	12/8/2014 4:39:00 PM
Trichlorofluoromethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Carbon disulfide	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,1-Dichloroethene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,1-Dichloroethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
2,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Bromochloromethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Chloroform	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,2-Dichloroethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
2-Butanone	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
1,1,1-Trichloroethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Carbon tetrachloride	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Vinyl acetate	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
Bromodichloromethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,2,3-Trichloropropane	< 5	5	S-	µg/L	1	12/8/2014 4:39:00 PM
Dibromomethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Trichloroethene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Dibromochloromethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,1,2-Trichloroethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Benzene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Bromoform	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
2-Hexanone	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
Tetrachloroethene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,2-Dibromoethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Toluene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Chlorobenzene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-4S
Collection Date: 12/4/2014 10:30:00 AM
Lab Sample ID: 141204076-005
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: SJ
1,1,1,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Ethylbenzene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
Styrene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
o-Xylene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
m,p-Xylene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
trans-1,4-Dichloro-2-butene	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,4-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 4:39:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	12/8/2014 4:39:00 PM
Surr: 1,2-Dichloroethane-d4	100	80.7-117		%REC	1	12/8/2014 4:39:00 PM
Surr: 4-Bromofluorobenzene	102	80.2-127		%REC	1	12/8/2014 4:39:00 PM
Surr: Toluene-d8	90.3	79.9-122		%REC	1	12/8/2014 4:39:00 PM
ALKALINITY TO PH 4.5 -SM 2320B						Analyst: PL
Alkalinity, Total (As CaCO3)	26	2		mg/L CaCO3	1	12/16/2014
AMMONIA (NON-DISTILLED) - EPA 350.1						Analyst: RK
Nitrogen, Ammonia (As N)	0.2	0.1		mg/L	1	12/17/2014 3:10:00 PM
BOD, 5 DAY, 20°C - SM 5210B						Analyst: SH
Biochemical Oxygen Demand	2 J	4	B	mg/L	1	12/5/2014 5:50:00 PM
CHEMICAL OXYGEN DEMAND - EPA 410.4						Analyst: SH
Chemical Oxygen Demand	113	5		mg/L	1	12/11/2014
CYANIDE, TOTAL - EPA 335.4 (Prep: Method - 12/8/2014)						Analyst: KB
Cyanide	< 0.01	0.01		mg/L	1	12/9/2014 2:31:00 PM
PHENOLS, TOTAL - EPA 420.1 (Prep: Method - 12/17/2014)						Analyst: KB
Phenolics, Total Recoverable	0.002	0.002		mg/L	1	12/28/2014
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: CS

