

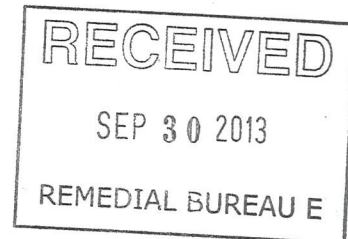
# CORNERSTONE

Engineering and Land Surveying, PLLC

90 Crystal Run Road, Suite 201 • Middletown, NY • 10941 • (877) 294-9070 • Fax: (845) 692-5894

September 27, 2013

Susan Edwards, P.E.  
Chief, Remedial Section D  
Remedial Bureau E  
Division of Environmental Remediation  
12th Floor  
625 Broadway  
Albany, NY 12233-7017



Re: Orange County Landfill – 2013 Annual Landfill Monitoring Reporting

Dear Ms. Edwards:

On behalf of the Orange County Department of Public Works, Division of Environmental Facilities & Services, Cornerstone Engineering, PLLC is pleased to submit the enclosed Orange County Landfill – 2013 Annual Landfill Monitoring Report, in accordance with New York State Department of Environmental Conservation (Department) requirements as has been performed and reported to the Department for the past nineteen years.

As described more fully in the attached report, the July 2013 monitoring results are generally consistent with historical conditions at the landfill.

It is our understanding that Sterling Environmental Engineering, P.C. has drafted a Site Management Plan for Orange County which when adopted may modify the frequency and scope of the landfill monitoring and result in the issuance of a Periodic Review Report in replacement of the Annual Landfill Monitoring Report.

Please contact us if you have any questions or comments.

Sincerely,

**Cornerstone Engineering and Land Surveying, PLLC**

Timothy R. Roeper, P.G.  
Senior Hydrogeologist

Magdalena Mendola  
Project Manager

September 27, 2013

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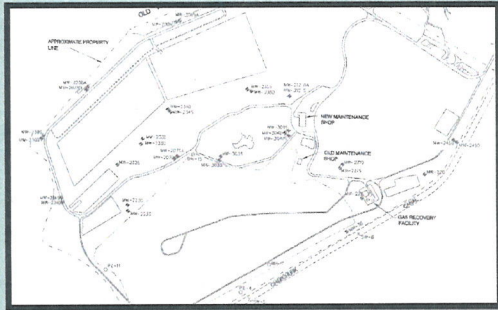
Attachments: Orange County Landfill – 2013 Annual Landfill Monitoring Report

Cc: Pete Hammond, DEF&S  
Mark Millspaugh, Sterling Environmental  
Brad Borquist, DEF&S  
Michael J. Cruden, P.E., NYSDEC (w/o attachments)  
Benjamin A. Conlon, ESQ, NYSDEC (w/o attachments)



# Environmental Monitoring Program 2013 Monitoring Event

## Orange County Landfill Goshen, New York



September 2013

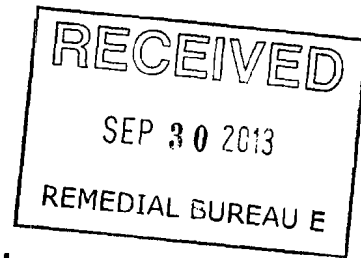
**Prepared for:**

Orange County Dept. of Public Works  
Division of Environmental Facilities and Services  
Site Registry ID No. 3-36-007



90 Crystal Run Road, Suite 201, Middletown, NY 10941

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**ORANGE COUNTY LANDFILL  
ENVIRONMENTAL MONITORING PROGRAM  
2013 MONITORING EVENT**

**ORANGE COUNTY LANDFILL**

**GOSHEN, NEW YORK**

Prepared for  
Orange County Department of Public Works  
Division of Environmental Facilities and Services  
Site Registry ID No. 3-36-007

September 2013

Prepared by



90 Crystal Run Road, Suite 201  
Middletown, NY 10941



# 1 INTRODUCTION

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In accordance with the 6 NYCRR Part 360 Solid Waste Management Facility regulations, Post-Closure environmental monitoring is conducted at the Orange County Landfill (site). The Orange County Landfill is located off Route 17M in the Town of Goshen, Orange County, New York on a 300-acre parcel owned by the County. The landfill is located approximately three miles west of the Village of Goshen and is located between the Wallkill River (Cheechunk Canal) and the abandoned channel of the Old Wallkill River and covers approximately 75 acres of the entire site.

## 1.1 BACKGROUND

The Orange County landfill accepted primarily municipal solid waste from approximately September 1974 until January 1992. In March 1992, the New York State Department of Environmental Conservation (NYSDEC) classified the site as a "Class 2" inactive hazardous waste site. The Class 2 designation indicates "a site at which the disposal of hazardous waste constitutes a significant threat to human health and the environment." According to the NYSDEC, the "threat" at the Orange County Landfill was the possibility of contaminating a principal aquifer underlying the site. The NYSDEC and Orange County entered into a Consent Order on January 17, 1993 which directed Orange County to implement a full remedial program.

In January 1994 the NYSDEC issued a Record of Decision (ROD) accelerating the remedial process at the Orange County Landfill by continuing to collect leachate for off-site treatment, stabilizing the Cheechunk Canal bank, and by constructing a final cap over the waste mass. This was done to significantly reduce the threat to public health and the environment. The January 1994 ROD focused primarily on the 75 acre landfill portion of the property. Construction of the final cover was completed in November 1995. In March 1998, the NYSDEC issued a ROD focusing on the entire 300 acre site. This ROD directed Orange County to comply with the following items:

- Continued collection and off-site disposal of leachate;
- O&M Items- including monthly inspection of the cap, bi-annual mowing, routine maintenance and repair of erosion or stability problems, maintenance/repair of leachate collection system;
- Continued operation of the landfill gas collection system;
- Quarterly monitoring of surface water, groundwater, and leachate;
- Controls and restrictions for future use of the land and groundwater at the site;
- Preparation of a long-term Operation and Maintenance Plan (O&M) Plan.

Orange County and the NYSDEC agreed on a Long Term Post-Closure Monitoring Program for the site in April 2000. The Long Term Post-Closure Monitoring Program

required the completion of quarterly monitoring at 33 locations on and around the landfill as well as the preparation of quarterly monitoring reports for submittal to the NYSDEC.

As part of the 2002 Monitoring Program, C&S prepared a variance request to the NYSDEC to reduce the frequency of monitoring required at the landfill. In December 2002, that variance was approved by the NYSDEC. As discussed in the NYSDEC Variance Approval letter, monitoring at the landfill will be completed once every fifth quarter for baseline parameters.

## **1.2 2013 POST-CLOSURE MONITORING EVENT**

This Report was prepared for the Orange County Department of Public Works, Division of Environmental Facilities & Services by Cornerstone Environmental Group, LLC and documents the activities and results of the 2013 post-closure monitoring event for the Landfill. The report is based upon the analytical results of groundwater and leachate samples collected between July 22 and July 25, 2013. Sterling Environmental Engineering, P.C., under contract to Orange County Department of Public Works, performed the actual collection of the samples. The results of the 2013 post-closure monitoring event are described in this report.

A copy of the laboratory analytical results including the sample chain-of-custody documentation is presented within Appendix A.. A sample of the groundwater within each monitoring well was analyzed in the field for pH, temperature, Eh, turbidity, and conductivity. The amount of water removed from each well was recorded on the groundwater sampling field log sheets included in Appendix B.

## 2.2 DATA EVALUATION

Analytical results from the analysis of the groundwater samples were compared to applicable NYSDEC Class GA Groundwater Quality Standards and Guidance Values. A statistical analysis of shallow and deep up gradient monitoring wells was performed (using standard Microsoft Excel™ statistical analysis functions) on historical analytical data for selected parameters. The results for the selected monitoring wells/piezometers are individual datum from the most recent monitoring event completed in July 2013. The parameters were selected on the basis of data usability, frequency of sampling, the ability to indicate representative concentrations, and the ability to indicate the presence of landfill leachate. More specifically, the parameters used for this statistical analysis include alkalinity, chloride, hardness, phenols, TDS, sulfate, TOC, calcium, iron, magnesium, manganese, potassium, and sodium. Confidence intervals (99 percentile) were calculated from historical data from the up gradient wells.

To further assist in the interpretation of groundwater quality data, groundwater concentration isopleth maps for selected parameters (TOC, alkalinity, ammonia, chloride, COD, TKN, TDS, sulfate, iron, magnesium, manganese, potassium, and sodium) have been completed using AutoCAD. The parameters used were selected based on data usability, frequency of sampling, frequency of detection, the ability to indicate representative concentrations, and the ability to reveal leachate influences. The data used for completion of the isopleth maps were the most recent analytical results for shallow groundwater monitoring wells sampled in July 2013.

## 3 2013 ENVIRONMENTAL MONITORING RESULTS

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### 3.1 GROUNDWATER

Water depths in each of the monitoring wells were measured prior to the completion of well evacuation. The depths were determined by measuring the distance from the top of the PVC riser pipe to the water in the pipe. The groundwater elevations were then determined by subtracting the water depths from the surveyed elevation of the top of the corresponding PVC riser pipe and entered into the historical water level database presented in Table 2. The surveyed elevation of the top of PVC riser pipes, included in Table 2, has been updated to reflect the most recent survey information.

With regard to the flow direction of groundwater, it is expected that shallow groundwater moves in a general west-to-east flow direction as indicated in previous reports. Appendix C includes a groundwater contour map (Figure 1) for the Orange County Landfill. This contour map was prepared using AutoCAD and is consistent with historical mapping.

The groundwater analytical data were compared to applicable NYSDEC Class GA groundwater standards and guidance values (as given in NYSDEC TOGS 1.1.1, June 2004) and are summarized in Table 3. Parameters that were detected at concentrations above standards or guidance values are shown in Table 3 with a shaded box around the value.

Consistent with the results of previous post-closure monitoring, the results indicate that the groundwater near the landfill is characterized by elevated concentrations of TDS, iron, and manganese and occasional exceedances of magnesium, ammonia, chloride, phenolics, arsenic, chromium, lead, selenium and sodium. Parameters that were not detected or were detected at trace levels within the monitoring wells sampled include: cyanide, hexavalent chromium, mercury, antimony, beryllium, cadmium, silver, and thallium. No volatile organic compounds (VOCs) were detected in any of the monitoring well samples. The greatest number of exceedances of Class GA Standards or Guidance Values at the site were in wells MW-3B, MW-222, and MW-245S. In general, concurrent soluble metal analysis of the collected groundwater samples revealed that where elevated total sodium, total magnesium, total manganese, total arsenic, and/or total iron concentrations identified, elevated concentrations of soluble sodium, soluble magnesium, soluble manganese, soluble arsenic, and/or soluble iron were also often identified.

Tables 11 and 12 summarize the historical inorganic and metal data for groundwater monitoring wells near the Existing Landfill. Tables 13 and 14 summarize the historical inorganic and metal data for groundwater monitoring wells near the previously planned Landfill Expansion Areas. Tables 6 and 8 present historical and statistical data for up



gradient groundwater from shallow and deep wells, respectively. A comparison of this quarter's data with the calculated upper confidence level for the average is included in Tables 7 and 9. The upper confidence level for the average is based on the mean plus the 99% confidence interval. The 99% confidence interval is calculated from the standard deviation. Parameters that were detected at concentrations above the upper confidence level for the average are shown in Tables 7 and 9 with a shaded box around the value. It should be noted that the results for the selected monitoring wells/piezometers are individual datum from the April 2012 monitoring event.

To further assist in the interpretation of groundwater quality data, groundwater concentration isopleth maps for parameters including TOC, alkalinity, ammonia, chloride, COD, TKN, TDS, sulfate, iron, magnesium, manganese, potassium, and sodium have been completed using AutoCAD. As previously mentioned, the parameters used were selected based on data usability, frequency of sampling, frequency of detection, the ability to indicate representative concentrations, and the ability to reveal leachate influences. The data used for completion of the isopleth maps were the most recent analytical results for shallow groundwater monitoring wells sampled in July 2013. These maps are presented in Appendix C. The following table summarizes information based on the results of the isopleth maps as well as a comparison of the analytical results:

Parameter	Highest Concentration Areas	Figure No.
Alkalinity	MW-222	2
TOC	MW-222, MW-304VS, MW-3B	3
Ammonia	MW-222	4
Chloride	MW-304VS	5
COD	MW-222, MW-3B	6
TKN	MW-222	7
TDS	MW-304VS, MW-222	8
Sulfate	MW-220, PZ-1A	9
Iron	MW-304VS	10
Magnesium	PZ-4	11
Manganese	MW-304VS	12
Potassium	MW-222, MW-304VS	13
Sodium	MW-304VS	14

### 3.2 SURFACE WATER

The analytical data for the site surface waters are presented in Table 4. A shaded box surrounding the data value indicates those parameter values that exceeded standards or guidance values. The surface water samples collected from surface water monitoring locations SW-3, SW-5, SW-8, and SW-13 exceeded the 0.1 mg/1 Class C surface water standard for total aluminum (1.4 mg/1, 0.99 mg/1, 1.1 mg/1, and 1.0 mg/L respectively). The surface water samples collected from surface water monitoring locations SW-3, SW-5, SW-8, and SW-13 exceeded the 0.3 mg/1 Class C surface water standard for total

iron (1.7 mg/l, 1.2 mg/l, 1.3 mg/l, 1.2 mg respectively). There were no volatile organic compounds detected above method detection limits in any of the surface water samples collected.

The historical data from the upstream sample locations, SW-3 and SW-13, were statistically analyzed to identify the relative background water quality of the upstream surface water. The results of the analysis of upstream (background) surface water quality are presented in Table 10. The downstream surface water samples collected from sampling points SW-5 and SW-8 were slightly higher than the background concentrations for magnesium, potassium and sodium, and for alkalinity in the sample collected from SW-5.

The water quality data for the recently collected upstream and downstream surface water samples did not reveal obvious or significant differences in the parameter concentrations detected. Tables 15 and 16 summarize the historical inorganic and metals analytical data for the surface water samples collected at upstream and downstream locations. The results of the July 2013 monitoring event do not indicate that the water quality of the local surface waters is significantly influenced by the Orange County Landfill.

### **3.3 LEACHATE MANHOLES**

During the 2013 monitoring event, leachate samples were collected from manhole 7 (MH-7) and manhole 15 (MH-15) and analyzed for baseline parameters. As shown in Table 5, the leachate samples collected from MH-7 and MH-15 were generally characterized by detectable to elevated concentrations of TOC, alkalinity, ammonia, BOD, chloride, COD, nitrate, hardness, TKN, TDS, phenolics, sulfate, arsenic, barium, boron, calcium, chromium, copper, iron, magnesium, manganese, nickel, potassium, sodium, and zinc. Inorganic parameters that were either not detected in the leachate sample (or were detected at trace levels) include: cyanide, hexavalent chromium, mercury, aluminum, antimony, beryllium, cadmium, lead, selenium, silver, and thallium. Four VOCs were detected in the MH-7 sample, 1,4-dichlorobenzene and benzene were detected at (J-qualified) laboratory estimated concentrations of 4.7 ug/l and 17 ug/l, respectively, and chlorobenzene and ethylbenzene at concentrations of 24 ug/l and 36 ug/l, respectively. Table 17 summarizes the historical inorganic and metals analytical data for the leachate samples collected from sampling locations MH-7 and MH-15.

### **3.4 LANDFILL INSPECTIONS**

As discussed in the NYSDEC Variance Approval letter, Orange County is required to perform monthly site inspections. The following items are assessed and documented by Orange County personnel on a monthly basis.

- ✓ The presence/absence of leachate outbreaks
- ✓ Obvious signs of surface (cap) settlement or erosion
- ✓ Condition of vegetative cover
- ✓ Landfill security and signs of trespassing

- ✓ Drainage swale integrity
- ✓ The presence of wildlife vectors (over or near cap)
- ✓ Monitoring well integrity (surface features)
- ✓ Landfill gas vent integrity

Based on the 2012 landfill inspection (monthly and daily) report forms, the Orange County landfill cap is being maintained and remains in good condition. The 2012 Orange County Monthly Post-Closure Inspection Reports are maintained at the Orange County facility and are available upon request.

### 3.5 LANDFILL GAS SUMMARY

The amount of landfill gas recovered and the quality of that gas is included within the following table:

**Orange County Sanitary Landfill – Gas Collection Data 2012**

Month	Average LFG Standard Flow Rate	Recovered Gas	Gas Quality			Hour of Flare Operation
	SCFM-60 deg		SCF-60 deg	CH4	O2	CO2
Jan-12	43.94	641,039	52.01	27.10	3.45	243
Feb-12	35.28	646,320	61.43	29.87	0.82	305
Jul-12	164.88	6,830,771	60.61	28.86	1.24	691
Aug-12	161.86	7,225,303	55.35	30.46	0.21	744
Sep-12	95.67	4,132,800	60.63	31.50	0.10	720
Oct-12	91.00	4,062,240	62.55	32.05	0.40	744
Nov-12	100.00	4,320,000	62.29	31.97	0.16	720
Dec-12	100.00	4,464,000	58.63	31.08	0.26	744

It should be noted that:

- The recovered gas figures are based on the average LFG flow rate multiplied by the hours of flare operation, and therefore represent the amount of gas flared.
- The hours of flare operation are calculated from the periods when we have data confirming that the flare was operational - the flare may have been operational for longer periods.
- There is no gas collection data available from March through June 2012, prior to the new flare installation.

TABLE 1 - MONITORING WELL CONSTRUCTION DATA

Monitoring Well	Installation Date	Well Depth	Screen Length	Ground Elevation	Top of Casing	Top of PVC Riser	Unit Screened
<b>Existing Landfill</b>							
PZ-1A	n/a	n/a	n/a	n/a	n/a	<b>385.28</b>	n/a
PZ-4	7/15/83	60	10	n/a	387.36	<b>382.34</b>	Sand/Gravel
PZ-11	n/a	n/a	n/a	n/a	n/a	<b>390.41</b>	n/a
MW-3B	n/a	n/a	n/a	n/a	n/a	<b>386.43</b>	n/a
MW-207 SA	n/a	n/a	n/a	n/a	389.49	<b>389.74</b>	Sand/Gravel
MW-207 D	8/21/87	59	10	n/a	385.45	<b>390.92</b>	Sand/Gravel
MW-220	8/6/87	30	10	n/a	378.90	<b>378.94</b>	Sand/Gravel
MW-221 S	7/10/87	25	10	378.03	381.11	<b>381.44</b>	Sand/Gravel
MW-221 D	8/4/87	54	10	378.25	380.87	<b>381.29</b>	Bedrock
MW-222	8/31/87	32	10	n/a	382.29	<b>382.49</b>	Sand/Gravel
MW-223S	9/3/1987	66.2	2	n/a	388.95	<b>389.25</b>	Sand/Gravel
MW-223D	8/19/1987	88.5	7	n/a	389.15	<b>389.36</b>	Sand/Gravel
<b>Former Landfill Expansion Area</b>							
MW-230 S	8/16/89	68.6	5	382.91	385.33	<b>385.60</b>	Sand/Gravel
MW-230 D	8/30/89	139.5	5	383.07	385.35	<b>385.51</b>	Bedrock
MW-232S	8/31/1989	25.5	10	385.81	388.43	<b>388.64</b>	Sand/Gravel
MW-233S	10/18/1990	19	10	387.34	389.15	<b>389.29</b>	Sand/Gravel
MW-234 S	8/29/89	41.8	8	387.32	390.64	<b>390.63</b>	Sand/Gravel
MW-234 D	8/3/89	86	5	387.87	390.04	<b>390.10</b>	Bedrock
MW-235S	9/11/1989	44.5	10	385.54	388.00	<b>388.04</b>	Sand/Gravel
MW-235D	9/1/1989	83.6	5	385.4	387.37	<b>393.74</b>	Bedrock
MW-245 S	10/26/89	47	10	388.16	390.95	<b>391.13</b>	Sand/Gravel
MW-245 D	10/25/89	81	5	388.08	390.99	<b>391.08</b>	Bedrock
<b>Former Landfill Expansion Area</b>							
MW-303D	n/a	74.54	n/a	n/a	n/a	<b>389.83</b>	n/a
MW-303S	n/a	27.2	n/a	n/a	n/a	<b>389.85</b>	n/a
MW-304D	n/a	62.32	n/a	n/a	n/a	<b>390.08</b>	n/a
MW-304S	n/a	32.59	n/a	n/a	n/a	<b>390.92</b>	n/a
MW304VS	n/a	10.16	n/a	n/a	n/a	<b>390.72</b>	n/a

\* - Estimated values

NOTE: Contains information obtained from previous reports prepared by Wehran-New York, Inc.

**Bold & Italics** - Monitoring Locations were resurveyed in 2003/2004



TABLE 2 - MONITORING WELL ELEVATIONS

	PZ 1A	PZ 4	PZ 11	MW 207SA	MW 207D	MW 303S	MW 303D	MW 304VS	MW 304S	MW 304D	MW 220	MW 221S	MW 221D	MW 222
<i>Top of PVC (TOC)</i>	<i>n/a*</i>	<i>386.22</i>	<i>n/a*</i>	<i>389.13</i>	<i>390.44</i>	<i>n/a*</i>	<i>n/a*</i>	<i>n/a*</i>	<i>n/a*</i>	<i>n/a*</i>	<i>378.16</i>	<i>380.74</i>	<i>380.49</i>	<i>381.75</i>
<i>Resurveyed TOC</i>	<i>385.28</i>	<i>382.34</i>	<i>390.41</i>	<i>389.74</i>	<i>390.92</i>	<i>389.85</i>	<i>389.83</i>	<i>390.90</i>	<i>390.92</i>	<i>390.08</i>	<i>378.94</i>	<i>381.45</i>	<i>381.39</i>	<i>382.99</i>
Nov 1990	n/a*	368.36	n/a*	370.50	370.68						360.71	363.58	365.44	362.38
Feb 1991	n/a*	368.03	n/a*	371.68	371.84						360.04	364.53	365.76	363.34
May 1991	n/a*	367.88	n/a*	372.10	372.29						359.14	364.94	365.57	363.55
Aug 1991	n/a*	365.16	n/a*	369.92	370.13						357.23	362.74	363.00	360.85
Nov 1991	n/a*	365.23	n/a*	368.87	368.94						357.35	361.62	362.83	360.41
Feb 1992	n/a*	366.38	n/a*	369.49	369.71						358.36	362.77	364.00	361.48
May 1992	n/a*	367.31	n/a*	370.92	371.15						359.19	364.02	364.93	362.64
Aug 1992	n/a*	367.15	n/a*	370.51	370.75						359.55	364.01	364.39	362.52
Dec 1992	n/a*	366.38	n/a*	369.10	369.48						359.56	362.76	364.20	361.47
Feb 1993	n/a*	367.88	n/a*	370.78	371.02						359.86	364.33	365.57	363.20
May 1993	n/a*	367.80	n/a*	372.52	372.69						359.14	366.35	365.93	365.03
Sep 1993	n/a*	365.02	n/a*	369.16	369.32						356.85	362.11	362.66	360.93
Dec 1993	n/a*	366.76	n/a*	368.79	369.24						360.29	362.32	363.88	361.22
Feb 1994	n/a*	368.80	n/a*	369.99	370.21						362.22	363.64	365.45	362.41
May 1994	n/a*	368.35	n/a*	372.83	372.97						359.95	366.86	366.66	365.22
Aug-94	n/a*	367.29	n/a*	370.33	370.52						358.11	363.39	364.09	362.13
Nov-94	n/a*	365.94	n/a*	369.58	369.71	n/a*	n/a*	n/a*	n/a*	n/a*	358.03	362.78	363.62	361.60
March - 95	n/a*	368.42	n/a*	372.04	372.25	n/a*	n/a*	n/a*	n/a*	n/a*	360.89	365.46	366.32	365.10
June-95	n/a*	366.11	n/a*	370.35	370.55	n/a*	n/a*	n/a*	n/a*	n/a*	357.76	363.33	362.77	362.62
Sept. - 95	n/a*	369.24	n/a*	368.31	368.38	n/a*	n/a*	n/a*	n/a*	n/a*	356.81	361.38	362.01	360.45
Nov-95	n/a*	372.14	n/a*	370.81	371.04	n/a*	n/a*	n/a*	n/a*	n/a*	360.59	364.52	365.18	363.06
April-96	n/a*	373.37	n/a*	372.98	373.19	n/a*	n/a*	n/a*	n/a*	n/a*	361.57	366.94	364.96	365.17
June-96	n/a*	358.13	n/a*	372.78	372.97	n/a*	n/a*	n/a*	n/a*	n/a*	347.21	366.24	363.46	355.43
Sept-96	n/a*	371.42	n/a*	371.88	372.10	n/a*	n/a*	n/a*	n/a*	n/a*	360.60	364.97	363.25	363.14
Dec-96	n/a*	373.20	n/a*	372.37	372.58	n/a*	n/a*	n/a*	n/a*	n/a*	360.29	365.97	366.47	364.03
May-97	n/a*	373.17	n/a*	372.44	372.65	n/a*	n/a*	n/a*	n/a*	n/a*	360.16	365.74	366.22	364.06
June-97	n/a*	371.37	n/a*	371.28	371.49	n/a*	n/a*	n/a*	n/a*	n/a*	357.82	364.49	364.79	363.10
Sept-97	na/a*	371.20	n/a*	370.24	370.44	n/a*	n/a*	n/a*	n/a*	n/a*	357.04	363.04	363.12	361.52
Dec-97	n/a*	371.35	n/a*	369.21	370.43	n/a*	n/a*	n/a*	n/a*	n/a*	358.97	363.31	364.22	361.73
Mar-98	n/a*	374.47	n/a*	373.04	373.23	n/a*	n/a*	n/a*	n/a*	n/a*	362.68	366.87	367.54	364.62
June-98	n/a*	376.04	n/a*	373.80	373.96	n/a*	n/a*	n/a*	n/a*	n/a*	362.73	368.37	368.47	365.76
Sept.-98	n/a*	370.18	n/a*	370.11	370.29	n/a*	n/a*	n/a*	n/a*	n/a*	357.15	363.19	363.57	362.05
Dec-98	n/a*	369.23	n/a*	369.53	368.69	n/a*	n/a*	n/a*	n/a*	n/a*	357.04	361.60	362.46	360.50
Apr-99	n/a*	372.74	n/a*	372.13	372.31	n/a*	n/a*	n/a*	n/a*	n/a*	360.35	365.18	365.79	363.32
June-99	n/a*	379.59	n/a*	370.62	370.73	n/a*	n/a*	n/a*	n/a*	n/a*	350.96	363.46	363.73	362.12
Sept-99	n/a*	372.31	n/a*	369.67	369.84	n/a*	n/a*	n/a*	n/a*	n/a*	359.54	362.71	362.18	361.04
Dec-99	n/a*	371.16	n/a*	369.99	370.18	n/a*	n/a*	n/a*	n/a*	n/a*	358.25	362.71	363.68	361.31
Apr-00	n/a*	372.82	n/a*	373.21	373.44	n/a*	n/a*	n/a*	n/a*	n/a*	363.18	366.54	367.31	364.25
Jun-00	n/a*	373.31	n/a*	372.56	372.74	n/a*	n/a*	n/a*	n/a*	n/a*	360.32	366.18	366.03	364.52
Sep-00	n/a*	371.96	n/a*	371.33	371.50	n/a*	n/a*	n/a*	n/a*	n/a*	358.80	364.80	364.97	363.30
Dec-00	n/a*	372.52	n/a*	371.03	371.19	n/a*	n/a*	n/a*	n/a*	n/a*	360.96	365.52	363.75	362.35

**TABLE 2 - MONITORING WELL ELEVATIONS**

	PZ 1A	PZ 4	PZ 11	MW 207SA	MW 207D	MW 303S	MW 303D	MW 304VS	MW 304S	MW 304D	MW 220	MW 221S	MW 221D	MW 222
<i>Top of PVC(TOC)</i>	<i>n/a*</i>	<i>386.22</i>	<i>n/a*</i>	<i>389.13</i>	<i>390.44</i>	<i>n/a*</i>	<i>n/a*</i>	<i>n/a*</i>	<i>n/a*</i>	<i>n/a*</i>	<i>378.16</i>	<i>380.74</i>	<i>380.47</i>	<i>381.73</i>
<i>Resurveyed TOC</i>	<i>385.28</i>	<i>382.34</i>	<i>390.41</i>	<i>389.74</i>	<i>390.92</i>	<i>389.85</i>	<i>389.83</i>	<i>390.72</i>	<i>390.91</i>	<i>390.08</i>	<i>378.94</i>	<i>381.44</i>	<i>381.29</i>	<i>382.49</i>
Mar-01	n/a*	375.02	n/a*	373.43	373.60	n/a*	n/a*	n/a*	n/a*	n/a*	363.61	366.84	367.81	364.76
Jun-01	n/a*	372.45	n/a*	372.35	371.54	n/a*	n/a*	n/a*	n/a*	n/a*	359.25	364.93	365.05	363.58
Sep-01	n/a*	370.12	n/a*	369.31	369.46	n/a*	n/a*	n/a*	n/a*	n/a*	356.81	362.24	362.67	360.89
Dec-01	n/a*	369.05	n/a*	367.31	367.59	n/a*	n/a*	n/a*	n/a*	n/a*	356.71	360.82	361.70	359.88
Mar-02	n/a*	369.72	n/a*	368.01	368.14	n/a*	n/a*	n/a*	n/a*	n/a*	353.76	360.47	361.76	353.99
June-02	n/a*	371.35	n/a*	370.37	370.59	n/a*	n/a*	n/a*	n/a*	n/a*	358.91	363.34	363.92	362.23
Sep-02	n/a*	369.24	n/a*	368.06	368.07	n/a*	n/a*	n/a*	n/a*	n/a*	356.44	361.13	361.64	360.23
Dec-02	n/a*	367.79	n/a*	371.05	371.07	n/a*	370.81	383.36	364.89	365.28	359.60	363.50	364.79	362.26
Apr-04	373.84	369.76	374.00	373.64	373.63	373.50	373.40	385.87	367.92	368.32	361.52	367.23	367.45	365.75
Jun-05	374.88	370.74	NS	378.44	364.92	372.55	368.83	383.12	365.92	363.48	358.74	365.34	362.99	364.59
Sep-06	373.18	368.74	373.61	372.24	372.72	372.45	371.83	383.82	366.42	365.58	360.54	366.04	363.89	365.09
Dec-07	372.05	NS	372.19	371.64	371.70	371.15	370.88	384.72	364.62	365.13	360.6	365.68	364.09	363.14
Aug-09	373.40	369.16	373.54	373.18	373.22	372.75	372.88	386.04	367.23	367.73	360.65	366.57	366.54	365.21
Feb-11	371.08	366.33	NS	371.07	371.21	370.55	367.23	384.32	364.30	362.68	359.74	363.69	361.42	NS
Apr-12	372.56	367.85	372.73	372.19	372.23	371.65	371.84	384.08	365.61	364.65	358.8	365.13	365.91	364.18
Jul-13	372.79	368.54	373.21	373.00	373.01	372.25	372.13	383.11	366.07	364.36	359.44	366.59	366.79	365.23

*All elevations are in feet*

*NS - Not Sampled*

*\*No Survey Data Available for Correlation. Wells were resurveyed in 2003/2004*

TABLE 3 - GROUNDWATER ANALYTICAL DATA

Date Sampled	UNITS	Class GA Standard	Class GA Guidance	PZ-1A	PZ-4	PZ-11	MW-3B	MW-2075A	MW-207D	MW-220	MW-221S	MW-221D	MW-222	MW-223S	MW-223D	MW-230S	MW-232S	MW-233S	MW-234D	MW-245S	MW-245D
				7/25/2013	7/25/2013	7/25/2013	7/24/2013	7/23/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/23/2013	7/23/2013	7/23/2013
Specific Conductivity Umhos/cm	umhos/cm			818	1268	1032	1279	863	739	1144	1152	485	1463	848	953	535	616	785	656	1125	943
Eh (MV)	MV			-62.8	-64.3	-84.1	-63.1	-70.2	-46.8	0.8	23.3	-36.2	-72.4	-75.9	-49.7	-50.9	-93.1	18	-62.3	-37.1	-100
Field pH	S U	6.5-6.8		7.1	6.7	7.14	7.59	6.59	6.74	7.32	6.95	7.06	7.45	7.01	6.8	7.4	7.34	7.19	7.55	7.29	7.52
Temperature (deg C)	deg C			11.26	12.76	12.32	14.56	12.78	12.01	12.86	13.98	13.05	13.11	12.57	11.9	12.04	12.2	11.75	13.5	13.19	12.91
Turbidity (NTU)*	NTU			2.17/4	180/500	9.37/73	33.1/18	31.1/270	38.2/51	61.3/58	139/240	9.85/150	34.1/190	52/190	61.6/93	36.7/83	10.41/83	2.89/4	1.42/19.7	132/170	33/98
Color	mg/L			5	30	80	5	50	200	10	20	10	30	40	30	10	100	10	<5.0	10	10
Hardness	mg/L			390	800	540	550	420	370	650	660	330	680	440	500	270	320	430	220	540	400
TDS	mg/L	500		550	820	600	780	480	460	770	750	270	860	520	580	330	370	500	380	890	590
Chloride	mg/L	250		20	45	17	68	28	10	16	32	56	52	7	12	54	2.3	1.1	<2.0	86	43
Sulfate	mg/L	250		200	110	63	36	2.9	92	220	89	17	53	41	74	37	72	59	42	140	120
Alkalinity	mg/L			220	600	540	600	450	290	430	560	120	760	420	460	170	230	330	230	320	340
Ammonia	mg/L	2		0.091	0.16	0.47	4.4	0.21	0.067	0.039	0.017	0.4	12	0.093	0.047	0.020	0.078	0.034	5	0.14	9
Total Kjeldahl Nitrogen	mg/L			0.16	0.52	0.87	4.2	0.59	0.28	0.19	0.48	2.2	9.8	0.31	0.18	0.24	0.36	<0.15	1.7	0.51	7.8
Chemical Oxygen Demand	mg/L			<5	7.8	9	24	11	5.5	9.4	5.5	11	23	<5	5.2	<5.0	6.2	6.8	<5.0	6.5	8.7
Biochemical Oxygen Demand	mg/L			<2.0	<2.0	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chromium, hexavalent	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanide	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOC	mg/L			0.69	1.7	3.2	4.4	2.1	1.4	2	1.9	1.2	5.7	1.8	2	0.43	1.8	2.9	0.77	2.2	3.2
Phenolics	mg/L	0.001		0.0082	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate as N	mg/L	10		0.037	<0.020	0.028	0.14	0.021	0.17	0.020	0.91	0.05	0.025	0.21	0.037	0.071	0.12	7.7	<0.02	0.02	0.49
Mercury	mg/L	0.0007		<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
Mercury, Dissolved	mg/L	0.0007		<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
Aluminum	mg/L			<0.060	5.7	0.090	0.14	1.4	1.8	2.6	3.5	0.094	0.20	0.60	2.3	0.67	0.10	0.060	0.060	5.9	0.79
Aluminum, Dissolved	mg/L			<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Antimony	mg/L	0.003		<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Antimony, Dissolved	mg/L	0.003		<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Arsenic	mg/L	0.025		<0.0056	0.015	0.017	0.056	0.036	0.057	0.036	0.056	0.056	0.056	0.028	0.024	0.0093	0.048	<0.0056	<0.0056	0.021	0.056
Arsenic, Dissolved	mg/L	0.025		<0.0056	0.011	0.015	0.055	0.037	0.048	0.036	0.056	0.056	0.056	0.025	0.022	0.0059	0.048	<0.0056	<0.0056	0.021	0.056
Barium	mg/L	1		0.048	0.092	0.12	0.39	0.32	0.093	0.083	0.23	0.055	0.32	0.077	0.086	0.095	0.14	0.077	0.064	0.12	0.13
Barium, Dissolved	mg/L	1		0.046	0.052	0.12	0.39	0.31	0.089	0.051	0.21	0.051	0.41	0.18	0.066	0.090	0.14	0.078	0.065	0.081	0.12
Beryllium	mg/L		0.003	<0.00030	0.00044	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Beryllium, Dissolved	mg/L		0.003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Boron	mg/L	1		0.070	0.14	0.030	0.25	0.039	0.032	0.040	0.043	0.027	0.22	0.029	0.028	0.018	0.017	0.031	0.033	0.037	0.043
Boron, Dissolved	mg/L	1		0.043	0.11	0.031	0.25	0.026	0.023	0.037	0.042	0.037	0.17	0.021	0.026	0.012	0.013	0.020	0.024	0.033	0.037
Cadmium	mg/L	0.005		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cadmium, Dissolved	mg/L	0.005		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Calcium	mg/L			120	220	160	160	130	120	180	200	45	210	130	150	86	100	120	96	150	120
Calcium, Dissolved	mg/L			120	190	160	160	130	120	170	210	45	200	130	150	84	110	130	98	160	110
Chromium	mg/L	0.05		<0.0010	0.0082	0.0022	0.0010	0.0024	0.0012	0.0047	0.0049	0.0011	0.0011	0.0018	0.0041	0.0013	0.0011	<0.0010	<0.0010	0.0089	0.010
Chromium, Dissolved	mg/L	0.05		<0.0010	0.0013	0.0017	0.0011	<0.0010	<0.0010	0.0011	0.0013	0.0011	<0.0010	0.0011	0.0019	<0.0010	<0.0010	<0.0010	<0.0010	0.0014	0.010
Copper	mg/L	0.2		<0.0016	0.028	0.0016	<0.0016	0.0093	0.0023	0.0041	0.0059	<0.0016	<0.0016	0.0019	0.0025	0.0033	<0.0016	0.0023	<0.0016	0.0073	0.047
Copper, Dissolved	mg/L	0.2		<0.0016	0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	0.0019	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Iron	mg/L	0.3		0.14	10	6.2	1.9	21	3.5	4.3	5.0	0.29	24	8.5	4.3	1.1	5.1	0.023	0.22	6.3	1.5
Iron, Dissolved	mg/L	0.3		0.071	0.067	5.7	1.8	18	1.9	0.24	<0.019	0.12	23	8.6	2.2	0.064	4.4	<0.019	0.20	0.68	0.57
Lead	mg/L	0.025		<0.0030	0.0042	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.044
Lead, Dissolved	mg/L	0.025		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Magnesium	mg/L		35	28	55	32	41	25	23	49	23	18	47	30	34	13	16	34	16	37	30
Magnesium, Dissolved	mg/L		35	27	48	32	41	24	23	47	23	18	44	30	33	12	16	35	16	37	29
Manganese	mg/L	0.3		0.60	1.9	2.4	1.1	0.74	1.7	1.5	0.31	0.038	0.58	2.0	1.9	0.47	0.92	0.29			





TABLE 3 - GRUNDWATER ANALYTICAL DATA

Date Sampled	UNITS	Class GA Standard	Class GA Guidance	MW-303S	MW-303D	MW-304S	MW-304VS	MW-304D	MW-312S
				7/22/2013	7/23/2013	7/22/2013	7/22/2013	7/22/2013	7/23/2013
Specific Conductivity Umhos/cm	umhos/cm			755	1148	775	1884	849	426
Eh (MV)	MV			-35.8	-52.1	-70	-44.9	45.6	-3
Field pH	S.U.	6.5-6.8		7.02	7.55	7.22	7.07	8.97	7.42
Temperature (deg. C)	deg. C			12.7	13.08	12.96	17.02	12.6	13.98
Turbidity (NTU)*	NTU			111/70	29.7/11	157/610	209/180	10.39/87	593/750
Color	mg/L			15	15	15	60	20	40
Hardness	mg/L			380	200	370	370	390	260
TDS	mg/L	500		430	660	410	910	500	250
Chloride	mg/L	250		19	160	28	260	32	0.56
Sulfate	mg/L	250		1.4	100	3.3	9.8	19	14
Alkalinity	mg/L			380	220	340	360	300	200
Ammonia	mg/L	2		0.44	0.42	0.43	0.098	1.4	0.095
Total Kjeldahl Nitrogen	mg/L			1	0.98	0.87	3.5	2.6	0.57
Chemical Oxygen Demand	mg/L			<5.0	30	12	14	17	<5.0
Biochemical Oxygen Demand	mg/L			2.5	<2.0	<2.0	2.6	2.6	<2.0
Chromium, hexavalent	mg/L			<0.005	<0.005	<0.005	<0.005	0.054	0.025
Cyanide	mg/L			<0.005	<0.005	<0.005	0.0086	<0.005	<0.005
TOC	mg/L			3.4	1.3	3.9	4.8	6.6	0.47
Phenolics	mg/L	0.001		<0.005	<0.005	<0.005	<0.005	<0.005	0.0058
Nitrate as N	mg/L	10		0.086	0.3	0.0068	0.06	0.24	0.11
Mercury	mg/L	0.0007		<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
Mercury, Dissolved	mg/L	0.0007		<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
Aluminum	mg/L			1.3	0.16	9.2	38	4.6	3.1
Aluminum, Dissolved	mg/L			<0.050	<0.050	0.11	<0.050	0.10	<0.050
Antimony	mg/L	0.009		<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Antimony, Dissolved	mg/L	0.009		<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Arsenic	mg/L	0.025		0.0059	0.011	0.0083	0.014	0.0080	0.0059
Arsenic, Dissolved	mg/L	0.025		<0.0056	<0.0056	<0.0056	<0.0056	0.012	<0.0056
Barium	mg/L	1		0.10	0.039	0.33	0.40	0.28	0.052
Barium, Dissolved	mg/L	1		0.094	0.030	0.23	0.11	0.11	0.026
Beryllium	mg/L		0.003	<0.00030	<0.00030	<0.00030	0.0020	<0.00030	<0.00030
Beryllium, Dissolved	mg/L		0.003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Baron	mg/L	1		0.020	0.38	0.037	0.045	0.058	0.023
Baron, Dissolved	mg/L	1		0.019	0.36	0.029	0.024	0.054	0.011
Cadmium	mg/L	0.005		<0.00050	<0.00050	<0.00050	0.0046	<0.00050	<0.00050
Cadmium, Dissolved	mg/L	0.005		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Calcium	mg/L			120	50	110	110	120	81
Calcium, Dissolved	mg/L			120	51	110	85	87	75
Chromium	mg/L	0.05		0.0030	0.056	0.030	0.048	0.0015	0.0043
Chromium, Dissolved	mg/L	0.05		0.0012	<0.0010	0.0014	0.0014	<0.0010	<0.0010
Copper	mg/L	0.2		0.016	0.0033	0.030	0.11	0.0030	0.012
Copper, Dissolved	mg/L	0.2		0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Iron	mg/L	0.3		8.4	0.51	26	55	7.9	3.5
Iron, Dissolved	mg/L	0.3		7.2	0.046	10	2.3	2.5	0.019
Lead	mg/L	0.025		0.0047	0.0056	0.0097	0.046	<0.0030	<0.0030
Lead, Dissolved	mg/L	0.025		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Magnesium	mg/L		35	16	18	22	30	26	13
Magnesium, Dissolved	mg/L		35	15	19	19	14	21	11
Manganese	mg/L	0.3		1.8	0.040	2.5	6.4	0.87	0.89
Manganese, Dissolved	mg/L	0.3		1.6	0.019	2.0	4.0	0.33	0.0050
Nickel	mg/L	0.1		0.0061	0.0072	0.023	0.067	0.0029	0.0058
Nickel, Dissolved	mg/L	0.1		0.0019	0.0051	0.0015	0.0041	0.0014	<0.0013
Potassium	mg/L			2.4	4.4	5.3	11	4.1	2.1
Potassium, Dissolved	mg/L			1.9	3.9	2.5	2.3	4.2	1.1
Selenium	mg/L	0.01		<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
Selenium, Dissolved	mg/L	0.01		<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
Silver	mg/L	0.05		<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
Silver, Dissolved	mg/L	0.05		<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
Sodium	mg/L	20		12	180	22	240	23	1.6
Sodium, Dissolved	mg/L	20		12	170	22	250	33	1.7
Thallium	mg/L		0.0005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Thallium, Dissolved	mg/L		0.0005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc	mg/L	2		0.054	0.063	0.070	0.21	0.047	0.028
Zinc, Dissolved	mg/L	2		0.011	0.013	0.014	0.0093	0.018	0.010

TABLE 3 - GROUNDWATER ANALYTICAL DATA

Date Sampled	UNITS	Class 6A Standard	Class 6A Guidance	MW-3035 7/22/2013	MW-3030 7/23/2013	MW-3045 7/22/2013	MW-3045 7/22/2013	MW-3045 7/22/2013	MW-3125 7/23/2013
1,1,1-Trichloroethane	ug/L	5		<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,1,2-Trichloroethane	ug/L	5		<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,1,2,2-Tetrachloroethane	ug/L	1		<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
1,1-Dichloroethane	ug/L	5		<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
1,1-Dibromoethane	ug/L	5		<0.85	<0.85	<0.85	<0.85	<0.85	<0.85
1,2-Dichloroethane	ug/L	3		<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
1,2-Dibromoethane	ug/L	3		<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
1,2-Dichloropropane	ug/L	1		<0.61	<0.61	<0.61	<0.61	<0.61	<0.61
1,3-Dichloropropane	ug/L	3		<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
1,4-Dichlorobenzene	ug/L	3		<0.51	<0.51	<0.51	<0.51	<0.51	<0.51
2-Chloroethyl vinyl ether	ug/L	1		<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Benzene	ug/L	1		<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Bromochloromethane	ug/L	1	50	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
Bromoform	ug/L	1	50	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47
Bromomethane	ug/L	5		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Carbon tetrachloride	ug/L	5		<0.51	<0.51	<0.51	<0.51	<0.51	<0.51
Chlorobenzene	ug/L	5		<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
Chloroethane	ug/L	5		<0.87	<0.87	<0.87	<0.87	<0.87	<0.87
Chloroform	ug/L	7		<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
Chloromethane	ug/L	5		<0.64	<0.64	<0.64	<0.64	<0.64	<0.64
cis-1,2-Dichloroethene	ug/L	5		<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
cis-1,3-Dichloropropene	ug/L	5		<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Dibromochloromethane	ug/L	0.4		<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
Dibromodifluoromethane	ug/L	5		<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Dibromochloromethane	ug/L	5		<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
Dichlorodifluoromethane	ug/L	5		<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
Methylene Chloride	ug/L	5		<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
m-Xylene & p-Xylene	ug/L	5		<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
o-Xylene	ug/L	5		<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Tetrachloroethene	ug/L	5		<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Toluene	ug/L	5		<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
trans-1,2-Dichloroethene	ug/L	5		<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
trans-1,3-Dichloropropene	ug/L	0.4		<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Trichloroethene	ug/L	5		<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Trichlorofluoromethane	ug/L	5		<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
Vinyl chloride	ug/L	2		<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Xylenes, Total	ug/L	5		<1.1	<1.1	<1.1	<1.1	<1.1	<1.1

\*Trubity values include: ["Field Reading"/"Lab Reading"]

TABLE 4 - SURFACE WATER ANALYTICAL DATA

	UNITS	Class C Std.	SW-3	SW-5	SW-8	SW-13
Date Sampled			7/25/2013	7/25/2013	7/25/2013	7/25/2013
Specific Conductivity UmHOS/cm	umhos/cm		456	463	457	6459
Eh (MV)	MV		14.4	-23.6	-11.2	-16
Field pH	S.U.	6.5-8.5	8.06	8.04	7.91	8.09
Temperature (deg. C)	deg. C		22.75	23.79	23.79	23.88
Turbidity (NTU)	NTU		45	41	47	63
TOC	mg/L		5.9	5.4	5.4	5.4
Alkalinity as CaCo3	mg/L		100	130	110	130
Ammonia as N	mg/L		0.076	0.12	0.082	0.077
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0	<2.0
Chloride	mg/L		46	50	51	50
Chemical Oxygen Demand	mg/L		15	17	18	18
Color	mg/L		70	70	80	80
Nitrate as N	mg/L		0.83	1	0.99	0.99
Total hardness as CaCo3	mg/L		160	160	160	160
Kjeldahl Nitrogen as N	mg/L		0.58	0.5	0.55	0.46
Phenolics, Total	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
Total Dissolved Solids	mg/L	500	230	240	260	230
Sulfate as SO4	mg/L		18	16	16	16
Cyanide, Total	mg/L	9	<0.005	<0.005	<0.005	<0.005
Hexachrome	mg/L	0.011	<0.005	<0.005	<0.005	<0.005
Mercury	mg/L	0.0007	<0.00012	<0.00012	<0.00012	<0.00012
Aluminum	mg/L	0.1	1.4	0.99	1.1	1.0
Antimony	mg/L		<0.0068	<0.0068	<0.0068	<0.0068
Arsenic	mg/L		<0.0056	<0.0056	<0.0056	<0.0056
Barium	mg/L		0.033	0.028	0.029	0.028
Beryllium	mg/L	1100	<0.00030	<0.00030	<0.00030	<0.00030
Boron	mg/L	10	0.039	0.042	0.041	0.039
Cadmium	mg/L	2.9	<0.00050	<0.00050	<0.00050	<0.00050
Calcium	mg/L		46	42	42	41
Chromium	mg/L	106	0.0021	0.0021	0.0020	0.0020
Copper	mg/L	13	0.0036	0.0036	0.0034	0.0042
Iron	mg/L	0.3	1.7	1.2	1.3	1.2
Lead	mg/L	6	<0.0030	<0.0030	<0.0030	<0.0030
Magnesium	mg/L		13	14	14	13
Manganese	mg/L		0.21	0.12	0.13	0.12
Nickel	mg/L	75	0.0022	0.0019	<0.0018	<0.0017
Potassium	mg/L		2.7	2.8	2.8	2.8
Selenium	mg/L	0.0046	<0.0087	<0.0087	<0.0087	<0.0087
Silver	mg/L	0.0001	<0.0017	<0.0017	<0.0017	<0.0017
Sodium	mg/L		28	30	30	30
Thallium	mg/L	0.0008	<0.010	<0.010	<0.010	<0.010
Zinc	mg/L	119	0.0081	0.011	0.0066	0.0075
1,1,1-Trichloroethane	ug/L	5	<0.39	<0.39	<0.39	<0.39
1,1,2,2-Tetrachloroethane	ug/L	5	<0.26	<0.26	<0.26	<0.26
1,1,2-Trichloroethane	ug/L	5	<0.48	<0.48	<0.48	<0.48

TABLE 4 - SURFACE WATER ANALYTICAL DATA

	UNITS	Class C Std.	SW-3	SW-5	SW-8	SW-13
Date Sampled			7/25/2013	7/25/2013	7/25/2013	7/25/2013
1,1-Dichloroethane	ug/L	5	<0.59	<0.59	<0.59	<0.59
1,1-Dichloroethene	ug/L	0.6	<0.85	<0.85	<0.85	<0.85
1,2-Dichlorobenzene	ug/L		<0.44	<0.44	<0.44	<0.44
1,2-Dichloroethane	ug/L	5	<0.60	<0.60	<0.60	<0.60
1,2-Dichloropropane	ug/L		<0.61	<0.61	<0.61	<0.61
1,3-Dichlorobenzene	ug/L		<0.54	<0.54	<0.54	<0.54
1,4-Dichlorobenzene	ug/L	3	<0.51	<0.51	<0.51	<0.51
2-Chloroethyl vinyl ether	ug/L		<1.9	<1.9	<1.9	<1.9
Benzene	ug/L	1	<0.60	<0.60	<0.60	<0.60
Bromodichloromethane	ug/L		<0.54	<0.54	<0.54	<0.54
Bromoform	ug/L		<0.47	<0.47	<0.47	<0.47
Bromomethane	ug/L		<1.2	<1.2	<1.2	<1.2
Carbon tetrachloride	ug/L	5	<0.51	<0.51	<0.51	<0.51
Chlorobenzene	ug/L		<0.48	<0.48	<0.48	<0.48
Chloroethane	ug/L		<0.87	<0.87	<0.87	<0.87
Chloroform	ug/L	5	<0.54	<0.54	<0.54	<0.54
Chloromethane	ug/L	5	<0.64	<0.64	<0.64	<0.64
cis-1,2-Dichloroethene	ug/L	5	<0.57	<0.57	<0.57	<0.57
cis-1,3-Dichloropropene	ug/L	1	<0.33	<0.33	<0.33	<0.33
Dibromochloromethane	ug/L	7	<0.41	<0.41	<0.41	<0.41
Dichlorodifluoromethane	ug/L		<0.28	<0.28	<0.28	<0.28
Ethylbenzene	ug/L	0.4	<0.46	<0.46	<0.46	<0.46
Methylene Chloride	ug/L	5	<0.81	<0.81	<0.81	<0.81
m-Xylene & p-Xylene	ug/L		<1.1	<1.1	<1.1	<1.1
o-Xylene	ug/L		<0.43	<0.43	<0.43	<0.43
Tetrachloroethene	ug/L	5	<0.34	<0.34	<0.34	<0.34
Toluene	ug/L	5	<0.45	<0.45	<0.45	<0.45
trans-1,2-Dichloroethene	ug/L	5	<0.59	<0.59	<0.59	<0.59
trans-1,3-Dichloropropene	ug/L	0.4	<0.44	<0.44	<0.44	<0.44
Trichloroethene	ug/L		<0.60	<0.60	<0.60	<0.60
Trichlorofluoromethane	ug/L	5	<0.45	<0.45	<0.45	<0.45
Vinyl chloride	ug/L	2	<0.75	<0.75	<0.75	<0.75
Xylenes, Total	ug/L	5	<1.1	<1.1	<1.1	<1.1



TABLE 5 -- MANHOLE ANALYTICAL DATA

	UNITS	MH-7	MH-15
Date Sampled		7/24/2013	7/22/2013
Eh (MV)	MV	-88	-130.1
Field pH	S.U.	7.61	7.15
Temperature (deg. C)	deg. C	14.31	15.64
Turbidity (NTU)*	NTU	68/340	34.1/6000
TOC	mg/L	180	26
Alkalinity as CaCo3	mg/L	2300	750
Ammonia as N	mg/L	0.64	47
Biochemical Oxygen Demand	mg/L	35	37
Chloride	mg/L	1300	130
Chemical Oxygen Demand	mg/L	890	520
Color	mg/L	250	35
Cyanide, Total	mg/L	0.0064J	<0.005
Hexachrome	mg/L	<0.005	<0.005
Nitrate as N	mg/L	730	0.21
Total hardness as CaCo3	mg/L	800	540
Kjeldahl Nitrogen as N	mg/L	440	50
Phenolics, Total	mg/L	<0.005	0.024
Total Dissolved Solids	mg/L	3900	800
Sulfate as SO4	mg/L	96	2.5
Mercury	mg/L	<0.00012	<0.00012
Aluminum	mg/L	<0.060	4.6
Antimony	mg/L	<0.0068	0.018
Arsenic	mg/L	0.022	0.26
Barium	mg/L	0.16	4.6
Beryllium	mg/L	<0.00030	0.0014
Boron	mg/L	3.0	0.53
Cadmium	mg/L	<0.00050	<0.00050
Calcium	mg/L	150	370
Chromium	mg/L	.011	0.030
Copper	mg/L	0.0031	0.051
Iron	mg/L	15	1100
Lead	mg/L	<0.0030	0.032
Magnesium	mg/L	87	36
Manganese	mg/L	0.57	6.9
Nickel	mg/L	0.089	0.031
Potassium	mg/L	220	32
Selenium	mg/L	<0.0087	<0.0087
Silver	mg/L	<0.0017	<0.0017
Sodium	mg/L	910	120
Thallium	mg/L	<0.010	<0.010
Zinc	mg/L	0.0062	0.060
1,1,1-Trichloroethane	ug/L	<1.5	<1.5
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0
1,1,2-Trichloroethane	ug/L	<1.9	<1.9
1,1-Dichloroethane	ug/L	<2.4	<2.4

TABLE 5 -- MANHOLE ANALYTICAL DATA

	UNITS	MH-7	MH-15
Date Sampled		7/24/2013	7/22/2013
1,1-Dichloroethene	ug/L	<3.4	<3.4
1,2-Dichlorobenzene	ug/L	<1.8	<1.8
1,2-Dichloroethane	ug/L	<2.4	<2.4
1,2-Dichloropropane	ug/L	<2.4	<2.4
1,3-Dichlorobenzene	ug/L	<2.2	<2.2
1,4-Dichlorobenzene	ug/L	4.7J	<2.0
2-Chloroethyl vinyl ether	ug/L	<7.4	<7.4
Benzene	ug/L	17J	<2.4
Bromodichloromethane	ug/L	<2.1	<2.1
Bromoform	ug/L	<1.9	<1.9
Bromomethane	ug/L	<4.8	<4.8
Carbon tetrachloride	ug/L	<2.0	<2.0
Chlorobenzene	ug/L	24	<1.9
Chloroethane	ug/L	<3.5	<3.5
Chloroform	ug/L	<2.2	<2.2
Chloromethane	ug/L	<2.5	<2.5
cis-1,2-Dichloroethene	ug/L	<2.3	<2.3
cis-1,3-Dichloropropene	ug/L	<1.3	<1.3
Dibromochloromethane	ug/L	<1.7	<1.7
Dichlorodifluoromethane	ug/L	<1.1	<1.1
Ethylbenzene	ug/L	36	<1.9
Methylene Chloride	ug/L	<3.3	<3.3
m-Xylene & p-Xylene	ug/L	<4.3	<4.3
o-Xylene	ug/L	<1.7	<1.7
Tetrachloroethene	ug/L	<1.4	<1.4
Toluene	ug/L	<1.8	<1.8
trans-1,2-Dichloroethene	ug/L	<2.4	<2.4
trans-1,3-Dichloropropene	ug/L	<1.8	<1.8
Trichloroethene	ug/L	<2.4	<2.4
Trichlorofluoromethane	ug/L	<1.8	<1.8
Vinyl chloride	ug/L	<3.0	<3.0
Xylenes, Total	ug/L	<4.3	<4.3

\*Turbidity values include: ["Field Reading" / "Lab Reading"]

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

TABLE 6 - SHALLOW UPGRADIENT GROUNDWATER - STATISTICAL ANALYSIS

Monitoring Well	Sample Date	ALK (mg/l)	Cr (mg/l)	Hard (mg/l)	Cond (umhos/cm)	Phenols (mg/l)	TDS (mg/l)	SO4= (mg/l)	TOC (mg/l)	C <sub>6</sub> (mg/l)	F <sub>6</sub> (mg/l)	M <sub>9</sub> (mg/l)	M <sub>11</sub> (mg/l)	K (mg/l)	N <sub>15</sub> (mg/l)
MW-231S	Nov-89		8.7	126	485	0.065	171	45.9	5.9	59.1	0.533		0.0075		15
MW-231S	Feb-90	137	20.6	190		0.011	246	37.3	0.49		3.12		0.145		
MW-231S	Apr-90	164	17	120	266	0.0025	232	38.9	6.46		0.41		0.107		
MW-231S	Nov-90	142	15.7	165	220	0.005	210	36	6.4	58	20	25	0.52	4.6	11
MW-231S	Feb-91	144	15.9	160	320	0.005	248	36.7	12	48.7	8.09	20.8	0.238	3.57	10.5
MW-231S	May-91	154	13.8	162	260	0.005	252	37.2	1.5	50.2	9.73	20	0.287	2.37	10.3
MW-231S	Aug-91	154	14.6	162	410	0.005	252	46.8	4.7	54.5	6.55	17.7	0.262	3.08	10.1
MW-231S	Nov-91	134	13	142		0.005	212	24.3	0.5	31.9	2.52	15.1	0.121	1.3	10.1
MW-231S	Feb-92	152	17.8	187	372	0.005	236	2	43.3	13.6	19.1	19.1	0.346	3.93	9.48
MW-231S	May-92	160	16.5	167	379	0.005	296	85	0.5	40.5	4.7	16.1	0.158	1.41	10.4
MW-231S	Aug-92	152	17.5	215	344	0.005	260	76.8	1	36.6	4.33	30.1	0.174	2.47	6.97
MW-231S	Dec-92	178	16	64	378	0.005	248	56	0.5	39.7	10.3	16.1	0.233	3.42	10.3
MW-231S	Feb-93	170	17.5	139	452	0.005	268	46	7	32.8	4.23	13.9	0.182	1.99	10.1
MW-231S	May-93	162	20	176	318	0.005	276	69.9	5	46.8	5.23	14.4	0.158	2.51	10.4
MW-231S	Aug-93	156	21	180	361	0.005	268	97.7	0.5	40.6	7.84	19.2	0.194	1.83	13.7
MW-231S	Dec-93	156	20	190	351	0.005	232	88.6	2	46.2	4.92	18.2	0.211	2.45	11
MW-231S	Jan-94	152	23	176	448	0.005	232	45.8	0.5	44.2	0.626	16	0.204	1.94	18.5
MW-231S	May-94	164	22	173	359	0.005	268	36.7	16	46.5	2.32	13.8	0.18	0.84	10.4
MW-231S	Aug-94	152	24	182	408	0.005	256	44.7	0.5	52	0.41	12.6	0.16	1.52	0.4
MW-231S	Nov-94	186	24	149	361	0.005	248	38.9	4	39.1	0.3	12.5	0.14	1.25	8.87
MW-231S	March-95	166	26	176	354	0.005	296	42.6	5	45.8	1.83	15	0.19	1.86	8.8
MW-231S	June-95	155	30	168	356	0.005	284	38.2	25	46.9	0.9	12.4	0.2	1.15	7.38
MW-231S	Sept-95	171	25	194	312	0.005	284	32.7	9	52.6	3.32	15.3	0.22	1.9	9.58
MW-231S	Nov-95	172	24	186	319	0.005	288	45.5	0.5	48.6	7.26	15.7	0.28	2.61	21.5
MW-231S	April-96	240	27	350	500	0.001	320	78	0.5	60	7.4	14	0.29	2.1	9.1
MW-231S	Jan-96	190	20	230	485	0.002	270	40	0.5	59	6.2	14	0.31	1.8	8.2
MW-231S	Sept-96	130	15	220	460	0.001	320	38	1.5	65	5.7	14	0.29	1.7	9
MW-231S	Nov-96	20	22	71	178	0.001	130	2	5.9	21	1.5	4.5	0.05	1.1	12
MW-231S	March-97	35	19	120	308	0.001	130	35	2.2	39	2.1	5.7	0.12	1.6	10
MW-231S	June-97	77	17	170	380	0.001	150	21	2	64	4.4	3.5	0.17	1.7	11
MW-231S	Sept-97	36	20	110	170	0.001	110	37	2.8	37	3.4	3.9	0.13	1.4	13
MW-231S	Dec-97	64	16	120	188	0.001	170	34	2.6	40	2.9	4.8	0.13	1.5	14
MW-231S	May-98	150	23	210	412	0.001	260	36	0.5	59	9.1	16	0.33	3.1	9.1
MW-231S	June-98	150	20	230	447	0.001	270	36	0.5	66	11	16	0.53	3.1	9.6
MW-231S	Sept-98	41	21	130	192	0.0038	160	33	2.8	40	6.5	6.7	0.21	3	13
MW-231S	Dec-98	50	20	180	202	0.001	130	33	2.4	60	6	6.5	0.21	0.5	11
MW-230S	Nov-89	141	33.6	209	385	0.007	288	47.5	2.96		5.71		0.449		
MW-230S	Jan-90	146	36.4	210		0.011	281	49.3	8.48		3.55		0.289		
MW-230S	Apr-90	159	35.2	200	387	0.0025	306	58.2	9.34						8.3
MW-230S	Nov-90	161	32.3	215	310	0.005	286	54	9.3	77.5	8.07	14.3	0.499	1.86	7.04
MW-230S	Feb-91	144	31.8	245	400	0.005	353	51	15	89.2	16.2	15.9	0.9	2.71	6.9
MW-230S	May-91	142	30.8	216	340	0.005	329	53	1.5	72.4	2.31	11.4	0.388	1.24	6.72
MW-230S	Aug-91	144	30.2	210	490	0.005	318	51.8	10.4	62.2	12.1	11.9	0.591	2.3	6.98
MW-230S	Nov-91	176	31	204	480	0.005	284	111	0.5	64.7	10.5	13.2	0.498	2.85	6.04
MW-230S	Jan-92	164	32.2	216	464	0.005	302		6		8.2	18.6	0.472	1.76	6.49
MW-230S	May-92	162	29.5		436	0.005	276	46.6	0.5						

TABLE 6 - SHALLOW UPGRADIENT GROUNDWATER - STATISTICAL ANALYSIS

Monitoring Well	Sample Date	ALK (mg/l)	Cl- (mg/l)	Hard (mg/l)	Cond (umhos/cm)	Phosols (mg/l)	TDS (mg/l)	SO4= (mg/l)	TOC (mg/l)	Ca (mg/l)	Fe (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)
MW-230S	Aug-92	140	31	184	408	0.005	316	72.8	0.5	54.9	8.68	11.3	0.43	2.36	4.74
MW-230S	Dec-92	150	27	183	469	0.005	308	63.2	0.5	55.1	7.96	11	0.324	2.18	7.14
MW-230S	Feb-93	182	30	233	495	0.005	340	48.5	19	63.1	27.6	18.1	1.37	4.13	7.3
MW-230S	May-93	168	28	197	332	0.005	276	73.8	6	61.4	10.6	10.6	0.38	2.79	6.91
MW-230S	Aug-93	176	30	195	383	0.005	320	71.3	0.5	48.3	20.9	17.9	0.574	2.07	9.75
MW-230S	Dec-93	150	29	225	391	0.005	328	47.9	2	61.5	14.4	17.3	0.683	3.07	7.94
MW-230S	Feb-94	160	29	253	461	0.005	240	51.1	0.5	77.2	19.7	17	0.72	3.46	7.36
MW-230S	May-94	164	28	244	356	0.005	272	49.1	13	62	6.04	21.6	0.44	0.69	9.65
MW-230S	Aug-94	140	29	187	423	0.005	280	57	0.5	53.7	1.19	12.8	0.12	1.3	6.43
MW-230S	Nov-94	145	30	159	365	0.005	152	52.9	4	47	0.5	10.1	0.18	0.97	7.37
MW-230S	Mar-95	165	32	215	356	0.005	272	49	8	66.2	1.83	12	0.38	1.48	6.5
MW-230S	June-95	143	34	299	357	0.005	308	44.5	0.5	67.6	2.64	31.6	0.46	0.99	6.72
MW-230S	Sept-95	151	3	202	317	0.005	312	45.2	25	61	6.77	12.1	0.44	2.14	7.4
MW-230S	Nov-95	144	30	166	315	0.005	284	47.7	0.5	48.8	2.43	10.7	0.024	1.51	10.4
MW-230S	Apr-96	140	28	520	520	0.001	310	110	0.5	78	12	13	0.55	1.8	7.6
MW-230S	June-96	270	27	200	417	0.001	270	32	0.5	65	9.2	11	0.47	1.7	6.5
MW-230S	Sept-96	160	24	230	410	0.001	240	42	1	70	9.1	12	0.44	1.7	7
MW-230S	Nov-96	70	25	110	329	0.001	180	2	1.3	31	2.9	8	0.081	1.8	8.1
MW-230S	March-97	42	24	130	409	0.001	140	48	1.9	42	4.2	6.5	0.19	2.6	6.2
MW-230S	June-97	62	26	140	246	0.001	160	30	1.9	43	5.2	8.1	0.24	2.3	6.4
MW-230S	Sept-97	32	23	130	240	0.001	190	42	2.5	40	7.6	8	0.27	3.1	11
MW-230S	Dec-97	130	17	160	256	0.001	200	41	1.8	46	14	10	0.49	3.9	12
MW-230S	Mar-98	190	30	250	375	0.001	240	38	0.5	73	20	16	0.86	4.1	9.7
MW-230S	June-98	75	30	190	288	0.001	210	37	1.4	52	14	14	0.55	3	9.1
MW-230S	Sept-98	150	30	250	320	0.001	240	32	1.6	77	16	15	0.61	4.1	8.8
MW-230S	Dec-98	130	42	230	373	0.001	230	30	1.4	73	9.1	11	0.37	0.5	7.2
MW-230S	Dec-99	150	33	280	455	0.001	240	37	0.5	86	18	17	0.78	2	7.1
MW-230S	Apr-00	109	28.6	195	400	0.005	222	45	1.1	59	8.82	11.5	0.396	2.77	8.94
MW-230S	June-01	127	39.6	223	465	0.002	296	41.9	2.2	69.5	16.9	12	0.759	4.79	10.8
MW-230S	Sept-02	139	39	216	447	0.002	275	39.6	0.5	69.4	0.917	10.3	0.366	0.797	7.68
MW-230S	Apr-04	147	42.5	218	436	0.002	273	34.5	0.5	68.7	5.48	11.2	0.432	1.72	7.89
MW-230S	June-05	46.6	31	163	675	0.021	226	39.3	1.48	50.7	0.454	8.79	0.0406	2.4	10.9
MW-230S	Sept-06	180	19	230	113	0.01	310	52	1	69	0.13	14	0.37	5	8.2
MW-230S	Dec-07	160	50	710	436	0.003	350	18	1	210	58	43	4.2	6.9	11
MW-230S	Aug-09	152	53	244	452	0.01	308	36	1	77	3.5	13	0.36	1.6	9.3
MW-230S	Feb-11	160	52	570		0.005	310	34	1	167	69.8	37.2	3.06	4.7	10.5
MW-230S	Apr-12	130	54	440	517	0.005	390	36	0.43	140	20	23	2	1	11
MW-230S	June-13	120	54	270	535	0.005	330	37	0.43	86	1.1	13	0.47	1	12
MW-203DA	Nov-89	112	14	109	219	0.098	186	27.7	3.46		7.94		0.244		
MW-203DA	Feb-90		11	116		0.0025	176	35.6	0.55		21.7		0.973		
MW-203DA	Apr-90	104	9.2	261	215	0.0025	172	28.9	2.08	42	2	5.6	0.26	1	5.7
MW-203DA	Nov-90	111	8.8	125	200	0.005	175	33	6.3	45.8	3.83	6.59	0.303	1.45	5.37
MW-203DA	Feb-91	106	8.9	134	260	0.132	238	36.1	8.2	42.9	2.39	5.82	0.264	1.16	4.8
MW-203DA	May-91	100	5.3	138	220	0.005	188	29.6	3	44.7	2.7	6.25	0.328	1.45	5.46
MW-203DA	Aug-91	102	7.3	130	310	0.005	197	34	9.8	37.5	2.27	5.74	0.281	0.71	5.53
MW-203DA	Nov-91	102	8	117	302	0.005	188	28	2	28.3	21	9.14	0.607	5.6	4.97

TABLE 6 - SHALLOW UPGRADIENT GROUNDWATER - STATISTICAL ANALYSIS

Monitoring Well	Sample Date	ALK (mg/l)	Cr (mg/l)	Hard (mg/l)	Cond (umhos/cm)	Phenols (mg/l)	TDS (mg/l)	SO4 (mg/l)	TOC (mg/l)	Cu (mg/l)	Fo (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	NH (mg/l)
MW-203DA	Feb-92	126	14	84	296	0.005	188		2	37.5	1.9	5.41	0.199	0.79	4.25
MW-203DA	May-92	106	5.5	116	308	0.005	180	27	1						
MW-203DA	Aug-92	96	7.5	109	264	0.005	184	48.2	0.5	34.7	2.27	5.34	0.224	1.34	3.83
MW-203DA	Dec-92	140	5.5	107	295	0.005	132	48.9	0.5	33.7	3.06	5.65	0.186	1.27	5.29
MW-203DA	Feb-93	110	6.5	90.9	312	0.005	240	48.5	6	25.6	7.14	5.96	0.361	2.11	4.53
MW-203DA	May-93	104	6.5	113	224	0.005	168	71.2	4	36.4	3.34	5.41	0.217	1.44	5.59
MW-203DA	Aug-93	110	7	42	296	0.005	184	85.1	0.5	33.9	3.15	6	0.21	0.58	7.56
MW-203DA	Dec-93	112	7	130	288	0.005	192	106	0.5	40.3	4.07	7	0.358	1.43	5.96
MW-203DA	Feb-94	108	7.5	118	303	0.005	164	46.5	0.5	37	3.17	6.1	0.26	1.08	5.03
MW-203DA	May-94	108	6	126	249	0.005	176	24.4	14	38.8	2.9	7	0.32	0.25	6.48
MW-203DA	Aug-94	100	7.5	125	279	0.005	216	32.7	1	40.6	1.42	5.66	0.22	1.13	4.5
MW-203DA	Nov-94	105	8	100	262	0.005	192	35.6	0.5	31.6	0.5	5.02	0.17	0.61	5.79
MW-203DA	March-95	107	12	118	261	0.021	192	36.9	41	37.2	1.71	6	0.25	1.24	5
MW-203DA	June-95	103	11	121	256	0.005	184	28.4	7	39.8	0.46	5.34	0.23	0.9	5.4
MW-203DA	Sept-95	115	8	124	243	0.005	204	26.6	3	40.2	1.63	5.86	0.27	0.97	5.7
MW-203DA	Nov-95	112	7	110	234	0.005	196	47.7	0.5	35.4	1.1	5.38	0.2	1.01	7.58
MW-203DA	April-96	110	7.6	290	286	0.001	210	57	1.9	52	4.2	7.1	0.4	1.1	5.1
MW-203DA	June-96	110	3.7	360	285	0.001	190	32	0.5	41	0.91	5.5	0.19	0.67	4.3
MW-203DA	Sept-96	130	2	190	280	0.001	200	74	0.5	56	22	12	0.85	2.4	5
MW-203DA	Nov-96	110	7.5	130	270	0.0056	170	73	0.5	40	4.5	6.6	0.25	1.2	4.7
MW-203DA	March-97	120	7.3	230	298	0.001	160	37	1.4	69	24	14	0.99	3.7	3.5
MW-203DA	June-97	130	6.7	210	264	0.001	190	38	0.5	63	17	12	0.77	2.1	4.1
MW-203DA	Sept-97	120	16	180	280	0.001	230	36	0.5	54	20	12	0.82	2.6	5.6
MW-203DA	Dec-97	150	8.4	250	293	0.001	240	48	1	74	34	17	1.3	3.6	5.8
MW-203DA	Mar-98	150	7.4	600	306	0.001	200	43	0.5	170	89	45	3.7	10	7.7
MW-203DA	June-98	170	5.5	510	246	0.001	210	29	1	140	94	39	3.5	9.3	7.7
MW-203DA	Sept-98	140	7.2	330	278	0.001	210	26	0.5	92	63	25	1.8	7.8	6.7
MW-203DA	Dec-98	130	10	1300	283	0.001	160	24	1	350	270	100	9.9	3	8.3
MW-208SA	Mar-90	148	38.2	205	398	0.02	284	97.3	3.08		0.799		0.374		
MW-208SA	Apr-90	147	37.8	200	398	0.0025	298	41.6	2.28	76	11	13	0.68	2.6	15
MW-208SA	Nov-90	161	38.2	215	330	0.005	304	54	4.7	78.5	7.89	12.6	0.609	2.12	16
MW-208SA	Feb-91	154	42.7	218	450		365	47	12.1	71	2.37	10.2	0.464	1.26	15.5
MW-208SA	May-91	150	42.5	224	440	0.005	347	44.8	0.5	78.2	3.21	11.5	0.625	1.46	15.6
MW-208SA	Aug-91	160	52.1		570	0.005	384	52.8	13.4	66.9	5.42	10.7	0.512	1.47	15.4
MW-208SA	Nov-91	156	42	186	545	0.005	316	41.4	0.5		0.696	6.6	0.132	0.82	10.3
MW-208SA	Feb-92	156		101	528	0.005		22.8	3	67.7	1.97	10.1	0.384	0.85	14.8
MW-208SA	May-92	156	45.5	211	522	0.005	320	42	0.5						
MW-208SA	Aug-92	154	48	196	486	0.005	364	54.1	0.5	62.7	2.56	9.68	0.386	1.89	13.6
MW-208SA	Dec-92	186	46	190	586	0.005	360	61.1	0.5	59.6	3.9	9.95	0.261	1.89	16.4
MW-208SA	Feb-93	168	45	162	561	0.005	376	44.5	11	50.3	5.03	8.75	0.499	1.95	16.4
MW-208SA	May-93	162	47	198	364	0.005	272	75.1	7	63.2	5.13	9.79	0.393	2.45	19
MW-208SA	Aug-93	172	45	211	412	0.005	340	54.2	0.5	61.7	3.35	13.9	0.331	1.4	19.3
MW-208SA	Dec-93	172	44	229	511	0.005	348	83.3	10	72	3.82	11.8	0.381	1.72	18.4
MW-208SA	Feb-94	170	50	226	514	0.005	296	55.6	0.5	72.5	3.9	11	0.419	1.66	19.4
MW-208SA	May-94	172	49	205	432	0.005	340	47.2	19	64.7	2.76	10.5	0.46	0.81	18.1
MW-208SA	Aug-94	160	47	221	529	0.005	328	59.4	0.5	71.7	0.53	10.1	0.41	1.39	14.9

TABLE 6 - SHALLOW UPGRADIENT GROUNDWATER - STATISTICAL ANALYSIS

Monitoring Well	Sample Date	ALK (mg/l)	Cl- (mg/l)	Hard (mg/l)	Cond (umhos/cm)	Phenols (mg/l)	TDS (mg/l)	SO4= (mg/l)	TOC (mg/l)	Ca (mg/l)	Fe (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)
MW-208SA	Nov-94	186	51	179	445	0.005	352	42.2	0.5	55.8	0.34	9.54	0.32	1.14	19.1
MW-208SA	March-95	175	50	218	417	0.005	344	48.2	9	66.4	2.43	12.6	0.56	2.49	19.4
MW-208SA	June-95	170	51	233	421	0.005	392	44	6	75.4	3.81	10.8	0.63	1.52	16.6
MW-208SA	Sept. - 95	169	47	236	372	0.005	384	48.5	0.5	76.1	2.47	11.1	0.46	1.6	19.8
MW-208SA	Nov-95	168	44	226	389	0.005	372	74.2	6	66.8	9.46	14.3	0.62	2.05	26
MW-208SA	April-96	170	49	320	540	0.001	350	91	2.3	78	5.3	10	0.47	1.4	21
MW-208SA	June-96	210	28	100	528	0.001	340	49	7.8	67	16	11	0.58	2.1	17
MW-208SA	Sept-96	250	4	270	550	0.001	310	100	12	81	39	16	1.2	3.4	19
MW-208SA	Nov-96	200	23	200	513	0.001	320	100	21	51	36	11	0.74	2.4	14
MW-208SA	March-97	240	23	210	561	0.001	310	44	30	64	55	13	0.85	2.8	9.3
MW-208SA	June-97	210	36	230	464	0.001	330	38	9.4	72	18	12	0.53	1.7	13
MW-208SA	Sept-97	210	9.1	200	500	0.001	340	38	7.4	64	15	10	0.45	1.6	20
MW-208SA	Dec-97	240	9.2	190	436	0.001	260	37	23	55	48	13	0.78	2.9	13
MW-208SA	Mar-98	170	7.4	200	436	0.001	280	63	18	56	65	15	0.95	2.1	10
MW-208SA	June-98	180	7.5	160	374	0.001	260	39	24	46	29	12	0.7	1.8	10
MW-208SA	Sept-98	180	13	200	431	0.001	310	47	14	55	24	14	0.79	2.5	15
MW-208SA	Dec-98	180	24	200	441	0.001	270	61	28	60	30	11	0.61	0.5	15
Mean		142.98	24.40	207.71	372.51	0.01	257.95	47.39	4.83	61.57	12.72	13.37	0.57	2.19	10.01
Standard Deviation		41	14	128	105	0	67	20	7	35	26	10	1	1	5
Count		153	154	153	149	154	153	153	155	142	151	143	151	143	145
Confidence Interval		8.57	2.96	26.62	22.12	0.00	13.87	4.07	1.42	7.64	5.54	2.16	0.20	0.32	0.99
Lower Limit		134.41	21.44	181.09	350.39	0.00	244.08	43.33	3.41	53.92	7.18	11.21	0.37	1.86	9.02
Upper Limit (1)		151.55	27.36	234.34	394.63	0.01	271.83	51.46	6.26	69.21	18.26	15.54	0.78	2.51	11.00

Table 6 - Shallow Upgradient Groundwater - Statistical Analysis. The data were collected from 1994 to 1998.

TABLE 7 - SHALLOW GROUNDWATER DATA COMPARISON WITH UPPER CONFIDENCE INTERVAL

Parameter	Units	Upper Confidence Level for the Average <sup>(1)</sup>	PZ 1A	PZ 4	MW 3B	MW 2075A	MW 220	MW 221S	MW 223S	MW 303S	MW 304S	MW 304 VS	MW 312S	MW 233S	MW 245S
Alkalinity	mg/l CaCO3	151.55	220	600	600	450	430	560	420	380	340	360	200	330	320
Chloride	mg/l	27.36	20	45	68	28	16	32	7	19	28	280	0.56	1.1	86
Hardness	mg/l CaCO3	234.34	390	800	550	420	650	600	440	380	370	370	260	430	540
Total Phenols	mg/l	0.01	0.0082	<0.005	<0.005	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	0.0059	0.0052	<0.005
TDS	mg/l	271.83	550	820	730	480	770	750	520	430	410	910	250	500	690
Sulfate	mg/l	51.46	200	110	36	2.9	220	89	41	1.4	3.3	9.8	14	59	140
TOC	mg/l	6.26	0.69	1.7	4.4	2.1	2	1.9	1.8	3.4	3.9	4.8	0.47	2.9	2.2
Calcium, total	ug/l	69.21	120	220	160	130	180	200	130	120	110	110	81	120	150
Iron, total	ug/l	18.26	0.14	10	1.9	21	4.3	3	8.5	8.4	26	55	3.5	0.023	6.3
Magnesium, total	ug/l	15.54	28	55	41	25	49	23	30	16	22	30	13	34	37
Manganese, total	ug/l	0.78	0.6	1.9	1.1	0.74	1.6	0.31	2	1.8	2.5	6.4	0.39	0.29	1.9
Potassium, total	ug/l	2.51	1.9	4.7	5.6	2.5	3.5	3.9	1.7	2.4	5.3	2.3	2.1	2.4	4
Sodium, total	ug/l	11.00	18	28	64	10	12	19	13	12	22	240	1.6	1.5	26

<sup>(1)</sup> Shading denotes value greater than upper confidence level for the average.

<sup>(1)</sup>The upper confidence level for the average is based on the mean plus the 99% confidence interval. The 99% confidence interval is calculated from the standard deviation.

TABLE 8 DEEP UPGRADIENT GROUNDWATER - STATISTICAL ANALYSIS

Monitoring Well	Sample Date	ALK (mg/l)	Cl <sup>-</sup> (mg/l)	Hard (mg/l)	Cond (umhos/cm)	Phenols (mg/l)	TDS (mg/l)	SO <sub>4</sub> <sup>2-</sup> (mg/l)	TOC (mg/l)	C <sub>6</sub> (mg/l)	F <sub>6</sub> (mg/l)	M <sub>6</sub> (mg/l)	M <sub>8</sub> (mg/l)	K (mg/l)	N <sub>6</sub> (mg/l)
MW-230D	Nov-89	113	1.5	79.6	156	0.011	135	5	9.22		0.289			0.106	
MW-230D	Feb-90	123	4.6	120		0.00025	174	13.5	3.57		0.188			0.17	
MW-230D	Apr-90	124	1.5	90	226	0.00025	184	14.1		28	1.6	6.6		1.2	22
MW-230D	Nov-90	130	4.9	130	190	0.005	156	16	9.1	27.5	0.385	6.27		0.125	22.6
MW-230D	Feb-91	126	5	98	250	0.005	184	13.2	8.6	27.5	0.099	6.01		0.118	22.1
MW-230D	May-91	124	1.1	94	180	0.005	155	13	1.5	25.7	0.234	5.84		0.12	21.6
MW-230D	Aug-91	122	2.1	96	300	0.005	170	13.9	4.4	23.6	0.258	5.3		0.14	22.6
MW-230D	Nov-91	134	3	80.7	290	0.005	157	13	0.5	26.1	0.96	5.88		0.144	17.7
MW-230D	Feb-92	126	5.9	89.4	280	0.005	160	12.8	3	24.5	0.281	5.49		0.111	19.9
MW-230D	May-92	122	2.5	83.8	272	0.005	172	17.8	0.5						
MW-230D	Aug-92	124	4.5	76.5	258	0.005	176	55.1	0.5	22	0.291	5.24		0.115	17.7
MW-230D	Dec-92	138	1.5	72.1	290	0.005	160	43.8	0.5	20.8	0.217	4.9		0.084	22.9
MW-230D	Feb-93	132	2.5	65.3	315	0.005	180	14.5	7	18.6	0.7	4.6		0.144	23.6
MW-230D	May-93	126	1.5	78.2	226	0.005	152	48	4	22.7	0.83	5.23		0.099	25
MW-230D	Aug-93	128	3	74.9	247	0.005	148	72.5	0.5	19	0.607	6.68		0.142	28.7
MW-230D	Dec-93	120	2	86.2	262	0.005	140	47.6	2	24	0.787	6.4		0.163	23.9
MW-230D	Feb-94	126	2	82.1	282	0.005	156	38.9	0.5	23	0.858	6		0.106	22.1
MW-230D	May-94	128	1.5	77.3	245	0.005	180	18.6	16	21.2	0.6	5.93		0.12	21.9
MW-230D	Aug-94	124	2.5	85.5	260	0.005	172	17.9	1	25	0.4	5.6		0.14	17.5
MW-230D	Nov-94	153	3	70.2	254	0.005	160	30.6	2	19.1	0.23	5.48		0.12	22.1
MW-230D	March-95	129	2	80.8	248	0.005	164	16.7	5	22.8	0.44	5.8		0.099	21.8
MW-230D	June-95	125	3	86	252	0.005	176	21	18	24.8	0.16	5.76		0.13	19.2
MW-230D	Sept-95	125	1.5	82.6	239	0.005	188	16.8	0.5	23.7	0.16	5.7		0.13	21.3
MW-230D	Nov-95	128	0.5	67.3	239	0.005	176	21.7	0.5	18.1	0.46	5.38		0.12	25.2
MW-230D	Apr-96	140	9.5	160	340	0.001	170	16	16	27	0.78	6.1		0.14	26
MW-230D	June-96	150	0.5	100	272	0.002	170	12	0.5	25	1.4	6		0.14	21
MW-230D	Sept-96	130	0.5	89	270	0.0024	150	11	0.5	26	0.9	6		0.13	22
MW-230D	Nov-96	130	1.9	89	252	0.001	180	39	0.5	25	3.2	6.6		0.16	19
MW-230D	March-97	130	2.7	92	276	0.001	230	37	1	25	4	6.8		0.21	15
MW-230D	June-97	150	3.9	83	255	0.001	140	38	0.5	24	1	5.8		0.15	13
MW-230D	Sept-97	140	4.6	86	260	0.001	180	11	1	25	0.86	5.6		0.16	21
MW-230D	Dec-97	170	2.7	88	281	0.001	220	6.3	0.5	25	1	5.9		0.2	23
MW-230D	March-98	170	2.8	82	272	0.001	190	27	0.5	23	0.69	5.6		0.13	23
MW-230D	June-98	110	1.6	110	260	0.001	180	12	1.1	29	5.8	8.6		0.29	19
MW-230D	Sept-98	150	3.2	110	269	0.0033	210	7	1.1	30	6.1	8.6		0.43	21
MW-230D	Dec-98	130	0.5	91	263	0.001	140	12	0.5	27	3.9	5.7		0.17	18
MW-230D	Apr-99	130	3.8	100	278	0.001	190	13	0.5	29	1.8	6.8		0.19	20
MW-230D	Aug-99	133	2.83	89.9	275	0.006	156	19	0.5	26.1	0.285	6		0.106	21.9
MW-230D	June-01	122	2.6	88.9	284	0.002	136	14.4	0.5	25.9	0.214	5.89		0.097	21.7
MW-230D	Sept-02	125	2.53	86.9	277	0.002	187	13.6	0.5	25.4	0.123	5.7		0.109	21
MW-230D	Apr-04	124	2.39	82.4	230	0.002	143	12.7	0.5	24.1	0.528	5.4		0.161	20.9
MW-230D	June-05	129	5	86.8	642	0.01	164	11.5	1.1	24.5	0.422	6.23		0.103	23.2
MW-230D	Sept-06	110	5.90	450	1064	0.036	1300	130	2	110	1.2	41		0.11	280
MW-230D	Dec-07	120	6.8	85	236	0.003	190	5.5	1.7	24	1.8	6.2		0.35	27
MW-230D	Aug-09	135	2	93	244	0.01	162	13.4	1	27	0.5	6.1		0.13	21
MW-203VD	Nov-89	132	1.5	115		0.005	165	5	1.3		5.11				
MW-203VD	Feb-90	103	11.3	130		0.00025	166	28.4	0.54		0.348			0.0226	



TABLE 8 DEEP UPGRADIENT GROUNDWATER - STATISTICAL ANALYSIS

Monitoring Well	Sample Date	ALK (mg/l)	Cl- (mg/l)	Hard (mg/l)	Cond (umhos/cm)	Phenols (mg/l)	TDS (mg/l)	SO4= (mg/l)	TOC (mg/l)	Ca (mg/l)	Fe (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)
MW-203VD	Apr-90	130	1.5	108	209.5	0.00025	151	5	2.88	29	0.92	12	0.04	1	11
MW-203VD	Nov-90	136	3.9	110	180	0.005	146	10	3	28.4	0.364	11.1	0.023	0.867	11.3
MW-203VD	Feb-91	132	2	118	240	0.019	185	11.5	10	29.4	0.13	10.6	0.024	0.915	10.9
MW-203VD	May-91	130	0	116	180	0.005	157	6.25	1.5	27.4	0.184	10.7	0.026	1.02	10.9
MW-203VD	Aug-91	128	0.5	116	290	0.005	167	0	4.5	24.8	0.926	10.6	0.038	0.75	11.2
MW-203VD	Nov-91	130	3	106	272	0.005	156	11.4	0.5	25.8	2.2	11.3	0.051	1.39	9.55
MW-203VD	Feb-92	148	3	111	268	0.005	164	7.1	3	25.7	0.699	10.9	0.023	0.69	9.94
MW-203VD	May-92	128	0.5	109	259	0.005	124	14.2	0.5						
MW-203VD	Aug-92	128	2.5	98.7	241	0.005	164	15.2	0.5	23.7	1.08	9.6	0.029	1.41	9.14
MW-203VD	Dec-92	122	0.5	108	268	0.005	196	45.8	0.5	24.8	1.77	11.3	0.036	1.23	11.4
MW-203VD	Feb-93	132	0.5	74.7	284	0.005	180	8.6	10	18.5	1.08	7.9	0.041	1.06	10.5
MW-203VD	May-93	130	1.5	95.3	209	0.005	140	49.3	15	23.2	0.56	9.09	0.033	1.02	12.1
MW-203VD	Aug-93	130	0.5	114	239	0.005	156	52.4	0.5	20.3	0.869	15.3	0.067	0.44	15.8
MW-203VD	Dec-93	126	0.5	113	233	0.005	140	66.2	8	25.1	1.6	12.2	0.048	1.19	12.7
MW-203VD	Feb-94	132	0.5	142	270	0.005	136	38.2	0.5	27.2	1.86	18	0.035	1.11	11.2
MW-203VD	May-94	136	0.5	96.7	230	0.005	146	18.6	12	21.9	0.37	10.2	0.037	0.61	11.4
MW-203VD	Aug-94	124	0.5	74.6	260	0.005	148	14.6	0.5	12.9	0.24	10.3	0.011	0.92	9.09
MW-203VD	Nov-94	145	1	83.8	238	0.005	260	31.4	9	18.4	0.22	9.2	0.028	1.26	10.8
MW-203VD	March-95	129	0.5	102	247	0.035	160	11.7	14	23.2	0.66	10.6	0.01	1.08	13.2
MW-203VD	June-95	129	2	108	239	0.005	148	4.3	7	25	0.11	11	0.022	1	9.65
MW-203VD	Sept-95	133	0.5	104	273	0.005	164	9.1	8	24.5	0.34	10.3	0.044	1	10.5
MW-203VD	Nov-95	136	0.5	99.2	235	0.005	168	24.5	18	22.9	1.04	10.2	0.056	1.32	13.5
MW-203VD	Apr-96	150	8.6	160	260	0.001	160	10	0.5	28	0.4	11	0.028	1.4	14
MW-203VD	June-96	160	0.5	220	265	0.001	160	6.5	0.5	23	0.13	9.3	0.023	0.93	10
MW-203VD	Sept-96	120	0.5	100	260	0.001	170	13	0.5	24	0.4	10	0.05	1.1	10
MW-203VD	Nov-96	130	0.5	110	241	0.001	159	2.5	0.5	26	0.36	10	0.024	0.5	9.9
MW-203VD	March-97	150	0.5	110	252	0.001	170	10	1	26	0.45	10	0.023	1	6.8
MW-203VD	June-97	150	0.5	120	236	0.001	140	6.9	0.5	28	0.8	11	0.032	1	8.4
MW-203VD	Sept-97	170	39	100	250	0.001	160	6.4	1.1	25	0.26	9.6	0.024	0.5	11
MW-203VD	Dec-97	150	1.9	110	272	0.001	150	28	0.5	27	0.25	10	0.033	0.5	10
MW-203VD	May-98	170	0.5	120	274	0.001	150	27	0.5	29	0.76	11	0.031	1	11
MW-203VD	June-98	350	0.25	120	273	0.001	180	5.8	0.5	28	1.4	12	0.052	1.1	11
MW-203VD	Sept-98	150	2.4	120	244	0.001	160	9.6	1.1	27	1.1	12	0.037	1.3	11
MW-203VD	Dec-98	140	1.6	98	242	0.001	120	8.6	0.5	26	1.1	8	0.037	0.5	8.3
MW-208VD	Mar-90	102	8	94.4		0.022	172	36.9	7.41		0.782		0.128		
MW-208VD	Apr-90	103	4.7	98.6	206.5	0.00025	158	25.1	2.48	32	2.4	7.6	0.17	1.3	16
MW-208VD	Nov-90	113	5.9	110	210	0.0025	182			31.9	0.989	7.16	0.114	0.962	12.3
MW-208VD	Feb-91	102	6	114	250	0.005	225	28.8	7.6	31.2	0.177	6.75	0.11	0.928	11.6
MW-208VD	May-91	102	3.2	112	190	0.005	180	27.4	1.5	31.5	1.61	7.48	0.155	1.18	11.9
MW-208VD	Aug-91	102	5.2	108	300	0.005	169	30	10	28.3	1.14	6.7	0.15	0.75	11.2
MW-208VD	Nov-91	170	6	98.3	278	0.005	169	29.2	0.5		3.72	10.4	0.487	1.78	13.1
MW-208VD	Feb-92	178	46.5		282	0.005			3	21.2		11.3	0.42		12.2
MW-208VD	May-92	100	4.5	98.9	265	0.005	132	28.6	0.5						
MW-208VD	Aug-92	100	7.5	90.3	256	0.005	172	32.8	0.5	25.9	1.13	6.22	0.132	1.24	7.11
MW-208VD	Dec-92	114	4	89	277	0.005	204	56	0.5	22.5	6.99	7.95	0.152	2.65	11.9
MW-208VD	Feb-93	110	4.5	76.4	294	0.005	200	42	8	20.2	3.71	6.32	0.207	1.61	10.5
MW-208VD	May-93	102	4	96.6	225	0.005	160	62.2	4	28.9	1.04	5.93	0.11	0.99	11.3

TABLE 8 DEEP UPGRADIENT GROUNDWATER - STATISTICAL ANALYSIS

Monitoring Well	Sample Date	ALK (mg/l)	Cl- (mg/l)	Hard (mg/l)	Cond (u mhos/cm)	Phenols (mg/l)	TDS (mg/l)	SO4= (mg/l)	TOC (mg/l)	Ca (mg/l)	Fe (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)
MW-208VD	Aug-93	104	4	88.5	234	0.005	164	50.5	0.5	19.3	7.57	9.8	0.198	1.81	13.1
MW-208VD	Dec-93	100	5	196	256	0.005	168	80.7	0.5	30.4	0.277	7.2	0.141	0.79	12.2
MW-208VD	Feb-94	102	0.5	95.6	270	0.005	148	44.3	0.5	27.4	0.287	6.6	0.124	0.67	10.3
MW-208VD	May-94	104	3	96	236	0.005	168	22.4	9	27.3	1.41	6.68	0.13	0.56	10.7
MW-208VD	Aug-94	100	4.5	104	264	0.005	164	31.1	1	27.3	4.64	8.7	0.23	2.16	9.45
MW-208VD	Nov-94	121	5	84.5	246	0.005	184	37.2	0.5	22.9	0.26	6.64	0.13	0.76	14.1
MW-208VD	Mar-95	114	5	100	252	0.005	176	33.7	6	27.6	1.37	7.6	0.17	1.36	11.8
MW-208VD	Jun-95	102	6	96	248	0.005	172	28.4	16	28.1	0.08	6.42	0.15	1.3	8.42
MW-208VD	Sept-95	101	7	104	255	0.005	196	23.4	0.5	27.8	3.47	8.5	0.24	1.67	10.5
MW-208VD	Nov-95	100	5	95.3	235	0.005	192	40.5	0.5	27.3	0.17	6.6	0.14	0.67	12.1
MW-208VD	Apr-96	210	9.5	150	260	0.001	180	5.5	8.5	37	1.2	7.5	0.18	1.3	12
MW-208VD	Jun-96	130	1.9	100	271	0.0026	170	23	1	30	0.7	6.6	0.14	0.82	9.9
MW-208VD	Sept-96	170	0.5	110	260	0.001	150	26	1.5	31	0.34	7	0.15	0.5	8.9
MW-208VD	Nov-96	110	3.7	93	257	0.001	200	30	0.5	26	0.38	6.6	0.14	0.5	8.6
MW-208VD	Mar-97	180	5.4	94	385	0.001	190	29	0.5	28	0.22	5.9	0.13	0.5	10
MW-208VD	Jun-97	140	5.3	170	263	0.001	180	22	0.5	33	0.57	6.9	0.13	0.81	8.9
MW-208VD	Sept-97	140	5.5	99	260	0.001	160	28	1.6	30	0.28	6.1	0.13	0.5	10
MW-208VD	Dec-97	170	4.6	100	299	0.001	160	38	0.5	31	0.44	6.1	0.15	0.5	10
MW-208VD	Mar-98	140	5.6	120	325	0.001	180	36	0.5	35	0.3	7	0.15	0.5	11
MW-208VD	Jun-98	110	5.8	110	261	0.001	160	26	1.4	32	0.31	6.7	0.14	0.5	10
MW-208VD	Sept-98	170	6	110	267	0.001	210	26	1.2	33	0.32	7.4	0.15	0.92	9.7
MW-208VD	Dec-98	110	7	110	296	0.001	150	23	0.5	34	1.1	5.7	0.15	0.5	8.4
Mean		131	9	103	266	0.004	178	25	3	27	1	8	0.12	1.06	17
Standard Deviation		28	54	38	90	0.005	107	19	4	9	1	4	0.08	0.69	26
Count		116	116	115	112	116	115	114	114	107	112	108	112	107	108
Confidence Interval		7	13	9	22	0.001	26	5	1	2	0.4	1	0.02	0.17	6
Lower Limit		124	4	94	245	0.003	152	20	2	24	0.8	7	0.10	0.88	11
Upper Limit (1)		137	22	113	288	0.006	204	30	4	29	1.5	9	0.14	1.23	24

1. The data for this table were obtained from the following sources: (1) Groundwater monitoring data from the following wells:

TABLE 9 - DEEP GROUNDWATER DATA COMPARISON WITH UPPER CONFIDENCE INTERVAL

Parameter	Units	Upper Confidence Level for the Average <sup>(1)</sup>	MW 207D	MW 221D	MW 223D	MW 303D	MW 304D	MW 234D	MW 245D
Alkalinity	mg/l CaCO <sub>3</sub>	137	290	120	460	220	300	230	340
Chloride	mg/l	22	10	56	12	160	32	37	43
Hardness	mg/l CaCO <sub>3</sub>	113	370	330	500	200	390	300	400
Total Phenols	mg/l	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.0087
TDS	mg/l	204	460	270	580	670	500	380	590
Sulfate	mg/l	30	92	17	74	100	19	66	120
TOC	mg/l	4	1.4	1.2	2	1.3	6.6	0.77	3.2
Calcium, total	ug/l	29	120	45	150	50	120	96	120
Iron, total	ug/l	1.5	3.5	0.29	4.3	0.51	7.9	0.22	1.5
Magnesium, total	ug/l	9	23	18	34	18	26	16	30
Manganese, total	ug/l	0.14	1.7	0.038	1.6	0.04	0.87	0.4	0.45
Potassium, total	ug/l	1.23	1.2	7.5	2	4.4	4.1	1.4	3.5
Sodium, total	ug/l	24	8.7	16	13	180	23	14	43

Shading denotes value greater than upper confidence level for the average.

<sup>(1)</sup>The upper confidence level for the average is based on the mean plus the 99% confidence interval. The 99% confidence interval is calculated from the standard deviation.

TABLE 10 - UPSTREAM/DOWNSTREAM SURFACE WATER QUALITY - STATISTICAL ANALYSIS RESULTS AND COMPARISON

Sample Location	Sample Date	ALK (mg/l)	NH3 (mg/l)	Cl- (mg/l)	Hard (mg/l)	NO3- (mg/l)	Phenols (mg/l)	SO4= (mg/l)	TOC (mg/l)	Ca (mg/l)	Fe (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)
SW-3	Nov-91	126	0.13	46	191	0.4	0.005	60.2	0.5	51.8	2.7	13.1	0.167	2.75	21.3
SW-3	Feb-92	84	0.18	31.7	113	0.27	0.005	41.6	6	31.1	4.63	8.63	0.135	1.83	12.9
SW-3	May-92	122	0.06	50	134	0.88	0.005	12.6	0.5	36.70	0.59	10.30	0.08	1.06	15.0
SW-3	Aug-92	122	0.02	42	150	1.08	0.005	45.6	0.5	41.6	0.591	11.2	0.069	2.78	14
SW-3	Dec-92	122	0.2	31.5	117	0.01	0.005	64.4	0.5	32.1	0.345	9.05	0.050	1.69	17.2
SW-3	Feb-93	120	0.08	46.5	115	1.18	0.005	32.5	12	30.2	0.299	9.50	0.072	1.36	22.3
SW-3	Jun-93	134	0.01	39.0	156	1.2	0.005	74.4	5	42	0.841	12.4	0.075	1.9	21.2
SW-3	Sep-93	168	0.01	56.0	169	0.93	0.005	75.2	2.0	44.2	1.61	23.6	0.097	2.68	30.0
SW-3	Dec-93	60.0	0.01	25.0	114	1.6	0.005	46.0	13.0	30.2	0.909	9.3	0.080	1.64	12.1
SW-3	Mar-94	68.0	0.01	41.0	111	0.81	0.005	59.6	9.0	29.6	0.453	8.9	0.049	1.59	19.5
SW-3	Jun-94	140	0.01	39.0	161	0.70	0.005	25.3	0.5	42.4	0.36	13.4	0.066	1.29	20.1
SW-3	Aug-94	60	0.01	24.5	89.2	0.87	0.005	58.5	9	25.6	0.95	6.15	0.01	2.22	9.86
SW-3	Nov-94	71	0.16	30	82.4	0.92	0.013	43.6	10	20.5	1.02	7.6	0.13	2.82	13.5
SW-3	March-95	112	0.07	35	147	0.76	0.005	22.3	5	29	0.37	11	0.051	1.12	16
SW-3	June-95	121	0.11	45	166	1.17	0.005	29.9	2	40.8	0.55	15.5	0.11	2.06	20.6
SW-3	Sept.-95	126	0.16	58	173	1.26	0.005	41	12	38.4	0.88	18.8	0.088	3.92	26.7
SW-3	Dec-95	96	0.06	34	120	1.12	0.005	46	0.5	29.8	0.36	11	0.061	1.64	20.7
SW-3	April-96	100	0.015	39	180	0.18	0.001	28	6.1	34	0.33	11	0.041	1.7	20
SW-3	June-96	130	0.015	35	170	0.71	0.001	38	6.8	42	1.1	13	0.12	2	22
SW-3	Sept-96	96	0.015	22	120	0.64	0.0053	29	11	34	1.1	9.4	0.08	1.8	15
SW-3	Nov-96	100	0.015	29	110	0.88	0.001	22	6.1	30	0.43	9.5	0.05	1.4	14
SW-3	March-97	92	0.015	40	82	0.71	0.001	24	4.9	24	0.41	5.3	0.09	1.1	12
SW-3	Sept-97	170	0.015	41	140	0.63	0.002	29	8.5	36	1.2	11	0.086	2	21
SW-3	Dec-97	200	0.015	29	86	0.23	0.002	47	11	25	0.27	5.6	0.049	1.5	17
SW-3	Mar-98	56	0.015	32	90	0.36	0.002	33	6.9	20	0.59	4.8	0.04	1.3	17
SW-3	June-98	53	0.015	14	65	1.1	0.001	12	9.5	18	3.2	4.9	0.12	2.4	8.3
SW-3	Sept-98	200	0.015	61	220	0.78	0.001	39	5	55	2	21	0.12	4.3	29
SW-3	Dec-98	150	0.015	76	190	0.91	0.001	26	5.5	51	1.2	14	0.11	0.5	23
SW-3	Dec-00	45.8	0.05	30.6	95.2	1.54	0.0066	34	8.9	27.9	0.921	6.2	0.113	2.25	14.9
SW-3	March-01	72.8	0.05	39.7	101	1.12	0.002	33	5	26.8	0.696	8.27	0.044	1.41	18.4
SW-3	June-01	72.3	0.05	40.3	100	0.479	0.002	20.1	20	29.2	1.53	6.63	0.163	1.75	19
SW-3	Sept-01	171	0.05	73.8	237	0.67	0.002	44.6	5.3	60	0.97	21.2	0.135	3.4	38
SW-3	Dec-01	143	0.05	63.8	200	0.95	0.0232	35	4.2	51.4	0.878	17.3	0.122	3.11	32.1
SW-3	Mar-02	92.3	0.05	77.9	156	0.724	0.002	55.8	6.4	44	0.544	11.2	0.099	1.75	30.2
SW-3	June-02	113	0.05	49.3	144	0.784	0.002	29.3	7.9	38.9	0.736	11.5	0.099	1.78	24.6
SW-3	Sept-02	155	0.189	78.5	232	1.34	0.002	66.6	5.6	61.5	1.34	19.1	0.148	4.32	36.6
SW-3	Dec-02	50.9	0.05	38.9	123	0.64	0.002	54	9	33.8	0.386	9.46	0.065	4.38	19
SW-3	Apr-04	96.4	0.05	48	118	0.5	0.002	17.4	6.4	31.9	1.19	9.2	0.118	2.11	22
SW-3	Sept-05	188	0.5	81	257	1.01	0.005	38.5	5.9	64	0.248	23.7	0.211	5.45	39.8
SW-3	Dec-07	85	0.03	75	150	1.1	0.003	10	6.3	41	0.36	12	0.078	2.5	40
SW-3	Aug-09	136	0.1	55	154	0.6	<0.01	5.19	9.3	40	0.85	13	0.12	2	29
SW-3	Apr-12	160	0.056	50	160	0.57	<0.005	21	4.8	48	0.71	16	0.13	1.8	30
SW-3	Jul-13	100	0.076	46	160	0.83	<0.005	18	5.9	46	1.7	13	0.21	2.7	28

TABLE 10 - UPSTREAM/DOWNSTREAM SURFACE WATER QUALITY - STATISTICAL ANALYSIS RESULTS AND COMPARISON

Sample Location	Sample Date	ALK (mg/l)	NH3 (mg/l)	Cl- (mg/l)	Hard (mg/l)	NO3- (mg/l)	Phenols (mg/l)	SO4= (mg/l)	TOC (mg/l)	Ca (mg/l)	Fe (mg/l)	Mg (mg/l)	Mn (mg/l)	K (mg/l)	Na (mg/l)
SW-13	Apr-99	93	0.015	43	120	0.58	0.001	23	5.2	31	0.59	10	0.06	1.5	17
SW-13	June-99	150	0.015	53	260	0.55	0.0026	26	5.8	67	8.2	21	1	3.2	37
SW-13	Sept-99	91	0.015	40	200	1.2	0.001	91	11	56	1.2	14	0.15	2.6	23
SW-13	Dec-99	120	0.092	35	190	3.1	0.001	97	10	57	1.3	12	0.2	3.1	16
SW-13	Apr-00	64.9	0.117	30.8	98.4	1.82	0.002	30	7	27.2	1.26	7.4	0.058	1.75	15.3
SW-13	June-00	116	0.05	36.1	140	0.753	0.002	20	10	37.3	0.86	11.4	0.098	1.65	19.4
SW-13	Sept-00	147	0.05	42.5	172	1.17	0.002	28	12	45.4	0.557	14.3	0.095	2.51	21.8
SW-13	Dec-00	52.6	0.05	30.2	96.7	1.67	0.002	36	9	28.1	1.09	6.44	0.111	2.18	14.9
SW-13	March-01	75	0.05	40.2	111	1.2	0.002	30	5	29.2	1.63	9.2	0.123	1.22	18.4
SW-13	June-01	93.7	0.05	43.1	127	1.03	0.0045	21.5	16	34.4	1.36	10.1	0.103	2.36	20
SW-13	Sept-01	175	0.05	71.3	235	0.678	0.002	50.5	5.5	59.4	1.05	21	0.134	3.43	37.6
SW-13	Dec-01	144	0.05	64.4	201	0.96	0.002	36	4.5	52.2	0.889	17.1	0.123	2.98	30.9
SW-13	Mar-02	72.7	0.05	77.5	142	0.729	0.002	55.7	6.1	40	0.561	10.2	0.09	1.6	27.1
SW-13	June-02	106	0.05	50.1	146	0.83	0.002	27.4	8	39.3	0.732	11.7	0.094	1.71	24.8
SW-13	Sept-02	159	0.05	76.5	234	1.38	0.002	66.7	5.7	62	0.793	19.2	0.138	4.18	37
SW-13	Dec-02	53.4	0.05	40.1	123	0.68	0.002	52.7	10	34.9	0.292	8.76	0.048	1.86	18.5
SW-13	Apr-04	102	0.05	49.3	122	0.53	0.002	18.3	6.1	32.9	0.991	9.7	0.092	2.02	22.3
SW-13	Sept-05	187	0.5	82	245	1.15	0.005	38.8	5.75	60.7	0.36	22.7	0.216	5.22	37.9
SW-13	Sept-06	89	0.5	23	140	0.35	0.01	48	18	43	1.3	9.4	0.29	5	16
SW-13	Dec-07	85	0.097	78	150	0.98	0.003	11	6.3	40	0.37	11	0.076	2.5	41
SW-13	Aug-09	158	0.07	34	172	0.4	<0.010	38.1	12	51	0.8	11	0.11	1.4	19
SW-13	Apr-12	160	0.51	51	200	0.61	<0.005	20	4.6	47	0.81	17	0.14	1.9	30
SW-13	Jul-13	130	0.077	50	160	0.99	<0.005	16	5.4	41	1.2	13	0.12	2.8	30
<b>Mean</b>	<b>= AVERAGE</b>	114	0.08	47	151	0.89	0.004	37	7	40	1	12	0.118	2	23
<b>Standard Deviatio</b>	<b>= STDEVP</b>	40	0.12	17	47	0.45	0.003	19	4	12	1	5	0.120	1	8
<b>Count</b>	<b>= COUNT</b>	66	66	66	66	66	60	66	66	66	66	66	66	66	66
<b>Confidence Interv</b>	<b>= CONFIDENCE (99%)</b>	13	0.04	5	15	0.14	0.001	6	1	4	0.36	2	0.04	0.33	3
<b>Lower Limit</b>	<b>MEAN-CONFIDENCE</b>	101	0.05	41	136	0.74	0.002	31	6	36	0.71	11	0.081	2.00	20
<b>Upper Limit</b>	<b>MEAN+CONFIDENCE</b>	126	0.12	52	165	1.03	0.005	43	8	44	1.43	13.69	0.156	2.66	25
SW-5	Jul-13	130	0.12	50	160	1	<0.005	16	5.4	42	1.2	14	0.12	2.8	30
SW-8	Jul-13	110	0.082	51	160	0.99	<0.005	16	5.4	42	1.3	14	0.13	2.8	30

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl <sub>2</sub> (mg/l)	Cond (umho/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.L.)	Phenols (mg/l)	Eh (mV)	SO <sub>4</sub> = (mg/l)	Turb <sup>n</sup> (NTU)	TDS (mg/l)	NH <sub>3</sub> (mg/l)	NO <sub>3</sub> - (mg/l)	BOD <sub>5</sub> (mg/l)	Color (units)	CN <sub>T</sub> (mg/l)	C+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
Classes 6A Groundwater Quality Standards and Guidance Values																							
			170	1.5	18.2	590	370	2.9	7.6	6.5-8.5	0.001		250	250	500	2	10			0.2	0.05		2
PZ-01	Sep-87	12	170	1.5	18.2	590	370	2.9	7.6	6.5-8.5	0.001		250	250	500	2	10			0.2	0.05		2
PZ-01	May-88	18	190		17.4	504	240	2	7.25		<0.005		163	185	441	0.18	0.37		<5		<0.01		0.35
PZ-01	Apr-88	13.5	162		18	608	270	6.2	7.97		<0.005		176	25	214	0.43			<5				<2
PZ-01	Nov-88	11	169		18.4	569	308	3.9	7.06		0.091		165	12	302	0.16			<5				0.7
PZ-01-A	Feb-89	9	164	10	21	754	314	1.5	7.32		<0.005	151.5	165	18	404	0.04	<10		<5		<0.01		0.2
PZ-01-A	Feb-90	10.5	171	<10	22	650	329	3.67	7.78		<0.005	-44.5	209	295	474	0.15	0.1		10		<0.01		0.2
PZ-01-A	Apr-90	11.3	184	10	37.8	551	352	8.41	7.17		<0.005	-47.3	164	4.2	486	0.04	0.1		10		<0.01		0.27
PZ-1A	Nov-90	11	194	10	20.5	500	360	7.6	7.6	7.04	<0.05	85.1	175	22	528	<0.1	<0.1		5		0.009		<0.5
PZ-1A	Feb-91	11	184	<0.5	22.8	760	360	<3	7.5	7.8	<0.010	-16.7	186	18	512	0.05	<0.04		<5				<0.5
PZ-1A	May-91	11	176	6.4	19.1	550	352	<3.0	7.7	7.1	<0.010	188.7	192	11	521	0.1	0.12		<5		<0.004		<0.5
PZ-1A	Aug-91	13	178	3.7	21.9	830	340	<3.0	7.6	7.36	<0.010	250.4	148	50	603	0.07	0.06		15		<0.004		0.05
PZ-1A	Nov-91	12	176	4.5	19	771	316	4	7.42	7.58	<0.010	158	153	6.7	540	0.12	0.12		<4		<0.004		<0.5
PZ-1A	Feb-92	10	152	5.3	20.8	795	348	<1.0			<0.010	289.9	153	27	574	0.23	0.31		<4		<0.004		<0.5
PZ-1A	May-92	12	186	<1.0	24	741	320	<1.0	7.46	7.2	<0.010	127.1	195	25	612	0.1	<0.02		1.6		<0.004		<0.5
PZ-1A	Aug-92	12	198	2	21.5	726	298	10		7.08	<0.010	139	196	40	592	<0.04	<0.02		2.6		<0.004		0.05
PZ-1A	Dec-92	11	192	<1.0	13.5	811	308	<1.0		7.21	<0.010	182	188	36.5	564	0.08	0.07		0.4		<0.004		<0.5
PZ-1A	Feb-93	10	178	11.4	16.5	412	234	11		7.59	<0.010	138	207	41	532	0.05	0.12		<2.0				<0.5
PZ-1A	May-93	10.5	188	<1.0	16	767	328	14		7.06	<0.010	126.3	214	58	460	<0.02	0.06		<2.0				0.87
PZ-1A	Feb-94	10.5	180	<1.0	14.3	594	331	15		7.56	<0.010	84.1	216	21	473	0.05	0.04		<2.0				0.84
PZ-1A	May-94	12.5	180	<1.0	16	720	445	5		7.14	<0.010	116.8	230	28	564	0.14	0.13		15		0.01		1.66
PZ-1A	Aug-94	13	184	<5.0	16	720	445	5		7.14	<0.010	116.8	230	28	564	0.14	0.13		15		<0.004		1.66
PZ-1A	Nov-94	11.5	190	<5.0	16	583	246	25		7.72	<0.010	130.4	209	5.4	552	0.1	0.08		<2.0				3.08
PZ-1A	March-95	10.5	182	<5.0	16	494	328	37		7.21	<0.010	117	224	21	512	0.3	0.14		<2.0				<0.5
PZ-1A	June-95	12.5	182	9.3	16	478	318	1		7.2	<0.010	25.7	179	24	540	0.3	0.09		<2.0				<0.5
PZ-1A	Sept-95	12	181	16.7	17	420	333	24		7.41	<0.010	70.2	207	37	560	0.15	<0.05		<2.0				2.4
PZ-1A	Nov-95	9	180	20.4	16	455	288	<1		7.52	<0.010	1	197	38	560	<0.02	<0.05		<2.0				<0.5
PZ-1A	April-96	9.8	200	14	8.6	750	420	11		7.9	<0.002	190	36	220	520	0.05	0.1		50		<0.01		0.33
PZ-1A	June-96	11.6	210	30	11	720	390	<1		7.7	<0.002	62.5	180	66	550	<0.03	0.063		4		<0.01		0.91
PZ-1A	Sept-96	12.7	170	1	10	700	330	1.6		7.5	<0.002	157	340	58	560	0.033	0.022		4		<0.01		0.22
PZ-1A	Nov-96	12	180	13	15	659	290	11		7.58	0.007	195	340	21	260	<0.03	0.047		4		<0.01		0.22
PZ-1A	March-97	9.8	170	6.4	15	718	310	1		7.5	<0.002	160	180	125	500	<0.03	0.086		10		<0.01		0.18
PZ-1A	June-97	11.2	210	<2	16	681	350	1.8		7.59	0.004	180	190	<1	550	<0.03	0.08		4		<0.01		0.18
PZ-1A	Sept-97	12.2	260	<1	16	690	330	1.2		7.9	<0.002	180	170	20	590	<0.03	0.2		10		<0.01		0.33
PZ-1A	Dec-97	11.2	190	14	14	774	310	1.2		7.95	<0.002	140	280	41	420	<0.03	0.19		4		<0.01		0.14
PZ-1A	Mar-98	10.5	360	<1	15	750	330	1.3		8.37	<0.002	355	200	352	530	<0.03	0.13		4		<0.01		0.21
PZ-1A	June-98	12.3	220	<3	14	757	330	1.2		7.85	<0.002	45	200	83	500	0.065	0.061		3		<0.01		0.6
PZ-1A	Sept-98	Location Not Sampled																					
PZ-1A	Dec-98	11.4	210	5.9	25	754	330	1.3		7.6	<0.002	3.2	170	57	510	<0.03	0.15		9.5		<0.01		<1
PZ-1A	Apr-99	11.4	190	9.5	18	774	370	<1		7.84	<0.002	195	190	93	540	<0.05	0.12		0.74		<0.01		<1
PZ-1A	June-99	11.5	190	8.6	17	778	450	1.3		7.3	<0.002	235	180	203	500	0.13	0.082		0.72		<0.01		<0.1
PZ-1A	Sept-99	13.9	200	3.9	18	776	400	1.4		7.45	<0.002	190	180	164	520	<0.03	<0.02		0.32		<0.01		0.19
PZ-1A	Dec-99	11	200	9.9	18	782	390	<1		8.35	<0.002	135	180	155	520	0.032	0.021		4.4		<0.03		0.36
PZ-1A	Apr-00	9	205	12.5	18.8	759	371	<1		7.71	0.007	-33	140	15	512	0.126	0.087		4		<0.01		<1
PZ-1A	June-00	13.3	200	<10	18.4	590	356	<1		7.76	<0.004	-196	160	3.89	501	<0.1	<0.05		10		<0.01		0.13
PZ-1A	Sept-00	12.1	199	10	18.8	774	386	<1		7.81	<0.004	57	250	2.2	478	<0.1	<0.05		<1		<0.01		<1
PZ-1A	Dec-00	10.1	203	<10	17.9	762	376	<1		7.58	<0.004	90	170	5.81	479	<0.1	<0.05		1.41		<0.01		<1
PZ-1A	Mar-01	10.8	195	<10	18.4	774	367	<1		7.71	<0.004	-6	190	7.1	517	<0.1	0.055		1.67		<0.01		<1
PZ-1A	June-01	11.5	204	<10	20.1	780	370	<1		7.61	<0.004	21	215	3.3	527	<0.1	<0.1		1.07		<0.01		<1
PZ-1A	Sept-01	11.7	267	<10	18.2	777	381	<1		7.83	<0.004	68	202	0.33	517	0.102	<0.1		<1		<0.01		<1
PZ-1A	Dec-01	10.8	195	<10	18.4	774	367	<1		7.48	<0.004	85	192	5.99	512	<0.1	<0.1		1.38		<0.01		<1
PZ-1A	Mar-02	10.8	198	<10	18.7	743	362	<1		7.48	<0.004	16	205	1	519	<0.1	<0.1		1.38		<0.01		<1
PZ-1A	June-02	12.2	209	<10	18.8	745	371	<1		7.6	<0.004	-9	190	2.1	519	<0.1	<0.1		1.2		<0.01		<1
PZ-1A	Sept-02	12.4	206	<10	19.7	753	380	<1		7.83	<0.004	-100.5	191	2.1	523	<0.1	<0.1		1.2		<0.01		<1
PZ-1A	Dec-02	8	204	<10	19.3	756	373	<1		7.8	<0.004	4.5	192	3.8	489	<0.1	<0.1		1.21		<0.01		<1
PZ-1A	Apr-04	11.2	194	<10	21	736	367	<1		7.92	<0.004	269	183	4.4	513	0.102	<0.1		1.21		<0.01		<1
PZ-1A	June-05	11.6	44.3	<10.0	<5.0	509	98	4.2		7.53	<0.010	1.06	21	50	216	1.4	10.9		30		<0.010		<1.00
PZ-1A	Oct-06	14.1	180	<10	25	125	360	<1.0		7.5	<0.010	740	170	4.2	510	<1.0	<0.25		4.00		<0.010		<1.00
PZ-1A	Dec-07	9.4	210	22	32	761	420	<1		7.59	<0.003	543	230	48	510	<0.03	<0.1		4		<0.01		<0.1
PZ-1A	Aug-09	15.2	218	12	30	674	382	<1		7.43	<0.010	121	166	2.2	572	0.1	0.05		2		<0.005		<0.1
PZ-1A	Feb-11	9.73	237	<10	24	807	424	<1.0		7.48	<0.005	-5.8	170	17.8	520	0.16	<0.05		4.0		<0.01		<0.1
PZ-1A	Apr-12	13.21	220	<5	22	825	380	<1.0		7.48	<0.01	-4.3	190	10.03	520	0.21	<0.011		4.3		<0.01		0.29

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
<i>Class GA Groundwater Quality Standards and Guidance Values</i>					250					6.5-8.5	0.002		250		500	2	10		<50	0.2	0.05		2
PZ-1A	Jul-13	11.26	220	<50	20	818	390	0.69		7.2	0.002	-62.8	200	2.174	550	0.091	0.037	<20	<50	<0.005	<0.005	0.16	
PZ-44	Sep-87	13	380	5	9.98	1225	740	2.7	7.21		0.007		450	210	996	0.25	0.17	9	<5	<0.01	<0.01	0.32	
PZ-44	May-88	15	300		12.2	853	690	2.6	7.34		0.023		370	35	841	0.3		11	<5			0.37	
PZ-44	Aug-88	13	351		7.8	1211	712	1.35	7.26		<0.005		448	26	424	0.19		10	<5			0.5	
PZ-44	Nov-88	9.5	347		10.4	1028	756	6.34	7.03		0.028		419	26	506	0.25		38	<5			0.57	
PZ-44	Feb-89	9	337	16.7	9	1293	708	3.05	7.68		<0.005	101	438	40	834	0.24	<1	3	<5		<0.01	0.58	
PZ-44	Apr-89	13.5	256		10	929.5	614	2.96	7.36		<0.005	13	432	18	426	0.1		18	10			0.54	
PZ-44	Jun-89	14	289		7.1	954.5	631	8.12	7.49		0.009		517	44	1120	0.1		39	15			0.5	
PZ-44	Feb-90	10	327	10	8.5	832	729	1.62	6.98		<0.005	-1.15	440	151	982	0.18	<0.1	3	<5	<0.005	<0.01		
PZ-44	Feb-90	11.3	216		8.3	957	570	13	6.29		<0.005	30	78.6	15	935	0.25		69	10			0.65	
PZ-44	Nov-90	10	357	21	7.8	840	740	14	7.4	6.91	<0.05	43.2	340	130	999	0.11	<0.1	4.4	<5	<0.004	0.017	<0.5	
PZ-44	Feb-91	13	336	<10	11.9	1100	730	15.5	7.2	7.46	<0.010	65.3	395	200	958	0.16	<0.04						
PZ-44	May-91	11	336	10.4	5.3	740	690	<30	7.3	6.9	<0.010	199.1	401	1200	518	0.21	0.08						
PZ-44	Aug-91	14	320	13	43.1	1385	640	4.7	7.2	6.98	<0.010		360	350	1014	0.18	<0.04						
PZ-4	Nov-91	12	340	5.6	7	1262	615	2		7.21	<0.010	179.3	265	38	1136	0.24							
PZ-4	Feb-92	11	336	4.9	8.9	1261	706	3	6.75		<0.010	212.3	355	63	908	0.27	0.22	0.6	<5	<0.010	<0.004	<0.5	
PZ-4	May-92	12	322	8.6	10	1146	629	<10		7.06	<0.010	235.4	354	81	980	0.12	<0.02						
PZ-4	Aug-92	12	322	16	11	1078	573	<10		6.83	<0.010	148.9	389	65	996	0.25	0.11						
PZ-4	Dec-92	10.5	346	3	7	1261	558	<10		6.65	<0.010	194.7	376	82	932	0.17	<0.02						
PZ-4	Feb-93	9.5	342	54	8.5	1016	569	38		7.22	<0.010	166.8	392	168	908	0.16	<0.02						
PZ-4	May-93	12.5	342	<10	7	565	585	2	7.07		<0.010	109.7	335	63	900	0.16	<0.02	0.2	<5	<0.004	<0.004	<0.5	
PZ-4	Aug-93	14.5	342	10.7	10	797	626	<10		7.01	<0.010	80	145	83	896	0.07	<0.02						
PZ-4	Dec-93	10.5	344	7.8	10	1051	642	6		6.94	<0.010	152.6	376	57	888	0.13	<0.05						
PZ-4	3-23-96	11	334	<10	10	1220	625	38		7.07	<0.010	161.6	330	63	776	0.09	<0.05	<20				<0.5	0.8
PZ-4	Jun-94	13.5	324	<10	8	843	598	<1		6.93	<0.010	262.7	355	68	888	0.058	0.02	<20				<0.5	0.92
PZ-4	Aug-94	13.5	344	8.9	10.5	1082	638	4		6.79	<0.010	130.6	426	38	888	0.25	0.4	<20	5	<0.004	0.004	<0.5	1.84
PZ-4	Nov-94	11.5	400	<50	12	809	502	15		7.26	<0.010	127.8	303	71	940	0.21	0.31	<20				<0.5	3.28
PZ-4	March-95	10.5	343	5	12	595	607	17		7.08	<0.010	130.6	386	27	896	0.74	0.26	<2				<0.5	<0.2
PZ-4	June-95	12.5	335	<50	13	584	580	<1		7.05	<0.010	19.6	307	65	892	0.54	<0.05	<2				<0.5	0.5
PZ-4	Sept-95	11.5	342	<50	11	506	591	6		7.1	<0.010	-2.7	357	42	944	0.31	0.14	<2				<0.5	0.5
PZ-4	Nov-95	9.5	340	<5.0	11	456	596	<1		7.36	<0.010	15.5	304	61	888	0.04	0.07	<2	5	<0.004	<0.004	<0.5	<0.2
PZ-4	April-96	9.4	300	32	9.5	1230	810	3.6		7.9	<0.002	190	330	>900	740	0.11	0.056	4	500	<0.01	<0.01	0.72	3
PZ-4	June-96	12.3	320	280	<5	1120	390	<1		7.4	<0.002	290	510	>900	810	0.11	<0.02	<4				4.6	<2
PZ-4	Sept-96	12.2	350	30	6	1200	610	3.7		7	<0.002	126	630	74	850	0.099	<0.02	<4				0.39	<2
PZ-4	Nov-96	10.7	360	<1	10	1180	450	1.4		7.43	<0.002	145	550	120	760	0.073	0.043	<4				0.82	<2
PZ-4	March-97	10.3	370	26	12	1200	610	<1		7.2	<0.002	125	480	643	780	0.076	<0.02	<4	10	<0.01	<0.01	0.59	<2
PZ-4	June-97	11.6	1100	15	12	1110	690	1		7.31	0.014	215	370	>999	870	0.089	<0.02	<4				0.55	<2
PZ-4	Sept-97	12.8	410	30	16	1100	630	1.2		7.4	<0.002	160	250	780	930	0.12	0.052	<4				0.58	<2
PZ-4	Dec-97	10.9	710	11	12	1170	590	1.5		7.69	<0.002	85	360	>999	860	0.71	<0.02	13				0.39	<2
PZ-4	Mar-98	10.5	440	19	15	1110	2600	1.7		7.78	<0.002	340	320	224	6800	0.26	<0.02	<4				5.4	3
PZ-4	June-98	13.1	410	9.9	16	1070	900	1.3		7.32	<0.002	20	270	>999	770	0.085	0.027	<4	5	<0.01	<0.01	0.55	<1
PZ-4	Sept-98	13	370	3.4	13	1040	590	1.4		6.9	<0.002	40	270	444	790	0.09	<0.02	<4				0.35	<1
PZ-4	Dec-98	10.9	380	6.4	19	1030	900	1.2		7.08	<0.002	150	230	71	760	0.065	<0.02	9.8				0.29	<1
PZ-4	Apr-99	11.9	340	35	13	1060	2000	1.5		7.4	<0.002	185	270	545	760	0.18	<0.02	<4				1.1	<0.1
PZ-4	June-99	12	350	6.6	12	1070	2000	1.2		7.05	<0.002	180	260	449	760	<0.03	<0.02	<4				0.45	<0.1
PZ-4	Sept-99	12.7	370	6	20	1110	600	1.3		7.27	<0.002	155	240	420	790	<0.03	<0.02	<4				0.42	0.2
PZ-4	Dec-99	10.7	370	27	20	1160	660	<1		8.87	<0.002	240	240	571	760	0.065	<0.02	<4	1	<0.01	<0.03	0.51	0.16
PZ-4	Apr-00	9.1	336	<10	16.6	1040	579	1.2		7.46	0.005	-28	220	19	761	<0.1	0.191	<3	20	<0.01	<0.01	<1	<1
PZ-4	Jun-00	13.8	348	<10	21.6	850	618	1		7.64	<0.004	-73	240	14.8	767	0.118	<0.05	<3				<1	<1
PZ-4	Sept-00	12.7	374	<10	34.1	1145	647	1.4		7.31	0.0065		170	18	776	0.386	<0.09	<3				<1	<1
PZ-4	Dec-00	10.2	198	<10	20.8	1077	325	3.3		6.56	<0.004	81	140	5.7	711	0.146	0.274	<3				<1	<1
PZ-4	Mar-01	11.8	396	U	32.2	1145	1010	1.5		7.28	<0.004	2	220	415	774	0.19	<0.05	<3				<1	<1
PZ-4	Jun-01	13.4	389	<10	35.1	1145	1000	1.1		7.24	<0.004	-29	2500	>1100	773	0.163	<0.1	<3	500	<0.01	<0.01	3.03	<1
PZ-4	Sept-01	13.7	392	<10	34.1	1127	936	1.1		7.41	<0.004	27	230	89.6	772	0.157	<0.1	<3				1.18	<1
PZ-4	Dec-01	11.5	393																				