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-4S
Collection Date: 12/4/2014 10:30:00 AM
Lab Sample ID: 141204076-005
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: **CS**
TDS (Residue, Filterable)	80	5		mg/L	1	12/10/2014
TKN (INCLUDES PREP) - SM 4500 N C						Analyst: **TS**
Nitrogen, Kjeldahl, Total	1.4	1.0		mg/L	1	12/17/2014
TOTAL ORGANIC CARBON - SM 5310C						Analyst: **RK**
Total Organic Carbon	41.6	1.0		mg/L	1	12/23/2014 5:29:00 AM
COLOR (PLATINUM-COBALT) - SM 2120B						Analyst: **KB**
Color	> 70	5		cpu	1	12/4/2014 7:30:00 PM
HEXAVALENT CHROMIUM - SM3500-CR D						Analyst: **TS**
Chromium, Hexavalent	< 0.02	0.02		mg/L	1	12/4/2014 6:55:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-3S
Collection Date: 12/4/2014 11:15:00 AM
Lab Sample ID: 141204076-006
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS - SM 2340B (Prep: SW3010A - 12/5/2014)						Analyst: SM
Total Hardness (As CaCO3)	215	5		mg/L CaCO3	1	12/18/2014
ICP METALS - EPA 200.7 (Prep: SW3010A - 12/5/2014)						Analyst: SM
Aluminum	< 0.100	0.100		mg/L	1	12/18/2014 6:46:40 PM
Antimony	< 0.060	0.060		mg/L	1	12/18/2014 6:46:40 PM
Arsenic	0.006	0.005		mg/L	1	12/18/2014 6:46:40 PM
Barium	0.043	0.010		mg/L	1	12/18/2014 6:46:40 PM
Beryllium	< 0.005	0.005		mg/L	1	12/18/2014 6:46:40 PM
Boron	0.092	0.050		mg/L	1	12/18/2014 6:46:40 PM
Cadmium	< 0.005	0.005		mg/L	1	12/18/2014 6:46:40 PM
Calcium	65.1	0.050		mg/L	1	12/18/2014 6:46:40 PM
Chromium	< 0.005	0.005		mg/L	1	12/18/2014 6:46:40 PM
Cobalt	< 0.050	0.050		mg/L	1	12/18/2014 6:46:40 PM
Copper	< 0.005	0.005		mg/L	1	12/18/2014 6:46:40 PM
Iron	21.9	0.050		mg/L	1	12/18/2014 6:46:40 PM
Lead	< 0.005	0.005		mg/L	1	12/18/2014 6:46:40 PM
Magnesium	12.6	0.050		mg/L	1	12/18/2014 6:46:40 PM
Manganese	0.859	0.020		mg/L	1	12/18/2014 6:46:40 PM
Nickel	< 0.020	0.020		mg/L	1	12/18/2014 6:46:40 PM
Potassium	5.31	0.050		mg/L	1	12/18/2014 6:46:40 PM
Selenium	< 0.005	0.005		mg/L	1	12/18/2014 6:46:40 PM
Silver	< 0.010	0.010		mg/L	1	12/18/2014 6:46:40 PM
Sodium	0.464	0.050		mg/L	1	12/18/2014 6:46:40 PM
Thallium	0.011	0.010		mg/L	1	12/18/2014 6:46:40 PM
Vanadium	< 0.020	0.020		mg/L	1	12/18/2014 6:46:40 PM
Zinc	< 0.010	0.010		mg/L	1	12/18/2014 6:46:40 PM
MERCURY - EPA 245.1 (Prep: E245.1 - 12/8/2014)						Analyst: TM
Mercury	< 0.0002	0.0002		mg/L	1	12/8/2014
ANIONS BY ION CHROMATOGRAPHY - EPA 300.0						Analyst: CS
Chloride	< 1.00	1.00		mg/L	1	12/5/2014 5:51:47 PM
Bromide	< 1.00	1.00		mg/L	1	12/5/2014 5:51:47 PM
Nitrate, Nitrogen (As N)	0.10	0.02		mg/L	1	12/5/2014 5:51:47 PM
Sulfate	2.11	1.00		mg/L	1	12/5/2014 5:51:47 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-3S
Collection Date: 12/4/2014 11:15:00 AM
Lab Sample ID: 141204076-006
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: **SJ**
Chloromethane	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
Bromomethane	< 10	10	S-	µg/L	1	12/8/2014 5:01:00 PM
Vinyl chloride	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
Chloroethane	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
Methylene chloride	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Acetone	< 10	10	S-	µg/L	1	12/8/2014 5:01:00 PM
Iodomethane	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
Acrylonitrile	< 25	25		µg/L	1	12/8/2014 5:01:00 PM
Trichlorofluoromethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Carbon disulfide	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,1-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,1-Dichloroethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
2,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Bromochloromethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Chloroform	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,2-Dichloroethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
2-Butanone	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
1,1,1-Trichloroethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Carbon tetrachloride	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Vinyl acetate	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
Bromodichloromethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,2,3-Trichloropropane	< 5	5	S-	µg/L	1	12/8/2014 5:01:00 PM
Dibromomethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Trichloroethene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Dibromochloromethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,1,2-Trichloroethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Benzene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Bromoform	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
2-Hexanone	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
Tetrachloroethene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,2-Dibromoethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Toluene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Chlorobenzene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-3S
Collection Date: 12/4/2014 11:15:00 AM
Lab Sample ID: 141204076-006
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: SJ
1,1,1,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Ethylbenzene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
Styrene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
o-Xylene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
m,p-Xylene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
trans-1,4-Dichloro-2-butene	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,4-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:01:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	12/8/2014 5:01:00 PM
Surr: 1,2-Dichloroethane-d4	96.2	80.7-117		%REC	1	12/8/2014 5:01:00 PM
Surr: 4-Bromofluorobenzene	97.4	80.2-127		%REC	1	12/8/2014 5:01:00 PM
Surr: Toluene-d8	89.6	79.9-122		%REC	1	12/8/2014 5:01:00 PM
ALKALINITY TO PH 4.5 -SM 2320B						Analyst: PL
Alkalinity, Total (As CaCO3)	200	10		mg/L CaCO3	1	12/16/2014
AMMONIA (NON-DISTILLED) - EPA 350.1						Analyst: RK
Nitrogen, Ammonia (As N)	0.3	0.1		mg/L	1	12/17/2014 3:12:00 PM
BOD, 5 DAY, 20°C - SM 5210B						Analyst: SH
Biochemical Oxygen Demand	6	4	B	mg/L	1	12/5/2014 5:50:00 PM
CHEMICAL OXYGEN DEMAND - EPA 410.4						Analyst: SH
Chemical Oxygen Demand	38	5		mg/L	1	12/11/2014
CYANIDE, TOTAL - EPA 335.4 (Prep: Method - 12/11/2014)						Analyst: KB
Cyanide	< 0.01	0.01		mg/L	1	12/11/2014 4:13:00 PM
PHENOLS, TOTAL - EPA 420.1 (Prep: Method - 12/17/2014)						Analyst: KB
Phenolics, Total Recoverable	< 0.002	0.002		mg/L	1	12/28/2014
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: CS

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-3S
Collection Date: 12/4/2014 11:15:00 AM
Lab Sample ID: 141204076-006
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: CS
TDS (Residue, Filterable)	155	5		mg/L	1	12/10/2014
TKN (INCLUDES PREP) - SM 4500 N C						Analyst: TS
Nitrogen, Kjeldahl, Total	< 1.0	1.0		mg/L	1	12/17/2014
TOTAL ORGANIC CARBON - SM 5310C						Analyst: RK
Total Organic Carbon	11.3	1.0		mg/L	1	12/23/2014 5:47:00 AM
COLOR (PLATINUM-COBALT) - SM 2120B						Analyst: KB
Color	> 70	5		cpu	1	12/4/2014 7:30:00 PM
HEXAVALENT CHROMIUM - SM3500-CR D						Analyst: TS
Chromium, Hexavalent	< 0.02	0.02		mg/L	1	12/4/2014 6:55:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-2D
Collection Date: 12/4/2014 12:00:00 PM
Lab Sample ID: 141204076-007
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS - SM 2340B (Prep: SW3010A - 12/5/2014)						Analyst: SM
Total Hardness (As CaCO3)	61	5		mg/L CaCO3	1	12/18/2014
ICP METALS - EPA 200.7 (Prep: SW3010A - 12/5/2014)						Analyst: SM
Aluminum	< 0.100	0.100		mg/L	1	12/18/2014 6:53:05 PM
Antimony	< 0.060	0.060		mg/L	1	12/18/2014 6:53:05 PM
Arsenic	0.008	0.005		mg/L	1	12/18/2014 6:53:05 PM
Barium	0.076	0.010		mg/L	1	12/18/2014 6:53:05 PM
Beryllium	< 0.005	0.005		mg/L	1	12/18/2014 6:53:05 PM
Boron	< 0.050	0.050		mg/L	1	12/18/2014 6:53:05 PM
Cadmium	< 0.005	0.005		mg/L	1	12/18/2014 6:53:05 PM
Calcium	19.9	0.050		mg/L	1	12/18/2014 6:53:05 PM
Chromium	< 0.005	0.005		mg/L	1	12/18/2014 6:53:05 PM
Cobalt	< 0.050	0.050		mg/L	1	12/18/2014 6:53:05 PM
Copper	< 0.005	0.005		mg/L	1	12/18/2014 6:53:05 PM
Iron	1.77	0.050		mg/L	1	12/18/2014 6:53:05 PM
Lead	< 0.005	0.005		mg/L	1	12/18/2014 6:53:05 PM
Magnesium	2.71	0.050		mg/L	1	12/18/2014 6:53:05 PM
Manganese	0.240	0.020		mg/L	1	12/18/2014 6:53:05 PM
Nickel	< 0.020	0.020		mg/L	1	12/18/2014 6:53:05 PM
Potassium	3.66	0.050		mg/L	1	12/18/2014 6:53:05 PM
Selenium	0.007	0.005		mg/L	1	12/18/2014 6:53:05 PM
Silver	< 0.010	0.010		mg/L	1	12/18/2014 6:53:05 PM
Sodium	0.835	0.050		mg/L	1	12/18/2014 6:53:05 PM
Thallium	< 0.010	0.010		mg/L	1	12/18/2014 6:53:05 PM
Vanadium	< 0.020	0.020		mg/L	1	12/18/2014 6:53:05 PM
Zinc	< 0.010	0.010		mg/L	1	12/18/2014 6:53:05 PM
MERCURY - EPA 245.1 (Prep: E245.1 - 12/8/2014)						Analyst: TM
Mercury	< 0.0002	0.0002		mg/L	1	12/8/2014
ANIONS BY ION CHROMATOGRAPHY - EPA 300.0						Analyst: CS
Chloride	< 1.00	1.00		mg/L	1	12/5/2014 6:02:53 PM
Bromide	< 1.00	1.00		mg/L	1	12/5/2014 6:02:53 PM
Nitrate, Nitrogen (As N)	0.27	0.02		mg/L	1	12/5/2014 6:02:53 PM
Sulfate	7.14	1.00		mg/L	1	12/5/2014 6:02:53 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-2D
Collection Date: 12/4/2014 12:00:00 PM
Lab Sample ID: 141204076-007
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: SJ
Chloromethane	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
Bromomethane	< 10	10	S-	µg/L	1	12/8/2014 5:22:00 PM
Vinyl chloride	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
Chloroethane	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
Methylene chloride	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Acetone	< 10	10	S-	µg/L	1	12/8/2014 5:22:00 PM
Iodomethane	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
Acrylonitrile	< 25	25		µg/L	1	12/8/2014 5:22:00 PM
Trichlorofluoromethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Carbon disulfide	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,1-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,1-Dichloroethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
2,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Bromochloromethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Chloroform	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,2-Dichloroethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
2-Butanone	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
1,1,1-Trichloroethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Carbon tetrachloride	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Vinyl acetate	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
Bromodichloromethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,2,3-Trichloropropane	< 5	5	S-	µg/L	1	12/8/2014 5:22:00 PM
Dibromomethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Trichloroethene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Dibromochloromethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,1,2-Trichloroethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Benzene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Bromoform	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
2-Hexanone	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
Tetrachloroethene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,2-Dibromoethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Toluene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Chlorobenzene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-2D
Collection Date: 12/4/2014 12:00:00 PM
Lab Sample ID: 141204076-007
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: **SJ**
1,1,1,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Ethylbenzene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
Styrene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
o-Xylene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
m,p-Xylene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
trans-1,4-Dichloro-2-butene	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,4-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:22:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	12/8/2014 5:22:00 PM
Surr: 1,2-Dichloroethane-d4	93.2	80.7-117		%REC	1	12/8/2014 5:22:00 PM
Surr: 4-Bromofluorobenzene	97.6	80.2-127		%REC	1	12/8/2014 5:22:00 PM
Surr: Toluene-d8	90.7	79.9-122		%REC	1	12/8/2014 5:22:00 PM
ALKALINITY TO PH 4.5 -SM 2320B						Analyst: **PL**
Alkalinity, Total (As CaCO3)	60	2		mg/L CaCO3	1	12/16/2014
AMMONIA (NON-DISTILLED) - EPA 350.1						Analyst: **RK**
Nitrogen, Ammonia (As N)	0.2	0.1		mg/L	1	12/17/2014 3:14:00 PM
BOD, 5 DAY, 20°C - SM 5210B						Analyst: **SH**
Biochemical Oxygen Demand	4	4	B	mg/L	1	12/5/2014 5:50:00 PM
CHEMICAL OXYGEN DEMAND - EPA 410.4						Analyst: **SH**
Chemical Oxygen Demand	26	5		mg/L	1	12/11/2014
CYANIDE, TOTAL - EPA 335.4						Analyst: **KB**
(Prep: Method - 12/11/2014)						
Cyanide	< 0.01	0.01		mg/L	1	12/11/2014 4:15:00 PM
PHENOLS, TOTAL - EPA 420.1						Analyst: **KB**
(Prep: Method - 12/17/2014)						
Phenolics, Total Recoverable	0.002	0.002		mg/L	1	12/28/2014
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: **CS**