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
<i>Class GA Groundwater Quality Standards and Guidance Values</i>																							
					250					6.5-8.5	0.001		250		500	2	10			0.2	0.05		2
PZ-4	Feb-11	10.65	551	17	39	1207	1240	1.3		7.01	<0.005	-8.5	120	28.9	770	0.34	<0.05	<4.0	30	<0.01	<0.01	0.84	
PZ-4	Apr-12	13.14	550	12	46	1257	1600	2.3		6.88	<0.01	-39.9	120	900	780	0.13	<0.011	<2.0	<5.0	<0.005	<0.005	0.49	
PZ-4	Jul-13	12.76	600	7.8	45	1276	800	1.7		6.7	<0.005	-64.3	110	180/500	820	0.16	<0.020	<2.0	30	<0.005	<0.005	0.52	
PZ-11	Scp-87	12	390	5	14.1	900	550	18.5	7.11		0.008		220	15	652	0.1	<1	2	<5		<0.01	0.24	
PZ-11	May-88	14	265		14.8	554	380	7.6	7.04		0.016		127	350	495	0.16		25	<5			0.5	
PZ-11	Aug-88	13	335		17.7	782	422	<0.1	7.12		<0.005		156	340	262	0.2		66	<5			2.9	
PZ-11	Nov-88	8	295		20.8	629	450	5.14	7.22		0.023		206	10	352	0.13		27	<5			0.71	
PZ-11	Feb-89	9	258	108	25	543	453	5.15	6.85		<0.005	-19	144	265	433	0.13	<1	6	<5		<0.01	1.54	
PZ-11	Apr-89	133	200		19.8	513	358	9.92	7.5		0.006	-472.3	153	200	293	0.09		25	15			0.4	
PZ-11	Jan-89	12	210		20	569	362	9.14	7.45		0.028		214	120	657	0.09		42	35			0.45	
PZ-11	Nov-89	13.5	264		19.8	552	435	7.25	7.34		0.014		142	58	543	0.12		21	<5			0.42	
PZ-11	Feb-90	19.8	249	34.7	20.7	715	411	15.1	7.32		<0.005	-21.65	181	98	507	0.18	0.32	15	10	<0.005	<0.01		
PZ-11	Apr-90	12.05	226		15.9	562	360	4.15	7.02		<0.005	-23.6	151	52	517	0.06		5	10			0.67	
PZ-11	Nov-90	12	347	21	17.9	770	480	24	7.3	7.21	<0.010	9.8	173	19	645	<1.0	<0.2	2.9	5	<0.004	<0.004	0.5	
PZ-11	Feb-91	10	252	25.2	16.9	810	400	46	6.9	7.74	<0.010	142.3	165	180	486	0.22	<0.04						
PZ-11	May-91	11	264	16.6	15.7	510	350	9.3	6.9	6.69	<0.010	200.2	103	815	464	0.14	0.28						
PZ-11	Aug-91	13	196	32.2	18.3	655	300	12.8	7.4	7.73	<0.010	96.3	134	570	544	0.12	0.43						
PZ-11	Nov-91	11	276	23.5	15	796	364	4	7.29		<0.010	126.6	85	160	436	0.23	0.06						
PZ-11	Feb-92	11	242	14.7	14.9	766	343	2	7.08		<0.010	100.5	137	52	428	0.21	<0.02	0.9	<5	<0.010	<0.004	<0.5	
PZ-11	May-92	12	173	15	11	642	306	<1.0		7.13	<0.010	205.1	14.3	64	392	0.08	0.02						
PZ-11	Aug-92	12	312	5	13.5	430	316	<1.0		6.9	<0.010	263.2	114	32.5	620	0.23	0.02						
PZ-11	Dec-92	10	294	8.9	12.5	892	354	<1.0		7.14	<0.010	181	159	58	556	0.13	0.1						
PZ-11	Feb-93	10	232	16.7	19	702	247	24		7.25	<0.010	120.6	101	120	412	0.1	<0.02						
PZ-11	May-93	11.5	256	<1.0	18	452	330	4	7.21		<0.010	175.7	94.4	30	528	0.11	<0.02	0.2	<5	<0.004	<0.004	<0.5	
PZ-11	Aug-93	14	340	22.4	18	653	463	<1.0		6.81	<0.010	35.2	105	19.5	660	0.06	<0.02						
PZ-11	Dec-93	9.5	328	15.7	19	809	461	8	7.08		<0.010	158.6	167	25	660	0.13	<0.05						
PZ-11	34366	10.5	224	9.6	19	725	319	28	7.09		<0.010	109.1	101	45	404	<0.02	<0.05	<2.0				<0.5	0.73
PZ-11	May-94	13	288	5.4	12	637	390	26	7.15		<0.010	83.2	152	15	520	0.14	0.02	2				<0.50	0.94
PZ-11	Aug-94	13.5	352	13.3	19	921	513	5	6.77		<0.010	103.3	170	10.6	664	0.2	0.76	2.8	25	<0.004	0.02	<0.5	2.16
PZ-11	Nov-94	11	343	28.6	17	660	353	38	7.14		<0.010	115.5	166	20	600	0.15	0.43	<2.0				<0.5	3.42
PZ-11	March-95	10.5	295	10	15	512	436	7	7.09		<0.010	132.9	162	7.2	600	0.56	0.67	<2				<0.5	<0.2
PZ-11	June-95	12	339	18.6	17	510	437	<1	7.01		<0.010	-2.5	148	14.8	644	0.47	0.06	<2				0.73	<0.2
PZ-11	Sept-95	10.5	272	12.5	15	425	420	<1	7.11		<0.010	-28.3	167	20	628	0.18	<0.05	<2				<0.5	<0.2
PZ-11	Nov-95	8.5	356	16.3	18	431	428	<1	7.29		<0.010	-30.5	165	17	632	<0.02	<0.05	<2	10	<0.004	<0.004	<0.5	0.3
PZ-11	April-96	10	280	21	14	758	560	3	7.5		<0.002	165	130	40	560	0.063	<0.02	<4	25	<0.01	<0.01	0.45	3.6
PZ-11	June-96	11	230	12	11	1020	530	2.4	8.5		<0.002	150	140	<1	700	<0.03	<0.02	<4				8.1	<2
PZ-11	Sept-96	10.8	420	10	9	1100	500	1.9	7		<0.002	148	560	65	760	0.047	<0.02	<4				0.53	<2
PZ-11	Nov-96	11.3	380	<1	15	970	360	4.1	7.12		<0.002	125	530	15	640	<0.03	0.048	8.5				0.65	<2
PZ-11	March-97	9.9	430	13	15	1080	480	3	7.1		0.0056	65	160	41	660	<0.03	<0.02	<4	10	<0.01	<0.01	0.76	<2
PZ-11	June-97	11.8	480	<1	15	1060	580	3.6	6.94		<0.002	115	130	<1	750	<0.03	<0.02	<4				0.64	<2
PZ-11	Sept-97	11.8	480	7	16	900	480	3.4	7.2		<0.002	125	140	32	760	0.064	0.05	<4				0.63	<2
PZ-11	Dec-97	10.6	320	11	14	910	390	3.5	7.52		<0.002	115	170	56	500	0.073	<0.02	<4				0.4	<2
PZ-11	Mar-98	10.9	370	4.3	17	1000	500	2.7	7.67		<0.002	230	180	64	660	<0.03	<0.02	<4				0.48	3.6
PZ-11	June-98	13.1	550	7.4	14	1090	560	3.5	7.21		<0.002	-35	170	52	700	0.086	<0.02	<4	20	<0.01	<0.01	0.4	<1
PZ-11	Sept-98	12.8	490	18	13	1140	640	3.2	6.67		<0.002	-85	220	71	840	<0.03	<0.02	9.1				0.46	<1
PZ-11	Dec-98	10.9	400	15	6.3	940	790	3.3	7.29		<0.002	80	120	97	720	<0.03	<0.02	9.6				0.29	<1
PZ-11	Apr-99	11.6	450	19	18	1070	580	5.2	8.09		<0.002	30	150	91	750	<0.03	<0.02	<4				1	<0.1
PZ-11	June-99	11.4	300	10	15	960	600	3.1	7.65		<0.002	100	190	119	640	0.046	<0.02	<4				0.59	<0.1
PZ-11	Sept-99	12.8	360	12	15	921	520	4	7.36		0.0022	165	160	921	650	<0.03	<0.02	14				0.44	0.13
PZ-11	Dec-99	11.2	280	14	18	829	460	2.9	8.28		<0.002	165	140	71	520	<0.03	0.025	<4	5	<0.01	<0.03	0.5	0.11
PZ-11	Apr-00	10	355	16.9	23.6	975	514	4.1	7.36		0.007	-78	150	9.6	686	0.164	0.203	<3	75	<0.01	<0.01	<1	<1
PZ-11	Jun-00	11.4	367	<10	23.7	860	619	3.3	7.31		<0.004	-84	220	10.77	795	0.106	<0.05	<3				<1	<1
PZ-11	Scp-00	12.5	311	27.7	23.4	1038	547	3.5	7.34		<0.004	-17	190	9.9	839	0.109	0.051	<3				<1	<1
PZ-11	Dec-00	9.7	322	20.3	21.2	997	517	3.8	7.28		<0.004	50	240	12.6	653	0.114	0.326	<3				1.17	<1



TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
Class GA Groundwater Quality Standards and Guidance Values					250					6.5-8.5	0.001		250		300	2	10			0.2	0.05		2
PZ-11	Jun-05	Sampling Location Dry																					
PZ-11	Oct-06	16.3	410	26	17	44	590	4.3		6.82	<0.010	1054	110	421	660	<1.0	<0.25	<4.0	400	<0.010	<0.010	<1.0	<1.0
PZ-11	Dec-07	11.4	610	12	22	1260	770	4.9		6.32	<0.003	230	130	23	770	<0.03	<0.1	<4	50	<0.01	<0.01	0.49	<0.1
PZ-11	Aug-09	16.6	516	28	14	862	538	3.9		7.09	<0.010	54	59.4	109	672	0.37	0.05	<12	10	<0.005	<0.004	0.95	<0.1
PZ-11	Apr-12	15.46	470	<5.0	28	1065	500	4		6.82	<0.0063	-80.9	57	12.8	610	0.59	0.23	<2.0	<5.0	<0.0050	<0.0050	1.2	
PZ-11	Jul-13	12.7	540	9	17	1032	540	3.2		7.28	<0.005	-84.1	63	9.37/73	600	0.47	0.028	<2.0	80	<0.005	<0.005	0.87	
MW-3B	Nov-89	12.6	339	10	28.6	773.5	567	2.68	7.26		0.008	-24.2	199	105	677	0.11	<0.10	7	<0.05				
MW-3B	Feb-90		299		19		513	8.4			<0.005		287	18.7	640	0.17		8	<5			25	
MW-3B	Apr-90	11.95	218		26.9	368	343	4.81	6.21		<0.005	33.25	143	8	659	<0.04		5	10			0.25	
MW-3B	Nov-90	10	420	96	34.2	830	600	20	7.3	6.98	<0.05	81.2	158	60	735	0.11	<0.04	8.4		0.004	0.004	<0.5	
MW-3B	Feb-91	10	258	<1.0	17.9	950	400	6.6	7.3	7.48	<0.010	-11.8	125	25	524	0.09	<0.04						
MW-3B	May-91	12	222	5.1	13.8	640	326	<3.0	7.4	7.11	<0.010	133.9	135	63	488	0.11	0.58						
MW-3B	Aug-91	13	228	6.2	17.2	865	64	2.2	7.4	7	<0.010	273	122	38	542	0.07	<0.04						
MW-3B	Nov-91	13	244	5.6	16	906	331	4		7.25	<0.010	100.7	100	8.5	516	0.14	<0.04						
MW-3B	Feb-92	11	324	26.4	24.8	1120	439	4	6.64		<0.010	112.7	151	46	560	0.16	0.17	1	<5	<0.010	<0.004	<0.5	
MW-3B	May-92	13	250	14.4	22	1049	528	<1.0		7.02	<0.010	198.2	126	33	488	<0.04	<0.02						
MW-3B	Aug-92	12	330	15	36	844	328	<1.0		6.79	<0.010	181.4	141	10.6	688	<0.04	0.17						
MW-3B	Dec-92	9.5	308	4	23	1032	379	<1.0		6.75	<0.010	160	155	48.5	600	0.07	<0.02						
MW-3B	Feb-93	10	300	2.6	26.5	951	326	2.1		7.11	<0.010	146.8	164	35	564	0.04	<0.02						
MW-3B	Jun-93	12.5	256	<1.0	25	458	335	7	7.07		<0.010	105.8	136	8.9	520	0.1	<0.02	1.2	<5	0.006	<0.004	<0.5	
MW-3B	Aug-93	14.5	368	<1.0	45	759	280	<1.0		6.89	<0.010	26.5	131	26.5	668	0.08	<0.02						
MW-3B	Dec-93	10.5	352	2.9	40	902	446	10		6.98	<0.010	137.8	158	16	700	0.07	<0.05						
MW-3B	34366	10.5	504	6.7	67	1270	576	61		7.03	<0.010	168.4	128	39	732	0.03	<0.05	<2.0				<0.5	0.94
MW-3B	Jun-94	14	260	<1.0	26	621	510	<1		7.07	<0.010	290.4	102	2.3	520	<0.02	0.02	<2.0				<0.50	0.95
MW-3B	Aug-94	13	368	13.3	43	1075	582	5		6.83	<0.010	136.1	163	19.4	752	0.12	0.15	<2.0	10	<0.004	0.007	<0.5	1.64
MW-3B	Nov-94	11.5	207	9.5	34	623	2300	16		7.3	<0.010	123.4	119	8.2	568	0.16	<0.02	<2.0				<0.5	3.6
MW-3B	March-95	10.5	299	10	42	531	405	36		7.06	<0.010	144.8	122	9.5	652	0.27	0.16	<2				<0.5	<0.2
MW-3B	June-95	11.5	258	9.3	30	565	336	7		7.02	<0.010	-30.6	104	7.4	504	0.32	<0.05	<2				<0.5	<0.2
MW-3B	Sept-95	11.5	278	12.5	34	521	379	6		6.93	<0.010	-31.7	122	5.9	580	0.28	<0.05	<2				<0.5	0.8
MW-3B	Nov-95	9	360	16.3	46	470	432	<1		7.22	<0.010	-25	139	23	688	<0.02	<0.05	<2	5	<0.004	<0.004	<0.5	0.5
MW-3B	April-96	9.9	170	26	19	490	280	1.9		8.3	<0.002	135	55	72	260	<0.03	0.37	<4	50	<0.01	<0.01	0.28	3
MW-3B	June-96	12.3	330	14	30	795	440	1.5		7.7	<0.002	195	92	23	570	<0.03	<0.02	<4				1.3	<2
MW-3B	Sept-96	11.2	420	2.8	34	1400	400	4.3		7	<0.002	104	300	54	660	<0.03	<0.02	<4				0.24	<2
MW-3B	Nov-96	10.7	300	<1	36	739	270	2.4		7.26	<0.002	110	340	21	560	<0.03	0.036	<4				0.63	<2
MW-3B	March-97	10.5	330	15	36	920	320	2.8		7.4	<0.002	20	110	38	530	<0.03	<0.02	<4	10	<0.01	<0.01	0.29	<2
MW-3B	June-97	13	380	15	43	970	360	2.5		7.17	0.0028	215	98	<1	630	<0.03	<0.02	<4				0.95	<2
MW-3B	Sept-97	12.8	280	1	38	730	340	2.4		7.2	0.0029	110	75	19	570	0.035	0.033	<4				0.55	<2
MW-3B	Dec-97	10.5	600	<1	49	960	360	2.7		7.8	<0.002	40	120	40	570	0.11	<0.02	<4				0.27	<2
MW-3B	Mar-98	10.8	490	2.2	74	1290	450	3.5		7.68	<0.002	200	130	45	690	<0.03	<0.02	<4				0.3	<2
MW-3B	June-98	Sample Location Inaccessible																					
MW-3B	Sept-98	Location Not Sampled																					
MW-3B	Dec-98	10.9	310	27	55	808	570	2.7		7.9	<0.002	140	51	63	520	<0.03	<0.02	9.1				0.4	<1
MW-3B	Apr-99	11.9	330	12	68	980	440	3		7.84	<0.002	120	96	60	620	<0.03	<0.02	<4				0.88	0.55
MW-3B	June-99	Location Not Sampled																					
MW-3B	Sept-99	Location Not Sampled																					
MW-3B	Dec-99	11.2	400	13	77	1070	520	3.6		8.83	<0.002	255	85	60	560	<0.03	<0.02	<4	<1	<0.01	<0.03	0.81	0.55
MW-3B	Apr-00	10.4	383	<1.0	72	1075	346	4.2		7.3	0.008	-36	87	9.8	671	0.152	0.403	<3	15	<0.01	<0.01	<1	<1
MW-3B	Jun-00	14.1	536	<1.0	123	1050	599	5.1		7.23	0.011	-193	77	2.08	842	<0.1	<0.05	<3				2.09	<1
MW-3B	Sept-00	13.2	527	<1.0	121	1356	598	5.7		7.05	0.0042	-2	59	0.95	830	<0.1	<0.05	<3				3.14	<1
MW-3B	Dec-00	10	561	18.5	122	1387	612	4		7.07	<0.004	82	55	2.5	831	0.12	<0.05	<3				1.51	<1
MW-3B	Mar-01	13	555	U	127	1413	596	5.8		7.3	<0.004	-43	52	4	826	<0.1	<0.06	<3				<1	<1
MW-3B	Jun-01	13.9	541	14.9	40.7	1432	602	5.2		7.01	<0.004	-36	56.9	4.7	830	0.116	<0.1	<3	25	<0.01		1.68	<1
MW-3B	Sep-01	12.8	526	<1.0	119	1393	605	5.4		7.06	<0.004	-10	58	0.46	808	0.154	<0.1	<3				1.35	<1
MW-3B	Dec-01	11.6	569	15.1	126	1393	590	5.7		6.78	0.003	53	53	3.85	818	0.109	<0.1	<3				<1	1.27
MW-3B	Mar-02	11.3	683	22.2	122	1343	603	5.1		7.14	<0.004	-20	51.7	1.07	845	0.12	<0.1	<3				<1	<1
MW-3B	Jun-02	13.6	568	<1.0	125	1310	550	6															

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
Class GA Groundwater Quality Standards and Guidance Values					250					6.5-8.5	0.001		250		500	2	10			0.2	0.05		2
MW-3B	Feb-11	9.77	664	22	79	1370	595	4.1	6.7	6.96	<0.005	-35.5	33	12.8	730	2.8	<0.05	<4.0	40	<0.01	<0.01	3.4	
MW-3B	Apr-12	13.93	560	10	69	1282	580	4.6	6.6	6.93	<0.0050	-55.9	35	11.6	990	3.7	<0.011	<2.0	<5.0	<0.005	<0.0050	3.6	
MW-3B	Jul-13	14.56	600	24	68	1279	550	4.4	6.6	7.59	<0.005	-63.1	36	33 1/18	730	4.4	0.14	<2.0	5	<0.005	<0.005	4.2	
MW-207SA	Nov-90	12	832	320	36.2	930	730	17	6.7	6.9	<0.010	79.6	130	7500	830	0.25	<0.1	11	40	<0.004	0.055	6.3	
MW-207SA	Feb-91	11	722	46.2	22.8	1200	720	22	6.6	6.73	0.023	68.7	130	8800	896	0.12	<0.04						
MW-207SA	May-91	12	674	54.8	26.6	960	800	8	6.6	6.23	0.02	179.9	125.5	6000	908	0.08	0.09						
MW-207SA	Aug-91	12	764	61.4	41.7	1570	720	<30	6.6	6.4	<0.010	297	118	4800	1100	0.09	<0.04						
MW-207SA	Nov-91	12	744	40	16	1441	1038	32	6.6	6.55	<0.010	92.5	9.15	3520	792	<0.02	0.08						
MW-207SA	Feb-92	12	734	115	20	1283	573	11	6.62	<0.010	61.8	98.2	2900	860	0.1	0.82	3.4	<5	<0.010	<0.004	3.47		
MW-207SA	May-92	12	682	26	17	1201	652	<1.0		6.68	<0.010	39.8	14	2000	888	<0.04	0.19	2.8	15	0.016	<0.004	0.12	
MW-207SA	Aug-92	13	690	36.7	22.5	1108	1207	<1.0		6.46	<0.010	58.9	143	1180	908	<0.04	0.18						
MW-207SA	Dec-92	11	704	93.6	10	1325	590	<1.0		6.87	<0.010	50.3	157	1960	856	<0.02	<0.02						
MW-207SA	Feb-93	10	1090	94.5	10	1101	922	59		6.52	<0.010	65.1	146	4400	432	0.09	<0.02						
MW-207SA	May-93	11.5	628	<1	10	600	653	6	6.56	<0.010	27.7	122	560	944	<0.02	<0.02	1.6	<5	<0.004	<0.004	<0.5		
MW-207SA	Aug-93	14.5	716	78.8	30	949	1072	<1.0		6.58	<0.010	112.3	182	4700	864	0.05	<0.02						
MW-207SA	Dec-93	11.5	932	110	20	1164	1060	28		6.54	<0.010	-1.6	146	2000	816	<0.02	<0.05						
MW-207SA	3-5-96	11	668	35.5	16	1304	839	104		6.8	<0.010	144	132	3300	772	<0.02	<0.05	2.1				<0.5	0.93
MW-207SA	May-94	12.5	688	10.8	17	915	720	72		6.57	<0.010	66.9	140	750	766	<0.02	0.12	4.2				<0.50	1.12
MW-207SA	Aug-94	13	604	75.6	16	1305	700	2		6.49	<0.010	25.7	162	860	860	<0.02	0.21	3.6	10	<0.004	<0.004	<0.5	2.36
MW-207SA	Nov-94	11.5	840	14.5	16	862	590	25		6.56	<0.010	100.9	143	1880	876	<0.02	0.12	<2.0				<0.5	3.42
MW-207SA	March-95	10.5	731	5	23	629	666	22		6.48	<0.010	68.5	129	630	872	0.09	0.09	<2				<0.5	<0.2
MW-207SA	June-95	10.5	751	14	22	604	855	5		6.56	<0.010	-73.6	120	680	920	0.68	0.11	<2				<0.5	<0.2
MW-207SA	Sept-95	11.5	790	45.8	10	498	834	4		6.57	<0.010	-75.5	130	1960	992	0.11	<0.05	<2				1.73	<0.2
MW-207SA	Nov-95	10	816	12.2	15	493	833	<1		6.62	<0.010	-86.7	124	1300	864	<0.02	0.07	5	25	<0.004	<0.004	<0.5	<0.2
MW-207S	April-96	10.8	640	59	19	1510	840	1.7		5.8	<0.002	-20	100	>900	830	0.073	<0.02	6.6	600	<0.01	<0.01	1.4	4.4
MW-207S	June-96	11.1	620	110	<20	1370	830	1.7		6.6	<0.002	33	130	>900	860	<0.03	<0.02	6.6				8.8	<2
MW-207S	Sept-96	11.7	1000	140	<10	1400	930	1.3		6.5	<0.002	-40	120	17	880	0.059	0.029	6.1				0.91	<2
MW-207S	Nov-96	11.2	610	130	19	1260	710	2.1		6.68	<0.002	-35	<20	200	740	0.048	<0.02	<4				0.55	<2
MW-207S	March-97	10.5	980	53	24	1430	920	2.6		6.2	<0.002	-10	86	>999	780	<0.03	<0.02	4.2	20	<0.01	<0.01	0.69	<2
MW-207S	June-97	11.6	860	30	16	1360	1000	2.5		6.72	<0.002	125	74	>999	810	0.17	<0.02	7				0.66	<2
MW-207S	Sept-97	12	850	120	15	1000	100	2.8		6.8	<0.002	-5	58	1300	870	0.15	<0.02	9.0				0.99	<2
MW-207S	Dec-97	10.9	730	40	16	1260	960	2.8		7.11	<0.002	-50	61	>999	680	0.21	<0.02	12				0.71	<2
MW-207S	Mar-98	10.8	680	32	18	1190	990	2.4		7.45	<0.002	50	83	246	730	0.043	<0.02	<4				0.81	<2
MW-207S	June-98	17.2	810	9.3	8.7	1210	870	2.7		6.82	<0.002	-95	55	296	660	0.077	<0.02	4.1	70	<0.01	<0.01	0.52	<1
MW-207S	Sept-98	12	650	100	14	1140	1200	2.9		6.73	<0.002	0	58	>999	750	<0.03	<0.02	<4				0.56	<1
MW-207S	Dec-98	11	730	59	22	1170	1300	2.9		6.84	<0.002	-35	46	>999	730	0.05	<0.02	5.4				0.24	<1
MW-207S	Apr-99	11.6	600	45	14	1240	1100	2.3		7.38	<0.002	0	52	>999	710	0.063	<0.02	<4				0.9	<0.1
MW-207S	June-99	11.5	600	25	13	1180	1400	2.3		6.49	<0.002	-10	51	>999	670	0.045	<0.02	4.2				0.52	<0.1
MW-207S	Sept-99	12.7	590	17	13	1150	1100	2.2		6.51	<0.002	-20	38	>999	680	<0.03	<0.02	4.4				0.32	0.16
MW-207S	Dec-99	11.5	710	24	13	1170	1300	1.7		8.1	<0.002	40	31	>999	640	<0.03	<0.02	4.1	40	<0.01	<0.01	0.53	<0.1
MW-207S	Apr-00	10.9	595	16.5	12.4	1100	790	2.4		6.84	<0.004	-78	41	4.3	660	0.192	<0.05	<3	750	<0.01	<0.01	2.61	<1
MW-207S	Jun-00	13.9	588	<10	13.4	875	684	2		6.51	0.006	-66	42	12	683	0.168	<0.05	<3				<1	<1
MW-207SA	Sept-00	11.5	614	<10	13.5	1203	649	2.3		6.75	0.0045	-42	31	23	708	0.255	<0.05	<3				<1	<1
MW-207SA	Dec-00	9.3	617	<10	30.7	1139	589	<1		6.83	0.0098	21	35	19	675	0.1	<0.05	<3				7.53	<1
MW-207SA	Mar-01	11.1	608	<10	14.1	1121	597	2.3		7.13	<0.004	-53	29	8	625	0.127	<0.05	<3				1.23	<1
MW-207SA	Jun-01	12.9	604	<10	17.3	1181	603	1.9		6.67	<0.004	-85	38.9	85	696	<0.1	<0.1	<3	200	<0.01		<1	<1
MW-207SA	Sept-01	12.2	586	<10	14.6	1191	660	1.8		6.78	<0.004	-61	39.7	135	690	0.152	<0.1	<3				<1	<1
MW-207SA	Dec-01	11.1	585	<10	14	1224	672	2		6.78	0.006	-68	40.2	55.8	701	0.123	<0.1	<3				<1	<1
MW-207SA	Mar-02	11.1	747	13.2	14.1	1164	623	1.4		6.73	<0.004	-39	31.8	77.1	673	0.11	<0.1	<3				<1	<1
MW-207SA	Jun-02	12	625	<10	15.5	1155	605	2		6.68	<0.004	-36	30.8	3.7	690	0.111	<0.1	<3				1.02	<1
MW-207SA	Sept-02	12.5	622	<10	18.4	1205	619	2		7.12	<0.004	5.8	39	8.8	729	<0.1	<0.1	4	60	<0.005	<0.01	<1	<1
MW-207SA	Dec-02	10.4	608	<10	15.3	1074	592	1.3		6.79	<0.004	-18	22.8	23	689	0.103	<0.1	<3				<1	<1
MW-207SA	Apr-04	11.5	572	<10	18.02	1140	566	<1		7.15	<0.004	52	20.5	13.5	636	0.211	<0.1	<3	20	<0.005	<0.01	<1	<1
MW-207SA	Jun-05	16	541	97.6	16	726	558	3.12		7.9	<0.0100	93	24.9	30	630	<1.00	0.39	<4.00	30	<0.0100	<0.010	<1.00	<1.00
MW-207SA	Sept-06	16.1	580	15	15	229	500	3.6		7.21	<0.010	592	9.3	26	550	1.2	<0.25	6.3	1000	<0.010	<0.010	0.49	<1.0
MW-207SA	Dec-07	10.8	520	54	12	820	590	3.4		6.44	<0.003	125	5.7	406	500	0.087	<0.1	<4	50	<0.01	<0.01	0.51	<0.1
MW-207SA	Aug-09	16.1	514	40	26	874	557	3.2		7.12	<0.010	-100	<5	116	558	0.26	<0.05	<4	5	<0.005	<0.004	0.85	<0.1
MW-207SA	Feb-11	8.99	422	24	17	832	622	2		6.82	<0.002	-69.8	<3.0	965	460	0.52	<0.05	<4.0	400	<0.01	<0.01	1.1	
MW-207SA	Apr-12	11.37	490	<5.0	57	1116	560	2.8		6.83	<0.0050	-112.4	3.6	23.3	700	0.25	0.062	<2.0	1				

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr++ (mg/l)	TKN (mg/l)	Bromide (mg/l)	
Class GA Groundwater Quality Standards and Guidance Values																								
					250					6.5-8.5	0.001		250		500	2	10			0.2	0.05		2	
MW-207D	Nov-88	13	318		19	835	264	197	7.76		0.058		123	20	371	0.5		30	<5.0				1.05	
MW-207D	Feb-89	10	307	12.1	18.5	910	428	4.75	8.06		<0.005	-185.5	153	41	551	0.07	<10	12	<5.0		0.04		0.32	
MW-207D	Apr-89	9.5	288		7	713	413	4.11	7.32		0.007	220	139	17	343	0.13		11	10				0.37	
MW-207D	Jun-89	15	250		16.5	662	369	8.71	7.58		0.022	-1192.5	245	16	773	0.11		15	10				0.31	
MW-207D	Nov-89	17	283		16.9	635	385	32.8	8.06		0.008		159	27	444	0.08		48	10				0.37	
MW-207D	Feb-90	10.5	307	<10	14.6	810	459	2.36	8.14		0.011		167	549	555	0.05	<0.1	10	5	<0.005	<0.01			
MW-207D	Apr-90	9.15	290		15.8	704.5	400	8.33	6.91		<0.005	4.75	162	12	624	0.04		18	10				0.24	
MW-207D	Nov-90	10	311	<10	14.7	580	445	11	7.4		<0.010	89.3	156	165	591	0.21	<0.1	4.5	25	<0.004	0.042		<0.5	
MW-207D	Feb-91	11	320	1.6	16.4	800	470	<3.0	7.2		0.019	73.3	172	150	618	0.09	<0.04							
MW-207D	May-91	11	288	<10	11.7	680	480	<3	7.2		<0.010	150.8	152	74	612	0.04	0.16							
MW-207D	Aug-91	14	272	7.9	11.4	940	450	<3.0	7.3		<0.010	281.5	153	70	702	0.05	0.04							
MW-207D	Nov-91	13	298	5.8	10	875	397	<1			<0.010	125.1	158	40	581	0.03	0.06							
MW-207D	Feb-92	11	350	4.6	13.9	871	416	4	7.17		<0.010	90.2	156	38	592	0.06	<0.02	<0.5	<5	<0.010	<0.004	<0.5		
MW-207D	May-92	12	314	<10	15	846	430	<1.0			<0.010	108.5	14.9	45	612	<0.04	0.06	1.8	10	<0.010	<0.004	0.06		
MW-207D	Aug-92	12	326	29	13	796	538	<1.0			<0.010	102.6	162	14.8	680	<0.04	0.38							
MW-207D	Dec-92	10.5	352	<10	10	949	396	<1.0			<0.010	78.7	174	83	652	<0.02	<0.02							
MW-207D	Feb-93	10	392	16.7	11.5	856	423	24			<0.010	75.4	163	500	632	<0.02	<0.02							
MW-207D	May-93	12	368	<10	12	506	277	7	7.16		<0.010	109.3	153	98	632	<0.02	<0.02	<0.5	<5	<0.004	<0.004	0.54		
MW-207D	Aug-93	13	388	<10	14	709	487	<1.0			6.98	<0.010	125.4	161	128	692	0.06	<0.02						
MW-207D	Dec-93	11	376	6.9	15	824	481	16			6.69	<0.010	-17.4	145	59	638	<0.02	0.05						
MW-207D	3-4-96	10.5	292	1	15	990	466	60			6.93	<0.010	49	151	105	612	<0.02	<0.05	<2.0				<0.5	0.94
MW-207D	May-94	12	410	16.1	15	750	530	40			7.09	<0.010	25.8	151	47	666	<0.02	0.07	<2.0				<0.50	1.05
MW-207D	Aug-94	13	388	<5.0	15.5	956	533	<1			6.92	<0.010	-2.9	160	37	720	0.05	0.27	2.6	90	<0.004	0.008	<0.5	2.04
MW-207D	Nov-94	11	408	<5.0	17	725	436	8			7.03	<0.010	79.2	146	21	752	0.02	0.35	<2.0				<0.5	3.42
MW-207D	March-95	11.5	436	20	19	563	529	15			6.79	<0.010	53.6	146	54	712	0.71	0.2	<2				<0.5	<0.2
MW-207D	June-95	11.5	481	9.3	20	548	515	6			6.73	<0.010	-23.2	134	34	792	<0.02	0.13	<2				<0.5	<0.2
MW-207D	Sept - 95	11.5	456	16.7	19	465	557	21			6.69	<0.010	-53.3	148	32.5	768	0.11	<0.05	<2				<0.5	<0.2
MW-207D	Nov-95	10	488	<5.0	18	456	538	<1			6.94	<0.010	-74.8	130	55	776	<0.02	<0.05	<2	15	<0.004	<0.004	<0.5	<0.2
MW-207D	April-96	11.3	250	23	3.8	1210	360	6.4			6.6	0.003	40	83	33	390	<0.03	0.18	12	50	<0.01	<0.01	1.5	3.1
MW-207D	June-96	11.3	500	16	13	1130	620	1.1			7	<0.002	98	130	86	740	<0.03	<0.02	<4				5.4	<2
MW-207D	Sept-96	11.6	860	2.8	10	1300	580	1.8			6.9	<0.002	60	380	7.8	770	<0.03	<0.02	<4				0.4	<2
MW-207D	Nov-96	11	530	20	17	1070	450	2.2			7.1	<0.002	80	120	55	710	<0.03	<0.02	<4				1.4	<2
MW-207D	March-97	9.6	420	13	4.5	1000	390	4.8			6.5	<0.002	115	90	178	550	<0.03	0.61	<4	20	<0.01	<0.01	0.69	<2
MW-207D	June-97	11.9	600	84	6.8	769	450	4.1			7.3	<0.002	163	66	123	580	0.053	0.45	<4				0.33	<2
MW-207D	Sept-97	12	440	15	8.2	810	480	5			7.2	0.0022	100	120	75	3400	<0.03	0.6	12				0.65	<2
MW-207D	Dec-97	11	750	9.2	17	1100	530	3.1			7.28	<0.002	75	96	168	660	0.082	0.026	<4				0.3	<2
MW-207D	Mar-98	10.8	630	17	15	1090	630	2.5			7.43	<0.002	205	77	738	710	<0.03	<0.02	<4				0.8	<2
MW-207D	June-98	16	450	3.4	4.9	754	500	2.5			7.06	<0.002	-20	57	105	480	0.062	0.3	<4	5	<0.01	<0.01	0.41	<1
MW-207D	Sept-98	12	600	30	17	1110	660	2.2			6.74	<0.002	5	84	404	750	<0.03	<0.02	<4				0.34	<1
MW-207D	Dec-98	11.3	520	15	38	1050	690	2			6.56	<0.002	25	82	284	730	<0.03	0.034	<4				0.22	<1
MW-207D	Apr-99	11	470	29	35	1080	570	2			7.86	<0.002	-30	100	185	680	<0.03	<0.02	<4				0.42	<0.1
MW-207D	June-99	11.3	460	10	35	1050	710	1.8			6.77	<0.002	60	97	285	670	<0.03	0.17	<4				0.53	<0.1
MW-207D	Sept-99	12.7	530	11	16	1050	590	1.9			7.69	<0.002	105	95	251	690	<0.03	<0.02	<4				0.35	0.15
MW-207D	Dec-99	11.4	490	12	18	1060	630	1.8			8.31	<0.002	55	110	360	680	<0.03	0.067	<4	1	<0.01	<0.03	0.31	0.13
MW-207D	Apr-00	10.4	294	19.6	57.1	890	452	6.5			7.49	<0.004	-81	80	30	597	0.16	0.446	<3	75	<0.01	<0.01	<1	<1
MW-207D	Jun-00	13.3	577	<10	15.4	800	577	1.6			7.59	<0.004	-112	58	4.76	681	<0.1	0.059	<3				<1	<1
MW-207D	Sep-00	11.3	545	<10	15.6	1095	621	1.7			7.15	<0.004	-2	86	40	686	<0.1	0.058	<3				<1	<1
MW-207D	Dec-00	9.1	585	<10	13.9	1106	611	1.8			7.07	<0.004	26	78	32	679	<0.1	<0.05	<3				1	<1
MW-207D	Mar-01	10.8	560	<10	13.7	1093	614	2.2			7.13	<0.004	-48	77	4	688	<0.1	<0.05	<3				1.38	<1
MW-207D	Jun-01	12.4	556	<10	15.5	1125	594	2.3			6.99	<0.004	-70	79	5.7	625	<0.1	<0.1	<3	45	<0.01		2.02	<1
MW-207D	Sept-01	13.2	521	<10	14.2	1109	606	2			7.15	<0.004	-58	76.8	3.25	682	<0.1	<0.1	<3				<1	<1
MW-207D	Dec-01	11	525	45.1	16.9	1091	601	1.6			7.33	<0.004	-89	84.3	4.18	662	<0.1	<0.1	<3				<1	<1
MW-207D	Mar-02	10.6	593	<10	14.7	1095	568	<1			7.05	<0.004	-47	83.9	10.55	639	<0.1	<0.1	<3</					

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4- (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
<i>Class GA Groundwater Quality Standards and Guidance Values</i>																							
MW-207D	Jul-13	12.01	290	5.5	10	739	370	1.4		6.74	<0.005	-40.2	92	38.2/51	460	0.067	0.17	<2.0	200	<0.005	<0.005	0.28	
MW-220	May-88	12	460		18.8	1655	370	4.8	6.88		0.066		617	300	1390	0.09		14	<5.0			0.2	
MW-220	Aug-88	13	218		32.8	1383	852	<0.1	6.76		<0.005		518	200	483	0.14		5	<5.0			0.34	
MW-220	Nov-88	11	396		30.3	1353	868	3.8	6.99		0.026		600	18	682	0.12		42	5			0.73	
MW-220	Feb-89	9.3	428	45.5	24	1741	1300	3.6	7.46		0.038	66	743	170	1440	0.12	<0.10	4	5		0.06	1.14	
MW-220	Apr-89	13	378		32.5	1133	892	2.49	6.97		<0.005	-1	514	260	489	0.08		8	25			2.02	
MW-220	Jun-89	13.75	459		26.8	1447	1210	9.76	7.08		0.006		841	550	1720	0.05		48	480			1.53	
MW-220	Feb-90	11.7	383	29.7	41.6	1118	912	3.86	7.15		<0.005	-10.4	503	298	1170	0.07	0.1	5	10	<0.005	<0.01		
MW-220	Apr-90	11.6	455		39.7	1951	310	3.07	6.78		<0.005	12.65	515	175	1290	0.04		6	25			0.82	
MW-220	Nov-90	12	485	14	37.2	1700	880	25	7.1	6.92	<0.05	144.7	3.3	180	1230	<0.1	<0.04	1.7		0.008	0.004	<0.5	
MW-220	Feb-91	12	474	<1.0	50.6	1300	850	14.4	6.9	7.06	<0.010	24.6	420	290	554	0.07	<0.04						
MW-220	May-91	12	448	17.6	43.6	1200	810	10.5	7.1	6.54	<0.010	132	369	443	1192	0.06	0.18						
MW-220	Aug-91	13	444	10.4	54.2	1555	700	<0.0	7	6.9	<0.010	234.6	290	460	1086	0.06	<0.04						
MW-220	Nov-91	14	460	25	37	1393	700	7		6.79	<0.010	204.8	243	150	1076	0.1	<0.04						
MW-220	Feb-92	10	508	21.1	33.7	1460	839	8	7.03		<0.010	205.1	307	170	1060	0.11	0.03	<0.5	<5	<0.010	<0.004	<0.5	
MW-220	May-92	13	506	6	15	1403	810	<1.0		6.38	<0.010	147.3	32.4	250	1176	<0.04	0.11	1.95	10	<0.010	<0.004	0.13	
MW-220	Aug-92	13	444	22.4	39.5	1221	673	27		6.47	<0.010	132.2	331	134	1188	<0.04	0.2						
MW-220	Dec-92	12.5	712	3	54	1367	610	<1.0		6.77	<0.010	109.5	280	1120	880	0.03	<0.02						
MW-220	Feb-93	10.5	612	23.8	25.5	1202	697	45		6.93	<0.010	19.7	388	1000	1112	<0.02	<0.02						
MW-220	Jun-93	11.5	498	5.1	23	511	788	1	6.94		<0.010	179.8	429	180	1136	0.07	<0.02	0.8	<5	<0.004	<0.004	<0.5	
MW-220	Aug-93	12.5	460	<1.0	24	817	784	<1.0		6.63	<0.010	42.9	112	180	1108	<0.02	<0.02						
MW-220	Dec-93	12	432	8.3	21	1183	699	12		6.87	<0.010	127.2	338	118	1060	<0.02	0.06						
MW-220	3-13-94	12	404	<1.0	25	1197	694	68		7.02	<0.010	231.1	310	75	808	<0.02	0.16	<2.0				<0.5	0.83
MW-220	Jun-94	13	512	8.6	17	1096	890	5		6.71	<0.010	77.5	450	260	1268	<0.02	0.03	<2.0				<0.50	1.18
MW-220	Aug-94	11.5	408	<5.0	18.5	1192	676	4		6.78	<0.010	57.9	334	11.5	948	0.04	0.18	<2.0	50	<0.004	<0.004	<0.5	2.24
MW-220	Nov-94	12	521	14.3	21	883	580	18		6.98	<0.010	94.9	310	156	1024	0.04	0.13	<2.0				0.81	3.75
MW-220	March-95	10.5	537	<5.0	36	636	756	36		6.84	<0.010	60.1	499	200	1204	0.13	0.13	<2				<0.5	<0.2
MW-220	June-95	11.5	553	18.6	26	624	607	8		6.9	<0.010	-0.6	319	190	1290	0.66	<0.05	<2				<0.5	<0.2
MW-220	Sept-95	12.5	512	25	34	525	680	<1		7.03	<0.010	-41.5	290	200	1224	0.22	<0.05	<2				<0.5	0.4
MW-220	Nov-95	10.5	536	12.2	30	506	929	<1		7.06	<0.010	-22.3	614	280	1504	<0.02	<0.05	<2	10	<0.004	<0.004	<0.5	0.6
MW-220	April-96	11.5	500	75	26	1800	1100	16		6.8	<0.002	175	560	703	1600	0.17	<0.02	<4	200	<0.01	<0.01	1.3	0.93
MW-220	June-96	11.7	450	37	16	1680	960	1.1		7.1	0.049	5.65	650	550	1300	<0.03	<0.02	<4				1	<2
MW-220	Sept-96	12	430	18	12	1500	770	6.5		6.9	<0.002	140	490	710	1200	<0.03	<0.02	<4				0.33	<2
MW-220	Nov-96	11.9	480	60	17	1750	800	1.6		6.84	<0.002	125	1000	250	1700	<0.03	<0.02	<4				0.52	<2
MW-220	March-97	10.6	550	57	27	1590	690	2.4		7	<0.002	155	400	>999	1000	<0.03	<0.02	<4	10	<0.01	<0.01	0.49	<2
MW-220	June-97	11.9	560	40	30	1320	800	2.4		6.89	0.0028	180	430	452	1090	0.089	<0.02	<4				0.65	<2
MW-220	Sept-97	13.2	560	9.1	27	1300	810	3.2		7	0.0041	180	309	850	1000	0.048	<0.02	<4				0.42	<2
MW-220	Dec-97	11.5	520	<1	23	1360	810	3.2		7.23	<0.002	160	330	>999	800	0.074	<0.02	<4				0.39	<2
MW-220	Mar-98	10.7	420	8.6	17	1460	860	2.5		7.41	<0.002	280	510	>999	1100	0.073	<0.02	<4				0.77	<2
MW-220	June-98	12.5	570	<3	10	1590	1100	2.2		7.2	<0.002	30	640	625	1400	<0.03	<0.02	<4	10	<0.01	<0.01	0.65	<1
MW-220	Sept-98	13.6	540	18	23	1200	1300	3.5		6.34	<0.002	60	230	>999	860	0.061	<0.02	<4				<0.64	<1
MW-220	Dec-98	12	610	18	18	1210	1500	3.3		6.65	<0.002	95	270	>999	880	0.062	<0.02	8.2				0.98	<1
MW-220	Apr-99	11.2	470	18	24	1560	1200	2.5		6.86	<0.002	140	460	627	1200	<0.03	<0.02	<4				1.1	<0.1
MW-220	June-99	11.8	460	12	18	1420	1000	2.5		6.44	<0.002	275	330	298	1000	<0.03	<0.02	<4				0.62	<0.1
MW-220	Sept-99	13.8	510	15	18	2060	1500	2.3		6.51	<0.002	245	820	537	1700	<0.03	<0.02	<4				0.27	<0.1
MW-220	Dec-99	12	550	73	19	1520	910	2.3		7.9	<0.002	280	410	>999	1100	<0.03	<0.02	<4	10	<0.01	<0.03	0.77	0.11
MW-220	Apr-00	10.3	537	12.8	19	1500	806	2.1		7.02	<0.004	-29	190	6	1130	0.165	<0.05	<3	15	<0.01	<0.01	<1	<1
MW-220	Jun-00	13.4	481	<1.0	12.5	1600	1360	1.3		7.24	<0.004	-87	700	10.7	1890	<0.1	<0.05	<3				<1	<1
MW-220	Sept-00	12.4	454	<1.0	13.3	1303	803	2.3		7.17	<0.004	4	370	12	928	<0.1	<0.05	<3				<1	<1
MW-220	Dec-00	9.8	492	<1.0	13.6	1635	924	1.6		7.18	<0.004	82	600	33	1230	<0.1	0.054	<3				<1	<1
MW-220	Mar-01	10.8	537	<1.0	20.4	1317	653	3.2		7.08	<0.004	7	240	8.7	871	<0.1	0.085	<3				1.38	<1
MW-220	Jun-01	13	456	<1.0	18	1198	662	2.4		7.13	<0.004	27	254	6.4	799	<0.1	<0.1	<3	100	<0.01	<0.01	<1	<1
MW-220	Sept-01	13.7	448	<1.0	17.9	1196	690	2.3		7.09	<0.004	33	225	9.56	760	<0.1	<0.1	<3				<1	<1
MW-220	Dec-01	11.7	454	<1.0	18.6	1222	715	2.2		7.09	<0.004	32	245										

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
<i>Class GA Groundwater Quality Standards and Guidance Values</i>					250					6.5-8.5	0.001		250		500	2	10			0.2	0.05		2
MW-220	Feb-11	9.12	483	17	20	1219	723	2		6.15	0.007	62.8	170	87	790	0.11	<0.05	<4.0	50	<0.01	<0.01	0.57	
MW-220	Apr-12	14.21	400	<5.0	21	1091	620	1.9		7.05	<0.0050	59.3	140	149	740	<0.014	0.29	<2.0	15	<0.0050	<0.0050	0.5	
MW-220	Jul-13	12.86	430	9.4	16	1144	650	2		7.32	<0.005	0.8	220	61.3/58	770	0.039	<0.020	<2.0	10	<0.005	<0.005	0.19	
MW-221S	Sep-87	14	620	10	83.9	1400	820	4.6	6.37		0.018		180	298	1010	0.16	<0.10	7				1.56	
MW-221S	May-88	12.5	540		75.9	1302	720	1.3	6.82		<0.005		131	200	927	0.05		10				0.2	
MW-221S	Aug-88	13	808		99.7	1410	790	<0.1	6.48		<0.005		192	76	465	0.16		54				0.76	
MW-221S	Nov-88	11.5	610		68.5	1250	752	2.19	6.42		<0.005		54.7	73	391	<0.04		36				1.13	
MW-221S	Feb-89	9.5	591	492	80	1854	825	3.55	7.29	0.02	342.5	210	140	712	0.31	<0.10	5	5		0.03		8.87	
MW-221S	Apr-89	13	561		77.1	1079	782	5.69	6.66	<0.005	-18	179	640	500	<0.04		44	20				1.87	
MW-221S	Jun-89	13.5	452		58.2	394	180	25	6.2	0.01		43.6	38	500	<0.04		19	20				0.36	
MW-221S	Nov-89	14.7	660		174	1534	892	13.5	6.52	0.009	14	246	248	254	0.24		45	<5.0				1.42	
MW-221S	Feb-90	12.5	641	43.3	122	1551	827	16.8	6.71	<0.005	15.3	149	249	1050	0.08	0.68	8	10		<0.005	<0.01		
MW-221S	Apr-90	15	654		144	1505	740	19.7	6.53	<0.005	25.3	136	110	1180	<0.04		18	15				0.82	
MW-221S	Nov-90	15	677	37	107	1600	770	52	6.8	6.98	<0.05	132.3	110	240	1046	<0.1	<0.04	6.1	<5.0	0.008	<0.004	<0.5	
MW-221S	Feb-91	14	662	11.8	122	1600	830	11.4	6.6	6.78	<0.010	136.1	126	250	1051	0.1	<0.04		<5.0				
MW-221S	May-91	15	592	22.6	186.1	1700	780	18	6.7	6.45	<0.010	170.9	195	256	1224	0.24	0.09		<5.0				
MW-221S	Aug-91	19	636	18	167	1980	860	7	6.6	6.62	<0.010	226.1	145	470	1286	<0.03	<0.04		<5.0				
MW-221S	Nov-91	15	708	23.5	140	1825	816	14	6.6	6.58	<0.010	54.6	91	270	1232	<0.02	<0.04						
MW-221S	Feb-92	11	770	32.6	117	1597	767	10	6.5	<0.010	38.1	56.6	38	248	956	0.05	0.06	1.4	<5	<0.010	<0.004	<0.5	
MW-221S	May-92	13	600	58	185	1865	869	<1.0	6.32	<0.010	160.9	20.4	150	1456	<0.04	0.1	2.6	10	0.016	<0.004	0.15		
MW-221S	Aug-92	14	722	14.3	180	940	826	<1.0	6.5	<0.010	115.9	215	86	360	<0.04	0.14							
MW-221S	Dec-92	12	1094	16.8	88	1733	686	<1.0	6.9	<0.010	132.2	144	480	1080	<0.02	<0.02							
MW-221S	Feb-93	10.5	702	38.7	87.5	1363	673	95	6.11	<0.010	122.1	302	330	1320	<0.02	<0.02							
MW-221S	Jun-93	12	814	10.3	100	548	813	<1.0	6.46	<0.010	94	142	84	1160	0.13	<0.02	1.6	5	<0.004	<0.004	<0.5		
MW-221S	Aug-93	15.5	808	22.4	133	1141	967	<1.0	6.16	<0.010	34.5	148	220	1224	<0.02	<0.02							
MW-221S	Dec-93	12.5	760	34	77	1456	815	10	6.67	<0.010	11.6	87.4	350	1098	<0.02	0.03							
MW-221S	Feb-94	11.5	776	22.1	108	1661	762	128	6.93	<0.010	72.7	36.1	190	248	<0.02	<0.05	<2.0				<0.5	0.72	
MW-221S	Jun-94	13.5	756	10.8	68	1156	834	4	6.33	<0.010	54.7	117	61	1124	0.178	0.04	3	100	<0.004	<0.004	<0.50	0.89	
MW-221S	Aug-94	12.5	820	17.8	78	1501	802	<1	6.43	<0.010	26.6	100	84	1098	0.07	0.08	<2.0				<0.5	2.76	
MW-221S	Nov-94	13.5	844	14.3	51	997	665	28	6.53	<0.010	54.1	122	19	1124	0.03	0.06	<2.0				<0.5	4.2	
MW-221S	March-95	10.5	763	20	56	663	755	<1	6.64	<0.010	36.4	140	83	1068	1.67	0.13	<2				1.23	0.3	
MW-221S	June-95	11.5	800	14	105	712	891	<1	6.58	<0.010	-21.7	104	72	1156	0.61	0.09	<2				2.6	<0.2	
MW-221S	Sept -95	14	575	<5.0	54	502	624	<1	6.76	<0.010	-30.6	86.2	60	928	0.1	<0.05	<2				<0.5	0.5	
MW-221S	Dec-95	12.5	648	8.3	75	502	598	<1	6.78	<0.010	12.6	103	3120	968	1.24	<0.03	<2	10	<0.004	<0.004	<0.5	<0.2	
MW-221S	April-96	6.7	780	160	51	1600	580	11	6.8	<0.002	190	170	600	1600	0.89	<0.02	600	750	<0.01	<0.01	20	3.4	
MW-221S	June-96	11.7	700	250	37	1540	880	4.4	6.7	<0.002	245	200	790	1600	0.24	0.043	6.4				10	<2	
MW-221S	Sept-96	14.7	130	5.3	51	1600	160	1.1	6.5	<0.002	-10	6.3	>>>	250	<0.03	0.077	<4				0.47	<2	
MW-221S	Nov-96	13	130	<1	46	1700	590	3.7	6.58	<0.002	25	390	470	1100	0.24	<0.02	<4				0.88	<2	
MW-221S	March-97	7.6	800	160	68	1700	760	5	6.6	<0.002	120	200	>>>	1100	0.25	<0.02	<4	10	<0.01	<0.01	1.4	<2	
MW-221S	June-97	11.9	920	51	56	1500	810	3.9	6.41	0.011	95	67	>>>	940	0.063	<0.02	4				1.2	<2	
MW-221S	Sept-97	15.5	930	44	50	1600	960	5.7	6.8	0.0065	145	120	1000	1000	0.28	0.022	<4				1.2	<2	
MW-221S	Dec-97	12.6	670	9.2	31	1590	1100	4.7	6.75	<0.002	125	330	>>>	1100	0.28	0.4	5				0.87	<2	
MW-221S	Mar-98	8.8	640	15	18	1510	960	3.1	7.29	<0.002	330	410	74	1100	0.13	0.068	11				5.9	<2	
MW-221S	June-98	14.8	650	5.1	9.9	1270	770	2.8	6.34	<0.002	400	270	>>>	890	<0.03	0.079	<4	7	<0.01	<0.01	1.1	3.4	
MW-221S	Sept-98	15.5	810	21	56	1530	1200	4.9	6.09	<0.002	85	89	>>>	1000	0.05	<0.02	<4				1.1	<1	
MW-221S	Dec-98	12.7	800	20	62	1530	1300	4.4	7	<0.002	55	120	>>>	1090	0.044	<0.02	9.9				0.95	<1	
MW-221S	Apr-99	9.3	500	18	24	1590	1000	3.2	7.52	<0.002	175	300	852	1100	<0.03	3.8	<4				0.45	<0.1	
MW-221S	Jun-99	10.9	600	16	33	1500	1300	3.2	7.04	<0.002	290	240	99	1100	<0.03	<0.02	<4				1.2	<0.1	
MW-221S	Sept-99	15.6	650	12	32	1470	900	3.4	6.48	<0.002	310	190	159	990	<0.03	0.13	<4				0.43	0.28	
MW-221S	Dec-99	12.1	510	39	7.3	1210	740	2.3	8.21	<0.002	215	89	144	830	0.03	0.99	<4	5	<0.01	<0.03	0.97	<0.1	
MW-221S	Apr-00	8.3	521	12.8	9.82	1200	723	1.6	7.07	<0.004	-6	200	950	835	<0.1	2.16	<3	500	<0.01	<0.01	<1	<1	
MW-221S	Jun-00	16.1	542	<10	13.9	950	709	2	7.31	<0.004	-40	180	16.1	873	<0.1	0.752	<3				2.52	<1	
MW-221S	Sep-00	14	570	<10	11.5	1146	646	2.2	6.99	<0.004	26	130	3	706	<0.1	0.061	<3				<1	<1	
MW-221S	Dec-00	10.5	592	<10	8.76	1119	645	5	7.06	<0.004	100	99	2										

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
<i>Class GA Groundwater Quality Standards and Guidance Values</i>																							
					250					6.5-8.5	0.001		250		500	2	10			0.2	0.05		2
MW-221S	Jun-05	18.2	462	17.5	<5.0	493	591	3.23		8.08	<0.0100	88	34.7	12	602	<1.00	0.27	<4.00	20	<0.0100	<0.010	<1.00	<1.00
MW-221S	Sep-06	18.9	410	10	9.6	240	440	2.3		8.07	<0.010	52.7	22	65	500	<1.0	0.49	<4.0	100	<0.010	<0.010	<1.0	<1.0
MW-221S	Dec-07	11.6	450	100	15	910	610	3.6		6.63	<0.003	280	23	398	590	<0.03	<0.1	<4	200	<0.01	<0.01	0.25	<0.1
MW-221S	Aug-09	16.43	523	20	25	880	535	2.1		7.31	<0.010	81	53.9	171.6	650	0.07	0.33	<4	2	<0.005	<0.004	<0.5	<0.1
MW-221S	Feb-11	8.89	497	10	25	930	521	1.3		8.23	0.007	209.9	34	320	600	0.17	0.15	<4.0	200	<0.01	<0.01	2.4	<0.1
MW-221S	Apr-12	11.06	440	10	47	1140	580	2.4		6.73	<0.0050	294.7	28	113	640	<0.0090	0.28	<2.0	<5.0	<0.0050	<0.0059	0.43	<0.1
MW-221S	Jul-13	13.98	560	5.5	32	1152	600	1.9		6.95	<0.005	23.3	89	139/240	750	0.017	0.91	<2.0	20	<0.005	<0.005	0.48	<0.1
MW-221D	Sep-87	12.5	180	21.9	51.3	410	185	2.8	7.72		0.009		20.2	50	274	0.1	0.1	10	<5.0		<0.01	0.15	<0.1
MW-221D	May-88	12.5	140		42.7	426	190	3.4	7.41		0.02		23.4	23	353	0.07		24	<5.0		<0.20	0.46	<0.1
MW-221D	Aug-88	13	125		59.7	486	178	<0.1	7.6		<0.005		20.6	4	122	0.14		4	<5.0		<0.20	0.46	<0.1
MW-221D	Nov-88	11.3	127		60.5	380	182	2.43	7.9		0.038		4.86	20	197	0.06		21	<5.0		<0.20	0.46	<0.1
MW-221D	Feb-89	10	124	10.2	66	548	205	2.35	8.73		0.012	362	35.2	31	499	0.07	<0.10	2	<5.0		<0.01	0.33	<0.1
MW-221D	Apr-89	13	122		58.7	352	204	10.1	7.61		<0.005	-1.5	35.1	16	212	0.07		22	10		<0.01	1.43	<0.1
MW-221D	Jun-89	15	637		157	1627	900	17	6.94		0.034		330	85	2240	0.04		11	35		<0.01	1.09	<0.1
MW-221D	Nov-89	13.5	121		56.6	365	183	0.77	7.9		0.009	-61.1	11.3	23	252	0.06		8	<5.0		<0.01	0.16	<0.1
MW-221D	Feb-90	11.3	132	28.5	61.6	455	184	31.1	7.86		<0.005	-46.8	32.1	225	281	0.16	0.14	10	10	0.005	<0.01	0.16	<0.1
MW-221D	Apr-90	13.25	141		61.4	580	185	28.5	6.55		<0.005	14.85	11.7	52	253	0.04		13	15		<0.01	0.46	<0.1
MW-221D	Nov-90	12	125		7.2	59.7	190	7	7.8	7.55	<0.05	104.1	17.3	8	269	<0.1	<0.04	3.5		0.008	0.005	<0.5	<0.1
MW-221D	Feb-91	12	122	<1.0	62.5	510	180	<3.0	7.9	7.71	<0.010	-13.2	24.4	6	289	0.05	<0.04					<0.5	<0.1
MW-221D	May-91	13	118	4.2	58.5	320	184	<3.0	8	7.37	<0.010	99	21	9.5	259	0.04	0.18					<0.5	<0.1
MW-221D	Aug-91	14	118	<0.5	58.3	500	180	<3.0	7.8	7.61	<0.010	201.8	17.8	6.1	342	0.05	<0.04					<0.5	<0.1
MW-221D	Nov-91	14	126	2.8	58.5	469	161	1	7.55		<0.010	35.7	13.3	2.5	248	0.08	<0.04					<0.5	<0.1
MW-221D	Feb-92	10	130	12.3	57.4	458	174	1	7.21		<0.010	77.8	18.7	2.5	252	0.11	<0.02	0.8	<5	<0.010	<0.004	<0.5	<0.1
MW-221D	May-92	13	122	<1.0	65	456	179	<1.0	7.41		<0.010	121.7	10	1.7	374	<0.04	0.09					<0.5	<0.1
MW-221D	Aug-92	14	408	<1.0	62	340	147	<1.0	7.33		<0.010	89.4	26.8	2.9	352	<0.04	0.02					<0.5	<0.1
MW-221D	Dec-92	12	106	7.5	65	506	146	<1.0	7.43		<0.010	108	51.7	1.5	272	<0.02	<0.02					<0.5	<0.1
MW-221D	Feb-93	11	120	2.7	55	446	133	9	7		<0.010	97.7	34.5	18	248	0.04	0.02					<0.5	<0.1
MW-221D	Jun-93	13	116	7.7	60	304	146	6	7.52		<0.010	66.5	69.3	2.7	296	0.05	<0.02	1	<5	<0.004	<0.004	<0.5	<0.1
MW-221D	Aug-93	15	124	<1.0	61	379	163	<1.0	7.1		<0.010	65.4	50.5	0.8	265	<0.02	<0.02					<0.5	<0.1
MW-221D	Dec-93	12	106	5.5	59	402	177	2	7.1		<0.010	-37.3	31.5	4	316	<0.02	0.04					<0.5	<0.1
MW-221D	3-43-96	11.5	116	<1.0	60	453	164	8	7.49		<0.010	64.7	29.6	8.2	224	<0.02	<0.05	<2.0				<0.5	0.98
MW-221D	Jun-94	13.5	118	<1.0	58	395	169	<1	7.57		<0.010	-1.4	27.1	1.7	273	<0.02	<0.02	<2.0				<0.5	0.98
MW-221D	Aug-94	12.5	116	8.9	58.5	439	167	4	7.24		<0.010	-2	46.3	3.2	260	0.06	0.19	<2.0	15	<0.004	<0.004	<0.5	2.22
MW-221D	Nov-94	12.5	129	9.5	59	385	144	1	7.72		<0.010	-40.5	29.8	3.9	280	<0.02	0.18	<2.0	10	<0.004	<0.004	<0.5	3.12
MW-221D	March-95	11.5	755	5	62	362	173	5	7.14		<0.010	-7.3	38.5	1.7	268	0.08	0.14	<2				<0.5	0.8
MW-221D	June-95	12.5	123	<5.0	59	355	158	<1	7.27		<0.010	72.9	19.7	3.1	296	0.69	0.07	<2				<0.5	0.4
MW-221D	Sept. -95	12.5	116	8.3	60	319	168	<1	7.18		<0.010	-78.3	21.8	5.1	300	0.1	<0.05	<2				<0.5	1.1
MW-221D	Dec-95	11	120	<5.0	58	312	146	<1	7.35		<0.010	-29.4	26.6	5.5	276	0.06	<0.05	<2	<5	<0.004	<0.004	<0.5	0.7
MW-221D	April-96	8.3	140	1	57	450	280	<1	8.3		<0.002	53.5	19	28	310	<0.03	0.043	13	5	<0.01	<0.01	0.46	3.1
MW-221D	June-96	11.6	120	1	51	447	180	<1	8.2		<0.002	31.5	44	200	290	<0.03	0.027	<4				2.1	<2
MW-221D	Sept-96	13.7	830	5.7	32	450	790	22	8		<0.002	140	440	13	1100	0.061	<0.02	<4				3.2	<2
MW-221D	Nov-96	11.4	120	<1	52	425	140	<1	8		<0.002	45	20	3.4	296	<0.03	<0.02	<4				0.62	<2
MW-221D	March-97	9.1	140	11	58	454	150	<1	8		<0.002	180	34	130	230	<0.03	0.037	<4	10	<0.01	<0.01	0.4	<2
MW-221D	June-97	12.1	140	8.6	55	425	170	1.1	7.95		<0.002	195	16	<1	260	<0.03	<0.02	<4				0.85	<2
MW-221D	Sept-97	15.8	120	<1	59	440	150	<1	7.6		0.0024	450	28	3	250	<0.03	0.06	<4				0.25	<2
MW-221D	Dec-97	11.7	140	33	48	489	160	1.6	8.03		<0.002	120	27	34	270	<0.03	0.021	<4				0.17	<2
MW-221D	Mar-98	10.7	120	<1	54	478	170	<1	7.9		<0.002	32.5	43	23	240	<0.03	0.051	<4				0.14	<2
MW-221D	June-98	12.4	150	6.6	63	473	170	<1	7.3		<0.002	285	14	21	230	<0.03	0.047	<4	4	<0.01	<0.01	0.4	<1
MW-221D	Sept-98	14.6	130	2.1	61	450	170	<1	7.05		<0.002	85	15	49	270	<0.03	0.023	<4				0.23	<1
MW-221D	Dec-98	12.4	120	<1	63	433	240	<1	7.53		<0.002	110	25	15	220	<0.03	0.035	8.4				0.12	<1
MW-221D	Apr-99	11.6	110	6.3	61	492	170	<1	7.76		<0.002	80	18	36	290	<0.03	0.029	<4				0.77	0.71
MW-221D	Jun-99	11.9	120	2.9	57	460	210	<1	6.95		0.0021	240	17	95	280	<0.03	0.						

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
<i>Class GA Groundwater Quality Standards and Guidance Values</i>																							
					250					6.5-8.5	0.001		250		500	2	10			0.2	0.03		2
MW-221D	Jun-02	12.7	120	<10	58	444	171	<1		7.76	<0.004	-25	16.4	2.7	238	<0.1	<0.1	<3				<1	<1
MW-221D	Sept-02	13.4	112	<10	57.7	431	163	<1		7.89	<0.004	301	17.4	4.68	227	<0.1	<0.1	<3	<5	<0.005	<0.01	<1	<1
MW-221D	Dec-02	12	118	<10	62.9	451	182	<1		8.09	<0.004	-18	18.3	12	235	<0.1	0.11	<3				<1	<1
MW-221D	Apr-04	10.3	124	<10	53.7	424	173	<1.0		8.11	<0.004	207	16.4	19	250	<0.10	<0.1	<3	<5	<0.005	<0.01	<1	<1
MW-221D	Jun-05	16.8	122	23.4	53	691	193	<1.00		7.42	<0.0100	151	20.7	26	258	<1.00	0.21	<4.00	15	<0.0100	<0.010	<1.00	<1.00
MW-221D	Sep-06	22.7	130	<10	56	385	190	<1.0		8.12	<0.010	174	18	31	240	<1.0	<0.25	<4.0	100	<0.010	<0.010	<1.0	<1.0
MW-221D	Dec-07	11.1	120	<5	56	398	190	<1		7.71	<0.003	280	8.5	11	230	<0.03	<0.1	<4	10	<0.01	<0.01	0.2	<0.1
MW-221D	Aug-09	15.37	148	48	62	377	193	2.9		7.64	<0.010	51	29.5	33.2	290	0.06	0.11	4	25	<0.005	<0.004	1.67	0.68
MW-221D	Feb-11	9.95	124	26	57	471	191	2.8		7.75	<0.005	185.7	17	6.73	250	0.11	<0.05	10	<1	<0.01	<0.01	0.85	
MW-221D	Apr-12	12.36	140	21	57	487	230	1.6		7.7	<0.0050	226.5	16	3.48	260	0.38	0.7	8.4	5	<0.0050	<0.0050	1.4	
MW-221D	Jul-13	13.05	120	11	56	485	330	1.2		7.06	<0.005	-36.2	17	9.85/150	270	0.4	0.05	<2.0	10	<0.005	<0.005	2.2	
MW-222	Sep-87	13	685		48.5	1583	920	2.2	6.3		0.012		250	260	1128	0.15	0.61	10	<5.0		<0.01	0.67	
MW-222	May-88	13	875		41.3	1681	1100	4.5	6.71		0.041		197	775	686	0.24		12	<5.0			1.07	
MW-222	Aug-88	13	675		46.2	1481	808	2.6	6.44		<0.005		210	190	439	0.28		13	5			1.22	
MW-222	Nov-88	12	707		54.4	1462	982	2.5	6.5		0.031		202	15	683	0.39		12	10			2.51	
MW-222	Feb-89	10.8	739		88	1645	1140	4.25	7.03		0.032	-18.7	173	150	1080	0.19	<0.10	15	25		<0.01	1.53	
MW-222	Apr-89	11.5	488		80.5	1269	821	33.7	6.24		0.012	69	255	530	527	0.15		12	50			1.53	
MW-222	Jun-89	14	510		30.4	1002	541	12.2	6.64		0.011	-156.3	343	340	1010	0.08		9	165			0.9	
MW-222	Nov-89	17	449		46.2	819	502	15.8	6.83		0.008		65	105	1600	0.72		17	80			1.24	
MW-222	Feb-90	12.2	465	12.4	51.7	978	698	8.54	6.92		<0.005	4.8	248	120	895	0.41	<0.10	21	15	<0.005	<0.01		
MW-222	Apr-90	10.4	257		40	684.5	320	3.12	6.49		<0.005	25.5	382	48	495	0.15		11	70			0.65	
MW-222	Nov-90	11	666	20	53.8	890	710	32	6.9	6.56	<0.05	-11.5	87.5	90	922	0.29	<0.1	14	5	<0.004	0.032	0.67	
MW-222	Feb-91	13	691	7.8	61	1450	810	17	6.6	6.71	0.105	-13.9	116	150	1022	0.39	<0.04						
MW-222	May-91	11	548	21.9	63.8	1300	760	10.5	6.6	6.29	<0.010	71.8	205	190	1066	0.18	<0.02						
MW-222	Aug-91	14	660	19	48.5	1880	800	5.3	6.4	6.67	<0.010	232.4	192	300	1252	0.8	<0.04						
MW-222	Nov-91	14	892	140	115	1996	1036	94	6.48	6.48	<0.010	9.3	18	270	1484	1.7	<0.04						
MW-222	Feb-92	10	846	51.9	92.1	2170	1035	27	6.22	6.22	<0.010	13	90	380	1256	0.3	<0.02	15.3	<5	<0.010	<0.004	0.6	
MW-222	May-92	13	750	27	195	1903	1075	<1.0		6.32	<0.010	10.3	13.9	210	1568	0.53	0.15	9.3	10	0.011	<0.004	1.2	
MW-222	Aug-92	13	434	26.5	135	1449	707	<1.0		6.11	<0.010	7.7	79.8	110	1248	0.86	0.12						
MW-222	Dec-92	11.5	908	22.8	130	1941	844	<1.0		6.53	<0.010	5.7	96.8	300	1260	1.09	<0.02						
MW-222	Feb-93	11	47.2	39.6	135	1423	715	106		6.55	<0.010	-63.8	84.9	1000	1180	0.8	<0.02						
MW-222	Jun-93	13.5	812	9.4	51	526	761	<1.0	6.55		<0.010	-10.1	90.6	220	840	0.98	<0.02	5.5	3000	<0.004	<0.004	2	
MW-222	Aug-93	15.5	780	33	105	1101	808	<1.0		6.33	<0.010	-29.9	124	580	1064	14.4	<0.02						
MW-222	Dec-93	13.5	908	41.2	205	2060	1020	32		6.41	<0.010	-60.1	88.7	240	1468	7.78	<0.05						
MW-222	34566	12	828	35.5	182	2360	1097	148		6.61	<0.010	50.9	282	260	1408	4.66	<0.05	5.1				6.95	0.52
MW-222	Jun-94	13.5	788	15.1	50	1059	798	8		6.22	<0.010	-44.8	61.6	150	907	1.22	0.1	7.8				2.51	0.33
MW-222	Aug-94	13	856	26.7	73	1702	949	12		6.4	<0.010	13.1	118	180	1206	6.03	0.17	6.7	80	<0.004	<0.004	9.77	1
MW-222	Nov-94	12	848	14.3	92	1113	753	18		6.49	<0.010	0.3	148	70	1124	1.51	<0.05	4.2				4.93	1.28
MW-222	March-95	11	888	30	42	724	849	20		6.5	<0.010	56.5	202	410	1264	2.71	0.11	5				2.6	0.3
MW-222	June-95	11.5	759	55.8	290	894	780	18		6.65	<0.010	-79.9	99.6	320	1476	1.55	<0.05	6				3.9	1.9
MW-222	Sept -95	11.5	948	112.5	322	812	730	5		6.79	<0.010	-80.0	78.5	225	1736	2.6	<0.05	4.4				3.1	2.4
MW-222	Nov-95	12	592	36.7	38	529	573	<1		6.82	<0.010	-89.1	151	380	908	0.56	<0.05	11	25	<0.004	<0.004	1.27	1
MW-222	April-96	9.7	820	59	77	1890	800	16		6.7	<0.002	85	120	1000	1200	1.5	<0.02	28	750	<0.01	<0.01	6.4	2.1
MW-222	June-96	11.7	730	73	75	1710	800	8.6		6.6	<0.002	140	62	490	1200	0.95	<0.02	16				4	<2
MW-222	Sept-96	13.7	1000	110	41	2000	890	15		6.3	<0.002	78	<10	480	1300	1.1	<0.02	11				2.3	<2
MW-222	Nov-96	11.5	860	140	88	1950	680	5.8		6.47	<0.002	0	110	440	1200	0.6	<0.02	21				2.3	<2
MW-222	March-97	10.1	370	74	150	2030	790	9.6		6.5	<0.002	10	46	160	1190	1	<0.02	11	25	<0.01	<0.01	2	<2
MW-222	June-97	12	990	53	180	2060	900	11		6.43	0.0093	130	430	925	1300	1	<0.02	24				3.2	<2
MW-222	Sept-97	13	960	180	280	2600	1000	36		6.4	0.0019	50	150	600	1900	5.6	<0.02	16				7.3	<2
MW-222	Dec-97	12	2100	170	310	3150	810	43		6.59	<0.002	-10	150	>999	1800	34	<0.02	<4				34	2.4
MW-222	Mar-98	11.5	1200	32	170	2200	720	12		6.86	<0.002	20	78	58	1200	16	<0.02	13				16	2.8
MW-222	June-98	13.8	980	24	50	1620	700	7.5		6.66	<0.002	-90	38	374	920	12	<0.02	14	130	<0.01	<0.01	15	<1
MW-222	Sept-98	13.7	970	21	49	1800	1000	6.9		5.94	<0.002	<-95	130	>999	1190	9.5	<0.02	25				10	<1
MW-222	Dec-																						

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)	
<i>Class GA Groundwater Quality Standards and Guidance Values</i>					250					6.5-8.5	0.001		250		500	2	10			0.2	0.05		2	
MW-222	Jan-01	13.2	865	31	106	1708	756	9.7		6.83	<0.004	-93	28.7	23	933	<0.1	<0.1	10	250	<0.01		7.4	<1	
MW-222	Sep-01	13	778	24.4	111	1947	865	8.1		6.7	<0.004	-78	45.2	9.52	1110	4.18	<0.1	14				8.41	<1	
MW-222	Dec-01	12.7	1030	79.7	257	2690	759	2.3		6.77	0.0078	-78	56.8	6.96	1350	70.8	<0.1	5.4				59.8	2.92	
MW-222	Mar-02	11.8	1204	130	177	2070	479	23		6.79	0.0155	-42	27.8	13	1080	80.6	<0.1	8				125	1.57	
MW-222	Jun-02	13.6	985	37.4	98.2	2260	513	22		6.76	0.0042	-74	106	3.6	885	70.4	<0.1	11				104	1.17	
MW-222	Sept-02	14.1	874	18.7	90.1	1745	572	7.2		7.02	<0.004	-99.5	34	10.82	795	38.9	<0.1	11	100	<0.005	<0.01	64.8	<1	
MW-222	Dec-02	13.1	996	32.4	42.9	1445	692	8.1		6.75	0.0043	-62	89.4	9.4	930	53.5	<0.1	11				34.3	<1	
MW-222	Apr-04	12.3	795	22	74.6	1495	798	7.1		7.18	<0.004	-15	18.5	45	999	2.58	<0.1	>22E	150	<0.005	<0.0025	5.3	<1	
MW-222	Jun-05	16.4	827	50.1	58	686	825	8.75		8.19	0.032	104	47.5	61	1010	8.68	0.73	8.78	400	<0.0100	<0.010	3.95	<1.00	
MW-222	Sept-06	17.6	820	48	71	237	810	11		8.59	0.019	854	11	38	990	7.2	<0.25	12	150	<0.010	<0.010	9.3	<1.0	
MW-222	Dec-07	11.1	910	50	98	2000	820	12		6.47	<0.003	35	30	13	1000	37	<0.1	11	300	<0.01	<0.01	38	<0.1	
MW-222	Aug-09	19.5	808	60	67	1830	800	6.1		6.84	<0.010	-97	68.9	157	1078	8.59	<0.05	<12	2	<0.005	<0.004	8.77	0.42	
MW-222	Apr-12	13.42	630	14	8.1	1262	680	3.8		6.62	<0.0050	67.9	17	34.5	680	5.2	0.15	2.7	60	<0.0050	<0.0050	4.4	0.42	
MW-222	Jul-13	13.11	760	23	52	1463	680	5.7		7.45	<0.005	-72.4	53	34.1/190	860	12	0.25	<2.0	30	<0.005	<0.005	9.8		
MW-223S	Sep-87	11.5	626	10.1	18.5	1492	900	7.3	7.01		<0.005		255	40	1010	0.1	0.3	4	<5.0		<0.01	0.26		
MW-223S	May-88	12.5	730		10.5	1346	890	4.3	7.89		<0.005			17	984	0.28		12	<5.0			0.59		
MW-223S	Aug-88	12	737		10.9	1508	650	9.4	6.85		<0.005			30	473	0.11		10	<5.0			0.81		
MW-223S	Nov-88	10	662		11.4	1223	898	19.3	6.93		0.05			5	631	0.15		69	<5.0			0.35		
MW-223S	Feb-89	8	593	17.4	11	1522	804	6.5	7.45		<0.005	97.5		269	85	960	0.14	<0.1	13	10		<0.01	0.66	
MW-223S	Apr-89	14	376		2.5	1458	474	11.93	6.02		0.01	-290		137	12	615	0.48	15	<5.0			1.02		
MW-223S	Jun-89	13.5	730		10.5	1352	972	12.4	6.96		<0.005			549	88	2040	0.06	11	22			0.22		
MW-223S	Nov-89	11.3	764		14	1193	991	5.64	6.82		0.009	-1.2		229	36	1660	0.11	8	<5.0			0.36		
MW-223S	Feb-90	11.5	744	11.2	11	1475	961	16.3	6.94		<0.005	-2.15		228	124	1060	0.14	<0.1	6	10	<0.005	<0.01		
MW-223S	Apr-90	11.7	693		10.2	1107.5	891	15.2	8.03		<0.005	-61.3		121	180	901	0.14	82	5			0.56		
MW-223S	Nov-90	10	819	11	11.7	970	920	5.8	7	7.1	<0.010	205.1		170	54	1069	0.16	<0.1	9.5	<5	<0.004	0.027	<0.5	
MW-223S	Feb-91	11	738	<0.5	12.9	1300	910	78	6.8	6.97	<0.010	66.9		165	110	1064	0.2	<0.04						
MW-223S	May-91	11	720	5.5	11.7	1100	940	<3	6.7	6.66	<0.010	202.8		152	47	1022	0.12	<0.04						
MW-223S	Aug-91	11	718	4.5	10.4	1540	880	19.4	6.9	7.17	<0.010	223.3		155	60	1080	0.06	<0.04						
MW-223S	Nov-91	10	664	3.8	11	1592	879	52	6.58		<0.010	100.8		182	100	1016	0.12	<0.04						
MW-223S	Feb-92	11	694	14.7	12.9	1499	853	3	6.85		<0.010	79.7		203	67	924	0.16	0.03	6.6	<5	<0.010	<0.004	<0.5	
MW-223S	May-92	12	622	96	10	1406	822	<1.0	6.69	<0.010	75.4		168	66	956	0.48	0.08	2.7	5	0.016	<0.004	0.31		
MW-223S	Aug-92	13	702	7	12	1256	725	7	6.81	<0.010	38.2		182	120	1036	0.09	0.02							
MW-223S	Dec-92	10	662	3	6	1603	746	<1.0	6.8	<0.010	39.5		162	82	1030	0.02	0.04							
MW-223S	Feb-93	10	740	<1.0	10	1241	614	58	6.9	<0.010	25.4		166	105	973	0.11	0.07							
MW-223S	May-93	12.5	742	15.4	9	571	779	14	6.79		<0.010	75.1		142	90	996	0.03	<0.02	0.8	<5	0.004	<0.004	<0.5	
MW-223S	Aug-93	14	772	2	11	976	864	<1.0	6.53	<0.010	1.2		147	140	1028	0.15	<0.02							
MW-223S	Dec-93	10	688	5.9	10	1305	923	30	6.75	<0.010	96.1		166	112	972	<0.02	<0.05							
MW-223S	34366	10.5	700	<1.0	11	1456	765	224	6.8	<0.010	81.6		160	210	880	<0.02	<0.05	<2.0				<0.5	0.82	
MW-223S	May-94	12.5	740	14	10.5	991	810	52	6.76	<0.010	67.1		171	150	556	0.05	0.04	3				<0.50	1.22	
MW-223S	Aug-94	12.5	768	8.9	13	1378	853	5	6.69	<0.010	53.6		173	39	980	0.09	0.33	2	10	<0.004	0.007	<0.5	2.44	
MW-223S	Nov-94	11	828	9.5	13	943	686	29	6.72	<0.010	67.5		150	80	1032	0.07	0.17	<6.0				<0.5	3.75	
MW-223S	March-95	9.5	795	5	16	665	657	<1	6.69	<0.010	121.1		167	32	1060	1.48	0.29	<2				<0.5	<0.2	
MW-223S	June-95	11.5	808	9.3	20	640	3570	<1	6.57	<0.010	-68.7		169	47	1160	0.33	<0.05	<2				<0.5	<0.2	
MW-223S	Sept - 95	11	718	12.5	15	512	837	10	6.86	<0.010	-77.9		148	47	1120	0.1	<0.05	<2				<0.5	<0.2	
MW-223S	Nov-95	9	732	12.2	16	519	862	<1	6.92	<0.010	-75.3		159	86	1012	<0.02	<0.05	<2	200	<0.004	<0.004	<0.5	0.7	
MW-223S	April-96	10.1	730	3.3	21	1760	440	26	5.8	<0.002	55		120	150	1100	0.051	0.12	4.2	300	<0.01	<0.01	0.92	3	
MW-223S	June-96	11.4	720	22	7.5	1530	800	1.2	6.5	<0.002	57		54	120	930	0.11	<0.02	<4				7.3	<2	
MW-223S	Sept-96	11.8	870	10	<10	1500	680	1	6.5	<0.002	10		390	31	920	0.14	<0.02	<4				0.48	<2	
MW-223S	Nov-96	11.5	710	7.8	15	1310	600	3.2	7.09	<0.002	65		560	7.9	870	0.11	<0.02	<4				1.3	<2	
MW-223S	March-97	9.9	720	13	18	1730	620	2.2	6.1	<0.002	-10		100	337	860	0.096	<0.02	<4	50	<0.01	<0.01	0.58	<2	
MW-223S	June-97	11.7	550	59	23	1430	780	1.8	6.45	<0.002	335		100	260	970	0.032	<0.02	<4				0.46	<2	
MW-223S	Sept-97	11.8	540	59	18	1100	690	3.4	6.8	<0.002	25		89	80	880	0.28	0.031	4				0.95	<2	
MW-223S	Dec-97	10.6	760	27	20	1450	710	2	7.15	<0.002	-20		120	195	770	0.075	<0.02	<4						



TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eb (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr++ (mg/l)	TKN (mg/l)	Bromide (mg/l)	
<i>Class GA Groundwater Quality Standards and Guidance Values</i>																								
					250					6.5-8.5	0.001		250		500	2	10			0.2	0.03		2	
MW-223S	Sep-00	11.5	688	<10	27.9	1451	814	2		6.79	0.0079	-43	140	11	927	<0.1	<0.05	<3				<1	<1	
MW-223S	Dec-00	9.4	659	17.2	24.6	1370	783	3.6	6.8		<0.004	10	120	5.5	891	<0.1	<0.05	<3				2.18	<1	
MW-223S	Mar-01	11.1	631	<10	23.8	1378	718	2.5		7.08	<0.004	-66	120	22	852	<0.1	<0.05	3				2.15	<1	
MW-223S	Jun-01	13.1	630	<10	29.8	1427	747	4.5		6.76	<0.004	-60	160	18	877	<0.1	0.204	<3		<0.01		<1	<1	
MW-223S	Sep-01	12.8	579	<10	25.3	1385	711	2		6.83	0.0053	-46	141	3.33	851	<0.1	<0.1	<3				1.01	<1	
MW-223S	Dec-01	10.9	627	<10	26.7	1353	696	1.6		6.67	0.0059	-44	121	10.24	834	<0.1	<0.1	<3				3.55	<1	
MW-223S	Mar-02	10.2	733	<10	22	1278	713	1.2		6.68	<0.004	-43	97.9	2.81	833	<0.1	<0.1	<3				<1	<1	
MW-223S	Jun-02	12.3	649	<10	22.6	1359	694	2.7		6.76	<0.004	-43	110	13.7	879	<0.1	<0.1	<3				1.54	<1	
MW-223S	Sept-02	11.8	639	<10	21.5	1301	674	93		6.75	<0.004	140.7	97.8	2.2	859	<0.1	<0.1	3	60	<0.005	<0.01	<1	<1	
MW-223S	Dec-02	10	633	<10	23.3	1374	745	1.2		6.81	<0.004	6.7	95.9	9.8	820	<0.1	<0.1	3				1.41	<1	
MW-223S	Apr-04	11.3	622	<10	19.2	631	619	<0.1		11.24	<0.004	131	75.9	71.2	775	<0.10	<0.1	<3	25	<0.005	<0.01	<1	<1	
MW-223S	Jun-05	19	182	<10.0	48	485	295	1.57		8.03	<0.0100	103	76.2	40	272	<1.00	<0.200	<4.00	15	<0.0100	<0.010	<1.00	<1.00	
MW-223S	Sep-06	9.7	510	12	14	194	590	3.8		7.27	<0.010	681	71	55	660	<1.0	<0.25	<4.0	750	<0.010	<0.010	<0.10	0.35	<1.0
MW-223S	Dec-07	9.8	550	28	12	1060	700	3.9		6.73	<0.003	254	79	238	620	<0.03	<0.1	<4.0	75	<0.01	<0.01	0.36	<0.1	
MW-223S	Aug-09	15.4	496	9	7	818	523	2.8		6.99	<0.010	-56	37.6	116	535	0.08	<0.05	<2	2	<0.005	<0.004	0.56	<0.1	
MW-223S	Feb-11	8.7	500	19	4.2	923	488	2.3		6.82	<0.005	-40.1	20	150	516	0.2	<0.05	<4.0	160	<0.01	<0.01	0.54	<0.1	
MW-223S	Apr-12	10.84	380	<5.0	7.7	575	500	1.5		7.46	0.014	-105.6	58	67.3	520	0.052	0.41	<2.0	<5.0	<0.0050	<0.0050	0.55	<0.1	
MW-223S	Jul-13	12.57	420	<5.0	7	848	440	1.8		7.01	<0.005	-75.9	41	52/100	520	0.093	0.21	<2.0	40	<0.005	<0.005	0.31	<0.1	
MW-223D	Sep-87	11.5	690	22.3	11.3	1380	760	2.4	6.6		0.027		220	25	917	0.08	<0.10	20	<5.0		<0.01	0.16	<0.1	
MW-223D	May-88	12.5	680		13	1268	740	4.2	6.83		<0.005		186	54	908	0.13		18	<5.0			<0.20	<0.1	
MW-223D	Aug-88	13	941		17.7	1383	860	9.6	6.89		<0.005		211	7	494	0.18		7	<5.0			0.4	<0.1	
MW-223D	Nov-88	10.3	395		13.9	621	410	2.18	8		0.03		639	5	396	0.13		21	5			0.38	<0.1	
MW-223D	Feb-89	8	676	12.6	36	1458	868	5.3	7.37		<0.005	105	152	58	550	0.14	<0.10	10	<5.0		0.03	0.47	<0.1	
MW-223D	Apr-89	12.5	488		16.5	720	525	19.3	7.66		0.007	-210	143	27	300	0.13		48	10			0.67	<0.1	
MW-223D	Jun-89	12	752		42.9	1313	925	11.4	6.86		0.008		472	96	2020	0.04		16	25			0.27	<0.1	
MW-223D	Nov-89	11.3	257		15.8	667	342	18.2	7.36		0.013	-35.45	133	30	489	0.23		36	<5.0			0.79	<0.1	
MW-223D	Feb-90	11	834	<10	47.2	1563	987	44.1	6.99		<0.005	3.5	133	98	1070	0.08	<0.10	7	10	<0.005	<0.01	<0.5	<0.1	
MW-223D	Apr-90	10.45	669		30.3	830	862	441.4	7.03		<0.005	-8.9	119	19	712	0.04		94	10			0.38	<0.1	
MW-223D	Nov-90	10	830	17	39.1	1000	880	8.6	7		<0.010	229.4	129	225	1072	0.16	<0.1	11	25	<0.004	0.024	<0.5	<0.1	
MW-223D	Feb-91	10	846	<0.5	38.7	1400	980	97	6.7	6.8	<0.010	82.3	157	240	1152	0.17	<0.04					<0.5	<0.1	
MW-223D	May-91	11	758	12.1	29.8	1100	990	4.9	6.8	6.61	<0.010	198.6	146.5	56	1107	0.07	<0.04					<0.5	<0.1	
MW-223D	Aug-91	10	724	7.3	22.9	1760	810	22.9	6.8	7	<0.010	222.7	176	140	1220	<0.03	<0.04					<0.5	<0.1	
MW-223D	Nov-91	11	760	6.7	22	1860	1171	26	6.52	<0.010	121.3	247	65	1144	0.26	<0.04					<0.5	<0.1		
MW-223D	Feb-92	11	800	7.4	25.7	1556	916	3	6.68	<0.010	59.5	173	43	928	0.05	0.05	3.4	<5	<0.010	<0.004	<0.5	<0.1		
MW-223D	May-92	12	682	<1.0	32	1484	803	<1.0	6.57	<0.010	93.3	16.5	34	860	<0.04	0.11						<0.5	<0.1	
MW-223D	Aug-92	13	734	6	25	1338	758	1	6.8	<0.010	49.4	173	87	1164	<0.04	<0.02						<0.5	<0.1	
MW-223D	Dec-92	10	662	6.9	20.5	1680	796	<1.0	6.93	<0.010	52.3	212	86	1080	<0.02	<0.02						<0.5	<0.1	
MW-223D	Feb-93	10	722	<1.0	22.5	1251	662	58	6.86	<0.010	56.8	192	56	1028	<0.02	0.07						<0.5	<0.1	
MW-223D	May-93	12	678	<1.0	21	565	785	12	6.84	<0.010	94.7	127	44	956	<0.02	<0.02	2	<5	0.004	<0.004	<0.5	<0.1		
MW-223D	Aug-93	14	654	1	23	845	643	<1.0	6.73	<0.010	9.6	251	66	932	0.69	<0.02						<0.5	<0.1	
MW-223D	Dec-93	10	616	8.8	21	1201	775	22	6.71	<0.010	94.3	141	71	920	<0.02	<0.05						<0.5	<0.1	
MW-223D	3-4-96	10.5	616	<1.0	20	1296	668	84	6.84	<0.010	60.7	148	50	798	<0.02	<0.05	<2.0					<0.5	1.04	
MW-223D	May-94	11.5	628	15.1	21.5	899	648	42	6.85	<0.010	26.7	135	280	780	<0.02	0.12	2					<0.50	1.1	
MW-223D	Aug-94	13	604	<5.0	21	1114	710	<1	6.78	<0.010	50.8	139	56	788	<0.02	0.22	<2.0	10	<0.004	<0.004	<0.5	2.28		
MW-223D	Nov-94	11.5	719	14.3	21	889	605	25	6.89	<0.010	63.1	155	14	1008	0.03	0.21	<2.0				0.55	3.92		
MW-223D	March-95	11	622	5	22	632	603	36	6.81	<0.010	115.5	144	41	980	0.16	0.23	<2				<0.5	<0.1		
MW-223D	June-95	11.5	674	<5.0	23	614	700	<1	6.72	<0.010	-46.6	132	21	904	0.37	0.09	<2				<0.5	<0.1		
MW-223D	Sept-95	11.5	702	12.5	22	488	756	<1	6.84	<0.010	-50.3	129	15.5	1016	0.08	<0.05	<2				<0.5	<0.1		
MW-223D	Nov-95	9	604	<5.0	20	489	604	<1	6.98	<0.010	-33.5	152	66	884	<0.02	0.08	<2	10	<0.004	<0.004	<0.5	<0.1		
MW-223D	April-96	10	440	10	22	760	720	1.6	6.8	<0.002	130	110	290	660	0.11	0.024	<4	100	<0.01	<0.01	1.1	3.5		
MW-223D	June-96	11.7	340	5.1	10	1110	480	1.6	7	<0.002	100	52	20	550	0.036	0.07	<4				5.6	<2		
MW-223D	Sept-96	11.7	700	5.3	<10	1300	560	1	6.7	<0.002	50	170	28	820	0.052	<0.02	<4				0.66	<2		

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
Class GA Groundwater Quality Standards and Guidance Values					250					6.5-8.5	0.001		250		500	2	10			0.2	0.05		2
MW-223D	Sept-99	12.7	630	19	22	1250	700	2.6		6.96	<0.002	75	100	544	790	<0.03	<0.02	<4				0.33	0.14
MW-223D	Dec-99	11.1	430	20	17	980	550	1.7		8.33	<0.002	85	120	550	650	<0.03	<0.02	<4	30	<0.01	<0.03	0.36	<0.1
MW-223D	Apr-00	9.8	593	<10	24.1	1190	661	2.1		7.3	0.008	-76	98	8.2	788	0.134	<0.05	<3	75	<0.01	<0.01	<1	<1
MW-223D	Jun-00	13.8	618	<10	25	950	696	2.1		7.31	<0.004	-115	110	25.8	826	<0.1	<0.05	<3				<1	<1
MW-223D	Sept-00	11.4	607	<10	25	1325	742	2.2		6.98	<0.004	-22	150	15	842	<0.1	<0.05	<3				<1	<1
MW-223D	Dec-00	9.6	696	17.2	24.8	1345	781	2.6		7.01	<0.004	37	140	9.1	920	<0.1	<0.05	<3				2.18	<1
MW-223D	Mar-01	10.8	655	<10	24.4	1338	727	3.2		7.17	<0.004	-23	140	7.2	812	<0.1	<0.05	<3				2.46	<1
MW-223D	Jun-01	12.8	593	<10	26.2	1303	678	4.4		6.92	<0.004	-33	143	11	813	<0.1	<0.1	<3	70	<0.01		<1	<1
MW-223D	Sept-01	11.9	552	<10	23.7	1295	695	2.1		6.94	<0.004	-50	126	7.63	796	<0.1	<0.1	<3				<1	<1
MW-223D	Dec-01	10.8	606	<10	31.3	1314	713	1.9		6.98	0.012	-3	120	5.75	810	<0.1	<0.1	<3				<1	<1
MW-223D	Mar-02	10	689	<10	23.9	1240	731	1.7		6.79	<0.004	-12	116	4.11	837	<0.1	<0.1	<3				<1	<1
MW-223D	Jun-02	11.6	635	<10	25.3	1262	678	2.3		6.81	<0.004	-27	98.1	5.9	804	<0.1	<0.1	<3				<1	<1
MW-223D	Sept-02	12.3	615	<10	25.4	1245	659	2.3		6.94	<0.004	86.3	96.3	2.5	784	<0.1	0.109	<3	15	<0.005	<0.01	<1	<1
MW-223D	Dec-02	9.9	717	<10	29.4	1230	628	1.5		6.98	<0.004	6.4	104	7.2	772	<0.1	<0.1	<3				<1	<1
MW-223D	Apr-04	11.4	490	<10	22.7	998	516	2.4		8.21	<0.004	118	94.5	20.9	696	<0.10	<0.1	<3	<5	<0.005	<0.01	<1	<1
MW-223D	Jun-05	17.5	38.2	35.3	<5.0	718	109	11.9		7.6	<0.0100	84	68.6	14	136	<1.00	1.32	6.72	15	<0.0100	<0.010	<1.00	<1.00
MW-223D	Sept-06	11.9	490	10	15	186	600	3.7		7.58	<0.010	495	95	15	660	<1.0	<0.25	<4.0	300	<0.010	<0.010	0.18	<1.0
MW-223D	Dec-07	10.2	530	12	18	1060	610	2.9		6.85	<0.003	310	100	3	640	<0.03	<0.1	<4.0	25	<0.01	<0.01	0.3	<0.1
MW-223D	Aug-09	15.9	108	4	8	366	141	1.7		6.61	<0.010	-102	49	7.7	161	0.36	0.07	<2	2	<0.005	<0.004	0.58	<0.1
MW-223D	Feb-11	8.26	520	<10	11	660	561	1.4		6.84	<0.005	-10	61	42	580	0.08	<0.05	<4.0	40	<0.01	<0.01	0.35	
MW-223D	Apr-12	10.61	390	<5.0	15	696	460	1.6		7.43	<0.0073	-135.2	95	8.88	560	<0.0092	<0.011	<2.0	<5.0	<0.0050	<0.0050	0.4	
MW-223D	Jul-13	11.9	460	5.2	12	953	500	2		6.8	<0.005	-49.7	74	61.693	580	0.047	0.037	<2.0	10	<0.005	<0.005	0.18	
MW-303D	Nov-94	11.5	206	21.7	230	1073	214	8		9.58	<0.010	-29.5	156	12	772	0.48	0.36	<2.0				1.3	4.5
MW-303D	March-95	11	174	5	250	789	157	2		7.63	<0.010	50	144	5.2	748	0.5	0.07	<2				0.2	2.5
MW-303D	June-95	12	166	9.3	215	789	146	3		7.56	<0.010	-137.5	130	14	732	0.2	0.26	<2				<0.5	2.3
MW-303D	Sept-95	12	196	20.8	195	656	165	24		7.05	<0.010	-117.3	130	12	788	0.37	<0.05	<2				<0.5	2.1
MW-303D	Nov-95	10	128	8.2	212	612	164	<1		7.11	<0.010	-70.2	135	19	740	0.1	<0.05	<2	5	<0.004	<0.004	<0.5	2.1
MW-303D	April-96	10.6	190	1	11	1410	180	1.2		7	<0.002	55	130	360	700	0.086	0.021	<4	30	<0.01	<0.01	1.3	2.7
MW-303D	June-96	12	190	14	200	1350	250	<1		7.6	<0.002	84	120	33	730	0.1	<0.02	<4	84			7.4	2.1
MW-303D	Sept-96	11.7	370	15	190	1400	160	<1		7.7	<0.002	30	130	15	760	0.11	<0.02	<4				0.74	<2
MW-303D	Nov-96	11.3	200	<1	210	1320	160	1.6		7.9	<0.002	-45	160	14	720	0.21	<0.02	<4				0.74	<2
MW-303D	March-97	9.5	220	11	27	1450	170	1.3		6.6	<0.002	180	74	30	740	0.078	0.057	<4	10	<0.01	<0.01	7	2.1
MW-303D	June-97	12.5	240	<2	220	1290	150	1.4		7.96	<0.002	555	120	<1	750	<0.03	0.03	<4				0.95	2.1
MW-303D	Sept-97	14	260	28	190	1200	170	2		7.1	<0.002	195	120	19	4800	0.28	0.11	<4				0.74	<2
MW-303D	Dec-97	11.3	310	7	190	1320	170	1.5		7.63	<0.002	-60	120	80	690	0.5	0.02	<4				0.61	<2
MW-303D	Mar-98	10.7	260	1	210	1280	190	1.1		7.84	<0.002	-20	120	435	770	0.22	0.029	<4				0.6	3.6
MW-303D	June-98	16	240	<3	230	1180	180	1.3		6.72	<0.002	<-100	120	45	650	0.2	0.054	18	6	<0.01	<0.01	0.76	<1
MW-303D	Sept-98	12.7	240	8.8	220	1220	210	1.8		7.09	<0.002	-65	110	106	750	0.21	<0.02	<4				0.84	<1
MW-303D	Dec-98	11.1	220	<1	240	1150	230	1.6		6.95	<0.002	-60	140	119	670	0.25	0.064	<4				0.64	<1
MW-303D	Apr-99	10.4	210	<1	200	1320	180	1.4		7.92	<0.002	20	110	82	730	0.19	0.031	<4				0.74	2.2
MW-303D	Jun-99	11.8	220	4.1	190	1240	260	1.2		7.6	0.0023	10	110	212	710	0.35	0.042	<4				0.9	1.9
MW-303D	Sept-99	14.4	280	11	140	1170	270	1.8		7.2	<0.002	245	98	206	680	0.47	0.028	<4				1	1.5
MW-303D	Dec-99	10.9	260	6.7	150	1180	250	1.6		8.68	<0.002	40	110	247	660	0.43	0.23	<4	3	<0.01	<0.03	0.87	1.6
MW-303D	Apr-00	10.2	257	<10	174	1160	205	1.6		7.66	<0.004	-102	97	5.9	670	0.679	<0.05	3	20	<0.01	<0.01	1.64	2.09
MW-303D	Jun-00	14.5	246	<10	180	910	198	1.5		7.68	<0.004	-113	92	18.8	682	0.552	0.058	4				2.3	<1
MW-303D	Sept-00	11.8	243	<10	180	1226	207	1.5		8.03	<0.004	-83	110	10	676	0.578	<0.05	3				<1	1.17
MW-303D	Dec-00	9.9	257	<10	152	1187	221	1.9		7.54	0.0063	-20	110	13	651	0.625	0.121	<3				1	<1
MW-303D	Mar-01	10.5	267	<10	168	1164	187	1.3		7.48	<0.004	-121	110	3.5	659	0.607	0.134	4				<1	1.29
MW-303D	Jun-01	13.5	308	<10	188	1211	177	3.3		7.96	<0.004	-117	113	8	670	0.534	<0.1	<3	20	<0.01		1.35	1.7
MW-303D	Sept-01	15.6	368	<10	182	1225	204	1.4		7.82	<0.004	-123	100	2.55	677	0.737	<0.1	<3				1.68	1.53
MW-303D	Dec-01	10.5	253	<10	148	1157	189	1.6		7.95	<0.004	-107	95.8	6.51	635	0.814	<0.1	<3				<1	1.4
MW-303D	Mar-02	10.6	254	<10	155	1064	195	1.1		7.75	<0.004	-87	103	5.41	628	0.385	0.519	<3				<1	1.34
MW-303D	Jun-02	13.5	250	<10	154	1077	193	2		8.09	<0.004	-54	103	5.9	872	0.434	0.239	<3				<1	1.65
MW-303D	Sept-02	12.2	283	<10	151	1023	199	1		7	<0.004	-90.6	91.9	27.9	609	0.985	<0.1	<3	20	<0.005	<0.01	<1	1.59
MW-303D	Dec-02	10.7	287	<10	164	1102	215	1.1		7.71	<0.004	-61	103	5.7	676	1.15	<0.1	<3				1.14	1.57
MW-303D	Apr-04	12.4	220	<10	45.6	1205	191	1.7		7.59	<0.004	-26	102	9.7	721	0.94	<0.1	<3	20	<0.005	<0.01	<1	1.76
MW-303D	Jun-05	16.2	214	20.5	180	684	197	1.74		8.01	<0.0100	109	127	18	720	<1.00	0.37	<4.00	15	<0.0100	<0.010	<1.00	2.65
MW-303D	Sept-06	22.3	200	12	180	258	180	1.8		7.79	<0.010	737	110	0	660	<1.0	0.44	<4.0	30	<0.010	<0.010	0.41	1.7
MW-303D	Dec-07	10.3	280	10	150	1150	240	1.8		7.32	0.0042	223	130										

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
Class GA Groundwater Quality Standards and Guidance Values					250					6.5-8.5	0.001		250		500	2	10			0.2	0.05		2
MW-303S	Nov-94	13.5	743	39.1	45	907	1030	30		6.58	0.02	74.1	118	460	936	2.59	0.31	<2.0				2.05	2.85
MW-303S	March-95	10.5	682	20	37	664	874	<1		6.5	<0.010	125	120	265	892	1.04	0.2	<2				1.17	0.3
MW-303S	June-95	11.5	590	60.5	55	625	647	<1		6.44	<0.010	-63.3	148	465	900	2.09	0.14	<2				3.3	0.2
MW-303S	Sept -95	13.5	869	29.2	56	530	684	40		6.63	<0.010	-60.4	119	2600	952	4.47	<0.05	4				3.15	0.5
MW-303S	Nov-95	11	684	32.6	33	493	632	<1		6.52	<0.010	-39.3	130	300	900	0.97	<0.05	8	15	<0.004	<0.004	1.26	<0.2
MW-303S	April-96	8.7	690	30	38	1770	920	4.2		6.5	<0.002	90	130	>900	900	0.81	0.03	23	500	<0.01	<0.01	1.6	2.2
MW-303S	June-96	11.4	650	43	5	1440	680	2.6		6.3	<0.002	36	120	>900	880	2	<0.02	10				9.7	<2
MW-303S	Sept-96	13.1	1000	7.8	13	1600	730	21		6.5	<0.002	-15	130	24	900	2.2	<0.02	8.5				6.7	<2
MW-303S	Nov-96	11.6	650	58	23	1470	660	4.3		6.45	<0.002	5	62	280	810	7.6	<0.02	11				9	<2
MW-303S	March-97	9	710	17	27	1650	660	3.8		6.8	<0.002	40	96	>999	790	5.7	<0.02	16	25	<0.01	<0.01	8.9	<2
MW-303S	June-97	12	280	57	28	1400	870	3.9		6.51	<0.002	150	87	>999	860	4.6	<0.02	<4				7.6	<2
MW-303S	Sept-97	14	700	21	32	1300	820	4.7		6.3	0.0044	70	76	1200	810	12	0.026	9.8				10	<2
MW-303S	Dec-97	11	1200	47	27	1460	950	4.9		6.52	<0.002	-35	96	>999	820	11	<0.02	13				13	<2
MW-303S	Mar-98	10.2	860	15	22	1370	840	4.2		7.05	<0.002	85	100	>999	820	5.9	<0.02	9.8				8	3.6
MW-303S	June-98	15.8	640	<3	12	1120	650	3.9		6.14	<0.002	-75	51	819	610	5.7	0.024	11	50	<0.01	<0.01	8.3	<1
MW-303S	Sept-98	13.2	730	30	16	1260	980	4.8		6.26	<0.002	35	45	>999	780	7.1	<0.02	8.9				8	<1
MW-303S	Dec-98	9.6	620	160	20	1240	1400	4.9		6.8	<0.002	-45	27	942	710	8.1	<0.02	7.8				7.5	<1
MW-303S	Apr-99	10.5	630	13	30	1380	920	4.1		7.48	<0.002	-75	81	>999	780	5.4	<0.02	20				5.8	<0.1
MW-303S	Jun-99	12.6	620	23	28	1280	1100	4.1		7.02	0.0021	-35	67	>999	740	6.6	<0.02					8.1	<0.1
MW-303S	Sept-99	14.6	660	20	24	1320	1200	4.2		6.19	<0.002	65	98	>999	830	6.8	<0.02	15				8.9	0.21
MW-303S	Dec-99	12	1000	25	26	1410	1100	3.8		8.02	<0.002	45	94	>999	760	7.4	<0.02	12	20	<0.01	<0.01	9	0.23
MW-303S	Apr-00	9.7	636	<10	19.2	1240	653	3.2		6.81	<0.002	-29	89	60	773	4.36	<0.05	4	750	<0.01	<0.01	5.46	<1
MW-303S	Jun-00	14.7	566	13.5	22	875	611	3.6		6.93	0.006	-84	30	121	650	4.31	<0.05	6				4.55	<1
MW-303S	Sept-00	13.2	586	17.5	16.7	1136	543	3.6		6.77	<0.004	-43	12	29	616	3.9	<0.05	<3				3.96	<1
MW-303S	Dec-00	10.4	637	<10	18.4	1206	625	<1		7	0.0042	-12	23	3.8	659	4.69	<0.05	<3				4.69	<1
MW-303S	Mar-01	9.7	640	<10	19.9	1221	585	4.2		6.9	<0.004	-40	48	6.7	635	4.23	<0.05	5				3.68	<1
MW-303S	Jun-01	14.5	594	10.6	23	1226	559	5.9		6.65	<0.004	-74	25.5	5.5	640	4.39	<0.1	4	175	<0.01		5.04	<1
MW-303S	Sept-01	14.3	576	<10	21.7	1142	528	3		6.89	0.131	-188	15.9	90.3	621	3.72	<0.1	6				4.71	<1
MW-303S	Dec-01	12.1	589	12.6	22.1	1245	587	2.8		6.91	<0.004	-82	22	24.9	686	4.46	<0.1	<3				4.11	<1
MW-303S	Mar-02	10.9	746	<10	23.8	1185	597	3.1		6.79	<0.004	-48	41.2	8.62	702	4.99	<0.1	<3				3.32	<1
MW-303S	Jun-02	12.6	607	<10	23.8	1226	587	4		7.04	<0.004	-71	32.5	5.7	712	5.14	<0.1	4				5.18	<0.1
MW-303S	Sept-02	14	582	<10	21.6	1023	580	3.3		7	0.014	-86.3	21.3	4.85	710	4.86	<0.1	4	100	<0.005	0.012	4.74	<1
MW-303S	Dec-02	11.8	584	10.2	19.7	1157	564	3.3		6.76	<0.004	-82	11.9	10	588	3.52	<0.1	6				4.13	<1
MW-303S	Apr-04	10.4	483	11	10.2	927	446	3.9		7.24	<0.004	104	<5.0	2.2	533	1.75	<0.1	5	<5	<0.005	<0.01	3.4	<1
MW-303S	Jun-05	17.4	476	35.3	7.7	904	447	4.42		7.55	<0.0100	82	<5.00	31	516	<1.00	0.68	14.2	40	<0.0100	<0.010	1.32	<1.00
MW-303S	Sept-06	16	430	17	10	237	430	5.3		6.94	<0.010	534	<5.0	3.7	500	1.4	<0.25	17	750	<0.010	<0.010	1.7	<1.0
MW-303S	Dec-07	11.1	520	18	15	854	560	4.8		6.45	<0.003	95	17	24	540	0.44	<0.1	6.9	100	<0.01	<0.01	1.2	<0.1
MW-303S	Aug-09	15.71	428	4	40	756	399	3.8		7.32	<0.010	-108	<5	117	494	0.86	0.08	6	5	<0.005	<0.004	1.85	<0.1
MW-303S	Feb-11	8.65	420	22	20	896	468	3.1		7.75	<0.005	-62.3	40	220	480	0.96	1.7	<4.0	180	<0.01	<0.02	1.7	
MW-303S	Apr-12	10.18	340	14	10	804	440	3		6.69	<0.0050	-113.8	6.3	20	430	0.58	0.27	<2.0	<5.0	<0.0050	<0.0050	1.1	
MW-303S	Jul-13	12.7	380	<5.0	19	755	380	3.4		7.02	<0.005	-35.8	1.4	111/70	430	0.44	0.086	2.5	15	<0.005	<0.005	1	
MW-304D	Nov-94	11.5	598	8.7	70	835	379	22		6.89	0.013	54.3	61.7	26	804	1.38	0.18	<2.0				1.02	3.6
MW-304D	March-95	11	569	10	66	512	722	5		6.88	<0.010	99.6	58.8	33	752	2.41	0.22	<2				1.17	0.8
MW-304D	June-95	13	537	14	50	574	528	<1		6.79	<0.010	-74.2	63.4	62	844	1.73	0.24	<2				1.68	1.1
MW-304D	Sept -95	12	552	12.5	66	495	568	17		6.85	<0.010	-87.8	58.4	45	816	2.13	<0.05	<2				1.28	0.8
MW-304D	Nov-95	10.5	572	8.2	64	512	581	<1		6.81	<0.010	-54.5	51.6	64	760	1.15	<0.05	<2	25	<0.004	<0.004	1.21	0.4
MW-304D	April-96	10	570	7.8	69	1380	770	2.9		7.1	<0.002	55	65	72	730	1.1	0.022	<4	100	<0.01	<0.01	2.2	1.9
MW-304D	June-96	11.7	540	26	52	1260	570	2.1		6.8	0.0038	34	52	61	730	1.7	<0.02	<4				3.4	<2
MW-304D	Sept-96	12.2	530	2.8	50	1200	430	2.3		6.7	<0.002	400	67	29	740	1.1	<0.02	<4				2.2	<2
MW-304D	Nov-96	10.1	250	<1	68	691	320	2.3		7.46	<0.002	25	100	22	500	0.61	<0.02	<4				1.2	<2
MW-304D	March-97	8.9	590	19	58	1320	460	4		7	<0.002	10	66	127	690	0.85	<0.02	<4	15	<0.01	<0.01	1.8	<2
MW-304D	June-97	12.7	670	<1	50	1160	490	3.2		6.88	<0.002	125	74	<1	710	1.3	<0.02	<4				2.2	<2
MW-304D	Sept-97	12.8	590	<1	56	1100	460	3.4		7.2	0.0022	25	47	47	750	1.2	0.24	<4				0.71	<2
MW-304D	Dec-97	10.9	530	<1	52	1110	480	3.1		7.21	<0.002	-5	63	48	700	1.2	<0.02	<4				1.4	<2
MW-304D	Mar-98	11	490	2.2	58	1040	430	2.7		7.41	<0.002	55	61	113	650	1.2	<0.02	<4				1.9	<2
MW-304D	June-98	15.4	540	3.6	47	1070	460	3.4		6.5	<0.002	-85	51	40	670	0.91	0.039	<4	35	<0.01	<0.01	2.2	<1
MW-304D	Sept-98	11.9	370	16	53	853	430	2.8		6.95	<0.002	230	45	110	550	0.61	<0.02	<4				1.2	<1
MW-304D	Dec-98	11.1	190	<1	89	620	290	1.3		7.18	<0.002	110	66	122	360	0.092	0.06	4.2				0.38	<1
MW-304D	Apr-99	11.3	410	<1	62	1100	380	3		7.03	<0.002	-95	55	149	620	1.5	<0.02	<4				1.6	0.54
MW-304D	Jun-99	11.9	470	7.6	54	1070	580	2.7		7.02	0.0021	-5	52	133	620	1.3	<0.02	<4					

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
Class GA Groundwater Quality Standards and Guidance Values					250					6.5-8.5	0.001		250		500	2	10			0.2	0.03		2
MW-304D	Jun-00	13.8	358	<10	53.6	725	308	2.5	7.29	<0.004	-97	34	28.2	567	1.33	0.745	<3					1.64	<1
MW-304D	Sep-00	11.2	402	<10	50.3	904	365	1.6	7.07	<0.004	-71	34	12	473	1.04	<0.05	<3					<1	<1
MW-304D	Dec-00	10.1	233	<10	48.9	697	241	1.2	7.62	0.0077	-29	43	5.9	609	0.331	<0.05	<3					1.17	<1
MW-304D	Mar-01	11.1	510	<10	47	1155	491	3.8	7.07	0.0043	-56	33	3.8	618	2.1	<0.05	<3					1.07	<1
MW-304D	Jun-01	12.3	257	<10	50.3	1019	419	5.7	7	<0.004	-63	45	19	559	1.88	<0.1	<3	100	<0.01			2.69	<1
MW-304D	Sep-01	12.9	233	<10	57.2	756	341	1.5	7.41	<0.004	-86	51.5	23.3	444	0.701	<0.1	<3					1.01	<1
MW-304D	Dec-01	11.1	178	<10	65.3	714	257	<1	7.16	<0.004	-100	57	5.3	385	0.296	<0.1	<3					<1	<1
MW-304D	Mar-02	9.7	196	<10	65.5	556	243	<1	7.31	<0.004	-71	60	7.7	383	0.329	<0.1	<3					<1	<1
MW-304D	Jun-02	12.7	242	<10	61.5	723	316	1.9	7.31	<0.004	-72	59.9	10.7	406	0.897	<0.1	<3					1.14	<1
MW-304D	Sept-02	12.2	169	<10	58.6	648	225	1.6	7.56	<0.004	88.6	52	3.19	400	0.384	<0.1	<3	30	<0.005	<0.01		<1	<1
MW-304D	Dec-02	10	212	<10	69.6	9.5	224	1.1	7.76	0.004	-47	63.5	26.12	372	0.166	<0.1	<3					<1	<1
MW-304D	Apr-04	12.1	162	<10	55.2	613	202	1.2	7.64	<0.004	41	55.1	3.7	383	0.171	<0.1	<3	<5	<0.005	<0.01	<1	<1	<1
MW-304D	Jun-05	19.8	149	<10.0	58	570	216	1.31	8.47	<0.0100	135	61.6	9	432	1.68	<0.200	<4.00	20	<0.0100	<0.010	<1.00	<2.00	<1.00
MW-304D	Sep-06	13	210	12	52	279	340	3.3	7.73	<0.010	-481	170	0.24	580	3.3	<0.25	<4.0	30	<0.010	<0.010	1.9	<1.0	<1.0
MW-304D	Dec-07	9.2	380	120	43	970	460	3	6.68	<0.003	110	15	195	460	1.1	<0.1	<4.0	100	<0.01	<0.01	1.6	<0.1	<0.1
MW-304D	Aug-09	14.3	380	62	45	724	383	2.6	6.98	<0.010	-88	31.6	42.5	474	1.42	<0.05	<4	15	<0.005	<0.004	1.54	<0.1	<0.1
MW-304D	Feb-11	9.62	374	<10	40	779	461	2.6	6.94	0.019	-35.8	28	42	440	2	<0.05	<4.0	120	<0.01	<0.01	2.5	<0.1	<0.1
MW-304D	Apr-12	14.35	340	14	10	669	440	3	7.09	<0.0050	-61.3	6.3	29.5	430	0.58	0.27	<2.0	<5.0	<0.0050	<0.0050	1.1	<0.1	<0.1
MW-304D	Jul-13	12.6	300	17	32	849	390	6.6	6.97	<0.005	-45.6	19	10.39/87	500	1.4	0.24	2.6	20	<0.005	0.054	2.6	<0.1	<0.1
MW-304S	Nov-94	12	852	30.4	29	893	494	33	6.75	0.013	69.1	77	660	884	0.49	0.37	<2.0				1.53	4.9	<0.2
MW-304S	March-95	10.5	824	20	25	657	966	3	6.73	<0.010	101.7	82.5	530	904	0.33	0.34	<2				0.56	<0.2	<0.2
MW-304S	June-95	12.5	606	18.6	450	585	718	<1	6.57	<0.010	-77.7	89.4	380	844	0.37	0.25	<2				0.69	<0.2	<0.2
MW-304S	Sept-95	11.5	806	45.8	30	497	846	<1	6.84	<0.010	-80.1	89.4	1500	920	0.4	0.06	<2				1.09	0.5	<0.5
MW-304S	Nov-95	10	772	12.2	28	516	669	<1	6.85	<0.010	-41.7	87.3	550	916	0.1	0.08	<2	15	<0.004	<0.004	<0.5	0.3	<0.3
MW-304S	April-96	10.1	800	75	30	1500	550	3.7	6.8	<0.002	45	83	220	870	0.24	<0.02	<4	300	<0.01	<0.01	3.1	3	<3
MW-304S	June-96	11.6	700	16	14	1480	890	2.8	6.7	0.0041	70	52	>900	900	0.14	<0.02	<4				5.1	<5	<5
MW-304S	Sept-96	12.1	590	130	28	1400	730	2.8	6.5	<0.002	402	45	24	860	0.31	<0.02	<4				0.83	<0.8	<0.8
MW-304S	Nov-96	10.4	710	60	23	1440	900	5.3	6.74	<0.002	-10	560	220	840	0.25	<0.02	<4				0.77	<0.7	<0.7
MW-304S	March-97	10	750	21	45	1450	730	7	6.7	<0.002	-5	90	171	860	0.086	<0.02	<4	15	<0.01	<0.01	0.39	<0.3	<0.3
MW-304S	June-97	12.5	770	<1	29	1340	1100	4	6.6	<0.002	45	130	>999	840	0.12	<0.02	<4				1.1	<1	<1
MW-304S	Sept-97	12.8	780	40	25	1200	990	4	6.9	<0.002	25	45	140	1700	0.29	<0.02	<4				0.78	<0.7	<0.7
MW-304S	Dec-97	11.5	740	<1	24	1340	920	5.3	6.95	<0.002	-30	71	>999	870	0.24	<0.02	5				0.56	<0.5	<0.5
MW-304S	Mar-98	10.3	750	19	26	1300	910	3.8	7.2	<0.002	110	52	>999	800	0.26	<0.02	<4				0.91	<0.9	<0.9
MW-304S	June-98	14.8	830	14	20	1600	770	3.8	6.38	<0.002	-75	40	>999	790	0.23	<0.02	<4	40	<0.01	<0.01	0.68	<0.6	<0.6
MW-304S	Sept-98	12.3	730	130	20	1240	1480	4.7	6.43	<0.002	-65	28	>999	830	0.26	<0.02	<4				0.61	<0.6	<0.6
MW-304S	Dec-98	10.9	650	110	13	1210	1300	4.2	6.46	<0.002	-50	20	>999	730	0.21	<0.02	4.2				0.51	<0.5	<0.5
MW-304S	Apr-99	11.7	590	34	26	1340	1300	4.6	7.27	<0.002	-80	37	>999	770	0.39	<0.02	<4				0.95	<0.9	<0.9
MW-304S	Jun-99	11.5	680	31	24	1270	1300	3.9	6.74	0.002	-10	29	>999	750	0.33	<0.02	<4				0.99	<0.9	<0.9
MW-304S	Sept-99	12.7	720	34	25	1220	1200	4	6.51	<0.002	15	29	>999	770	0.27	<0.02	<4				0.94	0.22	0.22
MW-304S	Dec-99	10.9	780	29	25	1260	1300	4	8.17	<0.002	75	24	>999	750	0.28	<0.02	<4	25	<0.01	<0.01	0.96	0.17	0.17
MW-304S	Apr-00	10.6	688	12.5	27.6	1210	830	3.7	6.94	<0.004	-81	26	19	750	0.583	<0.05	<3	1500	<0.01	<0.01	<1	<1	<1
MW-304S	Jun-00	13.8	668	<10	25.8	925	675	3	7.12	<0.004	-97	14	13.3	730	0.51	<0.05	<3				<1	<1	<1
MW-304S	Sept-00	10.7	659	<10	25	1258	713	3.9	6.93	0.0062	-51	9	190	729	0.492	<0.05	<3				1.63	<1.6	<1.6
MW-304S	Dec-00	10.6	671	<10	24.6	1215	653	<1	7	<0.004	-10	11	35	697	0.639	<0.05	<3				<1	<1	<1
MW-304S	Mar-01	11.3	528	<10	24.5	1225	583	4.4	7.02	<0.004	-45	11	12	659	0.595	<0.05	<3				<1	<1	<1
MW-304S	Jun-01	12.4	650	11.2	26.6	1229	621	5.8	6.78	<0.004	-78	5.21	27	691	0.479	<0.1	<3	125	<0.01		<1	<1	<1
MW-304S	Sept-01	12.9	519	<10	25.9	1227	624	2.9	6.87	<0.004	-75	5.33	24.1	698	0.656	<0.1	<3				1.35	<1.3	<1.3
MW-304S	Dec-01	11.4	640	<10	27.4	1205	641	2.8	6.93	<0.004	-60	<5	15	691	0.473	<0.1	<3				<1	<1	<1
MW-304S	Mar-02	10.4	746	<10	65.1	1006	629	3.1	6.8	<0.004	-12	59.5	0.8	712	0.528	<0.1	<3				<1	<1	<1
MW-304S	Jun-02	12.7	674	<10	26.6	1204	591	4.2	7.01	<0.004	-48	8.33	2.4	689	0.58	<0.1	<3				<1	<1	<1
MW-304S	Sept-02	12.1	654	<10	27.4	1173	594	2.6	6.91	<0.004	-62.4	<5	0.97	701	0.589	<0.1	<3	60	<0.005	<0.01	<1	<1	<1
MW-304S	Dec-02	6.9	630	<10	31	1198	608	3	6.87	<0.004	-48	5.91	10	719	0.701	<0.1	<3				1.21	<1	<1
MW-304S	Apr-04	12.2	549	<10	26.1	1116	503	3.6	7.25	<0.004	38	<5.0	2	660	0.734	<0.1	<3	25	<0.005	<0.01	1	<1	<1
MW-304S	Jun-05	17.4	536	26.4	28	851	569	7.04	7.35	<0.0100	173	9.48	30	618	<1.00	0.6	<4.00	300	<0.0100	<0.010	<1.00	<1.00	<1.00
MW-304S	Sep-06	17.9	490	15	18	218	500	4.6	7.41	<0.010	624	12	11	560	<1.0	0.42	6	750	<0.010	<0.010	1.3	<1.0	<1.0
MW-304S	Dec-07	10.5	530	22	18	950	540	5.1	6.66	<0.003	80	<1	244	510	0.25	<0.1	4.1	200	<0.01	<0.01	0.86	<0.8	<0.8
MW-304S	Aug-09	14.44	432	62	54	766	481	3.9	7.25	<0.010	-95	5.01	348.2	548	0.45	<0.05	5	25	<0.005	<0.004	1.48	<0.1	<0.1
MW-304S	Feb-11																						

TABLE 11 - HISTORICAL ANALYTICAL DATA - WATER QUALITY PARAMETERS (EXISTING LANDFILL)

Monitoring Well	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cund (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Bromide (mg/l)
<i>Class GA Groundwater Quality Standards and Guidance Values</i>					250					6.5-8.5	0.001		250		500	7	10			0.2	0.05		2
MW-304VS	Sept -95	17.5	567	33.3	465	822	719	<1		6.57	<0.010	62.2	65.4	1300	1420	0.21	0.07	<2				0.69	1.3
MW-304VS	Nov-95	8.5	568	32.6	355	721	545	<1		6.79	<0.010	113.5	72	770	1160	0.03	<0.05	<2	10	<0.004	<0.004	<0.5	<0.2
MW-304VS	April-96	5.1	590	120	11	1720	600	6.4		7.4	<0.002	135	61	>900	930	0.17	0.022	5.4	750	<0.01	<0.01	2.6	3.1
MW-304VS	June-96	14.7	440	150	220	1580	500	5		7	0.0058	170	79	>900	880	0.094	<0.02	4			6.9	<2	
MW-304VS	Sept-96	16.8	550	100	180	2200	670	4.8		6.8	<0.002	388	<200	24	920	0.18	<0.02	<4			0.72	<2	
MW-304VS	Nov-96	9.6	480	63	190	1780	630	5.8		6.97	<0.002	165	11	290	870	0.12	<0.02	<4			1.7	<2	
MW-304VS	March-97	4.7	400	55	680	2780	670	3.9		7.1	<0.002	70	61	50	1700	0.14	<0.02	<4	10	<0.01	<0.01	0.71	<2
MW-304VS	June-97	14.8	480	<1	830	3390	1400	4.6		6.77	0.0031	190	120	>999	2800	0.076	0.27	4			1.4	<2	
MW-304VS	Sept-97	16.5	740	21	480	2500	1200	5.2		7	<0.002	200	41	840	720	0.19	0.098	<4			0.83	<2	
MW-304VS	Dec-97	9.1	450	<1	280	2230	1100	5.9		7.05	<0.002	25	42	>999	1280	0.13	<0.02	4			1	<2	
MW-304VS	Mar-98	5.2	490	13	340	1920	670	4.7		7.75	<0.002	345	45	134	1000	0.11	0.025	<4			1.4	<2	
MW-304VS	June-98	16.8	550	17	250	1490	580	4.9		6.65	<0.002	-15	28	>999	860	0.2	0.052	<4	12	<0.01	<0.01	1	<1
MW-304VS	Sept-98	Location Not Sampled																					
MW-304VS	Dec-98	10.2	430	93	270	1300	840	5		7.01	<0.002	25	23	>999	800	0.049	0.1	<4			0.63	<1	
MW-304VS	Apr-99	8	410	9.1	140	1340	540	4.5		6.87	<0.002	180	45	933	740	0.032	<0.02	<4			0.58	<0.1	
MW-304VS	Jun-99	13.1	460	18	110	1220	680	4.7		7.33	<0.002	140	43	390	660	0.22	0.03	<4			1.3	<0.1	
MW-304VS	Sept-99	17.7	440	15	250	1350	530	4.7		6.39	<0.002	5.45	42	>999	940	0.22	0.048	<4			0.78	<0.1	
MW-304VS	Dec-99	9.1	400	19	180	1390	760	4.2		8.75	<0.002	340	39	>999	860	0.076	0.036	<4	1	<0.01	<0.05	0.99	<0.1
MW-304VS	Apr-00	7.8	365	70.8	748	275	890	4.9		7.03	<0.004	-33	64	15	1820	0.344	0.057	6	750	<0.01	<0.01	1.1	<1
MW-304VS	Jun-00	16.7	326	<10	753	2300	962	4		7.3	<0.004	-68	43	13.4	2110	0.403	<0.05	<3			<1	<1	
MW-304VS	Sept-00	15.6	383	30.1	560	2450	630	9.1		7.03	<0.004	28	45	19	1400	0.347	<0.05	3			2.26	<1	
MW-304VS	Dec-00	6	376	<10	82.8	2050	535	8.2		7.52	<0.004	71	61	3.7	1120	0.3	<0.05	<3			<1	<1	
MW-304VS	Mar-01	5.1	361	10.1	489	1888	427	4.8		7.27	0.0087	-30	54	4.6	1200	0.25	<0.05	4			<1	<1	
MW-304VS	Jun-01	15.7	378	12.9	473	2120	510	7		7.22	<0.004	52	37.5	7.7	1110	0.265	<0.1	6	125	<0.01		1.68	<1
MW-304VS	Sept-01	18.5	313	<10	285	1980	699	3.9		7.14	<0.004	41	35	4.85	1050	0.496	<0.1	<3			2.69	<1	
MW-304VS	Dec-01	10.5	386	<10	390	1809	518	3.6		7.47	<0.004	-20	35	9.63	1040	0.16	<0.1	<3			<1	<1	
MW-304VS	Mar-02	5.2	413	<10	342	1434	465	4.6		7.32	<0.004	75	30.1	550	1000	0.283	<0.1	<3			<1	<1	
MW-304VS	Jun-02	15.2	412	<10	259	1721	328	5.1		7.45	<0.004	16	28.9	5.9	635	0.323	<0.1	<3			<1	<1	
MW-304VS	Sept-02	18.3	403	<10	356	1421	371	4.1		7.46	<0.004	-110.7	29.9	6.65	946	0.155	<0.1	<3	10	<0.005	<0.01	<1	<1
MW-304VS	Dec-02	7.8	386	<10	311	1427	467	3.8		7.5	<0.004	18	25.7	550	891	0.267	<0.1	<3			<1	<1	
MW-304VS	Apr-04	11	371	12	150	1065	239	3.7		8.34	<0.004	130	23.8	163	655	0.281	<0.1	4	<5	<0.005	<0.01	<1	<1
MW-304VS	Jun-05	Sampling Location Dry																					
MW-304VS	Sept-06	20	320	59	30	254	500	5.3		7.43	<0.010	855	84	500	920	<1.0	<0.25	<4.0	1000	<0.010	0.016	1.6	<1.0
MW-304VS	Dec-07	6.5	420	25	630	2410	620	5.9		6.69	<0.003	285	14	8	1400	<0.03	<0.1	<4.0	300	<0.01	<0.01	0.74	<0.1
MW-304VS	Aug-09	15.31	396	62	838	805	668	3.8		6.91	<0.010	-102	34.3	733	2054	0.22	<0.05	<24	10	<0.005	<0.004	2.07	<0.1
MW-304VS	Feb-11	3.4	396	58	940	3622	620	4.1		11.05	<0.005	11.4	24	395	1900	0.24	<0.05	<4.0	400	<0.01	<0.01	0.9	<0.1
MW-304VS	Apr-12	11.33	310	27	390	2042	290	4.1		7.15	0.017	-47	18	1333	1100	<0.0090	0.5	2	5	<0.0050	<0.0050	1.4	<0.1
MW-304VS	Jul-13	17.02	360	14	280	1884	370	4.8		7.07	<0.005	-44.9	9.8	209/180	910	0.098	0.06	2.6	60	<0.005	<0.005	3.5	<0.1