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-2D
Collection Date: 12/4/2014 12:00:00 PM
Lab Sample ID: 141204076-007
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: **CS**
TDS (Residue, Filterable)	30	5		mg/L	1	12/10/2014
TKN (INCLUDES PREP) - SM 4500 N C						Analyst: **TS**
Nitrogen, Kjeldahl, Total	< 1.0	1.0		mg/L	1	12/17/2014
TOTAL ORGANIC CARBON - SM 5310C						Analyst: **RK**
Total Organic Carbon	7.5	1.0		mg/L	1	12/23/2014 6:03:00 AM
COLOR (PLATINUM-COBALT) - SM 2120B						Analyst: **KB**
Color	> 70	5		cpu	1	12/4/2014 7:30:00 PM
HEXAVALENT CHROMIUM - SM3500-CR D						Analyst: **TS**
Chromium, Hexavalent	< 0.02	0.02		mg/L	1	12/4/2014 6:55:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-9S
Collection Date: 12/4/2014 1:00:00 PM
Lab Sample ID: 141204076-008
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HARDNESS - SM 2340B (Prep: SW3010A - 12/5/2014)						Analyst: SM
Total Hardness (As CaCO3)	116	5		mg/L CaCO3	1	12/19/2014
ICP METALS - EPA 200.7 (Prep: SW3010A - 12/5/2014)						Analyst: SM
Aluminum	0.194	0.100		mg/L	1	12/19/2014 12:25:18 PM
Antimony	< 0.060	0.060		mg/L	1	12/19/2014 12:25:18 PM
Arsenic	< 0.005	0.005		mg/L	1	12/19/2014 12:25:18 PM
Barium	0.066	0.010		mg/L	1	12/19/2014 12:25:18 PM
Beryllium	< 0.005	0.005		mg/L	1	12/19/2014 12:25:18 PM
Boron	< 0.050	0.050		mg/L	1	12/19/2014 12:25:18 PM
Cadmium	< 0.005	0.005		mg/L	1	12/19/2014 12:25:18 PM
Calcium	40.4	0.050		mg/L	1	12/19/2014 12:25:18 PM
Chromium	< 0.005	0.005		mg/L	1	12/19/2014 12:25:18 PM
Cobalt	< 0.050	0.050		mg/L	1	12/19/2014 12:25:18 PM
Copper	0.020	0.005		mg/L	1	12/19/2014 12:25:18 PM
Iron	0.614	0.050		mg/L	1	12/19/2014 12:25:18 PM
Lead	0.021	0.005		mg/L	1	12/19/2014 12:25:18 PM
Magnesium	3.76	0.050		mg/L	1	12/19/2014 12:25:18 PM
Manganese	0.179	0.020		mg/L	1	12/19/2014 12:25:18 PM
Nickel	< 0.020	0.020		mg/L	1	12/19/2014 12:25:18 PM
Potassium	3.39	0.050		mg/L	1	12/19/2014 12:25:18 PM
Selenium	< 0.005	0.005		mg/L	1	12/19/2014 12:25:18 PM
Silver	< 0.010	0.010		mg/L	1	12/19/2014 12:25:18 PM
Sodium	52.5	0.500		mg/L	10	12/19/2014 12:36:01 PM
Thallium	< 0.010	0.010		mg/L	1	12/19/2014 12:25:18 PM
Vanadium	< 0.020	0.020		mg/L	1	12/19/2014 12:25:18 PM
Zinc	< 0.010	0.010		mg/L	1	12/19/2014 12:25:18 PM
MERCURY - EPA 245.1 (Prep: E245.1 - 12/8/2014)						Analyst: TM
Mercury	< 0.0002	0.0002		mg/L	1	12/8/2014
ANIONS BY ION CHROMATOGRAPHY - EPA 300.0						Analyst: CS
Chloride	< 1.00	1.00		mg/L	1	12/5/2014 6:13:57 PM
Bromide	< 1.00	1.00		mg/L	1	12/5/2014 6:13:57 PM
Nitrate, Nitrogen (As N)	0.13	0.02		mg/L	1	12/5/2014 6:13:57 PM
Sulfate	3.74	1.00		mg/L	1	12/5/2014 6:13:57 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-9S
Collection Date: 12/4/2014 1:00:00 PM
Lab Sample ID: 141204076-008
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: SJ
Chloromethane	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
Bromomethane	< 10	10	S-	µg/L	1	12/8/2014 5:43:00 PM
Vinyl chloride	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
Chloroethane	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
Methylene chloride	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Acetone	< 10	10	S-	µg/L	1	12/8/2014 5:43:00 PM
Iodomethane	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
Acrylonitrile	< 25	25		µg/L	1	12/8/2014 5:43:00 PM
Trichlorofluoromethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Carbon disulfide	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,1-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,1-Dichloroethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