TABLE 12 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Vg (mg/l)	Na (mg/l)	TI (mg/l)	V (mg/l)	Zn (mg/l)
Class G.A. (GW Qual. Stds. & Guid. Val.)			0.003	0.05	1	0.003	1	0.005		0.03	0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.005		2
PZ-4	Feb-93							0.019	70.1			6.97	-0.020	17.5	0.86			2.61			8.18			
PZ-4	May-93	1.24	0.060	0.020	0.010	0.010	0.025	0.010	94	0.020	-0.020	1.78	0.007	23	0.964	-0.001	0.040	2.61	-0.005	0.020	9.36	0.010		0.065
PZ-4	Aug-93							0.010	128			2.71	0.005	14.8	0.911			2.17			11.1			
PZ-4	Dec-93							0.010	129			1.8	-0.005	13.8	1.14			2.21			10.8			
PZ-4	Feb-94							0.01	89.8			3.64	-0.005	23	0.859			2.22			9.13			
PZ-4	May-94							0.010	111			2.28	0.005	27.4	0.89			1.77			18.8			
PZ-4	Aug-94	0.76	0.060	0.020	0.10	-0.010	0.050	0.010	152	0.020	0.023	1.33	-0.005	32.4	1.48	-0.001	0.063	3.88	0.005	0.020	7.23	-0.005		0.19
PZ-4	Nov-94							-0.010	99			2.04	-0.005	25.7	1.04			3.18			9.09			
PZ-4	March-95							-0.010	127			1.29	-0.005	29	1.2			3.26			8			
PZ-4	June-95							0.016	128			0.96	-0.005	28.6	1.38			2.04			7.15			
PZ-4	Sept-95							0.010	123			2.12	-0.005	27.4	1.37			2.28			9.5			
PZ-4	Nov-95	0.62	0.060	0.020	0.31	-0.010		0.010	122	-0.020	0.034	1.64	0.031	30.1	1.34	-0.001	-0.040	2.43	-0.005	0.020	13	-0.005		0.2
PZ-4	April-96	1.1	0.1	0.01	-0.2	0.003	-1	-0.002	120	0.01	0.02	2.4	0.027	20	1.1	-0.002	0.01	2.4	-0.1	-0.01	9.6	-0.03		0.11
PZ-4	June-96							0.01	150			1.6	-0.01	25	1.6			2.6			10			
PZ-4	Sept-96							0.01	160			3.9	0.016	28	1.7			3.2			11			
PZ-4	Nov-96							-0.01	110			1.9	-0.01	21	1.3			2.3			8.8			
PZ-4	Aug-99	0.22	0.02	0.02	0.04	-0.02	0.1	-0.02	179	0.02	-0.02	0.88	-0.02	46	1.3	-0.001	-0.02	4.2	-0.02	0.01	22	-0.02	-0.02	0.04
PZ-4	Feb-11	46.3	0.005	0.043	0.249	0.002	0.11	0.001	351	0.029	0.201	126	0.058	88.2	6.99	-0.002	0.122	9.1	-0.010	-0.001	24.8	-0.002	-0.002	0.393
PZ-4	Apr-12	20	0.0068	0.026	0.2	0.0013	0.12	0.0011	390	0.025	0.056	40	0.013	73	5.4	-0.00012	0.041	8.2	-0.0087	-0.0017	27	-0.010	-0.010	0.15
PZ-4	Jul-13	5.7	0.0068	0.015	0.011	0.0044	0.14	-0.0056	220	0.0082	0.028	10	0.0042	55	1.9	-0.00012	0.015	4.7	-0.0087	-0.0017	28	-0.010	-0.010	0.058
PZ-11	March-97	0.92	0.06	0.01	-0.2	-0.01	-1	0.01	150	-0.01	-0.02	2.8	-0.01	24	1.6	-0.0004	-0.01	2.5	-0.05	-0.01	6.6	-0.03		0.13
PZ-11	June-97							-0.01	180			3.2	0.013	34	1.9			3.1			9.6			
PZ-11	Sept-97							-0.01	140			1.3	-0.01	31	1.7			2.7			9.6			
PZ-11	Dec-97							-0.01	110			2.1	-0.01	25	1.3			2.7			11			
PZ-11	Mar-98							0.01	150			2.9	-0.01	29	1.4			3.3			13			
PZ-11	June-98	0.6	0.06	0.01	0.2	0.01	1	-0.01	160	0.01	-0.01	3.4	-0.01	38	2.4	-0.0002	-0.01	3.2	-0.05	-0.01	12	-0.03	-0.03	0.23
PZ-11	Sept-98							-0.01	190			6	-0.01	40	2.6			4.2			9.3			
PZ-11	Dec-98							0.01	260			6.2	-0.01	15	2.6			3.6			12			
PZ-11	Apr-99							-0.01	170			5.9	-0.01	37	2.3			2.8			10			
PZ-11	Jun-99							-0.01	180			4.9	-0.01	33	2			2.6			13			
PZ-11	Sept-99							-0.01	160			4.5	-0.01	29	1.8			3			12			
PZ-11	Dec-99	1.1	0.01	0.01	0.2	-0.01	-0.5	-0.01	140	-0.01	-0.01	3.8	-0.01	27	1.5	-0.0002	0.016	2.7	0.034	-0.01	12	-0.01	-0.01	0.066
PZ-11	Apr-00	0.075	0.050	0.006	0.061	-0.002	-0.048	-0.0050	156	-0.010	-0.010	1.38	0.001	30.3	1.74	-0.0002	-0.012	2.3	-0.002	-0.010	10.5	-0.010	-0.010	0.049
PZ-11	Jun-00							-0.0050	190			1.76	0.003	35	2.99			2.38			10.6			
PZ-11	Sept-00							0.005	170			2.7	0.012	29.7	1.61			2.08			9.73			
PZ-11	Dec-00							0.005	162			2.44	0.002	27.4	1.33			2.12			10.2			
PZ-11	Mar-01							0.005	142			1.91	0.005	25.2	1.08			2.28			9.43			
PZ-11	Jun-01	0.375	0.059	0.006	0.052	0.002	0.049	0.005	147	0.010	0.010	1.1	0.01	26.5	0.672	-0.0002	-0.012	2.79	0.002	-0.010	10.1	-0.001	-0.010	0.058
PZ-11	Sept-01							0.005	169			1.49	0.005	32.4	1.92			2.37			11.4			
PZ-11	Dec-01							-0.005	156			3.04	0.004	28.1	1.56			2.24			10.7			
PZ-11	Mar-02							0.005	135			4.04	0.004	21.2	1.28			2.15			9.19			
PZ-11	Jun-02							0.005	94.6			6.05	0.008	16.3	1.02			2.16			10.8			
PZ-11	Sept-02	0.763	0.050	0.01	0.052	0.002	0.048	0.005	118	0.010	-0.0100	2.31	0.007	20.7	1.96	0.0002	-0.012	2.34	0.001	0.010	11.9	0.001	0.010	0.041
PZ-11	Dec-02							-0.001	109			0.844	0.002	17.5	0.935			2.09			10.9			
PZ-11	Apr-04	0.1	0.050	0.009	0.04	0.002	0.066	0.001	116	0.004	0.010	2.39	0.007	19.3	0.955	0.0002	0.012	2.37	-0.001	0.010	12.5	0.001	0.010	0.098
PZ-11	Jan-05																							
PZ-11	Oct-06	0.200	0.060	0.021	0.200	0.005	0.050	0.005	190	0.010	0.050	8.5	0.005	40	3.3	-0.0002	0.040	5	0.010	0.010	14	0.010	0.050	0.023
PZ-11	Dec-07	0.2	0.01	0.019	0.2	0.01	0.5	0.01	240	0.01	0.01	10	0.01	40	3.6	0.0002	0.01	5.1	0.04	0.01	15	0.01	0.01	0.048
PZ-11	Nov-89	2.57	0.060	0.0184	0.2	0.005	0.05	0.01	180	0.01	0.025	5.05	0.003	40	0.961	0.0002	0.04	0.015	0.01	13.2	0.01	0.01	0.0573	
PZ-11	Feb-90			0.0172				0.01				0.473	0.003		0.783									
PZ-11	Apr-90			0.0204				0.01				1.91	0.0036		0.812									
PZ-11	Nov-90	1.1	0.060	0.020	0.05	0.01	0.05	-0.01	184	0.03	0.02	2.2	-0.020	32	1	0.001	0.01	1.5	-0.005	0.02	15	0.010		0.06
PZ-11	Feb-91							0.010	122			0.72	0.020	19.7	0.637			0.995			12			
PZ-11	May-91							0.010	107			1.73	0.020	17.2	0.616			1.14			12.4			
PZ-11	Aug-91							0.010	113			1.5	0.020	17.5	0.566			1.18			13.5			
PZ-11	Nov-91							0.010	107			1.07	0.020	15.5	0.541			0.79			12.6			
PZ-11	Feb-92	1.19	0.060	0.020	0.10	0.010	0.25	0.010	138	0.020	0.020	1.63	0.020	22.9	0.747	0.001	0.040	1.47	0.005	0.020	19.6	0.010		0.020
PZ-11	May-92																							



TABLE 12 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)							
Class GA (GW Qual. S&S & Gold. Val.)			0.003	0.025	1	0.003	1	0.005	0.005	0.005	0.2	0.2	0.2	0.025	15	0.1	0.002	0.1	0.01	0.01	0.05	20	0.0005	0.01	2							
PZ-11	April-96	1.9	0.1	0.015	0.2	0.003	1	0.002	62	0.01		0.02	3.6	0.012	10	0.34	<0.0002	0.01	1.5	0.01	0.01	8.1	0.03		0.13							
PZ-11	June-96							0.01	100				1.7	0.01	16	0.61			1.3			16										
PZ-11	Sept-96							0.01	130				3.2	0.01	20	0.38			1.8			17										
PZ-11	Nov-96							0.01	84				0.7	0.01	16	0.66			1.2			17										
PZ-11	Aug-99	0.24	0.02	0.02	0.07	0.02	0.1	0.02	164	0.02	0.02	0.02	8.2	0.02	31	2.8	0.001	0.02	3.7	0.02	0.01	14	0.04	0.02	0.03							
PZ-11	Apr-12	0.19	0.0068	0.018	0.13	0.0030	0.031	0.0030	170	0.0012	0.0022	0.0022	8	0.0053	44	2.5	0.00012	0.0014	4.3	0.0087	0.0017	13	0.010		0.046							
PZ-11	Jul-13	0.09	0.0068	0.017	0.12	0.0030	0.03	0.0030	160	0.0022	0.0016	0.0016	6.2	0.0030	32	2.4	0.00012	0.0016	4.1	0.0087	0.0017	13	0.010		0.046							
MW-3B	March-97	1.2	0.06	0.016	0.2	0.01	1	0.01	100	0.01		0.02	2.4	0.014	16	0.61	0.0004	0.01	1.7	0.05	0.01	14	0.03		0.14							
MW-3B	June-97							0.01	110				5	0.01	19	1.1			2			17										
MW-3B	Sept-97							0.01	110				1.4	0.01	18	0.5			1.3			20										
MW-3B	Dec-97							0.01	110				1.1	0.01	19	0.57			1.6			21										
MW-3B	Mar-98							0.01	130				2	0.01	27	0.74			2.3			22										
MW-3B	June-98							Sample Location Inaccessible																								
MW-3B	Sept-98							Location Not Sampled																								
MW-3B	Dec-98							0.01	190				2.6	0.01	22	1.1			1.9			30										
MW-3B	Apr-99							0.01	110				1.8	0.01	24	0.99			1.5			28										
MW-3B	Jan-99							Location Not Sampled																								
MW-3B	Sept-99							Location Not Sampled																								
MW-3B	Dec-99	0.85	0.01	0.016	0.2	0.01	0.5	0.01	160	0.01	0.01	0.024	2.3	0.01	30	1	0.0002	0.019	2	0.03	0.01	35	0.01	0.01	0.023							
MW-3B	Apr-00																															
MW-3B	Jun-00							0.0059	181				1.05	0.002	35.7	1.02			1.71			59.9										
MW-3B	Sept-00							0.005	181				1.05	0.002	35.4	1.02			1.67			65										
MW-3B	Dec-00							0.005	186				1.14	0.001	35.9	1.04			1.77			61.7										
MW-3B	Mar-01							0.005	179				1.23	0.002	36.1	1.03			2.07			66.3										
MW-3B	Jun-01	0.075	0.050	0.039	0.103	0.002	0.228	0.005	181	0.010	0.010	0.017	1.5	0.006	36.5	1.06	0.0003	0.028	2.55	0.002	0.010	70.1	0.001	0.010	0.020							
MW-3B	Sept-01							0.005	181				1.26	0.003	37.1	1.05			1.98			71.3										
MW-3B	Dec-01							0.005	175				1.36	0.004	37.2	1.04			2.02			70.5										
MW-3B	Mar-02							0.005	183				1.21	0.001	35.5	1.03			1.73			63.6										
MW-3B	Jun-02							0.005	165				1.11	0.002	34.4	0.951			1.82			67										
MW-3B	Sept-02	0.075	0.050	0.038	0.117	0.002	0.238	0.005	171	0.010	0.010	0.017	1.32	0.002	35.4	0.955	0.0002	0.02	2.11	0.001	0.010	72.2	0.001	0.010	0.021							
MW-3B	Dec-02							0.001	177				1.27	0.001	35	1.01			2.13			64.1										
MW-3B	Apr-04	0.1	0.050	0.045	0.132	0.002	0.257	0.001	174	0.002	0.010	0.017	1.52	0.003	36.1	1.05	0.0002	0.015	2.53	0.001	0.010	78.7	0.001	0.010	0.020							
MW-3B	Jun-05	30.3	0.0025	0.0607	0.174	0.0013	0.0646	0.0008	370	0.0411	0.0282	0.0802	57.8	0.038	99	7.08	0.00016	0.0567	12.1	0.0039	0.0053	19.3	0.011	0.0499	0.221							
MW-3B	Sept-06	0.200	0.060	0.048	0.200	0.005	0.27	0.005	180	0.010	0.050	0.025	1.9	0.005	40	1.1	0.0002	0.040	5	0.010	0.010	74	0.010	0.050	0.220							
MW-3B	Dec-07	0.18	0.01	0.051	0.2	0.01	0.5	0.01	160	0.01	0.01	0.01	1.5	0.01	34	0.99	0.0002	0.01	4.3	0.034	0.01	58	0.01	0.01	0.022							
MW-3B	Nov-90	120	0.060	0.081	1.5	0.01	0.09	0.01	350	0.14		0.52	270	0.197	100	12	0.001	0.27	13	0.005	0.02	13	0.010		0.87							
MW-3B	Feb-91							0.010	310				195	0.128	92.5	10.5			12.1			92.5										
MW-3B	May-91							0.010	274				128	0.071	78.7	8.43			13			12.3										
MW-3B	Aug-91							0.010	344				288	0.082	120	11.3			17.3			10.6										
MW-3B	Nov-91							0.019	272				207	0.087	87.2	9.38			30.1			13.8										
MW-3B	Feb-92	1.28	0.060	0.020	0.19	0.010	0.25	0.010	165	0.020	0.020	0.020	12	0.020	29	5.38	0.001	0.040	2.55	0.005	0.032	8.53	0.010	0.053								
MW-3B	May-92	0.36	0.060	0.020	0.19	0.010	0.25	0.010	193	0.020	0.020	0.020	9.78	0.020	41.2	4.09	0.001	0.040	1.26	0.005	0.020	9.84	0.010	0.022								
MW-3B	Aug-92							0.010	277				330	0.203	125	10.9			20			9.48										
MW-3B	Dec-92							0.010	171				8.39	0.020	36.3	2.61			2.44			11.2										
MW-3B	Feb-93							0.010	221				231	0.12	90	10.7			19.5			12.7										
MW-3B	May-93	0.7	0.060	0.021	0.21	0.010	0.25	0.010	192	0.020	0.020	0.020	15.7	0.005	42.4	3.70	0.001	0.040	1.7	0.005	0.020	11.2	0.010	0.020								
MW-3B	Aug-93							0.010	184				376	0.208	149	9.25			15.2			16.8										
MW-3B	Dec-93							0.010	233				260	0.061	116	11.4			22.1			13.9										
MW-3B	Feb-94							0.010	196				185	0.012	85	7.22			27.6			11.5										
MW-3B	May-94							0.010	210				31.8	0.022	47.5	4.08			1.54			11.1										
MW-3B	Aug-94	1.76	0.060	0.031	0.1	0.010	0.05	0.017	206	0.020	0.022	0.022	19.2	0.005	45.2	4.95	0.001	0.11	2.22	0.005	0.020	8.13	0.005	0.07								
MW-3B	Nov-94							0.010	165				27	0.005	43.3	3.7			1.7			10.9										
MW-3B	March-95							0.010	194				25	0.005	44	3.24			1.49			10.8										
MW-3B	June-95							0.010	252				37.4	0.021	54.8	6.1			3.72			9.22										
MW-3B	Sept-95							0.010	166				191	0.074	102	8.5			10.2			12.4										
MW-3B	Nov-95	53.4	0.060	0.063	1.39	0.010	0.19	0.010	194	0.070	0.070	0.070	166	0.074	84.5	7.56	0.001	0.18	12.2	0.005	0.020	15.4	0.005	0.05								
MW-3B	April-96	50	0.2	0.01	0.66	0.003	1	0.0039	290	0.068	0.068	0.068	120	0.08	28	5.3	0.0012	0.11	11	0.21	0.01	14	0.03	0.42								
MW-3B	June-96							0.01	140				150	0.01																		

TABLE 12 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)						
Ches GA GW Qual. Sp's & Cust. Val.			0.003	0.025	1	0.003	1	0.005		0.05		0.2	0.5	0.025	56	4.3	0.001	0.1		0.01	0.05	10	0.0005		2						
MW-207S	Apr-99							0.01	110				250	0.11	91	5.7															
MW-207S	Jan-99							0.01	410				310	0.11	95	7.2															
MW-207S	Sept-99							0.013	380				330	0.11	90	7.5															
MW-207S	Dec-99	61	0.01	0.29	1.1	0.01	5	0.012	400	0.092	0.091	0.45	250	0.12	82	7.2	0.00063	0.17						0.01	0.01	11	-0.01	0.096	0.55		
MW-207S	Apr-00	48.5	0.050	0.62	0.699	0.004	0.073	0.007	219	0.055	0.048	0.348	130	0.034	59	3.63	0.0004	0.109						0.002	-0.010	10.9	-0.001	0.082	0.187		
MW-207S	Jan-00							0.0059	299				16.1	0.017	39.3	2.24															
MW-207S	Sept-00							0.005	196				29.3	0.007	38.7	1.84															
MW-207S	Dec-00							0.005	189				22.8	0.002	31	1.27															
MW-207S	Mar-01							0.005	181				23.3	0.001	35.3	1.37															
MW-207S	Jun-01	1.02	0.050	0.041	0.167	0.002	0.048	0.005	182	0.010	0.010	0.017	27.6	0.006	36	1.46	0.0002	-0.012						0.002	-0.010	10.5	0.001	0.030	0.020		
MW-207S	Sept-01							0.005	199				34.8	0.009	39.6	1.77															
MW-207S	Dec-01							0.005	202				33.4	0.004	40.8	1.61															
MW-207S	Mar-02							0.005	189				29.8	0.003	35.8	1.4															
MW-207S	Jun-02							0.005	182				21.6	0.002	36	1.34															
MW-207S	Sept-02	0.075	0.050	0.045	0.195	0.002	0.056	0.005	187	0.010	0.0100	0.017	26.8	0.002	36.9	1.42	-0.0002	0.012							0.001	0.010	11.1	-0.001	0.010	0.020	
MW-207S	Dec-02							0.001	181				19.6	0.001	34.1	1.18															
MW-207S	Apr-04	0.1	0.030	0.044	0.224	0.002	0.118	0.001	171	0.002	0.010	0.017	21.3	0.001	33.6	1.37	-0.0002	0.013							0.001	0.010	10	-0.001	-0.010	0.020	
MW-207S	Jun-05	0.19	0.025	0.065	0.322	0.004	0.0422	0.0008	163	0.0144	0.0106	0.0514	35.9	0.005	36.4	1.39	-0.00016	0.0147						0.0019	0.0019	9.99	-0.0029	0.0176	0.109		
MW-207S	Sept-06	0.200	0.060	0.041	0.3	0.005	-0.050	0.005	150	0.019	0.050	0.025	19	-0.005	31	1	-0.0002	-0.040						0.010	-0.010	10	-0.010	-0.050	-0.020		
MW-207S	Dec-07	15	0.01	0.081	0.51	0.01	0.5	-0.01	170	0.021	0.022	0.16	45	0.042	40	1.3	-0.0002	0.052						0.01	0.01	9.5	-0.01	0.012	0.23		
MW-207S	Sept-07	0.7	0.08	0.010	0.2	0.005	-0.050	0.010	81	-0.010		0.025	0.92	-0.005		0.648	-0.0002	-0.040						-0.005	-0.010	11.3	-0.010		-0.020		
MW-207S	Feb-08	0.24	0.06	0.010	0.2	0.005	-0.25	0.010	124	0.010		0.0673	0.783	0.005		0.981	-0.0002	0.040						-0.005	0.010	15.5	-0.010		0.103		
MW-207S	Apr-08			0.0131				0.010					1.45	-0.005		0.961															
MW-207S	Jun-08			0.0204				-0.010					0.968	-0.005		0.921															
MW-207S	Nov-08			0.0154				-0.010					1.89	-0.004		0.836															
MW-207S	Feb-09	1.79	0.06	0.0204	0.2	-0.005	1.0	0.010	140	-0.010		-0.025	2.54	-0.001		1.31	-0.0002	-0.040						-0.005	-0.010	12.6	-0.010		-0.020		
MW-207S	Apr-09			0.0213				-0.010					1.32	0.0049		1.42															
MW-207S	Nov-09	4.3	0.060	0.022	0.15	0.01	-0.05	-0.01	140	-0.03		0.02	8.2	-0.020	27	1.8	-0.001	-0.04						-0.005	-0.02	13	-0.010		0.1		
MW-207S	Feb-09							-0.010	140				5.08	-0.020	26.6	1.47															
MW-207S	May-09							-0.010	138				2.64	-0.020	25.2	1.48															
MW-207S	Aug-09							-0.010	143				4.22	-0.020	26.7	1.52															
MW-207S	Nov-09							-0.010	124				3.05	-0.020	21.2	1.2															
MW-207S	Feb-02	4.8	0.060	-0.020	0.18	-0.010	0.25	-0.010	124	-0.020		-0.020	4.75	-0.020	25.7	1.42	-0.001	-0.040						0.005	-0.020	11.8	-0.010		0.073		
MW-207S	May-02	0.66	0.060	0.020	0.10	-0.010	-0.25	-0.010	134	-0.020		-0.020	1.29	-0.020	23.1	1.24	-0.001	-0.040						0.005	-0.020	9.74	-0.010		0.027		
MW-207S	Aug-02							-0.010	148				1.79	-0.020	49.8	1.09															
MW-207S	Dec-02							-0.010	119				6.34	-0.020	24	0.961															
MW-207S	Feb-03							-0.010	115				40.2	0.028	33	2.6															
MW-207S	May-03	4.63	0.060	0.020	0.29	0.010	-0.25	-0.010	69.3	-0.020		0.052	6.23	0.006	25.4	1.39	-0.001	-0.040						-0.005	-0.020	12.5	-0.010		0.029		
MW-207S	Aug-03							-0.010	138				8.5	0.013	34.5	1.3															
MW-207S	Dec-03							-0.010	143				3.77	-0.005	30.2	1.57															
MW-207S	Feb-04							-0.010	139				5.28	-0.005	29	1.91															
MW-207S	May-04							-0.010	164				5.01	-0.005	29.3	1.69															
MW-207S	Aug-04	1.9	0.060	0.020	0.10	0.010	-0.05	0.013	164	-0.020		-0.020	2.4	-0.005	30	1.77	0.001	0.11						-0.005	-0.020	9.78	0.005		0.086		
MW-207S	Nov-04							-0.010	127				0.7		28.9	1.38															
MW-207S	March-05							-0.010	159				4.59	-0.005	32	1.73															
MW-207S	June-05							-0.010	154				0.92	-0.005	31.7	1.63															
MW-207S	Sept-05							-0.010	171				2.39	-0.005	31.6	1.62															
MW-207S	Nov-05	1.97	0.060	0.03	0.46	0.010		0.010	169	-0.020		0.021	4.52	-0.005	33.7	1.73	-0.001	-0.040						-0.005	-0.020	14.2	0.005		0.08		
MW-207S	April-06	0.82	0.1	0.01	0.2	0.003	1	0.002	82	0.01		0.028	2.3	-0.01	19	0.43	-0.0002	-0.01						0.1	-0.01	8.8	-0.03		0.19		
MW-207S	June-06							0.01	170				3.2	-0.01	25	1.7															
MW-207S	Sept-06							0.01	180				4.2																		



TABLE 12 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
Class G4 GW Qml. Sd's & Gnd. Val.		0.03	0.025	0.005	1	0.005	1	0.005	0.05	0.05	0.2	0.3	0.025	5	0.3	0.002	0.1		0.01	0.05	10	0.005	1	1	
MW-220	Sept-02	1.43	0.050	0.005	0.058	-0.002	0.082	-0.005	230	-0.010	-0.0100	0.024	3.84	0.006	59.7	1.55	-0.0002	0.015	3.09	0.001	-0.010	13.2	-0.001	-0.010	0.026
MW-220	Dec-02							-0.001	128			2.17	0.003	94.6	1.04			3.75			13.6				
MW-220	Apr-04	4.09	-0.050	0.01	0.061	-0.002	0.147	-0.001	177	0.004	-0.010	0.018	7	0.005	44.8	1.41	-0.002	0.016	2.95	-0.001	-0.010	14.6	-0.001	-0.010	0.024
MW-220	Jun-05	1.03	0.0025	0.0242	0.0589	-0.004	0.0508	-0.0080	192	0.0032	0.0026	0.0042	5.59	0.0102	51.7	2.3	-0.00016	-0.0023	5.51	-0.0039	0.0045	13	0.0036	-0.002	0.0704
MW-220	Sep-06	-0.200	-0.060	0.0051	-0.200	0.005	0.034	-0.005	230	-0.010	-0.050	-0.025	0.86	-0.005	60	3.1	-0.0002	-0.040	<5	-0.010	-0.010	14	-0.010	-0.050	-0.020
MW-220	Dec-07	2.6	0.01	0.03	-0.2	0.01	0.5	0.01	210	0.01	0.011	10	0.015	49	3.1	-0.0002	-0.01	8.7	-0.0002	-0.01	19	-0.01	-0.01	0.052	
MW-220	Sep-87	21.7	0.06	0.035	0.31	0.005	-0.05	-0.010	276	0.033	0.154	65	0.093		3.2	0.0003	0.067		-0.005	-0.010	30.4	<0.010		0.249	
MW-220	May-88																								
MW-220	Aug-88							0.010																	
MW-220	Nov-88							0.010																	
MW-220	Feb-89	173	0.06	0.213	1.06	0.0141	-0.25	0.010	484	0.245	0.703	382	0.237		9.39	-0.0002	0.321		-0.005	-0.010	29.3	-0.010		1.05	
MW-220	Apr-89			0.0722				-0.010				78	0.0513		2.9										
MW-220	Jul-89			0.010				-0.010				0.453	-0.005		0.0251										
MW-220	Nov-89			0.0168				0.010				42.3	-0.003		1.25										
MW-220	Feb-90	17.4	0.06	0.0164	-0.2	-0.005	1.0	-0.010	258	0.0244	0.0637	38.1	0.0371		1.65	-0.0002	0.040		-0.005	0.010	51.3	-0.010		0.168	
MW-220	Apr-90			0.0221				-0.010				7.97	0.0795		0.911										
MW-220	Nov-90	4.6	0.060	-0.020	0.09	-0.01	0.08	0.01	250	0.03	0.03	10	0.029		33	2	-0.001	-0.04	5.1	-0.005	-0.02	55	-0.010		0.09
MW-220	Feb-91							-0.010	248			6.56	-0.020		56.1	6.64									
MW-220	May-91							-0.010	254			10.6	-0.020		53.3	9.3									
MW-220	Aug-91							0.010	302			35	0.025		66.5	2.5									
MW-220	Nov-91							0.012	249			17.3	-0.020		47.2	1.34									
MW-220	Feb-92	1.57	0.060	0.020	0.2	0.010	0.25	-0.010	215	0.020	-0.020	7.25	-0.020		56	1.82	-0.001	-0.040	3.99	0.005	-0.020	42	-0.010		0.03
MW-220	May-92	0.6	-0.060	-0.020	-0.10	0.010	0.25	-0.010	259	-0.020	-0.020	2.39	-0.020		53.9	4.34	-0.001	-0.040	3.19	-0.005	-0.020	64.5	-0.010		-0.020
MW-220	Aug-92							-0.010	234			61.7	-0.020		58.8	4.31									
MW-220	Dec-92							0.010	194			21.5	0.021		49	1.43									
MW-220	Feb-93							0.010	199			20.1	-0.020		42.8	12.6									
MW-220	Jun-93	3.36	0.060	0.020	0.27	0.010	-0.25	-0.010	248	-0.020	0.044	6.65	0.009		47.1	17.3	0.001	-0.040	5.38	0.02	0.020	47.9	-0.010		0.049
MW-220	Aug-93							-0.010	262			24.5	0.024		36	3.71									
MW-220	Dec-93							-0.010	216			34.7	0.028		67	3.67									
MW-220	Feb-94							-0.010	211			19.8	0.016		57	2.24									
MW-220	Jun-94							0.016	251			4.77	0.007		50.4	20.2									
MW-220	Aug-94	0.34	0.06	0.026	0.10	0.010	0.17	0.010	240	-0.020	0.064	3.6	0.006		49.2	8.27	0.001	0.013	8.93	0.005	-0.020	35	-0.005		0.063
MW-220	Nov-94							0.010	182			2	0.005		51.1	5.43									
MW-220	March-95							0.010	210			12.5	0.012		36	18									
MW-220	June-95							0.010	260			6.7	-0.005		60	5.55									
MW-220	Sept-95							0.010	186			11.2	0.005		38.8	4.66									
MW-220	Dec-95	1.32	0.060	0.020	0.74	0.010		0.010	185	0.020	-0.020	2.31	-0.005		33	5.83	0.001	0.040	4.00	0.005	0.020	30.6	-0.005		0.020
MW-220	Apr-96	140	0.33	0.01	1.1	0.008	1	0.0047	280	0.17	0.4	210	0.29		29	20	0.00083	0.26	19	0.45	0.012	47	-0.03		0.95
MW-220	June-96							0.01	280			180	0.26		36	22									
MW-220	Sept-96							0.01	38			0.17	-0.01		15	-0.01									
MW-220	Nov-96							0.07	190			2.5	0.01		31	11									
MW-220	Aug-99	3.6	0.02	0.02	0.07	0.02	-0.1	0.02	174	0.02	-0.02	13	0.02		47	1.7	-0.001	-0.02	3.1	0.02	-0.01	10	0.02		0.02
MW-220	Feb-11	2.43	0.005	0.064	0.074	0.001	-0.005	0.001	203	0.004	0.008	7.03	0.002		52.5	1.67	-0.0002	0.007	3.6	-0.010	0.001	15.3	-0.002		0.027
MW-220	Apr-12	5.2	0.0068	0.042	0.12	0.00041	0.049	0.00059	180	0.0081	0.0079	12	0.016		50	3.8	-0.00012	0.0085	4.7	0.0087	0.0017	12	-0.010		0.016
MW-220	Jul-13	2.6	0.0068	0.0096	0.083	-0.0030	0.04	-0.0050	180	0.0047	0.0041	4.3	-0.0030		49	1.6	-0.00012	0.004	3.5	-0.0087	-0.0017	12	-0.010		0.012
MW-221S	March-97	59	0.2	-0.01	0.4	0.01	-1	0.01	250	0.073	0.2	91	0.11		33	10	-0.0004	0.13	15	-0.05	-0.01	30	-0.03		0.55
MW-221S	June-97							0.01	240			40	0.041		33	7.9									
MW-221S	Sept-97							0.01	260			110	0.11		75	10									
MW-221S	Dec-97							-0.01	291			120	0.15		86	9.6									
MW-221S	Mar-98							0.01	290			88	0.11		60	4.6									
MW-221S	June-98	10	0.06	0.061	0.23	0.01	1	0.01	220	0.048	0.026	59	0.064		51	3.9	-0.0002	0.08	11	-0.05	-0.01	22	-0.03	0.04	0.14
MW-221S	Sept-98							0.01	320			150	0.085		95	12									
MW-221S	Dec-98							0.01	380			120	0.056		87	10									
MW-221S	Apr-99							0.01	320			52	0.048		35	2.4									
MW-221S	Jun-99							0.01	380			130	0.074		78	6.3									
MW-221S	Sept-99							0.01	300			36	-0.01		37	2.2									
MW-221S	Dec-99	16	0.01	0.072	0.24	0.01	0.5	0.01	220	0.022	0.02	33													





Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	II (mg/l)	V (mg/l)	Zn (mg/l)	
Class GA GW Qual. Site & Qual. Val.			0.003		1	0.003	1	0.006		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.0005		2	
MW-222	Apr-90			0.010				-0.010					1.1	-0.003		2.08										
MW-222	Nov-90	1.2	0.060	0.020	0.09	0.01	0.05	0.01	240	0.03		0.02	2.1	-0.020	76	2.2	-0.001	0.04	1.8	0.005	-0.02	5.9	-0.010		0.04	
MW-222	Feb-91							0.010	252				5.24	-0.020	70.9	2.54			2.64			5.75				
MW-222	May-91							0.010	236				2.11	-0.020	68.4	2.41			1.77			6.27				
MW-222	Aug-91							0.010	247				2.29	-0.020	69.6	2.75			1.72			6.5				
MW-222	Nov-91							0.010	251				4.57	-0.020	61.2	2.62			1.6			6.74				
MW-222	Feb-92	1.18	0.060	0.020	0.17	0.010	0.25	0.010	235	0.020		0.020	4.75	-0.020	64.6	3.47	0.001	0.040	2.07	0.005	0.020	6.02	0.010		0.037	
MW-222	May-92	11.2	0.060	0.020	0.16	0.010	0.25	0.010	224	0.020		0.020	21.8	-0.020	63.8	3.14	-0.001	0.040	3.47	0.005	0.020	7.26	0.010		0.066	
MW-222	Aug-92							0.010	194				8.68	-0.020	58.6	2.76			2.62			5.86				
MW-222	Dec-92							0.010	205				6.34	-0.020	56.8	1.99			1.88			7.49				
MW-222	Feb-93							0.010	163				8.5	-0.020	50.2	3.05			1.8			6.57				
MW-222	May-93	1.16	0.060	0.020	0.10	0.010	0.25	0.010	219	0.020		0.020	10.3	-0.005	56.3	2.88	-0.001	0.040	1.55	0.005	0.020	7.19	-0.010		0.020	
MW-222	Aug-93							0.010	226				14.5	0.011	73	2.49			1.5			10.7				
MW-222	Dec-93							0.010	251				13	0.013	71.9	3.35			2.38			8.65				
MW-222	Feb-94							0.010	206				29.8	0.01	61	3.4			4.51			8.4				
MW-222	May-94							0.010	229				14.6	-0.005	52.8	2.86			1.05			7.74				
MW-222	Aug-94	3.21	0.060	0.022	0.10	0.010	0.05	0.010	240	0.020		0.02	12.9	-0.005	61.5	3.96	0.001	0.09	4.08	0.005	-0.020	6.78	0.005		0.16	
MW-222	Nov-94							0.010	181				10.7	0.005	56.8	2.69			1.38			7.91				
MW-222	March-95							0.010	212				13.5	-0.005	31	3.24			1.75			4.3				
MW-222	June-95							0.010	972				25.6	0.005	277	3.5			1.31			13.4				
MW-222	Sept-95							0.010	221				17.7	-0.005	69.4	3.44			1.86			8.9				
MW-222	Nov-95	0.97	0.060	0.020	0.4	0.010		0.010	229	0.020		0.028	15.6	-0.005	70.6	3.24	0.001	0.040	1.87	0.005	-0.020	16.6	-0.005		0.089	
MW-222	April-96	1.8	0.1	0.01	0.2	0.003	-1	0.002	290	0.01		0.02	20	0.01	27	3.5	-0.0002	0.01	2.5	0.1	-0.01	11	0.03		0.061	
MW-222	June-96							-0.01	240				21	-0.01	31	3.4			2.3			8.6				
MW-222	Sept-96							-0.01	210				25	-0.01	34	3.2			2.7			8.8				
MW-222	Nov-96							-0.01	200				5.5	-0.01	27	1.9			1.9			9.5				
MW-222	Aug-99	0.06	0.02	0.02	0.47	-0.02	-0.1	-0.02	220	0.02	-0.02	-0.02	38	-0.02	61	0.66	-0.001	-0.02	5.7	-0.02	-0.01	21	0.03	0.02	-0.02	
MW-222	Apr-12	0.59	0.0068	0.018	0.46	-0.00930	0.12	-0.00050	180	0.0023		0.003	25	0.0091	43	0.4	-0.00012	0.0042	4.6	-0.00087	-0.00017	27	-0.010		0.023	
MW-222	Jul-13	0.2	-0.0068	0.0056	0.32	-0.0030	0.22	-0.0050	210	0.0011		0.0016	24	-0.0030	47	0.58	-0.00012	0.0034	12	-0.00087	-0.00017	46	-0.010		0.0007	
MW-223S	March-97	0.34	0.06	0.01	-0.2	-0.01	-1	-0.01	200	-0.01		-0.02	11	-0.01	20	2.4	-0.0004	-0.01	1.9	0.05	-0.01	6.9	-0.3		0.07	
MW-223S	June-97							-0.01	240				18	-0.01	45	2.9			2.7			6.6				
MW-223S	Sept-97							0.01	210				5.2	-0.01	38	0.86			2			10				
MW-223S	Dec-97							0.01	210				18	-0.01	46	2.9			2.1			9.6				
MW-223S	Mar-98							0.01	140				8.2	0.01	32	0.83			5			15				
MW-223S	June-98	3.5	0.06	0.02	0.2	0.01	-1	0.01	230	-0.01	-0.01	-0.02	22	0.011	69	3.6	-0.0002	-0.01	3.4	-0.05	-0.01	12	-0.03	0.03	0.18	
MW-223S	Sept-98							-0.01	230				58	-0.01	44	1.7			2.9			10				
MW-223S	Dec-98							-0.01	320				8.3	-0.01	41	1.4			2.3			15				
MW-223S	Apr-99							0.01	220				25	-0.01	52	3.6			2			11				
MW-223S	Jun-99							0.01	270				9.2	0.012	52	2			2.1			15				
MW-223S	Sept-99							-0.01	240				28	0.01	52	3.8			2.6			16				
MW-223S	Dec-99	1.8	0.01	0.001	0.2	-0.01	-0.5	-0.01	230	-0.01	0.01	-0.01	26	-0.01	51	3.9	-0.0002	-0.01	2.3	-0.01	-0.01	14	-0.01	-0.01	-0.01	
MW-223S	Apr-00	1.38	-0.050	0.021	0.101	-0.002	0.064	-0.0050	227	-0.010	-0.010	-0.017	24	0.002	50.6	3.95	-0.0002	-0.012	1.84	-0.002	-0.010	12.1	-0.001	-0.010	0.029	
MW-223S	Jun-00							0.0050	233				24.3	0.002	49	4.03			1.4			16.5				
MW-223S	Sep-00							-0.005	243				16.2	0.008	50.3	4.06			1.35			18				
MW-223S	Dec-00							-0.005	235				24.6	-0.001	47.6	3.85			1.24			15.7				
MW-223S	Mar-01							-0.005	211				21.6	0.001	45.3	3.46			1.49			12.6				
MW-223S	Jun-01	0.075	0.050	0.024	0.056	0.002	0.048	-0.005	223	-0.010	-0.010	-0.017	23.9	0.004	46.7	3.7	0.0002	0.018	1.91	-0.002	-0.010	13.2	-0.001	-0.010	-0.020	
MW-223S	Sept-01							-0.005	211				22.8	0.002	44.8	3.53			1.4			18.5				
MW-223S	Dec-01							0.005	207				21.5	-0.001	43.5	3.36			1.34			17.1				
MW-223S	Mar-02							0.005	213				21.5	0.003	44.1	3.51			1.37			12.4				
MW-223S	Jun-02							-0.005	205				20.9	-0.001	44.2	3.39			1.29			13.4				
MW-223S	Sept-02	0.075	0.050	0.022	0.057	-0.002	0.048	0.005	199	-0.010	-0.0100	-0.017	20.8	0.002	42.9	3.21	-0.0002	0.014	1.3	0.001	-0.010	15.8	-0.001	-0.010	-0.020	
MW-223S	Dec-02							-0.001	224				21.9	-0.001	45.2	3.52			1.54			14.4				
MW-223S	Apr-04	-0.1	0.050	0.024	0.072	-0.002	0.053	-0.001	185	0.002	-0.010	-0.017	18.8	-0.001	38	2.89	-0.0002	0.02	1.5	-0.001	-0.010	13.3	-0.001	-0.010	-0.020	
MW-223S	Jun-05	0.0606	-0.0025	-0.0031	0.134	-0.0004	0.0255	-0.0008	113	0.0029	0.0019	0.0027	1.09	0.0024	3.27	0.0928	-0.00016	-0.0023	2.44	-0.0039	0.0024	12.5	-0.0029	-0.002	0.0186	
MW-223S	Sep-06	0.200	-0.060	0.034	-0.200	-0.005	0.050	0.005	179	-0.010</																

TABLE 12 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Sr (mg/l)	Ag (mg/l)	Nm (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
Class G4 GW Qual.				0.015	1	0.003	1	0.005		0.05		0.2	0.3	0.015		0.3	0.002	0.1		0.01	0.05	0.05	20	0.0005		1
SD's & Guid. Val.		0.003													35											
MW-223S	Feb-92	2.21	0.060	0.020	0.13	0.010	0.25	0.010	274	0.020		0.027	2.73	-0.020	56.4	2.28	0.001	0.040	2.17	0.005	0.020	10.8	0.010			0.029
MW-223S	May-92							0.010	240				3.5	-0.020	49.4	1.53			1.46			10.5				
MW-223S	Aug-92							0.010	216				5.05	-0.020	35.2	1.89			2.79			9.95				
MW-223S	Dec-92							0.010	234				3.63	-0.020	31.5	1.46			2.18			12.3				
MW-223S	Feb-93							0.010	192				3.1	-0.020	44.4	1.96			2.02			10.9				
MW-223S	May-93	2.14	0.060	0.020	0.19	0.010	0.25	0.010	223	0.020		-0.020	3.88	-0.005	49.3	1.77	-0.001	-0.040	1.76	0.005	-0.020	11	-0.010			-0.020
MW-223S	Aug-93							0.010	212				5.96	0.01	27.6	1.57			1.17			14.9				
MW-223S	Dec-93							0.010	219				4.65	0.005	35.4	2.2			2.13			12.4				
MW-223S	Feb-94							0.010	192				3.66	-0.005	46	1.61			2.01			11.5				
MW-223S	May-94							0.010	190				3.02	0.005	42.1	1.64			0.96			9.74				
MW-223S	Aug-94	5.87	0.060	0.02	0.10	0.010	0.05	0.010	208	0.020		0.07	9.6	0.005	46.4	2.08	0.001	0.078	4.26	0.005	0.020	8.17	0.005			0.13
MW-223S	Nov-94							0.010	164				2.26	-0.005	47.4	1.77			1.47			10.6				
MW-223S	March-95							0.010	202				6.28	0.005	24	1.54			1.89			9.8				
MW-223S	June-95							0.010	200				2.7	0.005	38.8	1.89			1.64			7.43				
MW-223S	Sept-95							0.010	221				2.76	-0.005	49.7	1.92			1.33			8.98				
MW-223S	Nov-95	2.62	0.060	0.020	0.24	0.010		0.010	164	0.020		0.027	6.06	-0.005	47.2	1.86	-0.001	0.040	2.45	0.005	0.020	11.1	-0.005			0.072
MW-223S	April-96	2.5	0.1	0.01	0.2	0.003	1	0.002	150	0.01		0.02	5.2	0.01	23	0.82	-0.0002	0.01	3.5	-0.1	0.01	13	0.03			0.097
MW-223S	June-96							-0.01	130				2.5	0.01	24	0.5			4			12				
MW-223S	Sept-96							0.01	176				5.7	-0.01	30	1.6			2			9.8				
MW-223S	Nov-96							-0.01	140				2.5	-0.01	25	0.89			1.8			11				
MW-223S	Aug-99	0.28	0.02	0.02	0.12	0.02	-0.1	-0.02	142	0.02	0.03	0.03	8.3	-0.02	41	2	0.001	0.05	1.7	0.02	0.15	16	0.04	0.02		0.05
MW-223S	Feb-11	1.66	0.005	0.016	0.227	0.001	0.05	-0.001	140	0.002		0.006	13.6	-0.002	33.5	2.15	-0.0002	0.003	1.9	0.010	-0.001	14.8	-0.002			0.026
MW-223S	Apr-12	3.9	0.0068	0.024	0.22	0.0030	0.029	-0.00050	140	0.0018		0.0066	12	-0.0040	34	2.1	-0.00012	0.0049	2.6	-0.0087	0.0017	13	-0.010			0.017
MW-223S	Jul-13	0.6	0.0068	0.024	0.19	-0.0030	0.029	-0.0050	130	0.0018		0.0019	2.5	-0.0030	30	2.1	-0.00012	0.0015	1.7	-0.0087	0.0017	13	-0.010			0.029
MW-223D	March-97	0.49	0.06	0.02	-0.2	0.019	-1	0.021	110	0.025		0.028	2.2	0.029	22	0.65	-0.0004	0.023	2.6	-0.05	-0.01	7.9	-0.03			0.12
MW-223D	June-97							-0.01	190				2.7	-0.01	38	1.5			1.5			6.7				
MW-223D	Sept-97							-0.01	160				5.7	-0.01	31	1.1			2.1			12				
MW-223D	Dec-97							0.01	180				5.6	-0.01	40	1.4			1.9			11				
MW-223D	Mar-98							0.01	120				3.8	-0.01	30	0.87			4.5			14				
MW-223D	June-98	2.5	0.06	0.01	0.2	-0.01	-1	0.01	180	-0.01	-0.01	-0.02	7.1	-0.01	48	1.7	-0.0002	-0.01	2.6	0.05	0.01	12	-0.04	-0.03		0.07
MW-223D	Sept-98							-0.01	170				7.1	-0.01	39	1.1			3.8			9.8				
MW-223D	Dec-98							-0.01	200				6.6	-0.01	42	1.5			2.4			14				
MW-223D	Apr-99							-0.01	210				3.6	-0.01	49	1.7			1.5			12				
MW-223D	Jun-99							0.01	210				8.9	0.012	44	1.2			2.1			18				
MW-223D	Sept-99							-0.01	209				8.8	-0.01	47	1.7			2.4			12				
MW-223D	Dec-99	1.4	-0.01	0.024	2	0.01	5	-0.01	160	-0.01	-0.01	0.012	7.5	-0.01	38	1.1	-0.0002	-0.01	1.7	0.029	-0.01	13	0.01	-0.01		-0.01
MW-223D	Apr-00	0.486	-0.050	0.011	0.058	0.002	0.064	-0.0050	189	-0.010	-0.010	-0.017	3.92	-0.001	45.8	1.63	-0.0002	-0.012	1.5	-0.002	-0.010	11.6	-0.001			-0.010
MW-223D	Jun-00							0.0050	201				4.19	0.003	47.2	1.72			1.3			11.9				
MW-223D	Sept-00							-0.005	215				4.66	0.003	49.8	1.83			1.4			11.8				
MW-223D	Dec-00							-0.005	228				4.4	0.001	51.4	1.89			1.11			11.9				
MW-223D	Mar-01							-0.005	210				4.35	0.024	49.1	1.81			1.43			12.2				
MW-223D	Jun-01	0.291	-0.050	0.023	0.051	-0.002	0.048	-0.005	196	-0.010	-0.010	-0.017	4.47	0.005	45.9	1.72	0.0003	-0.012	1.81	-0.002	-0.010	12.5	-0.001	-0.019		0.020
MW-223D	Sept-01							0.005	200				4.45	0.003	47.6	1.79			1.32			12.7				
MW-223D	Dec-01							-0.005	205				3.91	-0.001	48.9	1.84			1.26			12.7				
MW-223D	Mar-02							-0.005	212				4.9	0.001	49	1.87			1.22			12.9				
MW-223D	Jun-02							-0.005	195				4.77	-0.001	46.5	1.77			1.2			13				
MW-223D	Sept-02	0.075	0.050	0.024	0.047	0.002	0.048	0.005	190	-0.010	0.012	-0.017	4.67	0.002	46.2	1.7	-0.0002	0.013	1.13	0.001	-0.010	12.6	-0.001	-0.010		0.020
MW-223D	Dec-02							-0.001	183				4.19	-0.001	41.5	1.6			1.36			11.2				
MW-223D	Apr-03	0.111	0.050	0.023	0.038	0.002	-0.048	-0.001	150	-0.002	-0.010	-0.017	3.39	-0.001	34.4	1.35	-0.0002	-0.012	0.86	-0.001	-0.010	11.4	-0.001	-0.010		0.020
MW-223D	Jun-05	0.0793	0.0025	0.0031	0.0933	0.0004	0.0203	0.0008	38.5	0.0015	-0.0019	0.0038	0.684	0.0025	3.2	0.0611	-0.00016	0.0046	1.42	-0.0039	0.0023	14.6	-0.0029	-0.002		0.023
MW-223D	Sept-06	0.010	-0.060	0.027	0.200	-0.005	0.050	-0.005	170	-0.010	-0.050	-0.025	3.6	-0.005	41	1.7	-0.0002	-0.040	-5	-0.010	-0.010	14	-0.010	-0.050		-0.020
MW-223D	Dec-07	0.57	0.01	0.029	-0.2	0.01	-0.5	-0.01	170	-0.01	-0.01	-0.01	2.8	-0.01	44	1.4	-0.0002	-0.01	1.9	0.4	-0.01	15	-0.01	-0.01		0.051
MW-223D	Nov-94							-0.010																		



Monitoring Well	Sample Date	Al (mg/l)	Sh (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cl (mg/l)	Ca (mg/l)	Cr (mg/l)	Cu (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
Chess GA GW Quad. Sh's & Gald. Vat			0.003	0.025	1	0.003	1	0.005	0.005	0.05	0.2	0.2	0.3	0.005	15	0.3	0.002	0.1		0.01	0.05	10	0.0005		2
MW-303D	Dec-98							-0.01	58				2	-0.01	21	0.042						120			
MW-303D	Apr-99							0.61	44				0.75	-0.01	18	0.03						170			
MW-303D	Jun-99							-0.51	62				1	-0.01	24	0.05						270			
MW-303D	Sept-99							-0.51	69				2.5	0.01	24	-0.01						200			
MW-303D	Dec-99	0.32	0.01	0.01	2	0.01	.5	0.01	54	-0.01	-0.01	0.01	1.6	-0.01	23	0.044	0.002	0.05	9.8	0.049	-0.01	190	0.018	-0.01	0.037
MW-303D	Apr-00	0.155	0.050	0.004	0.047	0.002	0.384	0.007	17.8	-0.010	0.010	0.017	0.865	0.002	20.2	0.034	-0.0002	0.012	6.02	0.002	0.010	167	-0.001	-0.010	0.025
MW-303D	Jun-00							0.0050	46.9				0.947	0.004	19.6	0.092						166			
MW-303D	Sep-00							0.005	49.8				1.07	0.006	20	0.055						156			
MW-303D	Dec-00							-0.005	53.9				1.33	0.002	21	0.056						155			
MW-303D	Mar-01							0.005	44.2				0.845	-0.001	18.5	0.026						146			
MW-303D	Jun-01	0.215	0.050	0.006	0.388	-0.002	0.362	0.005	42.1	0.010	-0.010	0.017	1.15	0.004	17.4	0.043	0.0002	0.012	7.8	-0.002	-0.010	162	0.001	-0.010	-0.020
MW-303D	Sep-01							-0.005	49.5				1.07	0.007	19.5	0.05						157			
MW-303D	Dec-01							0.005	44.6				1	0.001	18.9	0.036						147			
MW-303D	Mar-02							0.005	46.8				0.878	0.004	18.9	0.026						143			
MW-303D	Jun-02							0.005	46.3				0.886	0.005	18.7	0.077						149			
MW-303D	Sept-02	0.075	-0.050	0.007	0.035	-0.002	0.382	-0.005	48.1	-0.010	-0.0100	0.017	0.944	0.002	19.2	0.139	-0.0002	0.012	4.91	0.001	0.010	146	-0.001	0.010	0.020
MW-303D	Dec-02							0.001	51.1				0.907	-0.001	21.2	0.03						133			
MW-303D	Apr-04	0.128	0.050	0.006	0.037	0.002	0.375	0.001	46.3	0.002	0.010	0.017	0.979	0.001	18.2	0.024	0.0002	0.012	5.36	0.002	-0.010	160	0.001	-0.010	0.02
MW-303D	Jun-05	0.0881	0.0025	0.0055	0.0316	-0.0004	0.367	-0.00080	47.5	0.0011	-0.0019	0.0067	0.428	0.0024	19.2	0.0309	-0.00016	0.0044	8.59	-0.0039	0.0014	169	-0.0029	-0.002	0.0479
MW-303D	Sep-06	0.200	0.060	0.005	0.200	0.005	0.33	0.005	44	0.010	0.020	0.025	0.28	0.005	18	0.031	0.0002	0.040	12	0.010	0.010	170	-0.010	0.050	0.051
MW-303D	Dec-07	0.32	0.01	0.023	0.2	0.01	0.5	0.01	57	0.01	0.01	0.01	1.1	0.01	23	0.06	0.002	-0.01	7.4	0.13	0.01	173	-0.01	-0.01	0.052
MW-303D	Nov-04							0.010	325				44.3	0.005	53.8	7.99						55.1			
MW-303D	March-95							0.010	185				36.1	0.014	45	4.94						25			
MW-303D	June-95							0.010	190				1.23	-0.005	42	4.2						3.99			
MW-303D	Sept-95							0.010	187				33.4	0.007	52.8	3.62						29.1			
MW-303D	Nov-95	6.55	0.060	-0.026	0.58	0.010		0.010	174	0.020		0.049	33.7	-0.005	47.9	4.06	-0.001	-0.040	6.13	0.005	0.020	33.7	0.005		0.14
MW-303D	April-96	20	0.12	0.01	0.2	0.003	1	-0.002	240	0.044		0.064	59	0.035	26	4.8	0.0002	0.049	5.9	0.12	-0.01	30	0.03		0.2
MW-303D	June-96							0.01	240				61	0.022	31	4.4						30			
MW-303D	Sept-96							0.01	230				82	-0.007	38	4.3						26			
MW-303D	Nov-96							-0.01	220				80	0.004	29	6.1						25			
MW-303D	Aug-99	-4.6	0.02	0.02	0.06	0.02	0.36	0.02	43	0.02	0.02	0.02	8.1	0.02	20	0.03	-0.001	0.02	5.6	-0.02	-0.01	160	-0.03	-0.02	0.02
MW-303D	Feb-11	0.098	0.005	0.004	0.033	0.001	0.37	0.001	50	0.015	0.003	0.003	0.602	0.002	18.9	0.029	-0.00015	0.006	4.5	0.010	-0.001	168	-0.002		0.034
MW-303D	Apr-12	0.11	0.0068	0.0036	0.035	0.00040	0.4	0.00068	50	0.0049	0.0031	0.0031	0.44	0.0030	19	0.034	0.00012	0.0046	4	0.0087	0.0017	180	-0.010		0.036
MW-303D	Jul-13	0.16	0.0068	0.011	0.039	0.0030	0.38	0.0050	50	0.0036	0.0033	0.0033	0.51	0.0036	18	0.04	-0.00012	0.0072	4.4	-0.0087	0.0017	180	-0.010		0.061
MW-303S	March-97	14	0.06	0.01	0.2	0.01	1	-0.01	210	0.026		0.05	45	0.038	31	3.4	0.0094	0.037	10	0.05	-0.01	18	0.03		0.16
MW-303S	June-97							-0.01	250				83	0.07	38	4.3						17			
MW-303S	Sept-97							0.01	230				96	0.079	59	4.3						26			
MW-303S	Dec-97							-0.01	250				150	0.15	78	5.3						29			
MW-303S	Mar-98							-0.01	210				100	-0.058	63	5.1	-0.0002	0.064	12	0.05	-0.01	19	-0.01	0.037	0.2
MW-303S	June-98	25	0.06	0.004	0.26	0.01	1	0.01	180	0.061	0.037	0.086	68	0.052	49	3.7					18				
MW-303S	Sept-98							-0.01	270				160	0.12	75	5.2						15			
MW-303S	Dec-98							0.01	390				350	0.2	110	10						23			
MW-303S	Apr-99							-0.01	260				170	0.094	68	5.2						22			
MW-303S	Jun-99							0.01	320				210	0.085	78	5.6						24			
MW-303S	Sept-99							0.012	350				230	0.1	91	6.7						28			
MW-303S	Dec-99	40	0.01	0.17	0.69	-0.01	5	0.017	320	0.091	0.06	0.22	120	0.11	74	5.5	0.00047	0.11	13	-0.01	0.01	22	-0.01	0.062	0.34
MW-303S	Apr-00	6.97	0.050	0.007	0.135	0.002	0.088	-0.0050	200	0.011	0.013	0.047	17.6	0.008	37.4	3.70	-0.0002	0.020	5.89	0.002	-0.010	15.6	0.001	0.015	0.1
MW-303S	Jun-00							-0.0050	188				12.8	0.008	34.4	1.85						16.2			
MW-303S	Sep-00							0.005	161				15.1	0.001	29.7	3.18						14.4			
MW-303S	Dec-00							0.005	192				24	0.008	35.4	2.94						14.2			
MW-303S	Mar-01							0.005	180				17.7	0.002	33	3.86						15.3			
MW-303S	Jun-01	0.504	-0.050	0.013	0.146	0.002	-0.055	-0.005	169	0.010	-0.010	-0.017	20.6	0.002	33.3	2.98	0.0002	0.018	5.81	-0.002	0.010	14.5	-0.001	0.010	-0.020
MW-303S	Sept-01							-0.005	160				34.3	0.004	31.1	2.31						14.3			
MW-303S	Dec-01							-0.005	177				27.7	0.005	35.3	2.33						15.6			
MW-303S	Mar-02							-0.005	182				28.3	0.005	34.5	2.26						14.6			
MW-303S	Jun-02							-0.005																	

TABLE 12 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
Class GW Qual. Std's & Glab. Val.		0.05	0.015	0.05	1	0.001	1	0.005	0.05	0.05	0.2	0.3	0.025	15	0.3	0.001	0.1		0.01	0.05	10	0.005		1
MW-3035	Feb-11	0.002	0.005	0.007	0.149	0.001	<0.05	<0.001	150	0.002	0.011	19.7	0.004	22.7	1.7	<0.0002	0.01	2.6	<0.010	<0.001	13.2	<0.002		0.168
MW-3035	Apr-12	0.14	0.02	0.0068	0.1	<0.002	0.022	<0.001	130	<0.004	0.0022	9.8	<0.005	18	2	<0.0002	0.0022	1.9	<0.015	<0.001	12	<0.02		0.025
MW-3035	Jul-13	1.3	0.0268	0.0059	0.1	<0.0030	0.02	<0.0050	120	0.003	0.016	8.4	0.0047	16	1.8	<0.0012	0.0061	2.4	<0.0087	<0.0017	12	<0.010		0.054
MW-3041D	March-97	0.2	0.06	0.01	0.2	0.01	1	<0.01	140	<0.01	0.02	6.1	<0.01	25	0.69	<0.0094	<0.01	4.8	<0.05	<0.01	29	<0.03		0.22
MW-3041D	June-97							<0.01	140			6.2	<0.01	31	0.77			4.4			70			
MW-3041D	Sept-97							<0.01	130			6	0.022	30	0.68			3.8			39			
MW-3041D	Dec-97							<0.01	140			6.3	<0.01	32	0.73			4.3			44			
MW-3041D	Mar-98							<0.01	120			5.8	<0.01	29	0.68			3.9			42			
MW-3041D	June-98	0.15	0.06	0.01	0.21	<0.01	<1	<0.01	130	<0.01	0.01	7	<0.01	33	0.83	<0.0002	<0.01	5.2	<0.05	<0.01	42	<0.03	<0.03	0.054
MW-3041D	Sept-98							<0.01	120			6.8	<0.01	31	0.94			5			39			
MW-3041D	Dec-98							0.01	82			11	<0.01	22	0.19			<1			46			
MW-3041D	Apr-99							<0.01	110			6.8	<0.01	27	0.61			3.3			28			
MW-3041D	Jun-99							<0.01	170			10	<0.01	40	1			4.9			48			
MW-3041D	Sept-99							<0.01	150			8.8	<0.01	36	0.84			5.3			42			
MW-3041D	Dec-99	0.22	0.01	0.01	0.2	0.01	5	<0.01	130	0.01	<0.01	7.2	<0.01	34	0.68	<0.0002	<0.01	4.6	0.036	0.01	40	<0.01	<0.01	0.018
MW-3041D	Apr-00	0.075	0.050	0.022	0.213	0.002	0.101	<0.0050	130	<0.010	0.010	7.39	<0.001	31.4	0.7	<0.0002	<0.012	3.89	<0.002	<0.010	35.2	<0.001	<0.010	0.038
MW-3041D	Jun-00							<0.0050	81.3			4.1	0.003	25.6	0.42			4.04			37.7			
MW-3041D	Sep-00							<0.005	163			6.11	0.002	26.1	0.456			3.61			33.7			
MW-3041D	Dec-00							<0.005	64.3			0.922	<0.001	19.6	0.041			2.51			40.3			
MW-3041D	Mar-01							<0.005	143			9.35	<0.001	32.5	0.899			4.02			29.1			
MW-3041D	Jun-01	0.082	0.050	0.015	0.2	<0.002	0.075	<0.005	119	<0.010	<0.010	7.6	0.01	29.7	0.666	0.0002	<0.012	4.32	<0.002	<0.010	32.4	<0.001	<0.010	0.020
MW-3041D	Sep-01							<0.005	94.8			5.01	0.002	25.4	0.365			3.53			38.9			
MW-3041D	Dec-01							0.005	70.6			2.09	0.001	19.6	0.129			3.11			38.8			
MW-3041D	Mar-02							<0.005	67.9			1.8	0.002	17.8	0.138			2.72			36.1			
MW-3041D	Jun-02							<0.005	88.2			4.27	0.003	23.2	0.332			2.97			34.5			
MW-3041D	Sept-02	0.075	0.050	0.011	0.057	0.002	0.068	<0.005	60.6	0.010	<0.010	1.66	0.002	18	0.065	<0.0002	0.013	3.02	0.001	0.010	37.5	<0.001	<0.010	0.020
MW-3041D	Dec-02							0.001	58.9			0.87	<0.001	18.6	0.951			2.15			34.1			
MW-3041D	Apr-04	0.1	0.050	0.008	0.055	<0.002	0.1	0.002	55.3	0.002	0.010	0.731	<0.001	15.5	0.972	<0.0002	0.012	2.99	0.001	<0.010	35	<0.001	0.010	0.024
MW-3041D	Jun-05	0.14	0.0225	0.0209	0.0517	0.00040	0.0321	0.00087	58.3	0.0013	<0.0019	1.37	0.0021	17.1	0.0279	<0.00016	0.0023	3.35	0.0039	0.003	33.9	<0.0029	0.002	0.0999
MW-3041D	Sep-06	0.41	0.060	0.005	0.200	0.005	0.063	<0.005	99	<0.010	<0.050	4.5	<0.005	24	0.55	<0.0002	0.040	7.1	<0.010	<0.010	37	<0.010	<0.050	0.031
MW-3041D	Dec-07	4	0.01	0.051	0.21	0.01	0.5	0.01	130	0.01	0.01	15	0.012	33	0.74	<0.0002	0.01	6	0.33	<0.01	28	0.01	<0.01	0.18
MW-3041D	Nov-94							0.010	157			21.2	<0.005	24.6	2.49			3			21.1			
MW-3041D	March-95							0.010	206			26.7	0.017	47.5	3.34			3.74			21			
MW-3041D	June-95							0.010	214			17.5	0.01	44.6	3.44			2.72			18.6			
MW-3041D	Sept-95							0.010	218			80.4	0.042	73.2	5.4			8.36			26.1			
MW-3041D	Nov-95	1.52	0.060	0.020	0.6	0.016	1	0.010	188	0.020	0.074	14.2	<0.005	48.6	1.01	0.001	<0.040	3.29	0.005	<0.020	32	<0.005		0.16
MW-3041D	Apr-96	53	0.21	0.01	0.46	0.015	1	<0.005	360	0.26	0.27	130	0.11	28	7.2	<0.0002	0.16	9	0.22	0.018	26	<0.03		0.55
MW-3041D	June-96							0.01	320			140	0.01	35	7.7			14			23			
MW-3041D	Sept-96							<0.01	240			66	0.043	36	4.7			6.4			22			
MW-3041D	Nov-96							0.01	310			160	0.2	31	9.2			13			22			
MW-3041D	Aug-99	0.12	0.02	0.02	0.2	0.02	0.1	0.02	110	0.02	0.02	6.5	<0.02	26	0.78	0.001	0.02	3.4	<0.02	0.01	25	<0.02	<0.02	0.02
MW-3041D	Feb-11	0.279	0.005	0.004	0.301	0.001	0.05	0.001	137	0.001	0.003	10.5	<0.002	28.8	0.964	0.0002	0.002	4.1	<0.010	0.001	35.4	<0.002		0.041
MW-3041D	Apr-12	1.2	0.0070	0.016	0.029	0.00012	0.067	0.0006	130	0.004	0.0016	9.1	<0.0012	27	0.98	0.00014	0.0025	4.5	<0.0009	<0.0019	23	<0.012		0.066
MW-3041D	Jul-13	0.46	0.0068	0.008	0.28	0.0030	0.58	<0.0050	120	0.0015	0.003	7.9	<0.0030	26	0.87	<0.00012	0.0029	4.1	<0.0087	<0.0017	23	<0.010		0.047
MW-3048	March-97	21	0.06	0.01	0.32	0.01	1	0.01	240	0.11	0.099	58	0.052	31	5	0.0004	0.09	9.1	<0.05	0.01	16	0.03		0.33
MW-3048	June-97							<0.01	310			130	0.11	78	7.6			11			19			
MW-3048	Sept-97							<0.01	290			110	0.047	69	6.8			12			24			
MW-3048	Dec-97							<0.01	240			130	0.12	78	7.7			15			31			
MW-3048	Mar-98							0.01	260			100	0.077	65	6.3			12			24			
MW-3048	June-98	20	0.06	0.028	0.34	0.01	1	0.01	220	0.11	0.1	59	0.047	33	5.1	0.0002	0.068	8.1	0.05	0.01	22	<0.03	0.032	0.18
MW-3048	Sept-98							<0.01	380			250	0.14	130	9.7			23			31			
MW-3048	Dec-98							<0.01	350			320	0.12	100	11			3.9			21			
MW-3048	Apr-99							<0.01	370			280	0.16	100	11			14			21			
MW-3048	Jun-99							<0.01	370			180	<0.01	82	8.4			8.5			25			
MW-3048	Sept-																							

TABLE 12 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Hg (mg/l)	Be (mg/l)	B (mg/l)	Cl (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
Class GA GW Qual Std's & Cond. Val.			0.003	0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	25	0.2	0.001	0.1		0.01	0.05	10	0.0005		1
MW-304S	Nov-94							-0.010	290				30.4	-0.005	62.7	4.1			8.69			159			
MW-304S	March-95							0.010	327				24.8	0.018	103	2.62			7.06			220			
MW-304S	June-95							-0.010	133				3.74	0.011	35.5	1.31						89.1			
MW-304S	Sept - 95							-0.010	180				39	0.018	65.6	0.11			9.32			242			
MW-304S	Nov-95	23.8	0.060	0.020	0.53	0.010		0.010	129	0.026		0.096	43.2	-0.005	54.1	1.5	<0.001	-0.040	8.58	-0.005	-0.020	219	<0.005		0.26
MW-304S	April-96	93	0.3	0.01	0.5	0.002	1	0.009	290	0.13		0.28	170	0.16	29	6.1	0.00021	0.2	15	0.31	0.014	150	-0.04		0.69
MW-304S	June-96							-0.01	240				100	0.095	34	4.4			13			150			
MW-304S	Sept-96							-0.01	200				110	0.098	49	3.8			13			150			
MW-304S	Nov-96							-0.01	200				120	0.11	29	4.6			13			149			
MW-304S	Aug-99	13	0.02	0.02	0.4	-0.02	-0.1	-0.02	141	0.04	0.02	0.06	35	0.02	31	3.3	-0.001	0.04	5.8	-0.02	-0.01	16	0.04	-0.02	0.08
MW-304S	Feb-11	14	0.005	0.004	0.406	0.001	-0.05	-0.001	147	0.065		0.085	47.6	-0.002	30.6	2.55	-0.0002	0.076	5	<0.010	<0.010	215	<0.002		0.153
MW-304S	Apr-12	3.1	0.0070	0.0056	0.34	0.00032	0.039	0.00052	120	0.013		0.232	57	0.008	22	2.6	-0.0014	0.111	3.1	-0.0089	-0.0019	33	<0.012		0.026
MW-304S	Jul-13	9.2	0.0068	0.0083	0.33	0.00039	0.037	0.00078	110	0.03		0.03	26	0.0097	22	2.5	-0.00012	0.023	5.3	-0.0087	-0.0017	22	<0.010		0.07
MW-304VS	March-97	24	0.12	0.01	0.24	-0.01	-1	-0.01	220	0.036		0.074	47	0.037	52	2.9	-0.0004	0.054	11	-0.05	-0.01	100	<0.03		0.24
MW-304VS	June-97							-0.01	370				160	0.15	100	6.4			22			140			
MW-304VS	Sept-97							0.01	310				150	0.15	96	6.8			27			210			
MW-304VS	Dec-97							0.01	280				160	0.16	98	7			20			200			
MW-304VS	Mar-98							-0.01	170				110	0.091	38	4.3			16			190			
MW-304VS	June-98	51	0.06	0.031	0.12	0.01	-1	-0.01	150	0.063	0.050	0.2	92	0.089	51	3.6	-0.0002	0.12	17	-0.05	0.01	190	-0.03	0.087	0.44
MW-304VS	Sept-98							Location Not Sampled																	
MW-304VS	Dec-98							0.013	210				160	0.11	77	6.6			5.2			149			
MW-304VS	Apr-99							-0.01	140				83	0.057	46	4.1			7.5			160			
MW-304VS	Jun-99							0.011	180				130	0.094	55	4.3			8.4			230			
MW-304VS	Sept-99							-0.01	140				76	0.021	42	3.3			11			200			
MW-304VS	Dec-99	36	0.01	0.06	2	-0.01	-5	-0.01	210	0.031	0.057	0.21	77	0.076	39	5.7	0.00037	0.11	9.4	-0.01	-0.01	220	-0.01	0.051	0.25
MW-304VS	Apr-00	6.68	0.050	0.002	0.179	0.002	-0.048	-0.0050	247	-0.010	0.015	0.035	10.5	0.007	54.2	5.09	0.0002	0.041	4.75	-0.002	-0.010	187	-0.001	-0.016	0.053
MW-304VS	June-00							-0.0050	297				0.615	0.008	53.4	4.6			4.74			224			
MW-304VS	Sept-00							0.005	197				2.44	0.007	33.5	3.21			4.28			203			
MW-304VS	Dec-00							0.005	166				4.31	0.004	29.3	3.1			2.9			176			
MW-304VS	Mar-01							-0.005	128				16.2	0.11	26.1	3.16			4.26			170			
MW-304VS	Jun-01	15.8	0.059	0.006	0.168	0.002	0.048	-0.005	152	0.011	0.02	0.053	28.7	0.016	31.6	3.01	<0.0002	0.059	5.86	-0.002	0.010	216	-0.001	0.025	0.092
MW-304VS	Sept-01							0.005	196				81.3	0.043	50.9	4.53			8.63			329			
MW-304VS	Dec-01							0.008	152				36.1	0.007	31.6	2.2			7.57			218			
MW-304VS	Mar-02							-0.005	141				10.6	0.007	27.5	3.58			3.19			179			
MW-304VS	Jun-02							0.005	101				6.16	0.005	18.4	1.48			3.28			195			
MW-304VS	Sept-02	7.82	0.050	0.003	0.125	0.002	0.07	0.005	113	0.016	0.01	0.043	11.9	0.012	21.5	1.98	0.0002	0.037	4.29	-0.001	-0.010	187	-0.001	0.013	0.06
MW-304VS	Dec-02							0.001	133				26.8	0.013	32.7	4.03			5.93			170			
MW-304VS	Apr-04	0.1	0.050	0.001	0.047	0.002	-0.048	0.001	78.1	-0.002	-0.010	0.017	0.086	0.001	10.6	0.147	-0.0002	0.012	2.42	-0.001	-0.010	160	0.001	-0.010	0.020
MW-304VS	Jun-05																								
MW-304VS	Sept-06	10	0.060	0.0076	0.200	0.005	-0.050	-0.005	160	0.015	0.050	0.065	15	0.01	24	5	-0.0002	0.040	9.6	0.010	0.010	160	-0.010	0.050	0.11
MW-304VS	Dec-07	3.9	0.01	0.01	0.2	0.01	0.5	-0.01	200	0.01	0.01	0.026	6.9	-0.01	27	6.9	-0.0002	0.016	5.5	0.05	0.01	250	-0.01	0.01	0.04
MW-304VS	Aug-09	9.6	0.02	0.02	0.23	0.02	0.1	0.02	225	-0.02	0.02	0.05	12	0.02	26	4.5	-0.001	0.03	5.8	-0.02	0.01	357	0.07	-0.02	0.04
MW-304VS	1 Feb-11	6.41	0.005	0.010	0.326	0.001	0.05	0.001	196	0.006		0.029	18.8	0.020	11.6	8.20	-0.0002	0.021	4.7	-0.010	0.010	536	0.002		0.057
MW-304VS	Apr-12	24	0.0068	0.0088	0.29	0.0012	0.037	0.0024	89	0.026		0.075	27	-0.028	17	4.7	-0.00012	0.019	7.7	0.0099	-0.0017	320	-0.019		0.11
MW-304VS	Jul-13	38	0.0068	0.014	0.4	0.002	0.045	0.0046	110	0.048		0.11	55	0.046	30	6.4	-0.00012	0.067	11	-0.0087	0.0017	240	0.010		0.21

TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual. Std's & Guid. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-230S	Nov-89	2.96	6.41		0.007		47.5	90	288	0.13	<0.10	10	<5	<0.005	<0.01		
MW-230S	Feb-90	8.48			0.011		49.3	2.52	281	0.06		2	<5			100	
MW-230S	Apr-90	9.34			<0.005		58.2	57	306	<0.01		11	10			0.33	
MW-230S	Nov-90	9.3	7.90	7.3	<0.010	124.2	54	690	286	0.14	<0.1	4.5	10	<0.004	0.024	0.5	
MW-230S	Feb-91	15	8.10	8.32	<0.010	124.7	51	210	353	0.22	<0.04						
MW-230S	May-91	<3	7.90	7.74	<0.010	312.1	53	340	329	0.07	<0.04						
MW-230S	Aug-91	10.4	8.00	9.08	<0.010	198.1	51.8	120	318	<0.03	<0.04						
MW-230S	Nov-91	<1.0		7.68	<0.010	239.3	111	250	284	0.06	<0.04						
MW-230S	Feb-92	6		7.83	<0.010	271.9	<2.0	240	302	0.18	0.05	1	<5	<0.010	<0.004	<0.5	
MW-230S	May-92	<1.0		7.66	<0.010	272.9	46.6	210	276	<0.04	0.08						
MW-230S	Aug-92	<1.0		7.86	<0.010	263.4	72.8	114	316	<0.04	0.02						
MW-230S	Dec-92	<1.0		7.76	<0.010	244.3	63.2	168	308	<0.02	<0.02						
MW-230S	Feb-93	19		7.81	<0.010	108.3	48.5	430	340	0.14	0.09						
MW-230S	May-93	6		7.53	<0.010	204.6	73.8	120	276	0.05	<0.02	0.8	<5	<0.004	<0.004	<0.5	
MW-230S	Aug-93	<1.0		6.91	<0.010	135	71.3	310	320	<0.02	<0.02						
MW-230S	Dec-93	2		7.17	<0.010	200.3	47.9	140	328	<0.02	0.04						
MW-230S	Feb-94	<1.0		7.76	<0.010	78.5	51.1	215	240	<0.02	<0.05	<2.0				<0.5	0.83
MW-230S	May-94	13		7.96	<0.010	33.6	49.1	170	272	0.03	0.08	<2.0				<0.5	0.73
MW-230S	Aug-94	<1		7.69	<0.010	39.5	57	34	280	0.06	0.12	<2.0	15	<0.004	<0.004	<0.5	2.16
MW-230S	Nov-94	4		8.12	<0.010	55.2	52.9	61	152	<0.02	0.25	<2.0				<0.5	3.35
MW-230S	March-95	8		7.28	<0.010	52	49	108	272	0.18	0.42	<2				<0.5	<0.2
MW-230S	June-95	<1		7.44	<0.010	37.3	44.5	2.5	308	0.26	0.23	<2				<0.5	<0.2
MW-230S	Sept-95	25		7.48	<0.010	31.5	45.2	150	312	0.06	<0.05	<2				<0.5	<0.2
MW-230S	Nov-95	<1		7.91	<0.010	38.8	47.7	54	284	0.11	<0.05	<2	<5	<0.004	<0.004	<0.5	<0.2
MW-230S	April-96	<1		8	<0.002	240	110	>900	310	0.071	0.036	<4	250	<0.01	<0.01	0.6	3
MW-230S	June-96	<1		7.7	<0.002	180	32	660	270	0.16	<0.02	<4				4.4	<2
MW-230S	Sept-96	1		8	<0.002	180	42	340	240	<0.03	0.022	<4				0.53	<2
MW-230S	Nov-96	13		8.16	<0.002	175	<4	170	180	0.19	0.11	<4				1.1	<2
MW-230S	March-97	1.9		8	<0.002	95	48	>999	140	0.4	0.077	<4	15	<0.01	<0.01	0.95	<2
MW-230S	June-97	1.9		8.35	<0.002	240	30	213	160	<0.03	0.64	<4				0.86	<2
MW-230S	Sept-97	2.5		8.5	<0.002	420	42	87	190	0.67	0.33	<4				1.3	<2
MW-230S	Dec-97	1.8		8.64	<0.002	110	41	687	200	0.41	0.2	11				0.75	<2
MW-230S	Mar-98	<1		8.34	<0.002	245	38	255	240	0.1	0.26	<4				0.37	<2
MW-230S	June-98	1.4		8.3	<0.002	10	37	804	210	<0.03	0.53	<4	20	<0.01	<0.01	0.21	<1
MW-230S	Sept-98	1.6		8.09	<0.002	-75	32	>999	240	0.11	0.37	<4				0.43	<1
MW-230S	Dec-98	1.4		7.38	<0.002	-20	30	384	250	<0.03	0.37	4				0.27	<1
MW-230S	Apr-99																
MW-230S	Jun-99																
MW-230S	Sept-99																
MW-230S	Dec-99	<1		8.6	<0.002	135	37	>999	240	<0.03	0.089	<4	1	<0.01	<0.03	0.25	<1
MW-230S	Apr-00	1.1		8.05	0.005	-94	45	550	222	0.104	0.393	<3	50	<0.01	<0.01	<1	<1
MW-230S	Jun-00																
MW-230S	Sep-00																
MW-230S	Dec-00																
MW-230S	Mar-01																
MW-230S	Jun-01	2.2		8.24	<0.004	82	41.9	45	296	0.122	<0.1	<3	100	<0.01		<1	<1
MW-230S	Sept-01																
MW-230S	Dec-01																
MW-230S	Mar-02																
MW-230S	Jun-02																
MW-230S	Sept-02	<1		7.87	<0.004	178.5	39.6	66	275	0.115	<0.1	<3	5	<0.005	<0.01	<1	<1
MW-230S	Dec-02																
MW-230S	Apr-04	<1.0		8.09	<0.004	211	34.5	171	273	<0.10	<0.1	<3	10	<0.005	<0.01	<1	<1
MW-230S	Jun-05	1.48		7.47	0.021	109	39.3	21	226	<1.00	0.91	<4.00	15	<0.0100	<0.010	<1.00	<1.00
MW-230S	Sep-06	<1.0		8.09	<0.010	225	52	100	310	<1.0	<0.25	<4.0	20	<0.010	<0.010	<1.0	<1.0



TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual Std's & Guid. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-230D	Sept-02	<1		7.81	<0.004	165.3	13.6	2.3	187	<0.1	<0.1	<3	<5	<0.005	<0.01	<1	<1
MW-230D	Dec-02																
MW-230D	Apr-04	<1.0		8.12	<0.004	104	12.7	17.1	143	0.366	<0.1	<3	<5	<0.005	<0.01	<1	<1
MW-230D	Jun-05	1.1		8.02	<0.0100	82	11.5	14	164	1.4	<0.200	<4.00	15	<0.0100	<0.010	<1.00	<1.00
MW-230D	Sep-06	2		8.7	0.036	230	130	15	1300	1	<0.25	<4.0	150	<0.010	<0.010	1.3	5.5
MW-230D	Dec-07	1.7		7.41	<0.003	295	5.5	0	190	<0.03	0.36	<4.0	10	<0.01	<0.01	0.23	<0.1
MW-230D	Aug-09	<1		7.66	<0.010	39	13.4	27.2	162	0.08	<0.05	<2	2	<0.005	<0.004	<0.5	<0.1
MW-232S	Nov-89	1.29	7.35		0.011		75.4	199	236	0.07	<0.01	12	<5	<0.005	<0.01		
MW-232S	Feb-90	0.58			<0.005		33.6	5.34	217	0.1		6	5			99	
MW-232S	Apr-90	2.98	7.60		<0.005	-29.5	38.9	32	206	<0.04		6	10			0.2	
MW-232S	Nov-90	6.1	7.80	8.6	<0.010	218.4	72	120	232	0.06	<0.1	1.1	15	<0.004	0.02	<0.5	
MW-232S	Feb-91	3	7.40	8.19	<0.010	176.5	118	130	317	<0.04	<0.04						
MW-232S	May-91	<3	7.80	7.61	<0.010	240.5	57.6	162	260	<0.03	<0.04						
MW-232S	Aug-91	8.2	7.70	8.04	<0.010	207.1	74	145	360	<0.03	<0.04						
MW-232S	Nov-91	<1.0		7.35	<0.010	179.6	52	600	276	<0.02	<0.04						
MW-232S	Feb-92	4		7.41	<0.010	178.5	85.9	360	380	<0.02	0.05	1.2	<5	<0.010	<0.004	<0.5	
MW-232S	May-92	<1.0		7.21	<0.010	336.6	105	61	416	<0.04	0.08	2.1	10	0.016	<0.004	0.04	
MW-232S	Aug-92	<1.0		7.43	<0.010	225.4	86.6	57	380	<0.04	<0.02						
MW-232S	Dec-92	<1.0		7.41	<0.010	88.3	86.6	144	404	<0.02	<0.02						
MW-232S	Feb-93	20		7.33	<0.010	111.2	90	220	524	<0.02	0.04						
MW-232S	May-93	4		6.93	<0.010	142.9	90.5	45	476	<0.02	<0.02	1.6	<5	<0.004	<0.004	<0.5	
MW-232S	Aug-93	<1.0		6.67	<0.010	169.9	99	94	632	<0.02	<0.02						
MW-232S	Dec-93	22		7.02	<0.010	132.6	103	105	540	0.06	0.06						
MW-232S	Feb-93	52		7.04	<0.010	236.7	89.5	60	460	<0.02	<0.05	<2.0				<0.5	0.92
MW-232S	May-94	49		6.83	<0.010	103.2	58.6	31	548	<0.02	0.03	2				<0.5	0.87
MW-232S	Aug-94	<1		6.79	<0.010	74.5	47.5	12.4	572	<0.02	0.08	<2.0	20	<0.004	0.008	<0.5	2.5
MW-232S	Nov-94	19		6.98	<0.010	119.3	64.5	19	644	<0.02	0.11	<2.0				<0.5	3.92
MW-232S	March-95	29		7.08	<0.010	-38.8	81.3	32	544	0.21	0.34	<2				<0.5	0.4
MW-232S	June-95	<1		6.91	<0.010	26.1	67.5	33	652	0.24	0.25	<2				<0.5	<0.2
MW-232S	Sept-95	8		7.06	<0.010	21.6	88.4	50	744	0.12	0.05	<2				<0.5	<0.2
MW-232S	Nov-95	1		6.86	<0.010	2.3	107	71	576	<0.02	<0.05	<2	10	<0.004	<0.004	<0.5	<0.2
MW-232S	April-96	40		6.5	<0.002	180	64	59	780	0.035	0.025	11	100	<0.01	<0.01	1.1	3.1
MW-232S	June-96	1.4		6.7	0.0052	140	70	190	680	<0.03	<0.02	9.8				1.6	<2
MW-232S	Sept-96	1.1		6.6	<0.002	110	<5	7.6	660	<0.03	<0.02	9.1				0.35	<2
MW-232S	Nov-96	2.8		6.79	<0.002	110	42	34	590	<0.03	<0.02	7.1				0.56	<2
MW-232S	March-97	2.5		6.6	<0.002	145	56	>999	560	<0.03	<0.02	12	15	<0.01	<0.01	0.56	<2
MW-232S	June-97	2.5		6.72	0.0024	85	35	>999	610	<0.03	<0.02	16				0.43	<2
MW-232S	Sept-97	3.1		6.9	<0.002	80	54	1000	790	0.11	0.02	14				0.47	<2
MW-232S	Dec-97	3.1		7.05	<0.002	110	55	>999	620	<0.03	0.027	11				0.38	<2
MW-232S	Mar-98	1.7		7.73	<0.002	140	140	84	560	<0.03	<0.02	<4				0.4	<2
MW-232S	June-98	3.1		6.99	<0.002	-15	58	942	560	0.041	0.022	7.5	1	<0.01	<0.01	0.54	<1
MW-232S	Sept-98	4.1		6.71	<0.002	500	51	842	640	<0.03	<0.02	11				0.44	<1
MW-232S	Dec-98	4.2		7.62	<0.002	55	22	>999	660	<0.03	0.037	9.9				0.21	<1
MW-232S	Apr-99																
MW-232S	Jun-99																
MW-232S	Sept-99																
MW-232S	Dec-99																
MW-232S	Apr-00																
MW-232S	Jun-00	2.7		7.4	<0.004	-94	45	30.4	516	<0.1	<0.05	4				<1	<1
MW-232S	Sep-00	2.8		7.07	<0.004	-44	67	0.65	513	<0.1	<0.05	<3				<1	<1
MW-232S	Dec-00	2.8		7.18	<0.004	33	69	6.7	535	<0.1	<0.05	<3				<1	<1
MW-232S	Mar-01	2.4		7.4	<0.004	-39	28	3.7	490	<0.1	<0.05	<3				<1	<1
MW-232S	Jun-01	5.7		7.02	<0.004	-66	59.1	10	496	<0.1	<0.1	<3	125	<0.01		<1	<1
MW-232S	Sep-01	3.5		7.16	<0.004	26	59	5.45	521	<0.1	<0.1	<3				<1	<1
MW-232S	Dec-01	2.4		7.15	0.0043	9	63	54.5	520	<0.1	<0.1	<3				<1	<1



TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual. Std's & Guid. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-232D	Sep-01																
MW-232D	Dec-01																
MW-232D	Mar-02																
MW-232D	Jun-02																
MW-232D	Sept-02																
MW-232D	Dec-02																
MW-232D	Apr-04																
MW-232D	Jun-05																
MW-233S	Nov-89																
MW-233S	Feb-90																
MW-233S	Apr-90																
MW-233S	Nov-90	6.4		8.2	<0.010	-95.9	175	385	612	0.08	0.13	1.5	25	<0.004	0.021	0.53	
MW-233S	Feb-91	5		7.71	<0.010	180.9	104	140	576	<0.04	5.34						
MW-233S	May-91	10.2		6.95	<0.010	195.4	75	81	570	<0.03	2.8						
MW-233S	Aug-91	<3.0		6.6	<0.010	284	126	66	794	<0.03	3.53						
MW-233S	Nov-91	<1		6.99	<0.010	371.8	116	70	534	<0.02	0.44						
MW-233S	Feb-92	13		7.48	<0.010	201.7	149	68	1308	<0.02	0.64	1	<5	<0.010	<0.004	<0.5	
MW-233S	May-92	<1.0		7.13	<0.010	256.2	145	4.2	448	0.1	2.35						
MW-233S	Aug-92	<1		6.94	<0.010	329.5	162	1.4	732	<0.04	0.33						
MW-233S	Dec-92	<1		7.18	<0.010	176.6	144	30	720	<0.02	0.12						
MW-233S	Feb-93	74		6.77	<0.010	144.5	148	126	940	0.1	0.07						
MW-233S	May-93	4		6.65	<0.010	42.6	80.6	52	732	<0.02	<0.02	15.6	<5	<0.004	<0.004	<0.5	
MW-233S	Aug-93	<1.0		6.48	<0.010	-6.9	108	3	1040	<0.02	<0.02						
MW-233S	Dec-93	44		6.69	<0.010	140.1	183	36	988	0.64	3.44						
MW-233S	Feb-94	<1.0		7.64	<0.010	162.4	71.6	330	704	<0.02	<0.05	2.4				<0.5	1
MW-233S	May-94	62		6.68	0.064	-15.8	73.6	24	672	<0.02	0.12	10.2				<0.5	1
MW-233S	Aug-94	4		6.85	<0.010	84	99.4	9.6	548	0.06	0.08	2.2	10	<0.004	<0.004	<0.5	2.4
MW-233S	Nov-94	13		7.08	<0.010	123.8	62.8	11.4	548	<0.02	0.05	7.6				<0.5	3.28
MW-233S	Mar-95	<1		6.78	<0.010	33.9	243	23.2	1128	0.42	2.4	<2				0.95	<0.2
MW-233S	Jun-95	6		6.89	<0.010	48.2	189	27	1032	0.58	1.29	<2				<0.5	<0.2
MW-233S	Sep-95	5		7.06	<0.010	29.9	140	24	840	0.56	0.1	<2				<0.5	<0.2
MW-233S	Nov-95	<1		6.79	<0.010	84.7	130	17	716	<0.02	3.06	<2	5	<0.004	<0.004	<0.5	<0.2
MW-233S	Apr-96	2.8		7	<0.002	-55	21	88	340	<0.03	<0.02	10	50	<0.01	<0.01	1.3	3.7
MW-233S	Jun-96	1.8		7.2	<0.002	85	110	50	480	<0.03	<0.02	7.8				2	<2
MW-233S	Sep-96	15		6.6	<0.002	55	<5	10	600	<0.03	<0.02	4.9				0.71	<2
MW-233S	Nov-96	4.3		7.96	<0.002	190	27	12	560	<0.03	0.027	4.3				0.91	<2
MW-233S	Mar-97	3.4		6.5	<0.002	70	48	42	670	<0.03	<0.02	5.8	15	<0.01	<0.01	0.55	<2
MW-233S	Jun-97	4.3		6.69	0.0029	60	52	<1	700	<0.03	<0.02	8				0.89	<2
MW-233S	Sep-97	4		6.7	<0.002	-10	28	14	550	0.033	0.027	10				0.51	<2
MW-233S	Dec-97	4.6		7.98	<0.002	95	120	17	820	0.036	0.27	7				0.61	<2
MW-233S	Mar-98	4.1		7.64	<0.002	-40	53	>999	830	<0.03	0.61	4.6				0.62	<2
MW-233S	Jun-98	14		6.96	<0.002	-85	210	60	950	0.072	<0.02	17	50	<0.01	<0.01	1.5	<1
MW-233S	Sep-98	5.9		6.55	<0.002	-20	110	67	850	<0.03	<0.02	4.2				0.63	<1
MW-233S	Dec-98																
MW-233S	Apr-99																
MW-233S	Jun-99																
MW-233S	Sep-99																
MW-233S	Dec-99																
MW-233S	Apr-00																
MW-233S	Jun-00																
MW-233S	Sep-00																
MW-233S	Dec-00	5.6		7.29	<0.004	95	110	1.6	599	<0.1	5.97	<3				<1	<1
MW-233S	Mar-01	4.3		7.35	<0.004	63	170	1.8	711	<0.1	5.22	<3				<1	<1
MW-233S	Jun-01	6.1		7.06	0.0068	122	271	2.2	709	<0.1	8.87	<3	5	<0.01		<1	<1
MW-233S	Sep-01	3.6		7.11	<0.004	107	483	2.89	1080	<0.1	3.71	<3				<1	<1



TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual. Std's & Gmd. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-233S	Dec-01	3.8		6.89	<0.004	54	368	2.97	1050	<0.1	<0.1	<3				<1	<1
MW-233S	Mar-02	4.2		7.01	<0.004	45	435	6.72	971	<0.1	<0.1	<3				<1	<1
MW-233S	Jun-02	4.4		7.26	<0.004	62	562	1.4	1240	<0.1	<0.1	<3				<1	<1
MW-233S	Sept-02	3.5		7.17	<0.004	119.8	494	15	1200	<0.1	<0.1	<3	10	<0.005	<0.01	<1	<1
MW-233S	Dec-02	2.8		7.07	<0.004	17	509	0.91	1110	<0.1	<0.1	<3				<1	<1
MW-233S	Apr-04	3.6		8.41	<0.004	221	<5.0	6.9	570	0.411	13.8	<3	<5	<0.005	<0.01	<1	<1
MW-233S	Jun-05	3		8.12	<0.0100	142	33.7	8.7	372	<1.00	5.68	<4.00	15	<0.0100	<0.010	<1.00	<1.00
MW-233S	Jun-06																
MW-233S	Sep-06	4.1		8.01	<0.010	580	140	55	660	<1.0	12	<4.0	15	<0.010	<0.010	<1.0	<1.0
MW-233S	Dec-07	4.7		6.71	<0.003	255	82	12	590	<0.03	15	<4.0	10	<0.01	<0.01	0.72	<0.1
MW-233S	Aug-09	3.9		7.85	<0.010	73	59.4	17.1	450	0.03	10.4	<2	2	<0.005	<0.004	<0.5	<0.1
MW-233S	Feb-11	3		6.93	<0.005	211.8	110	18	520	0.2	1.6	<4.0	10	<0.01	<0.01	0.62	
MW-233S	Apr-12	2.5		7.17	0.053	42.3	99	3.03	580	<0.02	7.7	<2	<5.0	<0.01	<0.010	0.57	
MW-233S	Jul-13	2.9		7.19	0.0052	18	59	2.89/4	500	0.024	7.7	<2.0	10	<0.0050	<0.0050	<0.15	
MW-234S	Nov-89	7.19	7.66		0.005	-50.4	81.1	188	264	0.09	<0.10	19	<5	<0.005	0.02		
MW-234S	Feb-90	3.87			<0.005		77.9	94	321	0.09		13	30			0.96	
MW-234S	Apr-90	1.93	7.40		<0.005	-38.3	77.7	50	288	<0.04		3	10			0.07	
MW-234S	Nov-90	5.1	7.80	7.3	<0.010	132.5	83	81	312	0.06	<0.1	6.5	<5	<0.004	0.024	<0.5	
MW-234S	Feb-91	<3	7.70	7.97	<0.010	147.1	78	26	347	<0.04	<0.04						
MW-234S	May-91	3.1	7.70	7.36	<0.010	227	60.5	23	337	<0.03	0.13						
MW-234S	Aug-91	<3.0	7.80	7.68	<0.010	293.9	77.6	58	363	<0.03	<0.04						
MW-234S	Nov-91	<1		7.41	<0.010	323.6	85.1	40	328	<0.02	<0.04						
MW-234S	Feb-92	<1.0		7.29	<0.010	78.5	83	42	396	0.07	<0.02	0.6	<5	<0.010	<0.004	<0.5	
MW-234S	May-92	<1.0		7.74	<0.010	354.9	113	59	320	<0.04	0.02						
MW-234S	Aug-92	<1		7.51	<0.010	329.9	110	39	384	<0.04	0.14						
MW-234S	Dec-92	<1		7.83	<0.010	294.1	86.6	95	328	<0.02	<0.02						
MW-234S	Feb-93	18		7.3	<0.010	250.3	84	150	364	<0.02	0.02						
MW-234S	May-93	4		7.5	<0.010	207.1	88.1	84	324	<0.02	0.06	<0.5	<5	<0.004	<0.004	<0.5	
MW-234S	Aug-93	<1.0		7.32	<0.010	165.3	130	90	332	<0.02	<0.02						
MW-234S	Dec-93	6		7.09	<0.010	259.9	79.5	155	328	<0.02	0.09						
MW-234S	Feb-94	<1.0		7.88	<0.010	131.4	87.5	90	300	<0.02	<0.05	<2.0				<0.5	0.9
MW-234S	May-94	17		7.57	<0.010	210.8	95.7	67	360	0.02	0.14	<2.0	5	<0.004	<0.004	<0.50	0.84
MW-234S	Aug-94	<1		7.26	<0.010	39.7	105	10.4	352	0.1	0.22	<2.0				<0.5	2.22
MW-234S	Nov-94	5		7.47	<0.010	110.6	81.8	53	328	0.03	0.25	<2.0				<0.5	3.28
MW-234S	March-95	6		7.24	<0.010	36.8	154	47	424	0.31	0.2	<2				<0.5	<0.2
MW-234S	June-95	15		7.45	<0.010	1.8	84.2	62	400	0.41	0.24	<2				<0.5	<0.2
MW-234S	Sept-95	6		7.46	<0.010	48.9	97.2	42	380	0.07	0.06	<2				<0.5	<0.2
MW-234S	Nov-95	<1		7.28	<0.010	50	174	76	488	<0.02	<0.05	<2	10	<0.004	<0.004	<0.5	0.6
MW-234S	April-96	<1		6.7	<0.002	110	120	16	420	<0.03	0.086	<4	50	<0.01	<0.01	0.85	5.1
MW-234S	June-96	<1		7.4	<0.002	92	22	300	330	<0.03	<0.02	<4				1.8	<2
MW-234S	Sept-96	<1		7	0.0035	165	760	21	580	0.037	<0.02	<4				0.25	<2
MW-234S	Nov-96	1		7.5	<0.002	175	210	10	530	<0.03	<0.02	<4				0.53	<2
MW-234S	March-97	<1		6.9	<0.002	135	190	197	570	<0.03	<0.02	<4	15	<0.01	<0.01	0.39	<2
MW-234S	June-97	<1		7.5	<0.002	165	200	880	600	<0.03	<0.02	<4				0.33	
MW-234S	Sept-97	1.1		7.7	<0.002	160	200	140	530	<0.03	0.028	7				0.31	<2
MW-234S	Dec-97	1.7		7.65	<0.002	120	200	>999	450	0.074	<0.02	<4				0.21	<2
MW-234S	Mar-98	<1		8.01	<0.002	170	130	>999	610	0.042	<0.02	<4				0.47	<2
MW-234S	June-98	1.2		7.69	<0.002	45	200	337	530	0.055	0.026	<4	15	<0.01	<0.01	0.37	<1
MW-234S	Sept-98	1.3		7.28	<0.002	0.85	140	>999	520	<0.03	<0.02	<4				0.28	<1
MW-234S	Dec-98	1		7.38	<0.002	185	120	>999	380	<0.03	<0.02	6.9				0.34	<1
MW-234S	Apr-99	1.1		7.84	<0.002	130	150	>999	490	<0.03	<0.02	<4				0.86	<0.1
MW-234S	Jun-99	1.4		7.12	<0.002	215	140	>999	450	<0.03	0.02	<4				0.69	<0.1
MW-234S	Sept-99	1.1		7.1	<0.002	385	50	>999	430	<0.03	<0.02	<4				0.3	<0.1
MW-234S	Dec-99	1		8.15	<0.002	245	120	955	410	<0.3	<0.2	<4	1	<0.01	<0.03	0.3	<1
MW-234S	Apr-00	1.1		7.82	<0.004	-85	120	7.8	456	0.108	<0.05	<3	<10	<0.01	<0.01	<1	<1

TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual. Std's & Guid. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-234S	Jun-00	1.1		7.59	<0.004	-178	150	27.1	1550	<0.1	<0.05	<3				<1	<1
MW-234S	Sep-00	1.2		7.74	<0.004	-27	180	17	425	<0.1	<0.05	<3				6.22	<1
MW-234S	Dec-00	1.7		7.67	<0.004	95	120	6.3	435	<0.1	<0.05	<3				<1	<1
MW-234S	Mar-01	1.7		7.64	<0.004	51	140	3.7	444	<0.1	<0.05	<3				<1	<1
MW-234S	Jun-01	2.6		7.49	<0.004	2	131	2.6	417	<0.1	<0.1	<3	<5	<0.01		<1	<1
MW-234S	Sep-01	1.2		7.53	<0.004	-11	110	16.6	414	<0.1	<0.1	<3				<1	<1
MW-234S	Dec-01	<1		7.37	<0.004	9	102	27.6	376	<0.1	<0.1	<3				<1	<1
MW-234S	Mar-02	<1		7.55	<0.004	24	103	3.1	377	<0.1	<0.1	<3				<1	<1
MW-234S	Jun-02	1.9		7.69	<0.004	31	105	7.2	407	<0.1	<0.1	<3				<1	<1
MW-234S	Sept-02	<1		7.44	<0.004	198.7	106	7.8	418	<0.1	<0.1	<3	5	<0.005	<0.01	<1	<1
MW-234S	Dec-02	<1		7.68	<0.004	21	125	1.3	450	<0.1	<0.1	<3				<1	<1
MW-234S	Apr-04	1.1		8.07	<0.004	225	124	6.6	474	<0.10	<0.1	<3	<5	<0.005	<0.01	<1	<1
MW-234S	Jun-05	2.07		8.04	<0.0100	98	125	7.4	454	<1.00	0.28	<4.00	15	<0.0100	<0.010	<1.00	<1.00
MW-234S	Sep-06	1.7		7.87	<0.010	558	120	19.2	450	<1.0	<0.25	<4.0	20	<0.010	<0.010	0.31	<1.0
MW-234S	Dec-07	1.6		6.51	<0.003	240	58	10	390	<0.03	<0.1	<4.0	20	<0.01	<0.01	0.24	<0.1
MW-234S	Aug-09																
MW-234D	Nov-89	2.51	8.50		0.006	-95.6	51.9	27	174	0.11	0.3	10	<5	<0.005	<0.01		
MW-234D	Feb-90	2.36			<0.005		103	22	546	0.07		2	10			0.3	
MW-234D	Apr-90	8.63	8.63		<0.005	-93.7	88.5	30	361	<0.04		17	10			0.11	
MW-234D	Nov-90	5	7.70	7.2	<0.010	130.6	120	35	401	0.08	<0.1	7.4	10	<0.004	0.032	<0.5	
MW-234D	Feb-91	3.4	7.50	7.83	<0.010	115.4	98	17	448	<0.04	<0.04						
MW-234D	May-91	3.2	7.50	7.36	<0.010	222.9	78.5	12.5	437	0.03	0.13						
MW-234D	Aug-91	<3.0	7.80	7.56	<0.010	280.3	79.2	10	437	<0.03	<0.04						
MW-234D	Nov-91	<1		7.46	<0.010	303.6	90	4.1	364	<0.02	0.07						
MW-234D	Feb-92	<1.0		7.22	<0.010	79	90	19	364	0.06	<0.02	<0.5	<5	<0.010	<0.004	<0.5	
MW-234D	May-92	<1.0		7.44	<0.010	290.1	113	56	400	0.07	0.06						
MW-234D	Aug-92	<1		7.36	<0.010	315.2	106	4.3	420	<0.04	0.22						
MW-234D	Dec-92	<1		7.39	<0.010	37.9	96.8	38	456	0.05	<0.02						
MW-234D	Feb-93	12		7.26	<0.010	227.3	83	34.5	428	<0.02	<0.02						
MW-234D	May-93	7		7.36	<0.010	191	90.6	18	428	<0.02	<0.02	<0.5	<5	<0.004	<0.004	<0.5	
MW-234D	Aug-93	<1.0		7.2	<0.010	134.6	107	3	456	<0.02	<0.02						
MW-234D	Dec-93	<1.0		6.95	<0.010	276.4	86.8	23.5	416	<0.02	0.06						
MW-234D	Feb-94	<1.0		7.64	<0.010	157.6	86	26	388	<0.02	0.45	<2.0				<0.5	0.89
MW-234D	May-94	26		7.37	<0.010	238	97.6	6.9	440	0.22	0.12	<2.0				<0.50	0.92
MW-234D	Aug-94	<1		7.4	<0.010	85.2	115	9.2	480	0.06	0.34	2.2	5	<0.004	<0.004	<0.5	2.4
MW-234D	Nov-94	10		7.33	<0.010	127.4	89.3	11.2	500	0.03	0.21	<2.0				<0.5	3.42
MW-234D	March-95	4		7.22	<0.010	72.8	105	4.3	428	0.19	0.3	<2				<0.5	<0.2
MW-234D	June-95	11		7.24	<0.010	16	79	7.2	500	0.22	0.15	<2				<0.5	<0.2
MW-234D	Sept-95	<1		7.29	<0.010	31.7	99.4	7.8	520	0.07	<0.05	<2				<0.5	<0.2
MW-234D	Nov-95	<1		7.25	<0.010	54.6	91.9	18	456	<0.02	<0.05	<2	<5	<0.004	<0.004	<0.5	<0.2
MW-234D	April-96	2.3		7	<0.002	-35	83	150	340	<0.03	0.091	<4	10	<0.01	<0.01	1	3.2
MW-234D	June-96	<1		7.2	<0.002	78	84	24	520	<0.03	<0.02	<4				1.2	<2
MW-234D	Sept-96	1		7	0.0035	60	84	7.4	490	<0.03	<0.02	<4				0.34	<2
MW-234D	Nov-96	2.4		7.45	<0.002	160	91	11	380	<0.03	<0.02	<4				0.56	<2
MW-234D	March-97	1.1		7.4	<0.002	135	74	70	350	<0.03	0.092	<4	15	<0.01	<0.01	0.61	<2
MW-234D	June-97	1.7		7.68	0.0028	185	61	<1	340	<0.03	0.088	<4				0.5	<2
MW-234D	Sept-97	1.8		7.7	<0.002	155	63	25	350	<0.03	0.13	<4				0.2	<2
MW-234D	Dec-97	1.2		7.88	<0.002	130	60	33	290	0.032	0.052	<4				0.13	<2
MW-234D	Mar-98	1.2		7.91	<0.002	165	89	118	360	<0.03	0.12	<4				0.31	<2
MW-234D	June-98	1.6		7.32	<0.002	35	82	11.3	330	0.035	0.052	<4	1	<0.01	<0.01	0.45	<1
MW-234D	Sept-98	2.2		7.05	<0.002	65	66	144	550	<0.03	0.069	4.2				0.63	<1
MW-234D	Dec-98	3.1		7.07	<0.002	30	45	115	580	<0.03	<0.02	12				0.51	<1
MW-234D	Apr-99	1.5		6.31	<0.002	130	85	220	400	<0.03	0.05	<4				2.5	0.32
MW-234D	Jun-99	1.4		7.31	<0.002	210	77	140	330	<0.03	0.096	<4				0.38	0.23
MW-234D	Sept-99	1.7		7.91	0.0024	240	86	288	470	<0.03	<0.02	9.8				0.33	0.31

TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual. Std's & Guid. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-234D	Dec-99	1.4		8.24	<0.002	245	92	191	470	<0.03	<0.02	<4	5	<0.01	<0.03	0.26	0.24
MW-234D	Apr-00	1.2		7.75	<0.004	-74	76	23	352	0.178	0.138	<3	10	<0.01	<0.01	<1	<1
MW-234D	Jun-00	1.2		7.85	<0.004	-160	88	7.49	421	<0.1	<0.05	<3				<1	<1
MW-234D	Sep-00	1		7.44	0.005	-21	88	7.6	421	<0.1	<0.05	<3				<1	<1
MW-234D	Dec-00	<1		7.66	<0.004	48	70	5.3	425	<0.1	0.115	<3				<1	<1
MW-234D	Mar-01	2.2		7.54	0.0046	-23	78	1.8	358	<0.1	0.099	<3				<1	<1
MW-234D	Jun-01	2.8		7.35	<0.004	-63	102	1.7	429	<0.1	<0.1	<3	20	<0.01		<1	<1
MW-234D	Sep-01	1.1		7.39	<0.004	-55	102	8.82	468	<0.1	<0.1	<3				<1	<1
MW-234D	Dec-01	<1		7.29	<0.004	-13	91.7	6.58	451	<0.1	<0.1	<3				<1	<1
MW-234D	Mar-02	<1		7.12	<0.004	-5	90.6	1.2	436	<0.1	<0.1	<3				<1	<1
MW-234D	Jun-02	<1		7.59	0.005	-15	77.9	3	419	<0.1	<0.1	<3				<1	<1
MW-234D	Sept-02	<1		7.44	0.0067	57.3	88.1	1.6	458	<0.1	<0.1	<3	10	<0.005	<0.01	<1	<1
MW-234D	Dec-02	<1		7.48	<0.004	1.5	94	0.9	462	<0.1	<0.1	<3				<1	<1
MW-234D	Apr-04	1.1		7.96	<0.004	189	105	3.2	463	<0.10	<0.1	<3	<5	<0.005	<0.01	<1	<1
MW-234D	Jun-05	2.69		7.97	<0.0100	116	71.7	6.3	340	<1.00	0.39	<4.00	15	<0.0100	<0.010	<1.00	<1.00
MW-234D	Sep-06	1.4		8.06	<0.010	416	120	0	530	3.2	<0.25	<4.0	15	<0.010	<0.010	0.25	<1.0
MW-234D	Dec-07	1.4		6.75	<0.003	225	52	3	420	<0.03	<0.1	<4.0	20	<0.01	<0.01	0.19	<0.1
MW-234D	Aug-09	1.1		7.72	<0.010	71	77.2	13.1	358	0.06	<0.05	<2	2	<0.005	<0.004	<0.5	<0.1
MW-234D	Apr-12	<0.43		7.44	0.0064	-85.4	73	19.7	400	0.043	0.057	<2.0	5	<0.005	0.0075	0.37	
MW-234D	Jul-13	0.77		7.35	<0.0050	-62.3	66	1.42/2.3	380	0.07	<0.020	<2.0	<5.0	<0.0050	<0.0050	1.7	
MW-235S	Dec-00	<1		7.39	<0.004	-39	61	11	719	<0.1	<0.05	<3				<1	<1
MW-235S	Mar-01	7.1		7.31	<0.004	-94	54	1.6	668	<0.1	0.09	<3				1.23	<1
MW-235S	Jun-01	11		7.14	<0.004	-116	68	4.2	535	<0.1	<0.1	<3	250	<0.01		<1	<1
MW-235S	Sep-01	5.9		7.2	<0.004	-117	59.1	3.46	702	0.114	<0.1	<3				<1	<1
MW-235S	Dec-01	5.6		7.07	<0.004	-109	48.9	33.8	696	<0.1	<0.1	<3				1.46	<1
MW-235S	Mar-02	6.7		7.11	<0.004	-60	40.2	1.82	733	<0.1	<0.1	<3				<1	<1
MW-235S	Jun-02	7.1		7.26	<0.004	-89	38.1	2.7	719	0.11	<0.1	<3				<1	<1
MW-235S	Sept-02	4.4		7.25	<0.004	28.5	40.2	13	776	0.242	<0.1	<3	25	<0.005	<0.01	<1	<1
MW-235S	Dec-02	4.7		7.25	<0.004	-11	32.5	2.4	775	<0.1	<0.1	<3				<1	<1
MW-235S	Apr-04	6.8		7.72	<0.004	98	25.7	9.4	748	0.433	<0.1	<3	15	<0.005	<0.01	<1	<1
MW-235S	Jun-05																
MW-235D	Dec-00	<1		7.72	<0.004	8	79	4.1	326	0.134	<0.05	<3				<1	<1
MW-235D	Mar-01	2.5		7.62	<0.004	-90	75	2.9	286	<0.01	0.121	3				<1	<1
MW-235D	Jun-01	4.2		7.71	<0.004	-27	79.2	3.1	320	<0.1	<0.1	<3	5	<0.01		<1	<1
MW-235D	Sep-01	2.1		7.79	<0.004	99	75.2	2.71	328	<0.1	0.187	<3				<1	<1
MW-235D	Dec-01	1.3		7.45	<0.004	-82	68.3	8.1	316	0.242	<0.1	<3				<1	<1
MW-235D	Mar-02	1.6		7.64	<0.004	37	70.4	4.94	323	<0.1	0.262	<3				<1	<1
MW-235D	Jun-02	2.2		6.86	<0.004	-98	58.3	4.5	341	2.35	<0.1	<3				2.05	<1
MW-235D	Sept-02	2.2		7.9	0.0055	-3.3	38.6	8.9	334	5.96	<0.1	4	15	<0.005	<0.01	5.76	<1
MW-235D	Dec-02	1.3		7.85	<0.004	-88.5	60.2	6.4	335	2.53	<0.1	3				2.31	<1
MW-235D	Apr-04	42		7.58	0.215	-76	<5.0	6.8	373	18.3	<0.1	>20E	<5	<0.005	<0.01	18.9	<1
MW-235D	Jun-05																
MW-236S	Nov-89	2.22	7.72		0.016	-53.3	48.2	35	287	0.11	<0.10	10	<5	<0.005	0.03		
MW-236S	Feb-90	1.12			<0.005		65.4	3.08	252	0.19		5	10			78	
MW-236S	Apr-90	11.5	7.60		<0.005	-32.4	65.9	19	334	<0.04		44	5			0.19	
MW-236S	Nov-90	15	7.80	7.1	<0.010	105.2	68	625	314	0.05	<0.1	9.2	5	<0.004	0.033	<0.5	
MW-236S	Feb-91	14	7.80	7.45	<0.010	64.5	65	145	353	0.12	<0.04						
MW-236S	May-91	<3	7.70	7.27	<0.010	229.8	60	109	313	0.03	<0.04						
MW-236S	Aug-91	12	7.90	6.98	<0.010	169.7	64.8	74	347	0.05	<0.04						
MW-236S	Nov-91	<1		7.68	<0.010	366.9	58	17	307	0.03	<0.04						
MW-236S	Feb-92	3		7.67	<0.010	328.9	51	42	272	0.06	<0.02	<0.5	<5	<0.010	<0.004	<0.5	
MW-236S	May-92	<1.0		7.54	<0.010	331.3	63	84	336	<0.04	0.1						
MW-236S	Aug-92	<1		7.49	<0.010	359.5	72.8	60	372	<0.04	<0.02						
MW-236S	Dec-92	<1		7.69	<0.010	291.1	69.3	59	300	<0.02	<0.02						
MW-236S	Feb-93	13		7.35	<0.010	258.2	54	355	384	<0.02	<0.02						

TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual Std's & Gmd. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-236S	May-93	5		6.86	<0.010	306.4	75.1	86	292	<0.02	<0.02	1	<5	0.005	<0.004	<0.5	
MW-236S	Aug-93	<1.0		6.86	<0.010	154.2	61.6	110	312	<0.02	<0.02						
MW-236S	Dec-93	1		7.04	0.027	170.4	117	410	868	0.06	0.07						
MW-236S	Feb-94	<1.0		7.18	<0.010	260.6	76.1	425	316	<0.02	<0.05	<2.0				<0.5	0.8
MW-236S	May-94	17		7.16	0.033	150.2	77.6	70	400	<0.02	0.08	3				<0.5	0.79
MW-236S	Aug-94	<1		7.12	<0.010	61.1	71.2	34.5	348	0.03	0.13	<2.0	<5	<0.004	<0.004	<0.5	2
MW-236S	Nov-94	4		7.08	<0.010	108.4	85.2	45	472	0.02	0.26	<2.0				<0.5	2.05
MW-236S	March-95	15		6.48	<0.010	58.8	120	63	620	0.72	0.42	<2				<0.5	<0.2
MW-236S	June-95	9		7.04	<0.010	1.6	79	120	468	0.34	0.3	6				<0.5	<0.2
MW-236S	Sept-95	<1		6.87	<0.010	100.1	48.5	240	328	0.11	0.13	<2				<0.5	<0.2
MW-236S	Nov-95	<1		7.56	<0.010	94.7	86.4	120	392	<0.02	0.08	<2	10	<0.004	<0.004	<0.5	<0.2
MW-236S	April-96	2.5		7.9	<0.002	210	110	>900	530	<0.03	0.13	6.6	150	<0.01	<0.01	0.86	3
MW-236S	June-96	1.1		7.4	<0.002	220	45	360	390	0.14	0.052	<4				3.7	<2
MW-236S	Sept-96	1.1		7.7	<0.002	310	520	28	360	0.038	0.059	<4				0.35	<2
MW-236S	Nov-96	1.8		6.61	<0.002	125	83	54	370	<0.03	0.04	<4				0.59	<2
MW-236S	March-97	1.8		6.7	<0.002	135	66	637	380	<0.03	0.053	<4	10	<0.01	<0.01	0.81	<2
MW-236S	June-97	1.5		6.78	0.0028	285	73	979	430	0.073	0.075	<4				0.37	<2
MW-236S	Sept-97	2.8		7.7	<0.002	195	72	130	450	0.073	0.14	<4				0.17	<2
MW-236S	Dec-97	3.1		6.12	<0.002	275	88	845	450	<0.03	0.07	<4				0.39	<2
MW-236S	Mar-98	1.9		6.73	<0.002	325	94	731	470	0.076	0.061	<4				0.39	<2
MW-236S	June-98	2.1		6.69	<0.002	-65	66	356	420	0.047	0.06	<4	15	<0.01	<0.01	0.51	<1
MW-236S	Sept-98	1.8		7.5	<0.002	150	74	>999	340	<0.03	0.026	<4				0.4	<1
MW-236S	Dec-98	1.6		7.38	<0.002	90	75	684	270	<0.03	0.11	<4				0.18	<1
MW-236S	Apr-99																
MW-236S	Jun-99																
MW-236S	Sept-99																
MW-236S	Dec-99																
MW-236S	Apr-00																
MW-236S	Jun-00																
MW-236S	Sep-00																
MW-236S	Dec-00																
MW-236S	Mar-01																
MW-236S	Jun-01																
MW-236S	Sept-01																
MW-236S	Dec-01																
MW-236S	Mar-02																
MW-236S	Jun-02																
MW-236S	Sept-02																
MW-236S	Dec-02																
MW-236D	Nov-89	0.84	8.03		0.011	-71.15	10.1	135	266	0.07	<0.10	21	5	<0.005	<0.01		
MW-236D	Feb-90	1.28			<0.005		<10.0	14.3	260	0.37		47	10			35	
MW-236D	Apr-90	19.2	6.55		<0.005		10.6	12	281	<0.04		92	15			0.04	
MW-236D	Nov-90	7.2	7.70	7.35	<0.05	-66.8	13	55	298	<0.1	<0.1	2.9	<5	<0.004	0.026	<0.5	
MW-236D	Feb-91	9	8.00	8.11	<0.010	81.1	13.5	40	369	0.14	<0.04						
MW-236D	May-91	8	7.90	7.33	<0.010	222.8	13.5	61	331	0.05	<0.04						
MW-236D	Aug-91	4.6	7.90	7.28	<0.010	280.7	13.4	13	387	<0.03	<0.04						
MW-236D	Nov-91	<1		7.8	<0.010	392	11.4	5	306	0.03	<0.04						
MW-236D	Feb-92	2		7.59	<0.010	263.1	11.6	3.4	252	0.07	<0.02	<0.5	<5	<0.010	<0.004	<0.5	
MW-236D	May-92	<1.0		7.67	<0.010	269.2	19.2	1.5	352	0.05	0.08						
MW-236D	Aug-92	<1		7.63	<0.010	296.7	18.8	14.5	216	<0.04	0.02						
MW-236D	Dec-92	<1		7.79	<0.010	271.1	45.8	5.2	240	<0.02	<0.02						
MW-236D	Feb-93	7		7.46	<0.010	221.1	13.5	1.6	296	0.02	0.04						
MW-236D	May-93	4		7.49	<0.010	268.5	49.3	1.4	240	<0.02	<0.02	1	<5	0.004	<0.004	<0.5	
MW-236D	Aug-93	<1.0		7.24	<0.010	7	44.3	1.1	284	<0.02	<0.02						
MW-236D	Dec-93	<1.0		7.2	0.014	142.8	78	1.3	292	0.06	<0.05						

TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual. Std's & Guid. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-236D	Feb-94	<1.0		7.45	<0.010	232.5	38.2	3	256	<0.02	<0.05	<2.0				<0.5	0.94
MW-236D	May-94	14		7.75	<0.010	156.9	31	1.9	288	0.07	0.04	2.2				<0.5	0.93
MW-236D	Aug-94	<1.0		7.34	<0.010	128	17.9	3	260	0.04	0.16	<2.0	5	<0.004	<0.004	<0.5	2.24
MW-236D	Nov-94	<1		7.52	<0.010	154.7	14.4	3.7	316	<0.02	0.13	<2.0				<0.5	2.55
MW-236D	March-95	4		6.79	0.038	49.9	32.9	4.7	288	0.34	0.25	<2				<0.5	0.7
MW-236D	June-95	<1		7.03	<0.010	-17.7	15.8	2.6	296	0.29	0.12	<2				<0.5	0.5
MW-236D	Sept-95	18		6.97	<0.010	93.8	10.2	3.3	292	0.09	<0.05	<2				<0.5	0.7
MW-236D	Nov-95	<1		7.69	<0.010	23.5	26.7	4.2	288	<0.02	<0.05	<2	5	<0.004	<0.004	<0.5	1.2
MW-236D	April-96	<1		7.2	<0.002	30	14	230	260	<0.03	0.023	<4	10	<0.01	<0.01	0.41	2.8
MW-236D	June-96	<1		7.7	<0.002	230	10	10	280	<0.03	<0.02	<4				6	<2
MW-236D	Sept-96	<1		7.3	<0.002	387	12	12	260	<0.03	<0.02	<4				0.51	<2
MW-236D	Nov-96	1.2		6.93	<0.002	190	13	9.4	230	<0.03	<0.02	<4				0.54	<2
MW-236D	March-97	<1		6.2	<0.002	135	30	280	270	<0.03	<0.02	<4	10	<0.01	<0.01	0.48	<2
MW-236D	June-97	<1		5.85	<0.002	215	10	<1	290	<0.03	<0.02	<4				0.42	<2
MW-236D	Sept-97	1.1		8	<0.002	155	33	3.2	300	<0.03	0.034	<4				0.3	<2
MW-236D	Dec-97	1.4		5.56	<0.002	250	30	5	300	0.03	0.026	<4				0.27	<2
MW-236D	Mar-98	<1		6.5	<0.002	550	33	9	250	0.03	<0.02	<4				0.26	<2
MW-236D	June-98	<1		6.93	<0.002	-35	11	12	250	0.053	0.043	7.8	1	<0.01	<0.01	0.24	<1
MW-236D	Sept-98	1.1		7.47	<0.002	270	13	27	280	<0.03	<0.02	<4				0.43	<1
MW-236D	Dec-98	<1		7.41	<0.002	50	15	66	240	<0.03	0.05	<4				0.045	<1
MW-236D	Apr-99																
MW-236D	Jun-99																
MW-236D	Sept-99																
MW-236D	Dec-99																
MW-236D	Apr-00																
MW-236D	Jun-00																
MW-236D	Sep-00																
MW-236D	Dec-00																
MW-236D	Mar-01																
MW-236D	Jun-01																
MW-236D	Sep-01																
MW-236D	Dec-01																
MW-236D	Mar-02																
MW-236D	Jun-02																
MW-236D	Sept-02																
MW-236D	Dec-02																
MW-245S	Nov-89	2.93	7.87		0.024	-16.4	339	280	781	0.29	<0.10	32	<5	<0.005	<0.01		
MW-245S	Feb-90	9.42			<0.005		337	2150	945	0.14		8	70			2.34	
MW-245S	Apr-90	3.57			<0.005		331	50	970	0.11		8	15			0.75	
MW-245S	Nov-90	19	7.30	7.01	<0.05	134.5	750	300	899	0.14	<0.04	3.4		0.004	<0.004	<0.5	
MW-245S	Feb-91	8.6	7.10	7.35	<0.010	-4	154	125	884	0.1	<0.04						
MW-245S	May-91	9	7.00	6.8	<0.010	233.9	218	196	876	0.05	0.31						
MW-245S	Aug-91	9.2	7.00	7.25	<0.010	105.6	277	250	485	0.07	<0.04						
MW-245S	Nov-91	<1		7.05	<0.010	175.9	286	280	920	0.17	<0.04						
MW-245S	Feb-92	10		6.76	<0.010	172.9	380	37	844	0.17	<0.02	<0.5	<5	<0.010	<0.004	<0.5	
MW-245S	May-92	<1.0		7.01	<0.010	217.4	266	80	1068	0.06	<0.02						
MW-245S	Aug-92	<1		6.74	<0.010	97.7	225	35	720	0.06	<0.02						
MW-245S	Dec-92	<1		7.22	<0.010	211.8	341	435	944	0.1	<0.02						
MW-245S	Feb-93	34		6.52	<0.010	159.4	293	360	936	0.11	0.02						
MW-245S	Jun-93	8		7.1	<0.010	216.8	296	220	916	0.02	<0.02	1	<5	<0.004	<0.004	0.5	
MW-245S	Sept-93	<1.0		6.75	<0.010	96.1	317	190	888	<0.02	<0.02						
MW-245S	Dec-93	10		7.08	<0.010	139.2	352	240	872	<0.02	0.02						
MW-245S	Mar-94	60		6.96	<0.010	248.4	402	260	860	0.04	<0.05	<2.0				<0.5	0.82
MW-245S	Jun-94	3		6.86	<0.010	109.1	339	230	1053	<0.02	0.02	<2.0				<0.50	1
MW-245S	Aug-94	2		6.99	<0.010	69.4	235	28	646	0.07	<0.05	<2.0	100	<0.004	0.004	<0.5	2

TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA-GW Qual. Std's & Guid. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-245S	Nov-94	7		7.05	<0.010	126.8	288	41	920	0.1	<0.05	<2.0				0.64	3.92
MW-245S	March-95	13		7.12	<0.010	106.4	229	53	1052	1.83	0.11	<2				<0.5	0.3
MW-245S	June-95	<1		7.08	<0.010	-13.0	286	93	952	0.18	0.64	<2				<0.5	0.2
MW-245S	Sept-95	32		7.12	<0.010	11.7	315	110	992	0.21	0.1	<2				<0.5	0.3
MW-245S	Dec-95	<1		7.01	<0.010	16.3	239	15	1036	0.1	<0.05	<2	10	<0.004	<0.004	<0.5	<0.2
MW-245S	April-96	2.3		7.1	<0.002	150	280	140	1100	0.042	<0.02	<4	200	<0.01	<0.01	0.49	0.84
MW-245S	June-96	2.3		6.6	0.0056	120	380	560	830	0.046	<0.02	<4				11	<2
MW-245S	Sept-96	2.2		7.5	<0.002	70	460	82	860	<0.03	0.033	<4				0.72	<2
MW-245S	Nov-96	2.3		7.02	<0.002	100	440	150	750	0.06	<0.02	<4				0.87	<2
MW-245S	March-97	3.2		7.1	<0.002	110	240	>999	730	<0.03	<0.02	<4	15	<0.01	<0.01	0.29	<2
MW-245S	June-97	2.7		6.79	<0.002	305	440	357	830	0.16	<0.02	<4				1.2	<2
MW-245S	Sept-97	2.4		7.4	<0.002	165	240	150	790	0.088	<0.02	<4				0.33	<2
MW-245S	Dec-97	2.4		7.58	<0.002	155	280	135	660	0.15	<0.02	<4				0.4	<2
MW-245S	Mar-98	2		7.47	<0.002	240	420	42	840	0.081	<0.02	<4				0.38	<2
MW-245S	June-98	3.3		7.55	<0.002	115	41	238	270	<0.03	0.054	<4	20	<0.01	<0.01	0.95	<1
MW-245S	Sept-98	2.4		6.55	<0.002	155	190	443	690	<0.03	<0.02	<4				0.55	<1
MW-245S	Dec-98	2		7.59	<0.002	115	180	>999	590	<0.03	0.041	7.6				0.4	<1
MW-245S	Apr-99	2.1		6.5	<0.002	75	240	315	820	0.061	<0.02	<4				1.1	<0.1
MW-245S	Jun-99	1.9		5.14	0.0023	280	210	104	740	0.045	<0.02	<4				0.64	<0.1
MW-245S	Sept-99	2		6.79	<0.002	300	200	55	710	<0.03	<0.02	<4				0.45	<0.1
MW-245S	Dec-99	1.8		6.07	<0.002	520	200	403	680	0.099	<0.02	<4	5	<0.01	<0.03	0.45	<0.1
MW-245S	Apr-00	1.8		7.11	<0.004	-75	200	9.4	828	0.167	<0.05	<3	50	0.016	<0.01	<1	<1
MW-245S	Jun-00	3.1		7.53	<0.004	-78	250	4.31	893	0.124	<0.05	<3				<1	<1
MW-245S	Sep-00	2.5		7.07	<0.004	22	200	6.6	776	0.125	<0.05	<3				<1	<1
MW-245S	Dec-00	<1		7.46	<0.004	84	210	16	711	0.11	<0.05	<3				<1	<1
MW-245S	Mar-01	2.5		7.06	<0.004	63	220	16	831	<0.1	0.056	<3				<1	<1
MW-245S	Jun-01	4.5		7.15	0.0041	98	148	6.1	623	<0.1	<0.1	<3	20	<0.01		<1	<1
MW-245S	Sep-01	2		7.24	<0.004	43	170	12.9	572	0.111	<0.1	<3				<1	<1
MW-245S	Dec-01	1.2		7.54	<0.004	69	171	11.5	622	<0.1	<0.1	<3				<1	<1
MW-245S	Mar-02	1.4		6.79	<0.004	108	201	11.5	698	0.109	<0.1	<3				<1	<1
MW-245S	Jun-02	2.2		7.13	<0.004	31	219	6.8	846	0.147	<0.1	<3				<1	<1
MW-245S	Sept-02	2.3		6.88	<0.004	152.3	190	9.91	779	0.109	<0.1	<3	5	<0.005	<0.01	<1	<1
MW-245S	Dec-02	2.5		7.09	0.0204	18	221	13	805	0.128	<0.1	<3				<1	<1
MW-245S	Apr-04	2.5		7.82	<0.004	62	150	5.2	570	<0.10	<0.1	<3	<5	<0.005	<0.01	<1	<1
MW-245S	Jun-05	2.97		8.59	<0.0100	81	126	150	542	<1.00	<0.200	<4.00	20	<0.0100	<0.010	<1.00	<1.00
MW-245S	Sep-06	1.6		9.14	<0.010	53.1	170	1000	620	<1.0	<0.25	<4	130	<0.010	<0.010	<1.0	<1.0
MW-245S	Dec-07	2.3		6.95	<0.003	170	7.5	259	600	<0.03	<0.1	<4	250	<0.01	<0.01	0.28	<0.1
MW-245S	Aug-09	2.4		7.31	<0.010	87	152	103	822	0.12	<0.05	<4	10	<0.005	<0.004	0.67	<0.1
MW-245S	Feb-11	1.4		6.88	<0.005	37.8	140	140	680	0.2	<0.05	<4.0	60	<0.01	<0.01	0.53	
MW-245S	Apr-12	2.1		7.21	<0.005	-11.5	110	1142	550	0.085	0.036	<2.0	10	<0.005	<0.005	0.89	
MW-245S	Jul-13	2.2		7.29	<0.0050	-37.1	140	132/170	690	0.14	<0.020	<2.0	10	<0.0050	<0.0050	0.51	
MW-245D	Feb-90	25			0.006		149	8	411	<0.04	<0.01			<0.005	0.01		
MW-245D	Apr-90	3.72	7.23		<0.005	-16.75	163	13	482	0.8		22	10			0.98	
MW-245D	Nov-90	26	7.70	7.45	0.085	1.7	110	42	565	2.8	<0.04	23		0.004	0.004	8.1	
MW-245D	Feb-91	<3.0	7.60	7.63	<0.010	-48.3	138	180	496	4.4	<0.04						
MW-245D	May-91	6.1	7.30	7.01	<0.010	171.5	122	80	530	2.62	0.55						
MW-245D	Aug-91	7.3		7.58	<0.010	104.9	154	40	580	1.91	<0.04						
MW-245D	Nov-91	<1		7.18	<0.010	53	112	21	540	5.95	<0.04						
MW-245D	Feb-92	3		6.86	<0.010	131.2	151	29	496	4.8	<0.02	1.2	<5	<0.010	<0.004	6	
MW-245D	May-92	<1.0		7.24	<0.010	199.2	164	2.3	624	2.59	<0.02						
MW-245D	Aug-92	<1		6.93	<0.010	64.1	125	20	176	4.44	<0.02						
MW-245D	Dec-92	<1		7.24	<0.010	203.8	158	7.7	572	3.34	0.12						
MW-245D	Feb-93	27		6.79	<0.010	142.7	184	3.6	556	2.89	<0.02						
MW-245D	Jun-93	7		7.31	<0.010	202.2	175	5	560	3.99	0.09	2.2	<5	<0.004	<0.004	5	
MW-245D	Sep-93	<1.0		6.94	<0.010	151.5	159	0.5	568	2.87	<0.02						