trans-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
2,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
cis-1,2-Dichloroethene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Bromochloromethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Chloroform	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,2-Dichloroethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
2-Butanone	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
1,1,1-Trichloroethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Carbon tetrachloride	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Vinyl acetate	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
Bromodichloromethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,2-Dichloropropane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
cis-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,2,3-Trichloropropane	< 5	5	S-	µg/L	1	12/8/2014 5:43:00 PM
Dibromomethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Trichloroethene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Dibromochloromethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,1,2-Trichloroethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Benzene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
trans-1,3-Dichloropropene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Bromoform	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
2-Hexanone	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
4-Methyl-2-pentanone	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
Tetrachloroethene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,1,2,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,2-Dibromoethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Toluene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Chlorobenzene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-9S
Collection Date: 12/4/2014 1:00:00 PM
Lab Sample ID: 141204076-008
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
BASELINE VOLATILES EPA 8260C - (SW5030C PREP)						Analyst: **SJ**
1,1,1,2-Tetrachloroethane	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Ethylbenzene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
Styrene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
o-Xylene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
m,p-Xylene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
trans-1,4-Dichloro-2-butene	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,4-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	12/8/2014 5:43:00 PM
1,2-Dibromo-3-chloropropane	< 10	10		µg/L	1	12/8/2014 5:43:00 PM
Surr: 1,2-Dichloroethane-d4	93.6	80.7-117		%REC	1	12/8/2014 5:43:00 PM
Surr: 4-Bromofluorobenzene	101	80.2-127		%REC	1	12/8/2014 5:43:00 PM
Surr: Toluene-d8	91.8	79.9-122		%REC	1	12/8/2014 5:43:00 PM
ALKALINITY TO PH 4.5 -SM 2320B						Analyst: **PL**
Alkalinity, Total (As CaCO3)	230	10		mg/L CaCO3	1	12/16/2014
AMMONIA (NON-DISTILLED) - EPA 350.1						Analyst: **RK**
Nitrogen, Ammonia (As N)	< 0.1	0.1		mg/L	1	12/17/2014 3:16:00 PM
BOD, 5 DAY, 20°C - SM 5210B						Analyst: **SH**
Biochemical Oxygen Demand	3.6 J	4	B	mg/L	1	12/5/2014 5:50:00 PM
CHEMICAL OXYGEN DEMAND - EPA 410.4						Analyst: **SH**
Chemical Oxygen Demand	49	5		mg/L	1	12/11/2014
CYANIDE, TOTAL - EPA 335.4 (Prep: Method - 12/11/2014)						Analyst: **KB**
Cyanide	< 0.01	0.01		mg/L	1	12/11/2014 4:17:00 PM
PHENOLS, TOTAL - EPA 420.1 (Prep: Method - 12/17/2014)						Analyst: **KB**
Phenolics, Total Recoverable	0.003	0.002		mg/L	1	12/28/2014
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: **CS**

Adirondack Environmental Services, Inc

Date: *29-Dec-14*

CLIENT: Delaware Engineering
Work Order: 141204076
Reference: /
PO#:

Client Sample ID: MW-9S
Collection Date: 12/4/2014 1:00:00 PM
Lab Sample ID: 141204076-008
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM 2540C						Analyst: CS
TDS (Residue, Filterable)	220	5		mg/L	1	12/10/2014
TKN (INCLUDES PREP) - SM 4500 N C						Analyst: TS
Nitrogen, Kjeldahl, Total	< 1.0	1.0		mg/L	1	12/17/2014
TOTAL ORGANIC CARBON - SM 5310C						Analyst: RK
Total Organic Carbon	21.2	1.0		mg/L	1	12/23/2014 6:20:00 AM
COLOR (PLATINUM-COBALT) - SM 2120B						Analyst: KB
Color	> 70	5		cpu	1	12/4/2014 7:30:00 PM
HEXAVALENT CHROMIUM - SM3500-CR D						Analyst: TS
Chromium, Hexavalent	< 0.02	0.02		mg/L	1	12/4/2014 6:55:00 PM

Adirondack Environmental Services Inc.

314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

Experience is the solution

CHAIN OF CUSTODY RECORD

AES Work Order # 14120407G

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: Delaware Engineering	Address: 28 Madison Ave Ext Albany NY 12203		
Send Report To: Ed Fahrenkopf	Project Name (Location)	Samplers: (Names)	
Client Phone No: 518-452-1290	Client Email:	PO Number:	Samplers: (Signature)

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.		Sample Type: Matrix	Comp	Grab	Number of Cont's	Analysis Required
001	MW-7D	12/4/14	0715	A/P	GW		X	9	
002	MW-1S		0815	A/P			X	9	
	MW-3S		0910	A/P			X	9	
	~~MW-~~ MW-10		0950	A/P			X	9	
	MW-4S		1030	A/P			X	9	
	MW-3S		1115	A/P			X	9	
	MW-2D		1200	A/P			X	9	
	MW-9S		1300	A/P			X	9	
				A/P			X	9	
				A/P					
				A/P					
				A/P					
				A/P					
				A/P					

ASP Cat B Part 360 Data Pkg

Shipment Arrived Via:
FedEx UPS Client AES Other:

Turnaround Time Request:
☐ 1 Day ☐ 3 Day ☒ Normal
☐ 2 Day ☐ 5 Day
Note: Samples received after 3:30 pm are considered next business day

CC Report To / Special Instructions/Remarks:
EDD deliverable + email when available

Relinquished by: (Signature) Ed Fahrenkopf	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by: J. Mer	Date/Time 12/4/14 3:01 PM

Temperature	AES Bottles	Properly Preserved	Received Within Holding Times
Ambient / or (Chilled)	Y ☒ N ☐	(Y) N	(Y) N
Notes:		Notes:	Notes:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

Adirondack Environmental Services, Inc.

Adirondack Environmental Services Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.