TABLE 13 - HISTORICAL GROUNDWATER ANALYTICAL DATA - WATER QUALITY PARAMETERS

Monitoring Well	Sample Date	TOC (mg/l)	pH (S.U.)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turb* (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	Br- (mg/l)
Class GA GW Qual. Std's & Guid. Val.			6.5-8.5	6.5-8.5	0.001		250		500	2	10						2
MW-245D	Dec-93	10		7.09	<0.010	-0.1	212	3.1	592	2	0.03						
MW-245D	Mar-94	34		6.88	<0.010	240.6	181	2	448	2.97	<0.05	<2.0				3.54	0.19
MW-245D	Jun-94	<1		7.15	<0.010	105.8	181	1.3	593	3.78	0.02	<2.0				6.03	0.16
MW-245D	Aug-94	12		7.08	<0.010	64.8	195	2.1	548	2.39	1.18	2	10	<0.004	<0.004	<0.5	1.12
MW-245D	Nov-94	9		7.26	<0.010	128.9	173	1.3	560	1.65	0.33	<2.0				3.8	1.88
MW-245D	March-95	6		7.22	<0.010	107.2	157	0.6	544	3.55	0.22	<2				1.38	<0.2
MW-245D	June-95	3		6.99	<0.010	-12.8	182	2.9	604	2.17	0.22	<2				3.2	<0.2
MW-245D	Sept-95	15		7.05	<0.010	14.8	204	1.2	668	3.27	0.08	<2				1.13	<0.2
MW-245D	Dec-95	<1		7.07	<0.010	27.4	206	1	640	2.46	<0.05	<2	<5	<0.004	<0.004	0.73	<0.2
MW-245D	April-96	2.6		7.5	<0.002	175	210	10	650	1	0.02	<4	30	<0.01	<0.01	2.1	0.12
MW-245D	June-96	1.4		7.2	<0.002	-5	320	10	1300	1	<0.02	5.2				10	<2
MW-245D	Sept-96	5.4		7.3	<0.002	-30	350	45	700	0.73	<0.02	11				2.3	<2
MW-245D	Nov-96	1.4		7.17	<0.002	105	380	26	650	2.2	<0.02	8.5				6.1	<2
MW-245D	March-97	2.1		7		125	90	110	640	6	0.1	<4	10	<0.01	<0.01	6	<2
MW-245D	June-97	2.3		6.73	0.014	180	170	100	590	4.9	0.021	<4				7.3	<2
MW-245D	Sept-97	1.4		7.7	<0.002	190	180	9	640	5.7	<0.02	5				6.8	<2
MW-245D	Dec-97	1.9		7.49	<0.002	40	280	23	590	3.1	<0.02	8				4.7	<2
MW-245D	Mar-98	2.9		7.69	<0.002	240	190	29	620	8.4	<0.02	9.5				9.1	<2
MW-245D	June-98	1.9		6.85	<0.002	-85	210	33	670	12	0.055	<4	20	<0.01	<0.01	13	<1
MW-245D	Sept-98	3.1		6.65	<0.002	-15	180	46	790	6	<0.02	9				6.9	<1
MW-245D	Dec-98	2.2		7.04	<0.002	15	110	16	500	2.4	0.038	11				2.9	<1
MW-245D	Apr-99																
MW-245D	Jun-99	1.8		6.37	<0.002	160	184	118	620	8.3	0.027	7.7				9.7	<0.1
MW-245D	Sept-99																
MW-245D	Apr-00	1.8		7.14	<0.004	-67	140	24	622	9.43	0.994		150	<0.01		11.8	
MW-245D	Jun-00	1.4		7.58	<0.004	-100	190	25.6	629	7.14	0.094	3				8.22	<1
MW-245D	Sep-00	1.5		7.53	<0.004	-100	170	12	580	6.71	<0.05	<3				7.19	<1
MW-245D	Dec-00	<1		7.59	<0.004	-45	200	13	574	7.01	<0.05	<3				8.37	<1
MW-245D	Mar-01	5.3		7.2	<0.004	-117	190	12	546	6.93	<0.05	<3				5.52	<1
MW-245D	Jun-01	2.9		7.54	<0.004	-111	206	20	584	7.08	0.352	5		<0.01		9.08	<1
MW-245D	Sept-01	1.8		7.53	0.005	-112	198	15.1	552	7.12	<0.1	<3				8.74	<1
MW-245D	Dec-01	<1		7.53	<0.004	-81	192	19.2	571	7.29	<0.1	<3				5.32	<1
MW-245D	Mar-02	<1		7.33	<0.004	-80	188	34.9	563	8.22	<0.1	<3				3.43	<1
MW-245D	Jun-02	1.6		7.51	<0.004	-73	185	25.7	569	7.09	<0.1	<3				6.02	<1
MW-245D	Sept-02	<1		7.41	<0.004	167	188	33.1	609	6.59	<0.1	<3	20	<0.005	<0.01	5.56	<1
MW-245D	Dec-02	1.1		7.71	<0.004	-49	202	8.5	575	6.48	<0.1	5				5.85	<1
MW-245D	Apr-04	2		7.78	<0.004	42	176	6.2	593	4.59	0.89	13	15	<0.005	<0.01	5	<1
MW-245D	Jun-05	2.45		7.98	<0.0100	109	165	37	590	<1.00	1.11	18.8	20	<0.0100	<0.010	4.02	<1.00
MW-245D	Sep-06	3.8		8.97	<0.010	262	5.7		160	<1.0	<0.25	<4	150	<0.010	0.01	<1.0	<1.00
MW-245D	Dec-07	2.2		7.12	<0.003	115	58	13	470	13	<0.1	4.5	20	<0.01	<0.01	13	<0.1
MW-245D	Aug-09	1.8		7.2	<0.010	89	93.2	9	520	11.2	<0.05	<4	2	<0.005	<0.004	11.2	<0.1
MW-245D	Feb-11	1.5		6.27	<0.005	-15.8	120	5.16	570	4.4	0.05	<4.0	<1	<0.01	<0.01	4.7	
MW-245D	Apr-12	3.8		7.32	<0.005	89.1	110	32.9	550	13	1	8.6	<5.0	<0.005	<0.005	11	
MW-245D	Jul-13	3.2		7.52	0.0087	-100	120	33/98	590	9	0.49		10	<0.0050	<0.0050	7.8	

TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fc (mg/l)	Ph (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
Class GA GW Qual. Std's & Grad. Val.				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2	
MW-230S	Nov-89	1.32	<0.060	<0.010	<0.2	<0.005		<0.010	77.3	<0.01		<0.025	2.4	<0.003		0.35	<0.0002	<0.04		<0.005	<0.01	8.15	<0.010		0.032	
MW-230S	Feb-90			<0.010				<0.010					5.71	0.0035		0.449										
MW-230S	Apr-90			<0.010				<0.010					3.55	<0.03		0.289										
MW-230S	Nov-90	61	<0.050	0.036	0.38	<0.01		<0.01	230	0.07		0.25	120	0.1	61	5.4	<0.001	0.11	11	<0.005	<0.02	8.3	<0.010		0.41	
MW-230S	Feb-91							<0.010	77.5				8.07	<0.020	14.3	0.499			1.86			7.04				
MW-230S	May-91							<0.010	89.2				16.2	<0.020	15.9	0.9			2.71			6.9				
MW-230S	Aug-91							<0.010	72.4				2.31	<0.020	11.4	0.388			1.24			6.72				
MW-230S	Nov-91							<0.010	62.2				12.1	<0.020	11.9	0.591			2.3			6.98				
MW-230S	Feb-92	8.97	<0.060	<0.020	0.13	<0.010		<0.010	64.7	<0.020		<0.020	10.5	<0.020	13.2	0.498	<0.001	<0.040	2.85	<0.005	<0.020	6.04	<0.010		0.053	
MW-230S	May-92							<0.010	100				8.2	<0.020	18.6	0.472			1.76			6.49				
MW-230S	Aug-92							<0.010	54.9				8.68	<0.020	11.3	0.43			2.36			4.74				
MW-230S	Dec-92							<0.010	55.1				7.96	<0.020	11	0.324			2.18			7.14				
MW-230S	Feb-93							<0.010	63.1				27.6	<0.020	18.1	1.37			4.13			7.3				
MW-230S	May-93	7.7	<0.060	<0.020	<0.10	<0.010		<0.010	61.4	<0.020		0.027	10.6	0.01	10.6	0.38	<0.001	<0.040	2.79	<0.005	<0.020	6.91	<0.010		0.053	
MW-230S	Aug-93							<0.010	48.3				20.9	0.02	17.9	0.574			2.07			9.75				
MW-230S	Dec-93							<0.010	61.5				14.4	0.009	17.3	0.683			3.07			7.94				
MW-230S	Feb-94							<0.010	77.2				19.7	0.009	17	0.72			3.46			7.36				
MW-230S	May-94							<0.010	62				6.04	0.006	21.6	0.44			0.69			9.65				
MW-230S	Aug-94	1.16	<0.060	<0.020	<0.10	<0.010		<0.010	53.7	<0.020		<0.020	1.19	<0.005	12.8	0.12	<0.001	0.17	1.3	<0.005	<0.020	6.43	<0.005		0.044	
MW-230S	Nov-94							<0.010	47				0.3	<0.005	10.1	0.18			0.97			7.37				
MW-230S	Mar-95							<0.010	66.2				1.83	<0.005	12	0.38			1.48			6.5				
MW-230S	June-95							<0.010	67.6				2.64	<0.005	31.6	0.46			0.99			6.72				
MW-230S	Sept-95							<0.010	61				6.77	<0.005	12.1	0.44			2.14			7.4				
MW-230S	Nov-95	1.56	<0.060	<0.020	0.21	<0.010		<0.010	48.8	<0.020		<0.020	2.43	0.023	10.7	0.024	<0.001	<0.040	1.51	<0.005	<0.020	10.4	<0.005		<0.020	
MW-230S	April-96	5.7	<0.1	<0.01	<0.2	<0.003		<0.002	78	<0.01		<0.02	12	0.017	13	0.55	0.0002	0.013	1.8	<0.1	<0.01	7.6	<0.03		0.055	
MW-230S	June-96							<0.01	65				9.2	<0.01	11	0.47			1.7			6.5				
MW-230S	Sept-96							<0.01	70				9.1	<0.01	12	0.44			1.7			7				
MW-230S	Nov-96							<0.01	31				2.9	<0.01	8	0.681			1.8			8.1				
MW-230S	Mar-97	1.9	<0.06	0.01	<0.2	<0.01		<0.01	42	<0.01		<0.02	4.2	<0.01	6.5	0.19	<0.0004	0.016	2.6	<0.05	<0.01	6.2	<0.03		0.11	
MW-230S	June-97							<0.01	43				5.2	<0.01	8.1	0.24			2.3			6.4				
MW-230S	Sept-97							<0.01	40				7.6	<0.01	8	0.27			3.1			11				
MW-230S	Dec-97							<0.01	46				14	<0.01	10	0.49			3.9			12				
MW-230S	Mar-98							<0.01	73				20	0.017	16	0.86			4.1			9.7				
MW-230S	June-98	5.3	<0.06	<0.01	<0.2	<0.01	<1	<0.01	52	0.015	<0.01	<0.02	14	0.011	14	0.55	<0.0002	0.017	3	<0.05	<0.01	9.1	<0.03	<0.03	0.08	
MW-230S	Sept-98							<0.01	77				16	0.019	15	0.61			4.1			8.8				
MW-230S	Dec-98							<0.01	73				9.1	<0.01	11	0.37			<1			7.2				
MW-230S	Apr-99							Location Not Sampled																		
MW-230S	Jun-99							Location Not Sampled																		
MW-230S	Sept-99							Location Not Sampled																		
MW-230S	Dec-99	7.3	<0.01	<0.01	<2	<0.01	<5	<0.01	8.6	0.012	<0.01	0.024	18	<0.01	17	0.78	<0.0002	0.02	2	0.071	<0.01	7.1	<0.01	<0.01	0.058	
MW-230S	Apr-00	4.65	<0.050	0.007	0.09	<0.002	<0.048	<0.0050	59	<0.010	<0.010	<0.017	8.82	0.006	11.5	0.596	<0.0002	<0.012	2.77	<0.002	<0.010	8.94	<0.001	0.012	0.042	
MW-230S	July-00							Location Not Sampled																		
MW-230S	Sept-00							Location Not Sampled																		
MW-230S	Dec-00							Location Not Sampled																		
MW-230S	Mar-01							Location Not Sampled																		
MW-230S	Jun-01	8.99	<0.050	0.007	0.103	<0.002	<0.048	<0.005	69.5	<0.010	<0.010	0.027	16.9	0.014	12	0.759	0.0003	0.024	4.79	<0.002	<0.010	10.8	<0.001	0.011	0.05	
MW-230S	Sept-01							Location Not Sampled																		
MW-230S	Dec-01							Location Not Sampled																		
MW-230S	Mar-02							Location Not Sampled																		
MW-230S	Jun-02							Location Not Sampled																		
MW-230S	Sept-02	0.402	<0.050	0.004	0.073	<0.002	<0.048	<0.005	69.4	<0.010	<0.010	<0.017	0.917	0.005	10.3	0.366	<0.0002	<0.012	0.797	<0.001	<0.010	7.68	<0.001	<0.010	0.02	
MW-230S	Dec-02							Location Not Sampled																		
MW-230S	Apr-04	1.31	<0.050	0.005	0.078	<0.002	<0.048	<0.001	68.7	0.004	<0.010	<0.017	5.48	0.002	11.2	0.432	<0.0002	<0.012	1.72	<0.001	<0.010	7.89	<0.001	<0.010	0.057	
MW-230S	Jun-05	0.183	<0.025	0.0057	0.0658	<0.0004	0.0136	<0.0008	50.7	0.0016	<0.0019	0.0036	0.454	<0.0019	8.79	0.0406	<0.00016	<0.0023	2.4	<0.0039	0.0027	10.9	<0.0029	<0.0020	0.0829	
MW-230S	Nov-06	<0.200	<0.060	<0.005	0.21	<0.005	<0.050	<0.005	69	<0.010	<0.050	<0.025	0.13	<0.005	14	0.37	<0.0002	<0.040	<5	<0.010	<0.010	9.6	<0.010	<0.056	<0.020	
MW-230S	Dec-07	27	<0.01	0.039	0.3	<0.01	<0.5</																			



TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Cu (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)		
Class GA GW Qual				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2		
Std's & Guid. Val.																											
MW-230D	Nov-90	0.93	<0.060	<0.020	0.06	<0.01		<0.01	28	<0.03		<0.02	1.6	<0.020	6.6	0.16	<0.001	<0.04	1.2	<0.005	<0.02	22	<0.010		0.08		
MW-230D	Feb-91							<0.010	27.5			0.385	<0.020	6.27	0.125			0.913			22.6						
MW-230D	May-91							<0.010	27.5			0.099	<0.020	6.01	0.118			0.915			22.1						
MW-230D	Aug-91							<0.010	25.7			0.234	<0.020	5.84	0.12			1.01			21.6						
MW-230D	Nov-91							<0.010	23.6			0.258	<0.020	5.3	0.14			0.66			22.6						
MW-230D	Feb-92	0.7	<0.060	<0.020	<0.10	<0.010		<0.010	26.1	<0.020		<0.020	0.56	<0.020	5.88	0.144	<0.001	<0.040	1.1	<0.005	<0.020	17.7	<0.010		0.058		
MW-230D	May-92							<0.010	24.5			0.281	<0.020	5.49	0.111			0.62			19.9						
MW-230D	Aug-92							<0.010	22			0.291	<0.020	5.24	0.115			1.48			17.7						
MW-230D	Dec-92							<0.010	20.8			0.217	<0.020	4.9	0.084			0.85			22.9						
MW-230D	Feb-93							<0.010	18.6			0.7	<0.020	4.6	0.144			1.07			23.6						
MW-230D	Mar-93	0.49	<0.060	<0.020	<0.10	<0.010		<0.010	22.7	<0.020		<0.020	0.83	0.007	5.23	0.099	<0.010	<0.040	1.23	<0.005	<0.020	25	<0.010		<0.010		
MW-230D	Aug-93							<0.010	19			0.607	0.005	6.68	0.142			<0.50			28.7						
MW-230D	Dec-93							<0.010	24			0.787	0.006	6.4	0.163			1.07			23.9						
MW-230D	Feb-94							<0.010	23			0.858	<0.005	6	0.106			0.92			22.1						
MW-230D	May-94							<0.010	21.2			0.6	<0.005	5.93	0.12			0.79			21.9						
MW-230D	Aug-94	0.34	<0.060	<0.020	<0.10	<0.010		<0.010	25	<0.020		<0.020	0.8	<0.005	5.9	0.14	<0.001	0.16	0.94	<0.005	<0.020	17.5	<0.005		0.035		
MW-230D	Nov-94							<0.010	19.1			0.23	<0.005	5.48	0.12			0.76			22.1						
MW-230D	March-95							<0.010	22.8			0.44	<0.005	5.8	0.099			0.92			21.8						
MW-230D	June-95							<0.010	24.8			0.16	<0.005	5.76	0.13			1.21			19.2						
MW-230D	Sept-95							<0.010	23.7			0.16	<0.005	5.7	0.13			1.09			21.3						
MW-230D	Nov-95	0.3	<0.060	<0.020	0.27	<0.010		<0.010	18.1	<0.020	0.025	0.46	<0.005	5.38	0.12	<0.001	<0.040	1.04	<0.005	<0.020	25.2	<0.005		<0.005	0.062		
MW-230D	April-96	0.48	<0.1	<0.01	<0.2	<0.003		<0.002	27	<0.01		0.14	<0.01	6.1	0.78	<0.0002	<0.01	1.2	<0.1	<0.01	26	<0.03			0.085		
MW-230D	June-96							<0.01	25			1.4	<0.01	6	0.14			1.1			21						
MW-230D	Sept-96							<0.01	26			0.9	<0.01	6	0.13			0.88			22						
MW-230D	Nov-96							<0.01	25			5.2	<0.01	6.6	0.16			1.1			19						
MW-230D	Mar-97	2.4	<0.06	<0.01	<0.2	<0.01		<0.01	25	<0.01		4	0.013	6.8	0.21	<0.004	<0.01	1.6	<0.05	<0.01	15	<0.03			0.098		
MW-230D	June-97							<0.01	24			1	<0.01	5.8	0.15			<1			13						
MW-230D	Sept-97							<0.01	25			0.86	<0.01	5.6	0.16			<1			21						
MW-230D	Dec-97							<0.01	25			1	<0.01	5.9	0.2			1			23						
MW-230D	Mar-98							<0.01	23			0.69	<0.01	5.6	0.13			<1			23						
MW-230D	June-98	3.1	<0.06	<0.01	<0.2	<0.01	<1	<0.01	29	<0.01	<0.01	5.8	<0.01	8.6	0.29	<0.0002	<0.01	1.9	0.05	<0.01	23	<0.03	<0.03		0.076		
MW-230D	Sept-98							<0.01	30			6.1	0.034	8.6	0.43			2.5			21						
MW-230D	Dec-98							<0.01	27			3.9	<0.01	5.7	0.17			<1			18						
MW-230D	Apr-99						Location Not Sampled																				
MW-230D	Jun-99						Location Not Sampled																				
MW-230D	Sept-99						Location Not Sampled																				
MW-230D	Dec-99	0.78	<0.1	<0.1	<2	<0.1	<5	<0.1	29	<0.1	<0.1	0.015	1.8	<0.1	6.8	0.19	<0.002	<0.1	<1	0.957	<0.1	20	0.022	<0.1	0.044		
MW-230D	Apr-00	0.099	<0.050	0.004	0.058	<0.002	0.069	<0.0050	26.1	<0.010	<0.010	<0.017	0.285	<0.001	6	0.106	<0.002	<0.012	0.865	<0.002	<0.010	21.9	<0.001	<0.010	0.028		
MW-230D	Jun-00						Location Not Sampled																				
MW-230D	Sep-00						Location Not Sampled																				
MW-230D	Dec-00						Location Not Sampled																				
MW-230D	Mar-01						Location Not Sampled																				
MW-230D	Jun-01	0.094	<0.050	0.003	0.05	<0.002	0.067	<0.005	25.9	<0.010	<0.010	<0.017	0.214	0.006	5.89	0.097	0.0002	<0.012	1.16	<0.002	<0.010	21.7	<0.001	<0.010	<0.020		
MW-230D	Sept-01						Location Not Sampled																				
MW-230D	Dec-01						Location Not Sampled																				
MW-230D	Mar-02						Location Not Sampled																				
MW-230D	Jun-02						Location Not Sampled																				
MW-230D	Sept-02	<0.075	<0.050	0.003	0.053	<0.002	0.064	<0.005	25.4	<0.010	<0.0100	<0.017	0.123	0.002	5.7	0.109	<0.0002	<0.012	0.685	<0.001	<0.010	21	<0.001	<0.010	0.022		
MW-230D	Dec-02						Location Not Sampled																				
MW-230D	Apr-04	<0.1	<0.050	0.002	0.051	<0.002	0.084	<0.001	24.1	<0.002	<0.010	<0.017	0.528	<0.001	5.4	0.161	<0.0002	<0.012	0.961	<0.001	<0.010	20.9	<0.001	<0.010	0.021		
MW-230D	Jun-05	0.118	<0.0025	<0.0031	0.0566	<0.0004	0.0858	<0.0008	24.5	<0.0009	<0.0019	0.0102	0.422	0.0027	6.23	0.103	0.00016	0.0025	1.21	<0.0039	0.0034	23.2	<0.0029	<0.002	0.115		
MW-230D	Sep-06	0.44	<0.060	0.0061	<0.200	<0.005	0.068	<0.005	110	<0.010	<0.050	<0.025	1.2	<0.005	43	0.11	<0.0002	<0.040	6.8	<0.010	<0.010	280	<0.010	<0.050	0.067		
MW-230D	Dec-07	0.35	<0.01	0.015	<0.2	<0.01	<0.5	<0.01	24	<0.01	<0.01	<0.01	1.8	<0.01	6.2	0.35	<0.0002	<0.01	1.3	0.053	<0.01	27	<0.01	<0.01	0.13		
MW-230D	Aug-09	0.43	<0.02	<0.02	0.06	<0.02	<0.1	<0.02	27	<0.02	<0.02	<0.02	0.5	<0.02	6.1	0.13	<0.001	<0.02	0.82	<0.02	0.01	21	<0.02	<0.02	<0.02		
MW-232S	Nov-89	9.2	<0.06	<0.010	<0.2	<0.005		<0.010	80.1	0.015		0.026	18.9	0.011													

TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
Class GA GW Qual.	Std's & Guid. Val.			0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2
MW-232S	May-92	1.13	<0.060	<0.020	<0.10	<0.010		<0.010	90.1	<0.020		<0.020	1.59	<0.020	14.9	0.35	<0.001	<0.040	1.07	<0.005	<0.020	1.93	<0.010		
MW-232S	Aug-92							<0.010	78.7				3.52	<0.020	15.5	0.664			2.74			2.15			
MW-232S	Dec-92							<0.010	93.5				4.47	<0.020	19	0.622			3.34			2.89			
MW-232S	Feb-93							<0.010	76.7				13.2	<0.020	18.2	0.941			3.62			2.5			
MW-232S	May-93	5.25	<0.060	<0.020	<0.10	<0.010		<0.010	116	<0.020		<0.020	3.61	0.007	21.3	0.667	0.667	<0.040	2.83	<0.005	<0.020	3.93	<0.010		0.022
MW-232S	Aug-93							<0.010	167				10.8	0.007	43.2	1.01			2.83			7.07			
MW-232S	Dec-93							<0.010	150				8.1	<0.005	33.5	1.26			3.39			3.74			
MW-232S	Feb-94							<0.010	125				5.86	<0.005	24	0.908			2.37			3.38			
MW-232S	May-94							<0.010	118				1.69	0.01	30	0.88			1.59			5.77			
MW-232S	Aug-94	<0.20	<0.060	<0.020	<0.10	<0.010		<0.010	146	<0.020		0.032	0.18	<0.005	33.2	1.22	<0.001	0.073	2.42	<0.005	<0.020	3.19	<0.005		0.035
MW-232S	Nov-94							<0.010	128				0.13	<0.005	35.2	1.03			2.3			3.29			
MW-232S	March-95							<0.010	127				2.05	<0.005	27	0.78			2.37			2.7			
MW-232S	June-95							<0.010	152				0.98	<0.005	34.4	1.17			2.3			3.17			
MW-232S	Sept-95							<0.010	183				2.59	<0.005	39.2	1.32			2.95			3.03			
MW-232S	Nov-95	5.13	<0.060	<0.020	0.12	<0.010		<0.010	118	<0.020		0.038	2.32	<0.005	26.6	0.77	<0.001	<0.040	2.96	<0.005	<0.020	7.52	<0.005		0.14
MW-232S	April-96	2.1	<0.1	<0.01	<0.2	<0.003		<0.002	230	<0.01		<0.02	5.6	<0.01	25	1.6	<0.0002	<0.01	3.8	<0.01	<0.01	4.8	<0.03		0.045
MW-232S	June-96							<0.01	190				7.4	<0.01	26	1.7			3.2			3.5			
MW-232S	Sept-96							<0.01	170				8.5	<0.01	27	1.4			3.7			3.2			
MW-232S	Nov-96							<0.01	150				5.4	<0.01	19	1.4			2.8			2.4			
MW-232S	Mar-97	7.2	<0.06	<0.01	<0.2	<0.01		<0.01	170	0.013		0.022	18	0.023	33	1.7	<0.0004	0.014	4	<0.05	<0.01	2	<0.03		0.094
MW-232S	June-97							<0.01	170				33	0.021	23	2			6.4			1.8			
MW-232S	Sept-97							<0.01	160				31	0.024	34	2			6.4			3.1			
MW-232S	Dec-97							<0.01	180				23	0.016	32	1.9			5.2			3.2			
MW-232S	Mar-98							<0.01	159				11	0.01	33	1.2			4.4			3.3			
MW-232S	June-98	23	<0.06	0.076	0.21	<0.01	<1	<0.01	200	0.041	0.023	0.074	51	0.036	41	2.8	<0.0002	0.048	8.3	<0.05	<0.01	3.4	<0.03	0.032	0.23
MW-232S	Sept-98							<0.01	190				21	0.018	35	2			6.8			2.9			
MW-232S	Dec-98							<0.01	270				70	0.024	52	3.7			<1			3.2			
MW-232S	Apr-99																								
MW-232S	Jun-99																								
MW-232S	Sept-99																								
MW-232S	Dec-99																								
MW-232S	Apr-00																								
MW-232S	Jun-00							<0.0050	155				5.87	0.005	26.1	1.56			2.19			2.49			
MW-232S	Sept-00							<0.005	161				5.32	0.006	25.4	1.59			1.66			2.47			
MW-232S	Dec-00							<0.005	151				3.05	0.001	25.3	1.34			1.74			2.83			
MW-232S	Mar-01							<0.005	135				1.41	<0.001	25.6	0.951			1.72			2.66			
MW-232S	Jun-01	0.144	<0.050	0.03	0.065	<0.002	<0.048	<0.005	145	<0.010	<0.010	<0.017	5.72	0.006	22.3	1.41	0.0003	<0.012	2.03	<0.002	<0.010	2.76	<0.001	<0.010	<0.020
MW-232S	Sept-01							<0.005	147				5.8	0.004	22.9	1.45			1.85			2.92			
MW-232S	Dec-01							<0.005	148				2.14	0.002	25	1.31			1.93			3.12			
MW-232S	Mar-02							<0.005	158				5.51	0.003	29.2	1.29			2.36			3.4			
MW-232S	Jun-02							<0.005	150				1.68	0.001	28.1	1.11			1.56			3.83			
MW-232S	Sept-02	0.341	<0.050	0.029	0.067	<0.002	<0.048	<0.005	149	<0.010	<0.0100	0.028	1.55	0.006	25.9	1.22	<0.0002	<0.012	1.83	<0.001	<0.010	3.69	<0.001	<0.010	0.071
MW-232S	Dec-02							<0.001	153				1.38	<0.001	27.5	1.33			2.05			3.79			
MW-232S	Apr-04																								
MW-232S	Jun-05	0.182	<0.0025	0.0045	0.0247	<0.0004	0.0116	<0.0008	49.2	0.0018	<0.0019	0.0066	5.9	<0.0019	18.8	0.366	<0.00016	0.0025	3.66	<0.0039	0.0013	2.97	<0.0029	<0.002	0.113
MW-232S	Dec-07	3.1	<0.01	0.32	<0.2	<0.01	<0.5	<0.01	100	<0.01	<0.01	0.015	28	0.01	18	1.2	<0.0002	<0.01	2.6	0.26	<0.01	3.3	<0.01	<0.01	0.057
MW-232S	Aug-09	0.27	<0.02	0.03	0.09	<0.02	<0.1	<0.02	80	<0.02	<0.02	<0.02	6.8	<0.02	14	0.75	<0.001	<0.02	1.4	<0.02	0.01	3.7	0.03	<0.02	0.02
MW-232S	Apr-12	0.71	<0.0068	0.042	0.12	<0.0030	0.017	<0.0050	94	<0.0010	0.0033	4.2	<0.0030	15	1	<0.00012	0.0019	1.5	<0.0087	<0.0017	4.2	<0.016		0.0078	
MW-232S	Jul-13	0.17	<0.0068	0.048	0.14	<0.0030	0.017	<0.0050	100	0.0011	<0.0016	5.1	<0.0030	16	0.92	<0.00012	<0.0013	1.3	<0.0087	<0.0017	4.8	<0.010		0.011	
MW-232D	Nov-89	0.279	<0.06	<0.010	<0.2	<0.005		<0.010	44.9	<0.01		<0.025	0.178	<0.003		<0.015	<0.0002	<0.04		<0.005	<0.01	148	<0.01		0.031
MW-232D	Feb-90			<0.010				<0.010					0.317	<0.003		<0.015									
MW-232D	Apr-90			<0.010				<0.010					0.223	<0.003		<0.015									
MW-232D	Nov-90	0.26	<0.060	<0.020	0.02	<0.01		<0.01	38	<0.03		<0.02	0.55	0.03	9.4	0.02	<0.001	<0.04	7.4	<0.005	<0.02	140	<0.010		0.03
MW-232D	Feb-91																								
MW-232D	May-91							<0.010	32.6				0.424	<0.020	6.76	0.012			6.89			87.9			
MW-232D	Aug-91							<0.010	38.3				0.296	<0.020	10.4	0.013			5.25			144			
MW-232D	Nov-91							<0.010	36.8				0.277	<0.020	9.7	0.011			3.79			152			
MW-232D	Feb-92	0.28	<0.060	<0.020	<0.10	<0.010		<0.010	38.5	<0.020		<0.020	0.419	<0.020	10.6	0.029	<0.001	<0.040	5.21	<0.005	<0.020	77.1	<0.010		0.035
MW-232D	May-92							<0.010	94.8				4.32	<0.020	32.3	0.091			2.75			178			
MW-232D	Aug-92							<0.010	59.9				2.22	<0.020	8.8	0.079			11.3			9.08			
MW-232D	Dec-92							<0.010	56.6				0.381	<0.020	16.7	0.033			5.71			162			
MW-232D	Feb-93							<0.010	31.9				0.235	<0.020	8.8	<0.020			4.41			141			
MW-232D	May-93	<0.20	<0.060	<0.020	<0.10	<0.010		<0.010	41.6	<0.020		0.023	0.27	<0.005	11.7	<0.020	<0.001	<0.040	3.65	<0.005	<0.020	164	<0.010		<0.020

TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Bc (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
Class GA GW Qual. Std's & Guid. Val.				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2	
MW-232D	Aug-93							<0.010	38.2				0.668	<0.005	17.8	<0.020						275				
MW-232D	Dec-93							<0.010	48.4				0.563	0.007	16	0.032						151				
MW-232D	Feb-94							<0.010	42.2				0.427	<0.005	14	0.022						147				
MW-232D	May-94							<0.010	35.4				0.33	<0.005	14.6	0.021						135				
MW-232D	Aug-94	<0.20	<0.060	<0.020	<0.10	<0.010		<0.010	73.6	<0.020		<0.020	0.41	<0.005	27.1	0.03	<0.001	0.081		<0.005	<0.020	163	<0.005		<0.020	
MW-232D	Nov-94							<0.010	34.6				0.21	<0.005	14.7	0.032						135				
MW-232D	March-95							<0.010	38				1.36	0.005	16	0.44						32				
MW-232D	June-95							<0.010	35.7				0.48	<0.005	14.6	0.13						97				
MW-232D	Sept-95							<0.010	43.8				0.57	<0.005	16.3	0.094						129				
MW-232D	Nov-95	0.27	<0.060	<0.020	0.27	<0.010		<0.010	37.2	<0.020		0.057	1.4	0.007	15.8	0.12	<0.001	<0.040	4.4	<0.005	<0.020	156	<0.005		0.22	
MW-232D	April-96							No Sample Taken																		
MW-232D	June-96							No Sample Taken																		
MW-232D	Sept-96							No Sample Taken																		
MW-232D	Nov-96							No Sample Taken																		
MW-232D	Mar-97							No Sample Taken																		
MW-232D	June-97							<0.01	37				7.3	<0.01	14	0.32						10				
MW-232D	Sept-97							No Sample Taken																		
MW-232D	Dec-97							No Sample Taken																		
MW-232D	Mar-98							No Sample Taken																		
MW-232D	June-98							No Sample Taken																		
MW-232D	Sept-98							<0.01	33				3.3	<0.01	13	0.26						2.8				
MW-232D	Dec-98							<0.01	46				3	<0.01	13	0.16						32				
MW-232D	Apr-99							Location Not Sampled																		
MW-232D	Jun-99							Location Not Sampled																		
MW-232D	Sept-99							Location Not Sampled																		
MW-232D	Dec-99							Location Not Sampled																		
MW-232D	Apr-00							Location Not Sampled																		
MW-232D	Jun-00							Location Not Sampled																		
MW-232D	Sept-00							Location Not Sampled																		
MW-232D	Dec-00							Location Not Sampled																		
MW-232D	Mar-01							Location Not Sampled																		
MW-232D	Jun-01							Location Not Sampled																		
MW-232D	Sept-01							Location Not Sampled																		
MW-232D	Dec-01							Location Not Sampled																		
MW-232D	Mar-02							Location Not Sampled																		
MW-232D	Jun-02							Location Not Sampled																		
MW-232D	Sept-02							Location Not Sampled																		
MW-232D	Dec-02							Location Not Sampled																		
MW-232D	Apr-04							Location Not Sampled																		
MW-232D	Jun-05							Location Not Sampled																		
MW-232D	Sept-06							Location Not Sampled																		
MW-233S	Nov-90	12	<0.060	<0.020	0.12	<0.01		<0.01	140	<0.03		0.05	20	0.022	50	1.4	<0.001	<0.04	4.7	<0.005	<0.02	5	<0.010		0.07	
MW-233S	Feb-91							<0.010	119				5.2	<0.020	44.4	0.886			2.33			4.5				
MW-233S	May-91							<0.010	116				2.14	<0.020	45.5	0.803			2.3			4.94				
MW-233S	Aug-91							<0.010	127				4.58	<0.020	76.9	1.02			3.84			6.49				
MW-233S	Nov-91							<0.010	106				8.38	<0.020	35.4	0.837			2.82			4.97				
MW-233S	Feb-92	4.7	<0.060	<0.020	0.12	<0.010		<0.010	109	<0.020		<0.020	7.85	<0.020	46.7	0.956	<0.001	<0.040	2.37	<0.005	<0.020	4.74	<0.010		0.027	
MW-233S	May-92							<0.010	114				0.571	<0.020	46.5	0.745			1.47			4.41				
MW-233S	Aug-92							<0.010	118				0.197	<0.020	49	0.794			2.68			3.5				
MW-233S	Dec-92							<0.010	131				2.87	<0.020	54	0.774			2.9			5.61				
MW-233S	Feb-93							<0.010	153				11.7	<0.020	78.6	1.91			4.34			5.17				
MW-233S	May-93	<0.20	<0.060	<0.020	<0.10	<0.010		<0.010	161	<0.020		<0.020	5.65	<0.005	45.9	2.91	<0.001	<0.040	1.88	<0.005	<0.020	2.21	<0.010		<0.020	
MW-233S	Aug-93							<0.010	213				2	<0.005	93.8	1.47			2.29			7.01				
MW-233S	Dec-93							<0.010	217				2.89	<0.005	87	1.9			3.34			4.86				
MW-233S	Feb-94							<0.010	142				18.5	<0.005	75	1.57			5.22			3.6				
MW-233S	May-94							<0.010	112				4.4	<0.005	65.8	2.16			1.6			4.26				
MW-233S	Aug-94	0.41	<0.060	<0.020	<0.10	<0.010		<0.010	112	<0.020		0.03	0.73	<0.005	57.4	1.27	<0.001	0.082	2.62	<0.005	<0.020	2.07	<0.005		0.078	
MW-233S	Nov-94							<0.010	76				0.19	<0.005	50.8	0.83			1.88			3.4				
MW-233S	March-95							<0.010	220				1.75	<0.005	84	2.68			2.71			2.2				
MW-233S	June-95							<0.010	170				0.63	<0.005	81.8	1.58			2.07			2.36				
MW-233S	Sept-95							<0.010	160				3.61	<0.005	73.6	1.1			2.57			3.12				
MW-233S	Nov-95	0.26	<0.060	<0.020	0.11	<0.010		<0.010	133	<0.020		0.025	0.57	<0.005	34.8	1.21	<0.001	<0.040	2.82	<0.005	<0.020	1.85	<0.005		0.031	
MW-233S	April-96	0.21	<0.01	<0.01	<0.2	<0.003		<0.002	86	<0.01		<0.02	1.3	<0.01	12	0.34	<0.0002	<0.01	1.3	<0.01	<0.01	2.2	<0.03		0.023	

TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Cu (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)		
Class GA GW Qual. Std's & Guid. Val.				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2		
MW-233S	June-96							<0.01	84				1.2	<0.01	13	0.89			1.4						2.5		
MW-233S	Sept-96							<0.01	150				2.4	<0.01	20	2.7			2.5						6.6		
MW-233S	Nov-96							<0.01	140				2.7	0.016	19	1.6			2.1						3.3		
MW-233S	Mar-97	0.42	<0.06	0.011	<0.2	<0.01		<0.01	170	<0.01		1.8	<0.01	26	1.2		<0.0004	<0.01	2.8	<0.05	<0.01		<0.03	2.2	0.039		
MW-233S	June-97							<0.01	170				1.9	<0.01	38	1.3			2.4						2.7		
MW-233S	Sept-97							<0.01	170				2	<0.01	39	1.7			3						3.3		
MW-233S	Dec-97							<0.01	180				3.5	<0.01	55	1.6			3.3						5.5		
MW-233S	Mar-98							<0.01	200				2.2	<0.01	44	2.6			3.3						3.8		
MW-233S	June-98	0.48	<0.06	<0.01	<0.2	<0.01	<1	<0.01	260	<0.01	0.013	0.021	7.6	<0.01	35	8.8	<0.0002	<0.01	2.1	<0.05	<0.01		<0.03	5.8	<0.03	<0.03	0.044
MW-233S	Sept-98							<0.01	210				5	<0.01	60	2.6			4.4						3.3		
MW-233S	Dec-98							<0.01	210				12	<0.01	92	2.2			<1						3		
MW-233S	Jun-00							<0.005	219				1.21	0.006	86.3	2.32			2.44						2.9		
MW-233S	Sept-00							<0.005	242				0.842	0.006	96.9	2.3			2.59						2.48		
MW-233S	Dec-00							<0.005	155				0.124	<0.001	35.5	0.744			1.76						2.4		
MW-233S	Mar-01							<0.005	142				0.067	0.001	52.4	0.693			2.18						2.32		
MW-233S	Jun-01	8.99	<0.050	<0.002	0.06	<0.002	<0.048	<0.005	168	<0.010	<0.010	<0.017	0.055	0.009	62.2	1.7	<0.0002	0.016	2.67	<0.002	<0.010		2.92	<0.001	<0.010	0.036	
MW-233S	Sept-01							<0.005	187				0.142	0.007	87.4	1.76			2.9						2.7		
MW-233S	Dec-01							<0.005	194				0.342	0.002	94.1	1.35			2.45						2.65		
MW-233S	Mar-02							<0.005	192				0.754	0.002	91.1	1.17			2.07						2.62		
MW-233S	Jun-02							<0.005	203				0.324	<0.001	102	1.3			2.45						2.82		
MW-233S	Sept-02	0.197	<0.050	0.005	0.071	<0.002	<0.048	<0.005	186	<0.010	<0.0100	<0.017	1.03	0.002	88.8	1.24	<0.0002	<0.012	2.51	<0.001	<0.010		2.87	<0.001	<0.010	0.036	
MW-233S	Dec-02							<0.001	194				0.353	<0.001	88	0.997			2.76						2.41		
MW-233S	Apr-04	<0.1	<0.050	<0.001	0.056	<0.002	<0.048	<0.001	132	<0.002	<0.001	<0.017	0.07	<0.001	33.7	0.028	<0.0002	<0.012	2.06	<0.001	<0.010		2.59	<0.001	<0.010	<0.020	
MW-233S	Jun-05	0.294	<0.0025	<0.0031	0.0664	<0.0004	0.0151	<0.0000	104	0.0021	<0.0019	0.00123	0.688	0.0021	22.8	2.91	<0.00016	0.0024	1.9	0.0039	<0.0031	3.35	<0.0029	<0.002	0.092		
MW-233S	Sept-06	<0.200	<0.060	<0.005	<0.200	<0.005	<0.050	<0.005	140	<0.010	<0.050	<0.025	<0.100	0.73	43	0.75	<0.0002	<0.040	<5	<0.010	<0.010	<5	<0.010	<0.050	<0.020		
MW-233S	Dec-07	<0.01	<0.01	0.011	<0.2	<0.01	<0.5	<0.01	150	<0.01	<0.01	<0.01	0.18	<0.01	42	2.8	<0.0002	<0.01	3.1	0.36	<0.01	1.7	<0.01	<0.01	0.016		
MW-233S	Aug-09	0.3	<0.02	<0.02	0.07	<0.02	<0.1	<0.02	108	<0.02	<0.02	0.02	0.35	<0.02	25	0.35	<0.001	<0.02	1.6	<0.02	<0.01	1.6	0.02	<0.02	0.02		
MW-233S	Feb-11	<0.10	<0.005	<0.004	0.153	<0.001	<0.05	<0.001	130	<0.001		0.012	0.276	<0.002	46.2	6.53	<0.0002	0.016	2.8	<0.010	<0.001	1.8	<0.002		0.038		
MW-233S	Apr-12	1.4	<0.0068	<0.0056	0.079	<0.0030	0.026	<0.0059	146	0.0016		0.0097	1.2	<0.0030	34	0.88	<0.00012	0.0059	2.3	<0.0087	<0.0017	1.6	<0.010		0.0098		
MW-233S	Jul-13	<0.060	<0.0068	<0.0056	0.077	<0.0030	0.021	<0.0050	120	<0.0010		0.0023	0.023	<0.0030	34	0.29	<0.00012	<0.0013	2.4	<0.0087	<0.0017	1.5	<0.010		0.0026		
MW-234S	Nov-89	27.4	<0.06	0.0131	0.275	<0.005		<0.01	112	0.042	0.084		5.8	0.0284		1.68	0.00029	0.050		<0.005	<0.01	4.42	<0.01		0.175		
MW-234S	Feb-90							<0.01					5.09	<0.3		0.41											
MW-234S	Apr-90							<0.01					5.57	<0.3		0.461											
MW-234S	Nov-90	3.1	<0.060	<0.020	0.12	<0.01		<0.01	81	<0.03		<0.02	4.4	<0.020	13	0.46	<0.001	<0.04	1.5	<0.005	<0.02	4	<0.010		0.08		
MW-234S	Feb-91							<0.010	82.5				1.21	<0.020	12.1	0.381			0.776					3.69			
MW-234S	Mar-91							<0.010	83.1				0.806	<0.020	11.7	0.374			0.8					3.78			
MW-234S	Aug-91							<0.010	80.9				3.33	<0.020	12.4	0.444			1.25					3.64			
MW-234S	Nov-91							<0.010	74				3.55	<0.020	10.4	0.404			1.23					3.9			
MW-234S	Feb-92	0.79	<0.060	<0.020	<0.10	<0.010		<0.010	97.5	<0.020		<0.020	0.975	<0.020	16.6	0.559	<0.001	<0.040	0.94	<0.005	0.047	3.82	<0.010		<0.020		
MW-234S	May-92							<0.010	78.2				3.74	<0.020	12.7	0.432			0.98						2.27		
MW-234S	Aug-92							<0.010	68.3				2.47	<0.020	10.7	0.346			1.35						2.47		
MW-234S	Dec-92							<0.010	69.2				5.84	<0.020	11.7	0.331			2.35						4.15		
MW-234S	Feb-93							<0.010	54.4				9.1	0.035	12.1	0.574			2.25						3.73		
MW-234S	May-93	5.4	<0.060	<0.020	<0.10	<0.010		<0.010	68.2	<0.020		<0.020	7.86	0.008	11.6	0.466	<0.001	<0.040	2.5	<0.005	<0.020	4.56	<0.010		0.048		
MW-234S	Aug-93							<0.010	69.9				9.25	0.009	16.1	0.423			1.6						6.63		
MW-234S	Dec-93							<0.010	76.6				11.9	0.008	16.6	0.695			3.14						4.49		
MW-234S	Feb-94							<0.010	79.7				7.91	<0.005	14	0.539			1.93						4		
MW-234S	May-94							<0.010	91.1				3.36	0.071	14.4	0.48			1.05						5.84		
MW-234S	Aug-94	0.26	<0.060	<0.020	<0.10	<0.010		<0.010	104	<0.020		<0.020	0.2	<0.005	15.8	0.48	<0.001	0.075	1.21	<0.005	<0.020	3.18	<0.005		<0.020		
MW-234S	Nov-94							<0.010	62				0.66	<0.005	12	0.42			0.96						3.99		
MW-234S	March-95							<0.010	91				2.19	<0.005	18	0.59			1.86						3.2		
MW-234S	June-95							<0.010	80.5				1.05	<0.005	14.2	0.55			1.02						2.9		
MW-234S	Sept-95							<0.010	80.9				3.05	<0.005	14.2	0.56			1.43						2.86		
MW-234S	Nov-95	1.02	<0.060	<0.020	0.16	0.01		<0.010	71.4	<0.020		0.027	2.06	<0.005	16.2	0.58	<0.001	<0.040	1.09	<0.005	<0.020	3.85	<0.005		0.078		
MW-234S	April-96	1.9	<0.1	<0.01	<0.2	<0.005		<0.002	95	<0.01		<0.02	3.4	0.019	14	0.31	<0.0002	<0.01	1.6	<0.1	<0.01	5	<0.03		0.082		
MW-234S	June-96							<0.01	120				6.9	<0.01	18	0.72			1.7						3.7		
MW-234S	Sept-96							<0.01	130				20	0.028	24	1.3			3.3						4.3		
MW-234S	Nov-96							<0.01	120				0.40	<0.01	18	0.6			<1						3.5		
MW-234S	Mar-97	9.4	<0.06	<0.01	<0.2	<0.01		<0.01	140	0.015		0.033	17	0.028	23	1	<0.0004	0.016	3.7	<0.05	<0.01	3.4	<0.03		0.086		
MW-234S	June-97							<0.01	140				28	0.025	27	1.3			4.8						3.2		



TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Bc (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
Class GA GW Qual. Sta's & Guid. Val.				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2
MW-234D	Dec-99	0.73	<0.01	<0.01	<2	<0.01	<5	<0.01	120	<0.01	<0.01	<0.01	2.6	<0.01	28	0.58	<0.002	<0.01	2.9	0.052	<0.01	20	<0.01	<0.01	0.012
MW-234D	Apr-00	0.157	<0.050	0.004	0.077	<0.002	0.053	<0.0050	70.4	<0.010	<0.010	<0.017	0.312	<0.001	12.6	0.019	<0.002	<0.012	8.97	<0.002	<0.010	19.1	<0.001	<0.010	0.02
MW-234D	Jun-00							<0.0050	103				0.721	0.002	19.7	0.461			1.32						15.7
MW-234D	Sep-00							<0.005	102				0.714	0.005	19.3	0.446			1.16						15.8
MW-234D	Dec-00							<0.005	96.3				0.499	0.001	16.8	0.269			1.33						11.2
MW-234D	Mar-01							<0.005	88.4				0.358	<0.001	15.4	0.352			1.17						9.63
MW-234D	Jun-01	<0.075	<0.050	0.009	0.064	<0.002	<0.048	<0.005	102	<0.010	<0.010	<0.017	0.232	0.004	19.5	0.487	<0.002	<0.012	1.65	<0.002	<0.010	16.6	<0.001	<0.010	<0.020
MW-234D	Sep-01							<0.005	105				1.05	0.002	21.2	0.487			1.77						20.3
MW-234D	Dec-01							<0.005	107				1.14	0.001	21.8	0.489			2.26						21.6
MW-234D	Mar-02							<0.005	108				0.913	0.004	20.2	0.479			1.49						19.7
MW-234D	Jun-02							<0.005	98				0.698	0.003	18.5	0.44			1.9						17.9
MW-234D	Sept-02	<0.075	<0.050	0.01	0.059	<0.002	0.063	<0.005	95.3	<0.010	<0.0100	<0.017	0.717	0.001	17.9	0.424	<0.002	<0.012	1.4	<0.001	<0.010	19.3	<0.001	<0.010	<0.020
MW-234D	Dec-02							<0.001	98.6				0.814	<0.001	19.6	0.517			1.69						19.1
MW-234D	Apr-04	<0.1	<0.050	0.009	0.072	<0.002	0.053	<0.001	107	<0.002	<0.010	<0.017	0.664	<0.001	20.3	0.333	<0.002	0.013	2.39	<0.001	<0.010	19.2	<0.001	<0.010	<0.020
MW-234D	Jun-05	0.0697	<0.0025	<0.0052	0.0789	<0.0004	0.024	<0.0008	62.6	0.0016	<0.0019	0.0058	0.389	0.0034	11.6	0.269	<0.00016	0.0023	11.8	<0.0039	0.0027	16.9	<0.0029	<0.002	0.119
MW-234D	Sep-06	<0.200	<0.060	0.007	<0.200	<0.005	<0.050	<0.005	110	<0.010	<0.050	<0.025	0.71	<0.005	22	0.59	<0.002	<0.040	<5	<0.010	<0.010	<0.010	<0.010	<0.050	<0.020
MW-234D	Dec-07	0.56	<0.01	0.024	<0.2	<0.01	<0.5	<0.01	100	<0.01	<0.01	<0.01	1.5	<0.01	21	0.58	<0.002	<0.01	2.9	0.23	<0.01	22	<0.01	<0.01	0.017
MW-234D	Aug-09	0.21	<0.02	<0.02	0.07	<0.02	<0.1	<0.02	80	<0.02	<0.02	<0.02	0.64	<0.02	16	0.49	<0.001	<0.02	5.2	<0.02	<0.01	19	0.03	<0.02	<0.02
MW-234D	Apr-12	0.74	<0.0068	0.007	0.072	<0.00030	0.031	<0.00050	96	0.0017		0.0022	0.93	<0.0030	18	0.48	<0.0012	<0.0013	1.7	<0.0087	<0.0017	21.6	<0.010	<0.010	0.053
MW-234D	Jul-13	<0.060	<0.0068	<0.0056	0.064	<0.00030	0.033	<0.00050	96	<0.0010		<0.0016	0.2	<0.0030	16	0.4	<0.0012	<0.0013	1.4	<0.0087	<0.0017	14	<0.010		0.0015
MW-2358	Nov-89	15.7	<0.06	0.0574	0.213	<0.005		<0.010	138	0.0233		0.0495	39.4	0.0198		2.03	0.0084	<0.04		<0.005	<0.01	14	<0.01		0.113
MW-2358	Feb-90			0.0448				<0.010					19.8	<0.003		1.1									
MW-2358	Apr-90			0.0481				<0.010					7.7	0.0056		0.984									
MW-2358	Nov-90	0.93	<0.060	0.039	0.15	<0.01		<0.01	100	<0.03		<0.02	4.7	<0.020	23	0.99	<0.001	<0.04	1.2	<0.005	<0.02	12	<0.010		0.07
MW-2358	Feb-91							<0.010	105				12.9	<0.020	25.9	1.15			2.69						12.1
MW-2358	May-91							<0.010	92.8				4.51	<0.020	21.9	0.912			1.27						11
MW-2358	Aug-91							<0.010	100				6.83	<0.020	23.8	1.02			1.39						11.2
MW-2358	Nov-91							<0.010	96.9				6.39	<0.020	19.8	0.952			1.3						11.5
MW-2358	Feb-92	2.86	<0.060	0.04	0.17	<0.010		<0.010	109	<0.020		<0.020	5.25	<0.020	23.8	1.02	<0.001	<0.040	1.9	<0.005	0.042	12.2	<0.010		<0.020
MW-2358	May-92							<0.010	122				3.04	<0.020	20.7	1.12			0.91						12.3
MW-2358	Aug-92							<0.010	88.3				4.53	<0.020	20.6	0.828			1.79						8.73
MW-2358	Dec-92							<0.010	91				7.94	<0.020	21.1	0.746			2.38						11.7
MW-2358	Feb-93							<0.010	77.6				9.17	<0.020	19.5	1.04			2.38						11.8
MW-2358	Mar-93	2.1	<0.060	0.034	0.26	<0.010		<0.010	91.3	<0.020		<0.020	7.52	0.007	21.2	0.879	<0.001	<0.040	1.82	0.005	<0.020	11.3	<0.010		<0.020
MW-2358	Aug-93							<0.010	100				7.57	0.006	28.8	0.807			1.13						14.9
MW-2358	Dec-93							<0.010	104				10.4	0.005	29.1	1.22			2.54						12.4
MW-2358	Feb-94							<0.010	93.5				6.5	<0.005	25	1.03			1.58						10.3
MW-2358	Mar-94							<0.010	111				6.52	<0.005	25.2	0.94			0.84						11.3
MW-2358	Aug-94	0.58	<0.060	<0.020	<0.10	<0.010		<0.010	118	<0.020		<0.020	6.8	<0.005	26.1	1.06	<0.001	0.081	1.42	<0.005	<0.020	7.32	<0.005		<0.020
MW-2358	Nov-94							<0.010	84.5				4.49	<0.005	24.8	1			3.56						11.2
MW-2358	March-95							<0.010	104				5.56	<0.005	26.5	1.13			1.65						10.6
MW-2358	June-95							<0.010	102				4.42	<0.005	25.1	1.19			1.12						10
MW-2358	Sept-95							<0.010	110				4.94	<0.005	26.3	1.14			1.15						5.1
MW-2358	Nov-95	1.53	<0.060	0.043	0.42	<0.010		<0.010	91	<0.020		0.03	6.62	<0.005	28.4	1.15	<0.001	<0.040	7.26	<0.005	<0.020	153	<0.005		0.077
MW-2358	April-96	3.8	<0.1	0.021	<0.2	<0.003		<0.002	130	<0.01		<0.02	11	0.012	22	1.2	<0.002	<0.01	3.3	<0.1	<0.01	13	<0.03		0.076
MW-2358	June-96							<0.01	48				0.81	<0.01	11	0.53			2.5						20
MW-2358	Sept-96							<0.01	130				24	0.02	27	1.6			3.5						10
MW-2358	Nov-96							<0.01	110				5.1	<0.01	22	1.2			1.5						10
MW-2358	March-97	3.6	<0.06	0.015	<0.2	<0.01		<0.02	120	<0.01		<0.02	9.3	0.015	23	1.1	<0.004	<0.01	2.5	<0.05	<0.01	6.5	<0.03		0.077
MW-2358	June-97							<0.01	120				14	0.023	30	1.4			3.2						9.9
MW-2358	Sept-97							<0.01	130				12	0.01	32	1.4			2.5						12
MW-2358	Dec-97							<0.01	120				10	<0.01	29	1.3			2.7						12
MW-2358	Mar-98							<0.01	150				16	0.013	34	1.5			4.9						12
MW-2358	June-98	4.9	<0.06	0.077	0.24	<0.01	<1	<0.01	140	0.01	<0.01	<0.02	18	0.013	37	1.6	<0.002	0.013	3.2	<0.05	<0.01	12	<0.03	<0.03	0.091
MW-2358	Sept-98							<0.01	160				17	<0.01	40	1.5			4.2						9.3
MW-2358	Dec-98							<0.01	180				18	<0.01	42	1.8			<1						10
MW-2358	Jun-00							<0.0050	183				13.7	0.002	42.3	1.37			1.46						8.67
MW-2358	Sep-00							<0.005	187				13.9	0.004	42.3	1.31			1.19						7.97
MW-2358	Dec-00							<0.005	187				14.8	0.001	41.3	1.25			1.44						7.53
MW-2358	Mar-01							<0.005	166				13.2	<0.001											

TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Cu (mg/l)	Cu (mg/l)	Fe (mg/l)	Ph (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	TI (mg/l)	V (mg/l)	Zn (mg/l)	
Class GA GW Qual. Std's & Guid. Val.				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2	
MW-235S	Mar-02							<0.005	207				18.4	<0.001	44.2	1.33			1.46			8.69				
MW-235S	Jun-02							<0.005	197				18.8	0.002	43.7	1.25			3.19			10.6				
MW-235S	Sept-02	0.113	<0.050	0.068	0.371	<0.002	0.103	<0.005	199	<0.010	<0.0100	<0.017	19.2	0.001	43	1.19	<0.0002	<0.012	1.59	0.001	<0.010	9.13	<0.001	<0.010	0.021	
MW-235S	Dec-02							<0.001	207				20.1	<0.001	42.7	1.23			1.72			7.69				
MW-235S	Apr-04	<0.1	<0.050	0.073	0.416	<0.002	0.074	<0.001	188	<0.002	<0.010	<0.017	20.4	<0.001	38.6	1.07	<0.0002	<0.012	2.89	<0.001	<0.010	8.21	<0.001	0.01	<0.020	
MW-235S	Jun-05																									
MW-235D	Nov-89	0.329	<0.06	<0.01	<0.2	<0.005		<0.010	59.8	<0.01		<0.025	0.72	<0.003		0.231	<0.0002	<0.04		<0.005	<0.01	48.5	<0.01		0.0215	
MW-235D	Feb-90			<0.01				<0.010					3.33	<0.003		0.421										
MW-235D	Apr-90			<0.01				<0.010					6.88	0.004		3.16										
MW-235D	Nov-90	0.25	<0.060	<0.020	0.11	<0.01		<0.01	93	<0.03		<0.02	1.6	<0.020	19	2.6	<0.001	<0.04	1.3	<0.005	<0.02	8.5	<0.010		0.05	
MW-235D	Feb-91							<0.010	105				0.418	<0.020	22	0.175			1.14			5.64				
MW-235D	Mar-91							<0.010	103				0.679	<0.020	20.5	0.871			1.03			4.08				
MW-235D	Aug-91							<0.010	103				1.35	<0.020	21.1	0.78			1.27			4.38				
MW-235D	Nov-91							<0.010	85.8				1.29	<0.020	15.1	1.65			0.87			3.96				
MW-235D	Feb-92	0.49	<0.060	<0.020	0.14	<0.010		<0.010	86	<0.020		<0.020	1.38	<0.020	19.3	1.74	<0.001	<0.040	1.09	<0.005	0.035	4.51	<0.010		0.052	
MW-235D	Mar-92							<0.010	98.7				1.3	<0.020	20.7	0.539			0.85			3.09				
MW-235D	Aug-92							<0.010	76.3				0.584	<0.020	16.5	0.545			1.44			5.21				
MW-235D	Dec-92							<0.010	111				4.18	<0.020	26	1.47			2.23			5.87				
MW-235D	Feb-93							<0.010	65.5				1.69	<0.020	16.5	1.58			1.49			12.2				
MW-235D	Mar-93	<0.20	<0.060	<0.020	<0.10	<0.010		<0.010	70.9	<0.020		<0.020	0.589	<0.005	15.9	0.325	<0.001	<0.040	1.65	<0.005	<0.020	17.7	<0.010		0.035	
MW-235D	Aug-93							<0.010	64.1				1.06	<0.005	19.2	0.366			1.06			27				
MW-235D	Dec-93							<0.010	67.6				0.566	0.006	17.7	0.549			1.83			24.3				
MW-235D	Feb-94							<0.010	38.7				1.24	<0.005	7.7	0.38			2.7			7.51				
MW-235D	May-94							<0.010	55.4				0.29	<0.005	9.7	0.59			1.57			15.4				
MW-235D	Aug-94	0.42	<0.060	<0.020	<0.10	<0.010		<0.010	37.5	<0.020		<0.020	0.5	<0.005	11.8	0.87	<0.001	0.074	2.02	<0.005	<0.020	11.7	<0.005		0.024	
MW-235D	Nov-94							<0.010	42.2				0.18	<0.005	11.2	0.35			2.08			19.2				
MW-235D	March-95							<0.010	52.5				0.4	<0.005	12	0.38			1.85			21.5				
MW-235D	June-95							<0.010	49.6				0.14	<0.005	11.8	0.46			2.57			21.2				
MW-235D	Sept-95							<0.010	61				0.54	<0.005	14.2	0.48			2.15			25.6				
MW-235D	Nov-95	0.54	<0.060	<0.020	0.22	<0.010		<0.010	46.7	<0.020		<0.020	0.84	<0.005	12.3	0.63	<0.001	<0.040	3.3	<0.005	<0.020	22.9	<0.005		0.048	
MW-235D	April-96	0.81	<0.1	<0.01	<0.2	<0.003		<0.002	49	<0.01		<0.02	1.4	<0.01	10	0.66	<0.0002	<0.01	3.2	<0.1	<0.01	15	<0.03		0.056	
MW-235D	June-96							<0.01	120				12	<0.01	24	1.3			2.2			11				
MW-235D	Sept-96							<0.01	49				5.2	0.021	11	0.86			3.2			22				
MW-235D	Nov-96							<0.01	52				1.3	<0.01	12	0.52			2.2			24				
MW-235D	Mar-97	0.64	<0.06	<0.01	<0.2	<0.01		<0.01	51	<0.01		<0.02	1.9	0.012	12	0.61	<0.0004	<0.01	2.6	<0.05	<0.01	17	<0.03		0.081	
MW-235D	June-97							<0.01	52				1.6	0.012	13	0.52			2.3			22				
MW-235D	Sept-97							<0.01	54				1.6	<0.01	14	0.4			2.2			30				
MW-235D	Dec-97							<0.01	50				3	0.012	13	0.69			2.7			33				
MW-235D	Mar-98							<0.01	51				1.1	<0.01	13	0.32			2.2			32				
MW-235D	June-98	0.6	<0.06	<0.01	<0.2	<0.01	<1	<0.01	52	<0.01	<0.01	<0.02	1.9	0.011	14	0.37	<0.0002	<0.01	2.8	<0.05	<0.01	36	<0.03	<0.03	0.1	
MW-235D	Sept-98							<0.01	53				2.8	<0.01	14	0.43			3.5			25				
MW-235D	Dec-98							<0.01	61				2.4	<0.01	13	0.65			<1			31				
MW-235D	Jun-00							<0.0050	69.7				2.36	0.01	14	0.931			2.67			10.7				
MW-235D	Sept-00							<0.005	65				0.318	0.004	15.1	0.166			1.72			29.7				
MW-235D	Dec-00							<0.005	58.1				0.375	<0.001	13.7	0.299			1.7			30.7				
MW-235D	Mar-01							<0.005	53.6				0.263	<0.001	13	0.103			1.82			22.8				
MW-235D	Jun-01	<0.075	<0.050	0.003	0.061	<0.002	0.078	<0.005	56.4	<0.010	<0.010	<0.017	0.108	0.004	13.6	0.072	<0.0002	<0.012	2.14	<0.002	<0.010	52.1	<0.001	<0.010	<0.020	
MW-235D	Sept-01							<0.005	57.5				0.463	0.004	13.9	0.092			5.9			34				
MW-235D	Dec-01							<0.005	62.6				1.55	0.002	14.5	0.806			3.96			51.9				
MW-235D	Mar-02							<0.005	61				0.301	<0.001	14	0.165			2.67			50.4				
MW-235D	Jun-02							<0.005	55.5				0.325	0.002	13.8	0.593			2.9			33.4				
MW-235D	Sept-02	<0.075	<0.050	0.006	0.068	<0.002	0.08	<0.005	53.1	<0.010	<0.0100	<0.017	0.493	0.002	13.2	0.451	<0.0002	<0.012	4.7	<0.001	<0.010	33.3	<0.001	<0.010	0.029	
MW-235D	Dec-02							<0.001	54				1.21	<0.001	14.1	0.304			3.84			31.9				
MW-235D	Apr-04	0.103	<0.050	0.007	0.099	<0.002	0.051	<0.001	74.6	<0.002	<0.010	<0.017	0.637	0.003	15											

TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Cu (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Ns (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
Class GA GW Qual. Std's & Guid. Val.				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	30	0.001		1	
MW-236S	Feb-92	2.26	<0.060	<0.020	0.16	<0.010		<0.010	69.5	<0.020		<0.020	3.03	<0.020	10.2	0.489	<0.001	<0.040	1.35	<0.005	<0.020	8.09	<0.010		0.647	
MW-236S	Mar-92							<0.010	69.2				3.63	<0.020	9.73	0.446			1.16			6.46				
MW-236S	Aug-92							<0.010	61.6				2.86	<0.020	8.85	0.403			1.9			6.13				
MW-236S	Dec-92							<0.010	59.7				3.04	<0.020	8.65	0.295			1.56			7.32				
MW-236S	Feb-93							<0.010	48.3				12.8	<0.020	10.9	0.764			3.63			7.39				
MW-236S	Mar-93	4.34	<0.060	<0.020	<0.10	<0.010		<0.010	65.2	<0.020		<0.020	4.77	<0.005	9.34	0.408	<0.001	<0.040	2.38	<0.005	<0.020	9.15	<0.010		<0.020	
MW-236S	Aug-93							<0.010	58.3				7.68	0.008	14.4	0.586			1.87			8.78				
MW-236S	Dec-93							<0.010	68.1				9.79	<0.005	12.7	0.725			2.94			9.61				
MW-236S	Feb-94							<0.010	74.4				23	0.01	17	0.989			3.59			10.1				
MW-236S	Mar-94							<0.010	76.1				2.31	<0.005	15.2	0.52			0.74			12.8				
MW-236S	Aug-94	1.3	<0.060	<0.020	<0.10	<0.010		<0.010	78.6	<0.020		0.062	13.2	<0.005	11.2	0.15	<0.001	0.12	1.62	<0.005	<0.020	0.771	<0.005		<0.020	
MW-236S	Nov-94							<0.010	83.6				1.71	<0.005	19.2	1.09			1.55			14.1				
MW-236S	Mar-95							<0.010	116				2.21	<0.005	28.4	2.01			2.13			14.3				
MW-236S	June-95							<0.010	96.8				1.22	0.005	18.8	1.85			1.33			9.35				
MW-236S	Sept-95							<0.010	57.5				6.33	<0.005	11.6	2.08			2.4			9.62				
MW-236S	Nov-95	2.9	<0.060	<0.020	0.31	<0.010		<0.010	77.8	<0.020		0.037	4.4	<0.005	15.5	1.46	<0.001	<0.040	2.28	<0.005	<0.020	14.4	<0.005		0.035	
MW-236S	April-96	7.5	<0.1	<0.01	<0.2	<0.003		<0.002	120	0.012		<0.02	15	0.016	20	4.9	<0.0002	0.019	2.9	<0.1	<0.01	16	<0.03		0.11	
MW-236S	June-96							<0.01	79				9.9	0.011	13	2.6			2.4			10				
MW-236S	Sept-96							<0.01	83				7.7	<0.01	14	1.6			1.9			12				
MW-236S	Nov-96							<0.01	82				3.6	0.012	13	1.6			1.4			11				
MW-236S	Mar-97	22	<0.06	<0.01	<0.2	<0.01		<0.01	110	0.036		0.044	45	0.043	21	5	<0.0004	0.047	6.4	<0.05	<0.01	10	<0.03		0.2	
MW-236S	June-97							<0.01	130				56	0.044	30	11			5.5			9.6				
MW-236S	Sept-97							<0.01	97				15	0.013	20	4.5			3.1			12				
MW-236S	Dec-97							<0.01	110				8	<0.01	20	3.1			2.6			15				
MW-236S	Mar-98							<0.01	130				15	0.013	27	3.7			3.8			15				
MW-236S	June-98	7.6	<0.06	0.027	<0.2	<0.01	<1	<0.01	96	0.012	<0.01	<0.02	14	0.012	20	1.4	<0.0002	0.015	3.7	<0.05	<0.01	12	<0.03	<0.03	0.076	
MW-236S	Sept-98							<0.01	86				18	0.017	16	6			4.6			9.7				
MW-236S	Dec-98							<0.01	92				24	<0.01	14	11			1.4			8				
MW-236S	Apr-99							Location Not Sampled																		
MW-236S	Jun-99							Location Not Sampled																		
MW-236S	Sept-99							Location Not Sampled																		
MW-236S	Dec-99							Location Not Sampled																		
MW-236S	Apr-00							Location Not Sampled																		
MW-236S	Jun-00							Location Not Sampled																		
MW-236S	Sept-00							Location Not Sampled																		
MW-236S	Dec-00							Location Not Sampled																		
MW-236S	Mar-01							Location Not Sampled																		
MW-236S	Jun-01							Location Not Sampled																		
MW-236S	Sept-01							Location Not Sampled																		
MW-236S	Dec-01							Location Not Sampled																		
MW-236S	Mar-02							Location Not Sampled																		
MW-236S	Jun-02							Location Not Sampled																		
MW-236S	Sept-02							Location Not Sampled																		
MW-236S	Dec-02							Location Not Sampled																		
MW-236S	Apr-04							Location Not Sampled																		
MW-236S	Jun-05							Location Not Sampled																		
MW-236D	Nov-89	6.91	<0.6	<0.01	<0.2	<0.005		<0.010	77.4	0.0198		0.0363	27.4	0.0106		0.525	<0.0002	<0.04		<0.005	<0.01	24.5	<0.01		0.103	
MW-236D	Feb-90			<0.01				<0.010					0.985	<0.003		0.0411										
MW-236D	Apr-90			<0.01				<0.010					0.214	<0.003		0.0221										
MW-236D	Nov-90	0.73	<0.060	<0.020	0.04	<0.01		<0.01	44	<0.03		<0.02	2.2	<0.020	19	0.06	<0.001	<0.04	2	<0.005	<0.02	24	<0.010		<0.02	
MW-236D	May-91							<0.010	46.1				4.58	<0.020	19.3	0.103			2.48			23				
MW-236D	Aug-91							<0.010	40.3				0.262	<0.020	17.1	0.024			1.83			25				
MW-236D	Nov-91							<0.010	40.3				0.432	<0.020	14.4	0.048			1.64			24.7				
MW-236D	Feb-92	1.38	<0.050	<0.020	<0.10	<0.010		<0.010	38.3	<0.020		<0.020	3.09	<0.020	17.8	0.051	<0.001	<0.040	2.05	<0.005	<0.020	21.2	<0.010		0.02	
MW-236D	May-92							<0.010	38.8				0.439	<0.020	16	<0.020			1.31			20.2				
MW-236D	Aug-92							<0.010	33.3				0.209	<0.020	14.4	0.023			2.48			18.4				
MW-236D	Dec-92							<0.010	35.2				0.659	<0.020	13.7	0.026			1.79			24.5				
MW-236D	Feb-93							<0.010	29.1				0.156	<0.020	12.6	0.024			1.74			21.8				
MW-236D	May-93	<0.20	<0.060	<0.020	<0.10	<0.010		<0.010	33.6	<0.020		<0.020	0.11	<0.005	13.7	<0.020	<0.003	<0.040	1.95	<0.005	<0.020	24.5	<0.010		<0.020	
MW-236D	Sept-93							<0.010	32.7				0.263	<0.005	18.8											



TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Ph (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	TI (mg/l)	V (mg/l)	Zn (mg/l)		
Class GA GW Qual. Std's & Guid. Val.				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2		
MW-236D	Aug-94	0.66	<0.060	<0.020	<0.10	<0.010		<0.010	40.2	<0.020		0.07	0.36	0.007	15.6	0.029	<0.001	0.14	2.34	<0.005	<0.020	18	<0.005		0.055		
MW-236D	Nov-94							<0.010	29			0.16	<0.005	15.1	<0.020			1.63			23.7						
MW-236D	March-95							<0.010	35.2			0.43	0.007	16	<0.020			2.31			24						
MW-236D	June-95							<0.010	35.2			0.16	<0.005	17.4	0.027			2.11			9.34						
MW-236D	Sept-95							<0.010	37.2			0.092	<0.005	15.8	0.026			1.85			22.4						
MW-236D	Nov-95	0.23	<0.060	<0.020	0.18	<0.010		<0.010	32.7	<0.020		0.14	0.33	<0.005	15.9	0.025	<0.001	<0.040	1.96	<0.005	<0.020	27.5	<0.005		0.052		
MW-236D	April-96	<0.1	<0.1	<0.01	<0.2	<0.003		<0.002	35	<0.01		<0.02	0.22	<0.01	14	0.019	<0.0002	<0.01	1.9	<0.1	<0.01	26	<0.03		0.053		
MW-236D	June-96							<0.01	26			0.37	<0.01	14	0.019			1.9			23						
MW-236D	Sept-96							<0.01	37			0.53	0.015	16	0.024			2			24						
MW-236D	Nov-96							<0.01	34			0.42	<0.01	13	0.022			1.5			20						
MW-236D	Mar-97	0.3	<0.06	<0.01	<0.2	<0.01		<0.01	33	<0.01		<0.02	0.83	0.011	14	0.025	<0.0004	<0.01	2	0.062	<0.01	15	<0.03		0.079		
MW-236D	June-97							<0.01	39			0.45	<0.01	16	0.03			1.9			17						
MW-236D	Sept-97							<0.01	35			0.35	<0.01	14	0.025			1.6			21						
MW-236D	Dec-97							<0.01	35			0.3	<0.01	14	0.031			1.7			24						
MW-236D	Mar-98							<0.01	37			0.6	<0.01	16	0.035			1.9			23						
MW-236D	June-98	<0.1	<0.06	<0.01	<0.2	<0.01	<1	<0.01	35	<0.01	<0.01	<0.02	0.32	0.01	15	0.022	<0.0002	<0.01	1.8	<0.05	<0.01	24	<0.03	<0.03	0.023		
MW-236D	Sept-98							<0.01	35			0.35	0.01	16	0.023			2.4			21						
MW-236D	Dec-98							<0.01	41			0.73	<0.01	14	0.036			<1			20						
MW-236D	Apr-99							Location Not Sampled																			
MW-236D	Jun-99							Location Not Sampled																			
MW-236D	Sept-99							Location Not Sampled																			
MW-236D	Dec-99							Location Not Sampled																			
MW-236D	Apr-00							Location Not Sampled																			
MW-236D	Jun-00							Location Not Sampled																			
MW-236D	Sept-00							Location Not Sampled																			
MW-236D	Dec-00							Location Not Sampled																			
MW-236D	Mar-01							Location Not Sampled																			
MW-236D	Jun-01							Location Not Sampled																			
MW-236D	Sept-01							Location Not Sampled																			
MW-236D	Dec-01							Location Not Sampled																			
MW-236D	Mar-02							Location Not Sampled																			
MW-236D	Jun-02							Location Not Sampled																			
MW-236D	Sept-02							Location Not Sampled																			
MW-236D	Dec-02							Location Not Sampled																			
MW-236D	Apr-04							Location Not Sampled																			
MW-236D	Jun-05							Location Not Sampled																			
MW-245S	Nov-89	116	<0.6	0.05	0.889	0.01		<0.010	450	0.199		0.425	269	0.168		0.00997	0.00047	0.286		<0.005	<0.01	12.7	<0.01		0.725		
MW-245S	Feb-90							<0.010					150	0.0719		0.00542											
MW-245S	Apr-90							<0.010					0.917	0.0033		0.002											
MW-245S	Nov-90	4	<0.060	<0.020	0.07	<0.01		<0.01	207	<0.03		<0.02	7.3	<0.020	41	2.2	<0.001	<0.04	2.6	<0.005	<0.02	13	<0.010		0.05		
MW-245S	Feb-91							<0.010	197				4.83	<0.020	42.4	1.9			2.61			15.6					
MW-245S	May-91							<0.010	178				1.63	<0.020	45.7	1.58			2.26			20.1					
MW-245S	Aug-91							<0.010	208				7.84	<0.020	41.4	2.16			2.9			16.3					
MW-245S	Nov-91							<0.010	171				55.9	0.028	45.4	2.78			6.8			11.7					
MW-245S	Feb-92	1.08	<0.060	<0.020	0.15	<0.010		<0.010	214	<0.020		<0.020	1.92	<0.020	42	2.08	<0.001	<0.040	1.93	<0.005	<0.020	13.1	<0.010		<0.020		
MW-245S	May-92							<0.010	191				1.72	<0.020	44.1	1.6			1.64			15.8					
MW-245S	Aug-92							<0.010	156				4.41	<0.020	37.9	1.46			3.2			13.6					
MW-245S	Dec-92							<0.010	159				32.1	0.021	46.3	1.73			7.12			19.9					
MW-245S	Feb-93							<0.010	140				20.8	0.02	40.3	2.09			4.82			23.2					
MW-245S	Jun-93	8.08	<0.060	<0.020	<0.10	<0.010		<0.010	147	<0.020		0.028	9.36	0.009	32.9	1.34	<0.001	<0.040	4.13	<0.005	<0.020	14	<0.010		0.046		
MW-245S	Sept-93							<0.010	150				13.3	0.011	46.8	1.35			3.15			16.1					
MW-245S	Dec-93							<0.010	163				0.419	<0.005	30.1	1.78			2.95			18.2					
MW-245S	Feb-94							<0.010	176				13.7	<0.005	46	1.88			4.06			20					
MW-245S	May-94							0.033	180			5.32	0.01	44.7	1.72			2.01			25.7						
MW-245S	Aug-94	0.27	<0.060	<0.020	<0.10	<0.010		<0.010	136	<0.020		0.048	0.26	<0.005	26.1	1.29	<0.001	0.095	1.59	<0.005	<0.020	12.8	<0.005		0.047		
MW-245S	Nov-94							<0.010	136				0.37	<0.005	38.6	1.36			1.63			18.4					
MW-245S	March-95							<0.010	174				3.08	<0.005	51	1.9			2.34			23					
MW-245S	June-95							<0.010	170				2.03	<0.005	44.3	1.54			2.11			15.1					
MW-245S	Sept-95							<0.010	150				9.54	<0.005	45.6	2.17			3.07			16.9					
MW-245S	Dec-95	<0.20	<0.060	<0.020	0.33	<0.010		<0.010	173	<0.020		0.072	0.59	<0.015	32.1	1.8	<0.001	<0.040	2.21	<0.005	<0.020	30.5	<0.005		0.05		
MW-245S	April-96	11	<0.1	<0.01	<0.2	<0.003		<0.002	240	0.015		0.03	18	0.019	27	2.2	<0.0002	0.021	5.8	<0.1	<0.01	27	<0.03		0.064		
MW-245S	June-96							<0.01	220				52	<0.01	31	3			6.4			24					
MW-245S	Sept-96							<0.01	200				29	0.029	33	2.2			4.8			24					

TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)
Class GA GW Qual. Sds & Guid. Val.				0.025	1	0.003	1	0.005		0.05		0.2	0.3	0.025	35	0.3	0.002	0.1		0.01	0.05	20	0.001		2
MW-245S	Nov-96							<0.01	160				54	0.035	33	2.8			6.8			22			
MW-245S	Mar-97	20	<0.06	<0.01	<0.2	<0.01		<0.01	190	0.034		0.062	47	0.032	29	2.5	<0.0004	0.044	8.3	<0.05	0.014	16	<0.03		0.2
MW-245S	June-97							<0.01	190				24	0.022	42	2.1			5			17			
MW-245S	Sept-97							<0.01	160				23	0.019	35	2			5.9			20			
MW-245S	Dec-97							<0.01	160				18	0.014	37	1.9			4.8			20			
MW-245S	Mar-98							<0.01	180				11	<0.01	37	1.8			3.4			20			
MW-245S	June-98	10	<0.06	0.034	<0.2	<0.01	<1	<0.01	130	0.02	0.011	0.028	20	0.016	32	1.6	<0.0002	0.027	5.8	<0.05	<0.01	15	<0.03	<0.03	0.12
MW-245S	Sept-98							<0.01	180				52	0.014	47	2.5			9.8			18			
MW-245S	Dec-98							<0.01	240				60	0.019	49	3			8.2			24			
MW-245S	Apr-99							<0.01	150				40	0.021	51	2.6			4.9			19			
MW-245S	Jun-99							<0.01	210				28	0.012	50	2.6			3.7			26			
MW-245S	Sept-99							<0.01	180				26	<0.01	44	2.2			5.7			21			
MW-245S	Dec-99	11	<0.01	0.042	<0.2	<0.01	<0.5	<0.01	170	0.026	0.012	0.045	25	0.015	42	2.4	<0.0002	0.044	4	0.02	<0.01	20	<0.01	0.015	<0.01
MW-245S	Apr-00	1.41	<0.050	0.016	0.047	<0.002	0.07	<0.0050	170	<0.010	<0.010	<0.017	2.31	0.001	38.2	1.7	<0.0002	<0.012	2.09	<0.002	<0.010	19.5	<0.001	<0.010	<0.020
MW-245S	Jun-00							<0.0050	199				0.845	0.004	46.7	2.1			1.92			21			
MW-245S	Sept-00							<0.005	181				3.53	0.005	39.3	2.12			1.81			20.3			
MW-245S	Dec-00							<0.005	154				1.54	0.003	32.6	1.94			1.43			18.2			
MW-245S	Mar-01							<0.005	150				1.59	0.003	34.6	1.59			1.85			17.6			
MW-245S	Jun-01	0.44	<0.050	0.016	0.037	<0.002	<0.048	<0.005	121	<0.010	<0.010	<0.017	1.33	0.007	26.4	1.41	<0.0002	<0.012	1.84	<0.002	<0.010	19.4	<0.001	<0.010	<0.020
MW-245S	Sept-01							<0.005	132				4.91	0.026	30	2.21			2.13			20.5			
MW-245S	Dec-01							<0.005	146				5.2	0.004	32.6	1.62			2.19			23.8			
MW-245S	Mar-02							<0.005	162				4.38	0.005	34.2	1.74			2.02			20			
MW-245S	Jun-02							<0.005	179				2.37	0.003	44.8	1.88			2.29			18.5			
MW-245S	Sept-02	0.494	<0.050	0.02	0.041	<0.002	0.050	<0.005	158	<0.010	<0.010	0.019	1.44	0.004	34.6	1.65	<0.0002	<0.012	1.58	<0.001	<0.010	18.6	<0.001	<0.010	0.021
MW-245S	Dec-02							<0.001	182				0.684	<0.001	45.3	2.18			1.75			17.7			
MW-245S	Apr-04	2.77	<0.050	0.026	0.045	<0.002	0.101	<0.001	121	0.004	<0.010	<0.017	412	3.51	0.004	26.6	1.39	<0.0002	<0.012	2.31	<0.001	<0.010	16.9	<0.001	<0.010
MW-245S	Jun-05	2.8	<0.0025	0.0253	0.0487	<0.0004	0.0316	<0.0008	122	0.005	<0.0010	0.0057	4.64	0.0063	26.9	1.65	<0.00016	0.0028	2.8	<0.0039	0.0039	12.8	<0.0029	0.0049	0.0809
MW-245S	Sept-06	50	<0.060	0.032	0.35	<0.005	0.056	<0.005	230	0.074	<0.050	0.14	100	0.049	67	4.2	<0.0002	0.089	14	<0.010	<0.010	17	<0.010	0.082	0.29
MW-245S	Dec-07	10	<0.01	0.1	<0.2	<0.01	<0.5	<0.01	170	0.016	0.033	<0.01	21	0.023	42	2.1	<0.0002	0.024	5	0.43	<0.01	21	<0.01	0.011	0.076
MW-245S	Aug-09	7.5	<0.02	<0.02	0.12	<0.02	<0.1	<0.02	164	<0.02	<0.02	0.02	11	<0.02	44	2.4	<0.001	<0.02	8.2	<0.02	<0.01	36	0.03	<0.02	0.05
MW-245S	Feb-11	3.06	<0.005	0.048	0.107	<0.001	<0.05	<0.004	145	0.004	0.009	0.009	6.76	<0.002	32.1	1.81	<0.0002	0.006	3.1	<0.010	<0.001	50.1	<0.002	0.029	0.029
MW-245S	Apr-12	21	<0.0068	0.15	0.21	0.0014	0.055	<0.0050	150	0.028	<0.0016	<0.0073	29	0.033	35	2.5	<0.00012	0.029	7.9	<0.0087	<0.0017	27	<0.010	0.097	0.027
MW-245S	Jul-13	5.9	<0.0068	0.032	0.12	<0.0050	0.037	<0.0050	150	0.0089	0.0073	0.0073	6.3	<0.0030	37	1.9	<0.00012	0.0065	4	<0.0087	<0.0017	26	<0.010	0.027	0.027
MW-245D	Feb-90	<0.2	<0.06	<0.01	<0.2	<0.005		<0.01	42.9	<0.01		<0.025	0.425	<0.003		0.063	<0.0002	<0.04		<0.005	<0.01	54.9	<0.01		0.0276
MW-245D	Apr-90			<0.01				<0.01					0.171	<0.003		0.0597									
MW-245D	Nov-90	2.6	<0.060	<0.020	0.09	<0.01		<0.01	66	<0.03		0.03	14	0.042	33	0.12	<0.001	0.09	4	<0.005	<0.02	98	<0.010		0.12
MW-245D	Feb-91							<0.010	69.6				5.05	<0.020	29.1	0.119			3.61			103			
MW-245D	May-91							<0.010	61.8				2.91	<0.020	29.7	0.049			2.79			69.7			
MW-245D	Aug-91							<0.010	89.4				6.32	<0.020	36.4	0.067			2.69			51.6			
MW-245D	Nov-91							<0.010	70.3				8.38	<0.020	27.2	0.092			2.25			69.2			
MW-245D	Feb-92	0.54	<0.060	<0.020	<0.10	<0.010		<0.010	88.1	<0.020		<0.020	2.23	<0.020	36.4	0.114	<0.001	<0.040	2.49	<0.005	<0.020	44.7	<0.010		0.03
MW-245D	May-92							<0.010	80.9				2.01	<0.020	28.7	0.089			2.07			48.1			
MW-245D	Aug-92							<0.010	73.5				0.197	<0.020	27.4	0.06			3.39			40.3			
MW-245D	Dec-92							<0.010	74.8				0.471	<0.020	25.7	0.034			2.6			49.5			
MW-245D	Feb-93							<0.010	67				0.312	<0.020	23.1	0.06			2.47			39			
MW-245D	Jun-93	0.41	<0.060	<0.020	<0.10	<0.010		<0.010	86.2	<0.020		<0.020	1.7	0.008	26.7	0.062	<0.001	<0.040	3.32	<0.005	<0.020	54.1	<0.010		0.027
MW-245D	Aug-93							<0.010	79.3				0.219	<0.005	36.9	0.036			2.12			34			
MW-245D	Dec-93							<0.010	99				0.081	<0.005	36.8	0.053			2.08			22.9			
MW-245D	Feb-94							<0.010	86.1				0.605	<0.005	30	0.036			1.85			23.8			
MW-245D	May-94							<0.010	91.5				0.1	<0.005	32.2	0.087			2.25			33.9			
MW-245D	Aug-94	<0.20	<0.060	<0.020	<0.10	<0.010		<0.010	110	<0.020		0.035	1.57	<0.005	33.3	0.06	<0.001	0.091	4.75	<0.005	<0.020	22.1	<0.005		0.1
MW-245D	Nov-94							<0.010	83				1.53	<0.005	33.9	0.076			6.54						

TABLE 14 - HISTORICAL GROUNDWATER ANALYTICAL DATA - METAL PARAMETERS

Monitoring Well	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	Cd (mg/l)	Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	Fe (mg/l)	Pb (mg/l)	Mg (mg/l)	Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	K (mg/l)	Se (mg/l)	Ag (mg/l)	Na (mg/l)	TI (mg/l)	V (mg/l)	Zn (mg/l)		
Class GA GW Qual:				0.025	1	0.003	1	0.005		0.05	0.2	0.3	0.025	0.5	0.3	0.002	0.1		0.01	0.05	20	0.001			2		
Std's & Guid. Val.																											
MW-245D	Dec-97							<0.01	100				2.9	<0.01	31	0.091			2.9			34					
MW-245D	May-98							<0.01	100				3.5	<0.01	31	0.095			3.5			46					
MW-245D	June-98	0.2	<0.06	<0.01	<0.2	<0.01	<1	<0.01	100	<0.01	<0.01	<0.02	5.1	<0.01	35	0.13	<0.0002	0.022	3.6	<0.05	<0.1	42	<0.03	<0.03	0.08		
MW-245D	Sept-98							<0.01	110				5.6	<0.01	34	0.2			5.7			48					
MW-245D	Dec-98							<0.01	140				7	<0.01	32	0.088			2.9			27					
MW-245D	Apr-99						Location Not Sampled																				
MW-245D	Jun-99							<0.01	110				4.6	0.019	33	0.2			4.1			120					
MW-245D	Sept-99						Location Not Sampled																				
MW-245D	Dec-99						Location Not Sampled																				
MW-245D	Apr-00	0.372	<0.050	0.003	0.093	<0.002	<0.048	<0.0050	103	<0.010	<0.010	<0.017	2.29	0.009	30.8	0.187	<0.0002	<0.012	3.22	<0.002	<0.010	43.9	<0.001	<0.010	0.049		
MW-245D	Jun-00							<0.0050	86.7				0.511	0.007	25.4	0.214			3.22			79.1					
MW-245D	Sept-00							<0.005	88.4				2.9	0.007	26.4	0.198			3			78.5					
MW-245D	Dec-00							<0.005	79.3				3.98	0.002	24.2	0.128			3.21			78.5					
MW-245D	Mar-01							<0.005	70.2				4.65	0.002	23.2	0.093			3.35			81.7					
MW-245D	Jun-01	0.138	<0.050	0.009	0.105	<0.002	0.051	<0.005	76.5	<0.010	<0.010	<0.017	4.66	0.008	24.5	0.156	<0.0002	0.014	3.67	<0.002	<0.010	79	<0.001	<0.010	0.031		
MW-245D	Sept-01							<0.005	75.4				4.06	0.008	24.8	0.146			3.49			77.3					
MW-245D	Dec-01							<0.005	68.3				3.46	0.005	23.3	0.122			3.77			89.7					
MW-245D	Mar-02							<0.005	82.9				5.12	0.003	26.2	0.134			3.01			62.4					
MW-245D	Jun-02							<0.005	79				3.02	0.007	26.7	0.129			3.88			63.2					
MW-245D	Sept-02	<0.075	<0.050	0.01	0.097	<0.002	0.075	<0.005	73.4	<0.010	<0.0100	<0.017	3.65	0.007	25.4	0.104	<0.0002	<0.012	3.49	<0.001	<0.010	80.2	<0.001	<0.010	0.023		
MW-245D	Dec-02							<0.001	72.7				3.06	0.002	27.1	0.109			3.37			61.8					
MW-245D	Apr-04	0.337	<0.050	0.007	0.109	<0.002	0.081	0.002	93.4	0.003	<0.010	<0.017	4.54	0.008	31	0.27	<0.0002	<0.012	4.99	<0.001	<0.010	60.5	<0.001	<0.010	0.042		
MW-245D	Jun-05	0.0534	<0.0025	0.0071	0.0957	<0.0004	0.0573	<0.0008	83.1	0.0025	<0.0019	0.0034	1.65	0.0051	29	0.196	<0.00016	<0.0023	6.04	<0.0039	0.0022	76.6	<0.0029	<0.0002	0.112		
MW-245D	Sept-06	<0.010	<0.060	<0.005	<0.200	<0.005	<0.050	<0.005	45	0.091	<0.050	0.031	27	0.013	10	0.36	<0.0002	0.065	6.9	<0.010	<0.010	<5	<0.010	<0.050	0.12		
MW-245D	Dec-07	<0.1	<0.01	0.018	<0.2	<0.01	<0.5	<0.01	96	<0.01	<0.01	<0.01	1.3	<0.01	27	0.37	<0.0002	<0.01	4.3	0.22	<0.01	49	<0.01	<0.01	0.021		
MW-245D	Aug-09	0.07	<0.02	<0.02	0.11	<0.02	<0.1	<0.02	86	<0.02	<0.02	<0.02	0.67	<0.02	26	0.33	<0.001	<0.02	3	<0.02	<0.01	49	0.02	<0.02	<0.02		
MW-245D	Feb-11	<0.10	<0.005	<0.004	0.084	<0.001	<0.05	<0.001	133	0.007	0.002	0.002	0.425	<0.002	28.8	0.775	<0.0002	0.002	2.5	<0.010	<0.010	39.2	<0.002	<0.002	0.017		
MW-245D	Apr-12	0.82	<0.0058	<0.0056	0.12	<0.0030	0.043	0.0013	110	0.017		0.0063	3	0.01	29	0.37	<0.00012	0.011	3.9	<0.0087	<0.0017	45	<0.010		0.057		
MW-245D	Jul-13	0.79	<0.0068	<0.0056	0.13	<0.0030	0.043	0.00065	120	0.01		0.0047	1.5	0.0044	30	0.45	<0.00012	0.0076	3.5	<0.0087	<0.0017	43	<0.010		0.056		

TABLE 15 - HISTORICAL SURFACE WATER ANALYTICAL RESULTS - WATER QUALITY PARAMETERS

Sample Location	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SD4= (mg/l)	Turbidity <sup>2</sup> (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	DO (mg/l)	Bromide (mg/l)
Class C Surface Water Quality Standards and Guidance Values									6.5-8.5	0.005			500	*1				0.0052	0.011		4		
SW-3	Apr-99	14.3	46	65	38	417	86	10	7.99	<0.002	55	32	29	210	<0.03	0.35	<4				0.76	7.78	<0.1
SW-3	Jun-99	22.3	150	18	52	510	220	5.7	8.17	0.002	125	26	102	290	<0.03	0.55	4.2				1.1	7.27	<0.1
SW-3	Sept-99	18.8	82	31	36	463	200	11	7.64	<0.002	375	90	46	330	<0.03	0.94	<4				0.86	7.05	<0.1
SW-3	Dec-99	3.6	120	24	35	477	190	10	9.33	<0.002	15	97	70	360	0.092	3.1	<4	55	<.01	<.03	1.4	11.01	<.1
SW-3	Apr-00	12.2	65.3	21.9	28.8	300	100	6.6	7.45	<0.004	-77	26	18	176	0.12	1.51	<3	75	<0.01	<0.01	<.1	10.6	<.1
SW-3	Jun-00	25.4	114	33.3	36.1	325	145	8.3	7.91	<0.004	-138	200	16.3	241	<.01	0.743	3				<.1	7.8	<.1
SW-3	Sep-00	16.4	146	<10	42.1	511	173	9.2	8.15	<0.004	34	33	13	230	<.01	0.855	<3				<.1	9.2	<.1
SW-3	Dec-00	1.1	45.8	31.6	30.6	293	95.2	8.9	7.87	0.0066	99	34	17.4	144	<.01	1.54	<3				2.01	8.1	<.1
SW-3	Mar-01	5.3	72.8	<10	39.7	377	101	5	7.89	<0.004	12	33	13	170	<.01	1.12	<3				1.69	10.9	<.1
SW-3	Jun-01	13	72.3	36.6	40.3	362	100	20	7.84	<0.004	13	20.1	60	192	<.01	0.479	4	150	<0.01		1.35	7.5	<.1
SW-3	Sep-01	21.6	171	<10	73.8	703	237	5.3	7.96	<0.004	88	44.6	56.9	365	<.01	0.67	<3				1.35	7.4	<.1
SW-3	Dec-01	5.3	143	10.8	63.8	557	200	4.2	7.57	0.0232	89	35	16.5	290	<.01	0.95	<3				<.1	9	<.1
SW-3	Mar-02	5.3	92.3	<10	77.9	427	156	6.4	8.25	<0.004	-13	55.8	16.3	265	<.01	0.724	<3				<.1	12.3	<.1
SW-3	Jun-02	24.2	113	<10	49.3	462	144	7.9	7.68	<0.004	67	29.3	41	267	<.01	0.784	<3				<.1	8.4	<.1
SW-3	Sep-02	21.2	155	<10	78.5	610	232	5.6	8	<0.004	-77.8	66.6	45	405	0.189	1.34	<3	50	<0.005	<0.01	<.1	9	<.1
SW-3	Dec-02	0.6	50.9	19.5	38.9	501	123	9	7.49	<0.004	-1.4	54	33	252	<.01	0.64	<3				<.1	8.6	<.1
SW-3	Apr-04	11.3	96.4	26	48	368	118	6.4	8.08	<0.004	267	17.4	15.3	211	<.01	0.5	3	<5	<0.005	<0.01	<.1	8.4	<.1
SW-3	Sep-05		188	14.5	81		257	5.9		<0.0100		38.5		446	<.01	1.01	<4.00	500	<0.0100	<0.010	<.1		<.1
SW-3	Dec-07		85	18	75	452	150	6.3	7.52	<0.003	365	10		280	<0.03	1.1	<4	30	<0.01	<0.01	0.66	9.84	<0.1
SW-3	Aug-09	25.99	136	28	55	389	154	9.3	7.47	<0.010	125	5.19	12.5	266	0.1	0.6	<4	60	<0.005	<0.004	1.16	8.96	<0.1
SW-3	Apr-12	19.24	160	<5.0	51	529	160	4.8	8.04	<0.005	97.3	21	10.3	240	0.056	0.57	<2.0	30	<0.005	<0.005	0.59		
SW-3	Jul-13	22.75	100	15	46	456	160	5.9	8.06	<0.005	14.4	18	20.9/45	230	0.076	0.83	<2.0	70	<0.005	<0.005	0.5		
SW-5	Apr-99	12.6	95	11	43	403	130	5.7	8.05	<0.002	115	24	72	230	<0.03	0.59	<4				1.1	8.71	<0.1
SW-5	Jun-99	21.3	150	14	52	510	230	5.6	8.26	0.0023	135	27	95	290	<0.03	0.58	4				0.93	6.5	<0.1
SW-5	Sept-99	18.8	85	31	39	476	200	11	7.2	<0.002	370	91	54	370	<0.03	1.2	<4				0.89	7.28	<0.1
SW-5	Dec-99	3.7	68	28	35	661	200	10	9.33	<0.002	330	100	82	360	0.084	3.3	<4	45	<.01	<.03	1.3	10.59	<.1
SW-5	Apr-00	12.7	62.9	11.5	28.9	290	99.8	7	7.53	<0.004	-72	31	19	177	0.137	1.52	8	100	<0.01	<0.01	<.1	9.2	<.1
SW-5	Jun-00	24.8	117	24.2	36	350	143	8.6	7.93	<0.004	-162	19	18.5	251	0.155	0.74	3				<.1	7.8	<.1
SW-5	Sep-00	16.5	147	19.9	42.2	684	172	9.6	8.12	<0.004	44	25	8.9	238	<.01	0.914	<3				<.1	9	<.1
SW-5	Dec-00	1.1	91.7	105	36.7	400	193	7.4	7.01	0.0072	400	81	38.8	231	0.167	1.72	<3				7.37	7.9	<.1
SW-5	Mar-01	5	75.7	<10	40	408	106	5.4	7.7	<0.004	-18	19	13	156	<.01	1.1	<3				7.52	10.8	<.1
SW-5	Jun-01	21.4	91.5	28.4	42.5	418	124	15	7.73	<0.004	-4	21.7	25	205	0.105	1.03	<3	125	<0.01		1.01	5.2	<.1
SW-5	Sep-01	22	173	<10	73.4	670	242	5.3	7.91	<0.004	105	46.8	17.7	354	<.01	0.742	<3				<.1	7.5	<.1
SW-5	Dec-01	6	145	<10	64.2	591	194	4.5	7.07	<0.004	49	36	19.5	299	<.01	0.96	<3				<.1	9.2	<.1
SW-5	Mar-02	5.8	73.5	17.7	77.7	422	159	6	7.87	<0.004	9	54.5	8.7	279	<.01	0.704	<3				<.1	10.8	<.1
SW-5	Jun-02	25.4	113	<10	49.7	459	142	7.9	7.26	<0.004	96	27.6	10.1	279	<.01	0.815	<3				<.1	8.1	<.1
SW-5	Sep-02	20.7	158	<10	80	605	233	5.8	7.09	<0.004	-88.7	76.3	75	422	<.01	1.46	<3	50	<0.005	<0.01	1.17	9.2	<.1
SW-5	Dec-02	0.1	102	<10	51.8	462	160	4.2	8.26	<0.004	4.6	41.3	95	266	0.1	1.42	<3				<.1	8.6	<.1
SW-5	Apr-04	11.8	105	15	47.4	370	128	5.4	7.84	<0.004	227	18.4	16.5	241	<.01	<.01	<3	<5	<0.005	<0.01	<.1	8.4	<.1
SW-5	Sep-05		193	14.5	79		240	5.57		<0.0100		39.1		446	<.01	0.946	<4.00	750	<0.0100	<0.010	<.100		<.100
SW-5	Sep-06		120	28	48		150	8.9		<0.010		23		250	<.01	0.69	<4.00	300	<0.010	<0.010			<.10
SW-5	Dec-07		90	18	74	536	150	6.4	7.92	<0.003	233	7.5		280	<0.03	1.1	<4.0	20	<.01	<.01	0.63	9.09	<.01
SW-5	Aug-09	25.77	137	32	55	384	159	9.2	7.48	<0.010	160	5.49	13.7	276	0.07	0.62	<2	60	<0.005	<0.004	1.23	8.99	<.01
SW-5	Apr-12	18.59	160	15	50	503	180	4.6	8.12	<0.005	27.3	21	8.81	250	0.037	0.64	2.3	25	<0.005	<0.005	0.5		
SW-5	Jul-13	23.79	130	17	50	463	160	5.4	8.04	<0.005	-23.6	16	32.6/41	240	0.12	1	2	70	<0.005	<0.005	0.5		

TABLE 15 - HISTORICAL SURFACE WATER ANALYTICAL RESULTS - WATER QUALITY PARAMETERS

Sample Location	Sample Date	Temp (C)	ALK (mg/l)	COD (mg/l)	Cl- (mg/l)	Cond (umhos/cm)	Hard (mg/l)	TOC (mg/l)	pH (field) (S.U.)	Phenols (mg/l)	Eh (mV)	SO4= (mg/l)	Turbidity <sup>2</sup> (NTU)	TDS (mg/l)	NH3 (mg/l)	NO3- (mg/l)	BOD5 (mg/l)	Color (units)	CN- (mg/l)	Cr+6 (mg/l)	TKN (mg/l)	DO (mg/l)	Bromide (mg/l)	
<b>Class C Surface Water Quality Standards and Guidance Values</b>																								
									6.5-8.5	0.005				500	*1				0.0052	0.011				
SW-8	Apr-99	12.2	97	12	43	404	130	5.2	7.98	<0.002	105	24	13	230	<0.03	0.6	<4					0.67	8.46	<0.1
SW-8	Jun-99	21	150	13	52	510	230	5.7	7.97	0.0024	125	27	112	290	<0.03	0.61	<4					1.1	6.17	<0.1
SW-8	Sept-99	19.4	91	34	40	488	200	11	7.68	<0.002	365	91	83	360	<0.03	1.2	14					0.93	7.41	<0.1
SW-8	Dec-99	3.8	78	24	35	4940	200	11	8.81	<0.002	310	100	97	370	0.1	3.3	4.5	50	<0.01	<.03		1.6	11.28	<.1
SW-8	Apr-00	13	65.2	24.2	30	300	98.8	6.7	7.45	<0.004	-68	29	21	188	0.15	1.52	7	100	<0.01	<0.01		<1	9	<1
SW-8	Jun-00	22.2	114	23.2	36.4	300	155	9.5	7.62	<0.004	-186	24	18.4	231	0.103	0.754	<3				<1	8.1	<1	
SW-8	Sep-00	15.5	146	10	42.1	573	178	9.5	7.83	<0.004	5	27	7	273	<0.1	0.924	<3				<1	8.8	<1	
SW-8	Dec-00	0.2	91.2	23	36.3	386	155	5.5	7.93	<0.004	395	39	36	190	0.145	1.79	<3				1.67	7.6	<1	
SW-8	Mar-01	11.4	74.8	<10	39.7	545	102	5.3	7.62	<0.004	-49	24	10	202	<0.1	1.1	<3				1.69	11	<1	
SW-8	Jun-01	20.9	92.1	31.3	44.1	369	121	18	7.5	<0.004	162	21.6	26	209	<0.1	1.2	3	125	<0.01		<1	6	<1	
SW-8	Sep-01	20.3	175	<10	74.1	753	236	5.5	7.45	<0.004	48	45.6	15.9	387	<0.1	0.727	3				<1	7.3	<1	
SW-8	Dec-01	6	147	<10	63.3	647	209	4.4	7	<0.004	69	36	18.9	301	<0.1	0.93	<3				<1	8.5	<1	
SW-8	Mar-02	6	73.3	<10	77.6	438	155	6	7.84	<0.004	-22	54.4	8.23	276	<0.1	0.72	<3				<1	9.1	<1	
SW-8	Jun-02	24	115	<10	50.4	475	148	8.6	7.06	<0.004	52	27.8	9.8	250	<0.1	0.832	<3				<1	8.4	<1	
SW-8	Sep-02	19.7	166	13.2	77.9	606	233	5.3	7.6	0.0115	-33.5	58.5	40	406	<0.1	1.54	<3	45	<0.005	<0.01		1.76	9.6	<1
SW-8	Dec-02	0.8	86.7	<10	51.4	526	160	4.8	8.01	<0.004	4.8	43.9	5.8	265	<0.1	1.47	<3				<1	8.5	<1	
SW-8	Apr-04	11.8	106	30	47.5	430	130	5.5	7.98	<0.004	215	18.3	15.9	170	0.221	<0.1	<3	<5	<0.005	<0.01	<1	8.5	<1	
SW-8	Sep-05		189	14.5	80		238	6.16		<0.010		38.4		428	<1.0	0.934	<4.0	500	<0.0100	<0.010	<1.0		<1.00	<1.0
SW-8	Sep-06		120	30	50		150	7.9		<0.010		22		240	<1.0	0.69	<4.0	200	<0.010	0.010		0.6	9.01	<0.1
SW-8	Dec-07		85	15	71	480	150	6.1	7.75	<0.003	420	8.5		270	<0.03	1.1	<4	30	<0.01	<0.01		0.6	9.01	<0.1
SW-8	Aug-09	25.91	136	32	53	379	159	9.2	7.5	<0.010	180	5.49	14.1	267	0.07	0.6	<2	60	<0.005	<0.004	1.33	9.05	<0.1	
SW-8	Apr-12	18.05	150	6	51	505	170	4.6	8.07	<0.005	-19	21	8.65	270	0.032	0.67	<2.0	30	<0.005	<0.005	0.58			
SW-8	Jul-13	23.79	110	18	51	457	160	5.4	7.91	<0.005	-11.2	16	19.1/47	260	0.082	0.99	<2.0	80	<0.005	<0.005	0.55			
SW-13	Apr-99	12.4	93	21	43	390	120	5.2	7.83	<0.002	70	23	68	230	<0.03	0.58	<4					0.68	9.31	<0.1
SW-13	Jun-99	21.8	150	16	53	510	260	5.8	8.25	0.0026	130	26	130	290	<0.03	0.55	<4					1.4	6.86	<0.1
SW-13	Sept-99	18.4	91	31	40	486	200	11	7.52	<0.002	380	91	50	370	<0.03	1.2	<4					1.1	6.79	<0.1
SW-13	Dec-99	4.2	44	29	36	336	110	12	9.02	<0.002	145	40	30	230	0.03	1.5	<4	60	<0.01	<.03		0.98	9.5	<.1
SW-13	Apr-00	12.5	64.9	29.6	30.8	310	98.4	7	7.63	<0.004	-76	30	24	178	0.117	1.82	7	100	<0.01	<0.01		<1	9.4	<1
SW-13	Jun-00	25.3	116	26.6	36.1	325	140	10	7.98	<0.004	-137	20	19.6	247	<0.1	0.753	<3				<1	7.9	<1	
SW-13	Sep-00	16.1	147	<10	42.5	491	172	12	8.14	<0.004	54	28	8.8	244	<0.1	1.17	<3				<1	9	<1	
SW-13	Dec-00	0.5	52.6	<10	30.2	285	96.7	9	7.86	<0.004	111	36	18.4	181	<0.1	1.67	<3				1	8	<1	
SW-13	Mar-01	5.7	75	13.9	40.2	340	111	5	7.8	<0.004	7.8	30	11	199	<0.1	1.2	<3				<1	11	<1	
SW-13	Jun-01	21.5	93.7	32.6	43.1	390	127	16	7.86	0.0045	50	21.5	35	216	<0.1	1.03	3	125	<0.01		1.35	6.8	<1	
SW-13	Sep-01	21.6	175	<10	71.3	679	235	5.5	8.13	<0.004	105	50.5	39.8	362	<0.1	0.678	<3				1.01	7.5	<1	
SW-13	Dec-01	5.7	144	<10	64.4	576	201	4.5	7.49	<0.004	84	36	15.8	305	<0.1	0.96	<3				<1	8.7	<1	
SW-13	Mar-02	5.6	72.7	<10	77.5	409	142	6.1	8.2	<0.004	10	55.7	11.5	266	<0.1	0.729	<3				<1	12.6	<1	
SW-13	Jun-02	25.1	106	<10	50.1	462	146	8	7.72	<0.004	69	27.4	14.3	247	<0.1	0.83	<3				<1	8.6	<1	
SW-13	Sep-02	21.4	159	<10	76.5	602	234	5.7	8.02	<0.004	-102.2	66.7	42	404	<0.1	1.38	<3	50	<0.005	<0.01	1.38	9.4	<1	
SW-13	Dec-02	0.3	53.4	28.8	40.1	377	123	10	7.21	<0.004	0.8	52.7	5.6	239	<0.1	0.68	<3				1.45	8.4	<1	
SW-13	Apr-04	11.4	102	34	49.3	336	122	6.1	8.1	<0.004	264	18.3	15	172	<0.10	0.53	<3	<5	<0.005	<0.01	<1	8.6	<1	
SW-13	Sep-05		187	14.5	82		245	5.75		<0.0100		38.8		446	<1.00	1.15	<4.0	750	<0.0100	<0.010	<1			
SW-13	Sep-06		89	50	23		140	18		<0.010		48		250	<1.0	0.35	<4.0	400	<0.010	<0.010	NA	NA	<1.0	
SW-13	Dec-07		85	39	78	448	150	6.3	7.18	<0.003	325	11		270	0.097	0.98	<4	30	<0.01	<0.01	0.58	10.12	<0.1	
SW-13	Aug-09	22.13	158	40	34	390	172	12	7.64	<0.010	125	38.1	18.5	292	0.07	0.4	<4	80	<0.005	<0.004	0.89	12.68	<0.1	
SW-13	Apr-12	17.96	160	9.1	51	501	200	4.6	8.07	<0.005	66.6	20	10.13	280	0.51	0.61	<2.0	25	<0.005	<0.005	1.4			
SW-13	Jul-13	23.88	130	18	50	6459	160	5.4	8.09	<0.005	-16	16	23.2/63	230	0.077	0.99	<2.0	80	<0.005	<0.005	0.46			

NOTE: \*1 - Dependant upon sample temperature and pH (see regs)  
 2 - Turbidity values include: ["Field Reading" / "Lab Reading"]

TABLE 16 - HISTORICAL SURFACE WATER ANALYTICAL RESULTS - METAL PARAMETERS

Sample Location	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	T-Cd (mg/l)	T-Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	T-Fe (mg/l)	T-Pb (mg/l)	T-Mg (mg/l)	T-Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	T-K (mg/l)	Se (mg/l)	Ag (mg/l)	T-Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
<i>Stats and Guid. Values</i>		0.1		0.15		*	10	*		*	0.005	*	0.3	*			0.00077	*		0.00046	0.0001		0.008	0.014	*	
SW-3	Apr-99							<0.01	25				0.99	<0.01	5.9	0.098			1.5				15			
SW-3	Jun-99							<0.01	57				1.5	<0.01	20	0.2			2.7				37			
SW-3	Sept-99							<0.01	56				1.2	<0.01	14	0.14			2.6				23			
SW-3	Dec-99	0.7	<0.01	<0.01	<2	<0.01	<5	<0.01	57	<0.01	<0.01	<0.01	1.3	<0.01	12	0.2	<0.002	<0.01	3.1	0.071	<0.01	16	0.016	<0.01	0.026	
SW-3	Apr-00	0.54	<0.050	<0.002	<0.016	<0.002	<0.048	<0.0050	27.6	<0.010	<0.010	<0.017	0.923	<0.001	7.54	0.051	<0.0002	<0.012	1.54	<0.002	<0.010	15.1	<0.001	<0.010	<0.020	
SW-3	Jun-00							<0.0050	38.5				0.908	0.003	11.8	0.105			1.62				19.8			
SW-3	Sep-00							<0.005	45.4				0.751	0.001	14.4	0.106			2.67				22.3			
SW-3	Dec-00							<0.005	27.9				0.921	0.002	6.2	0.113			2.25				14.9			
SW-3	Mar-01							<0.005	26.8				0.696	0.005	8.27	0.044			1.41				18.4			
SW-3	Jun-01	0.493	<0.050	<0.002	0.026	<0.002		<0.005	29.2	<0.010	<0.010	<0.017	1.53	0.013	6.63	0.163	<0.0002	<0.012	1.75	<0.002	<0.010	19	<0.001	<0.010	<0.020	
SW-3	Sep-01							<0.005	60				0.97	0.005	21.2	0.135			3.4				38			
SW-3	Dec-01							<0.005	51.4				0.878	<0.001	17.3	0.122			3.11				32.1			
SW-3	Mar-02							<0.005	44				0.544	0.001	11.2	0.099			1.75				30.2			
SW-3	Jun-02							<0.005	38.9				0.736	0.002	11.5	0.099			1.78				24.6			
SW-3	Sep-02	0.909	<0.050	0.002	0.037	<0.002	0.065	<0.005	61.5	<0.010	<0.010	<0.017	1.34	0.007	19.1	0.148	<0.0002	<0.012	4.32	<0.001	<0.010	36.6	<0.001	<0.010	0.029	
SW-3	Dec-02							0.001	33.8				0.386	0.004	9.46	0.065			4.38				19			
SW-3	Apr-04	0.938	<0.050	0.001	0.019	<0.002	<0.048	<0.001	31.9	<0.002	<0.010	<0.017	1.19	0.001	9.2	0.118	<0.0002	<0.012	2.11	<0.001	<0.010	22	<0.001	<0.010	<0.020	
SW-3	Sep-05	0.152	<0.0044	<0.0031	0.0405	<0.0004	0.0598	<0.0008	64	0.0013	<0.0019	0.0031	0.248	<0.0019	23.7	0.211	<0.00016	<0.0023	5.45	<0.0039	<0.0011	39.8	<0.0029	<0.002	0.058	
SW-3	Dec-07	0.12	<0.01	0.013	<0.2	<0.01	<0.5	<0.01	41	<0.01	<0.01	<0.01	0.36	<0.01	12	0.078	<0.0002	<0.01	2.5	0.085	<0.01	40	<0.01	<0.01	0.013	
SW-3	Aug-09	0.4	<0.02	<0.02	0.02	<0.02	<0.1	<0.02	40	<0.02	<0.02	<0.02	0.85	<0.02	13	0.12	<0.001	<0.02	2	<0.02	<0.01	29	<0.02	<0.02	<0.02	
SW-3	Apr-12	0.42	<0.0068	<0.0056	0.025	<0.00030	0.026	<0.00050	48	0.0013		0.0033	0.71	<0.0030	16	0.13	<0.001	0.0016	1.8	<0.0087	<0.0017	30	<0.010	<0.010	0.056	
SW-3	Jul-13	1.4	<0.0068	<0.0056	0.033	<0.00030	0.039	<0.00050	46	0.0021		0.0036	1.7	<0.0030	13	0.21	<0.00012	0.0022	2.7	<0.0087	<0.0017	28	<0.010	<0.010	0.0087	
SW-5	Apr-99							<0.01	33				0.64	<0.01	11	0.063			1.6				20			
SW-5	Jun-99							<0.01	58				1.3	<0.01	20	0.16			2.7				34			
SW-5	Sept-99							<0.01	56				1.5	<0.01	14	0.17			2.7				23			
SW-5	Dec-99	0.84	<0.01	<0.01	<2	<0.01	<5	<0.01	60	<0.01	<0.01	<0.01	1.54	<0.01	13	0.22	<0.002	<0.01	3.2	0.075	<0.01	16	0.023	<0.01	<0.028	
SW-5	Apr-00	0.572	<0.050	<0.002	<0.016	<0.002	<0.048	<0.0050	27.5	<0.010	<0.010	<0.017	0.997	0.002	7.55	0.055	<0.0002	<0.012	1.56	<0.002	<0.010	15	<0.001	<0.010	<0.020	
SW-5	Jun-00							<0.0050	38.1				0.861	0.006	11.7	0.102			1.61				19.6			
SW-5	Sep-00							<0.005	45.4				0.657	0.002	14.3	0.102			2.62				22			
SW-5	Dec-00							<0.005	52.4				9.17	0.013	15.1	0.674			3.06				18.4			
SW-5	Mar-01							<0.005	28				1.18	0.002	8.79	0.078			1.35				18.2			
SW-5	Jun-01	0.941	<0.050	0.003	0.022	<0.002		<0.005	33.3	<0.010	<0.010	<0.017	1.82	0.006	9.97	0.136	<0.0002	<0.012	2.44	<0.002	<0.010	19.6	<0.001	<0.010	<0.020	
SW-5	Sep-01							<0.005	61.4				0.785	0.005	21.6	0.109			3.52				38.6			
SW-5	Dec-01							<0.005	49.8				0.933	<0.001	17	0.124			3.08				31.7			
SW-5	Mar-02							<0.005	44.8				0.854	0.001	11.4	0.113			1.86				30.9			
SW-5	Jun-02							<0.005	38.2				0.745	0.002	11.4	0.098			1.66				24.1			
SW-5	Sep-02	0.834	<0.050	0.002	0.038	<0.002	0.066	<0.005	61.4	<0.010	<0.010	<0.017	1.17	0.006	19.3	0.176	<0.0002	<0.012	4.41	<0.001	<0.010	37	<0.001	<0.010	0.026	
SW-5	Dec-02							<0.001	41.7				0.354	<0.001	13.6	0.077			2.04				23.9			
SW-5	Apr-04	0.747	<0.050	0.001	0.018	<0.002	<0.048	<0.001	34.4	<0.002	<0.010	<0.017	0.939	<0.001	10.3	0.09	<0.0002	<0.012	1.82	<0.001	<0.010	23	<0.001	<0.010	<0.020	
SW-5	Sep-05	0.241	<0.0044	<0.0031	0.0377	<0.0004	0.0523	<0.0008	59.8	<0.0009	<0.0019	0.003	0.285	<0.0019	22.2	0.211	<0.00016	<0.0023	4.98	<0.0039	0.0021	37.1	<0.0029	<0.002	0.0044	
SW-5	Dec-07	0.34	<0.060	<0.005	0.2	<0.005	<0.050	<0.005	39	<0.010	<0.050	<0.025	0.82	<0.005	14	0.093	<0.0002	<0.040	<5	<0.010	<0.010	25	<0.010	<0.050	<0.020	
SW-5	Aug-09	0.13	<0.01	0.014	<0.2	<0.01	<0.5	<0.01	40	<0.01	<0.01	<0.01	0.35	<0.01	11	0.076	<0.0002	<0.01	2.4	0.077	<0.01	41	<0.01	<0.01	0.013	
SW-5	Apr-12	0.28	<0.02	<0.02	0.02	<0.02	<0.1	<0.02	42	<0.02	<0.02	<0.02	0.79	<0.02	13	0.11	<0.001	<0.02	1.9	<0.02	0.01	29	0.02	<0.02	<0.02	
SW-5	Jul-13	0.35	<0.0068	<0.0056	0.024	<0.00030	0.025	<0.00050	48	<0.0010		0.0029	0.63	<0.0030	17	0.12	<0.00012	<0.0013	1.9	<0.0087	<0.0017	30	<0.010	<0.010	0.0023	
SW-5	Jul-13	0.99	<0.0068	<0.0056	0.028	<0.00030	0.042	<0.00050	42	0.0021		0.0036	1.2	<0.0030	14	0.12	<0.00012	0.0019	2.8	<0.0087	<0.0017	30	<0.010	<0.010	0.011	

TABLE 16 - HISTORICAL SURFACE WATER ANALYTICAL RESULTS - METAL PARAMETERS

Sample Location	Sample Date	Al (mg/l)	Sb (mg/l)	As (mg/l)	Ba (mg/l)	Be (mg/l)	B (mg/l)	T-Cd (mg/l)	T-Ca (mg/l)	Cr (mg/l)	Co (mg/l)	Cu (mg/l)	T-Fe (mg/l)	T-Pb (mg/l)	T-Mg (mg/l)	T-Mn (mg/l)	Hg (mg/l)	Ni (mg/l)	T-K (mg/l)	Se (mg/l)	Ag (mg/l)	T-Na (mg/l)	Tl (mg/l)	V (mg/l)	Zn (mg/l)	
<i>Stats and Guid. Values</i>		0.1		0.15		*	10	*		*	0.005	*	0.3	*			0.00077	*		0.00046	0.0001		0.008	0.014	*	
SW-8	Apr-99							<0.01	33				0.67	<0.01	11	0.065			1.6			20				
SW-8	Jun-99							<0.01	59				1	<0.01	20	0.14			2.7			35				
SW-8	Sept-99							<0.01	55				1.1	<0.01	14	0.15			2.6			23				
SW-8	Dec-99		<0.01	<0.01	<2	<0.01	<0.01	<0.01	58	<0.01	<0.01	<0.01	2	<0.01	13	0.28	<0.0002	<0.01	<0.01	0.042	<0.01	15	<0.01	<0.01	0.033	
SW-8	Apr-00	0.854	<0.050	<0.002	0.017	<0.002	<0.048	<0.0050	27.1	<0.010	<0.010	<0.017	1.13	<0.001	7.57	0.052	<0.0002	<0.012	1.65	<0.002	<0.010	15	<0.001	<0.010	<0.020	
SW-8	Jun-00							<0.0050	41.1				0.981	0.004	12.6	0.127			1.68			21.1				
SW-8	Sep-00							<0.005	46.8				0.655	0.001	14.8	0.098			2.61			22.5				
SW-8	Dec-00							<0.005	41.7				3.13	0.005	12.3	0.243			2.33			19.3				
SW-8	Mar-01							<0.005	26.8				0.505	0.001	8.44	0.044			1.2			18.2				
SW-8	Jun-01	0.532	<0.050	0.003	0.019	<0.002		<0.005	32.6	<0.010	<0.010	<0.017	1.25	0.002	9.61	0.092	<0.0002	<0.012	2.23	<0.002	<0.010	19.1	<0.001	<0.010	<0.020	
SW-8	Sep-01							<0.005	59.7				0.829	0.01	21.2	0.155			3.34			37.7				
SW-8	Dec-01							<0.005	54.2				1.06	0.001	18	0.135			3.21			33				
SW-8	Mar-02							<0.005	43.6				0.658	<0.001	11.3	0.097			1.8			30.9				
SW-8	Jun-02							<0.005	39.7				0.692	0.002	11.8	0.096			1.77			24.9				
SW-8	Sep-02	0.774	<0.050	0.002	0.037	<0.002	0.053	<0.005	60.6	<0.010	<0.0100	<0.017	1.4	0.002	19.8	0.156	<0.0002	<0.012	4.5	<0.001	<0.010	38.1	<0.001	<0.010	0.025	
SW-8	Dec-02							<0.001	42				0.356	<0.001	13.3	0.079			1.91			23.2				
SW-8	Apr-04	0.881	<0.050	0.001	0.019	<0.002	0.053	<0.001	34.7	<0.002	<0.010	<0.017	1.05	<0.001	10.5	0.096	<0.0002	<0.012	1.95	<0.001	<0.010	23.3	<0.001	<0.010	<0.020	
SW-8	Sep-05	0.396	0.0063	<0.0031	0.0368	<0.0004	0.0502	<0.0008	59.2	0.0011	<0.0019	0.0021	0.196	<0.0019	22	0.191	<0.00016	<0.0023	4.92	<0.0039	0.0015	37.2	<0.0029	<0.002	0.0345	
SW-8	Sep-06	0.94	<0.060	<0.005	<0.200	<0.005	<0.050	<0.005	39	<0.010	<0.050	<0.025	1.5	<0.005	14	0.11	<0.0002	<0.040	<5	<0.010	<0.010	24	<0.010	<0.050	<0.020	
SW-8	Dec-07	0.12	<0.01	0.014	<0.2	<0.01	<0.5	<0.01	40	<0.01	<0.01	<0.01	0.34	<0.01	12	0.076	<0.0002	<0.01	0.079	<0.01	40	<0.01	<0.01	0.014		
SW-8	Aug-09	0.26	<0.02	0.02	<0.1	<0.02	<0.1	<0.02	42	<0.02	<0.02	<0.02	0.86	<0.02	13	0.11	<0.001	<0.02	1.9	<0.02	<0.01	28	<0.02	<0.02	<0.02	
SW-8	Apr-12	0.31	<0.0068	<0.0056	0.024	<0.00030	0.025	<0.00050	48	<0.0010		0.0026	0.60	<0.0030	17	0.12	<0.00012	<0.0013	1.9	<0.0087	<0.0017	30	<0.010		0.0040	
SW-8	Jul-13	1.1	<0.0068	<0.0056	0.029	<0.00030	0.041	<0.00050	42	0.0020		0.0034	1.3	<0.0030	14	0.13	<0.00012	0.0018	2.8	<0.0087	<0.0017	30	<0.010		0.0066	
SW-13	Apr-99							<0.01	31				0.59	<0.01	10	0.06			1.5			17				
SW-13	Jun-99							<0.01	67				8.2	0.014	21	1			3.2			37				
SW-13	Sept-99							<0.01	56				1.2	<0.01	14	0.15			2.6			23				
SW-13	Dec-99	0.42	<0.01	<0.01	<2	<0.01	<5	<0.01	33	<0.01	<0.01	<0.01	0.98	<0.01	7.3	0.13	<0.0002	<0.01	2.4	0.059	<0.01	18	0.022	<0.01	0.012	
SW-13	Apr-00	0.991	<0.050	<0.002	0.017	<0.002	0.052	<0.0050	27.2	<0.010	<0.010	<0.017	1.26	0.001	7.4	0.058	<0.0002	<0.012	1.75	<0.002	<0.010	15.3	<0.001	<0.010	0.149	
SW-13	Jun-00							<0.0050	37.3				0.86	0.01	11.4	0.098			1.65			19.4				
SW-13	Sep-00							<0.005	45.4				0.557	0.001	14.3	0.095			2.51			21.8				
SW-13	Dec-00							<0.005	28.1				1.09	<0.001	6.44	0.111			2.18			14.9				
SW-13	Mar-01							<0.005	29.2				1.63	0.01	9.2	0.123			1.22			18.4				
SW-13	Jun-01	0.503	<0.050	0.003	0.019	<0.002		<0.005	34.4	<0.010	<0.010	<0.017	1.36	0.005	10.1	0.103	<0.0002	<0.012	2.36	<0.002	<0.010	20	<0.001	<0.010	0.022	
SW-13	Sep-01							<0.005	59.4				1.05	0.006	21	0.134			3.43			37.6				
SW-13	Dec-01							<0.005	52.2				0.889	<0.001	17.1	0.123			2.98			30.9				
SW-13	Mar-02							<0.005	40				0.561	0.001	10.2	0.09			1.6			27.1				
SW-13	Jun-02							<0.005	39.3				0.732	0.002	11.7	0.094			1.71			24.8				
SW-13	Sep-02	0.499	<0.050	0.002	0.035	<0.002	0.073	<0.005	62	<0.010	<0.0100	<0.017	0.793	0.003	19.2	0.138	<0.0002	<0.012	4.18	<0.001	<0.010	37	<0.001	<0.010	<0.020	
SW-13	Dec-02							<0.001	34.9				0.292	<0.001	8.76	0.048			1.86			18.5				
SW-13	Apr-04	0.847	<0.050	<0.001	0.018	<0.002	0.064	<0.001	32.9	<0.002	<0.010	<0.017	0.991	0.001	9.7	0.092	<0.0002	<0.012	2.02	<0.001	<0.010	22.3	<0.001	<0.010	<0.020	
SW-13	Sep-05	0.143	0.0088	0.0064	0.0391	<0.0004	0.0781	<0.0008	60.7	0.0013	<0.0019	0.0053	0.36	<0.0019	22.7	0.216	<0.00016	<0.0023	5.22	<0.0039	0.0012	37.9	<0.0029	<0.002	0.006	
SW-13	Sep-06	0.29	<0.060	<0.005	<0.200	<0.005	<0.050	<0.005	43	<0.010	<0.050	<0.025	1.3	<0.005	9.4	0.29	<0.0002	<0.040	<5.0	<0.050	<0.010	16	<0.010	<0.050	<0.020	
SW-13	Dec-07	0.15	<0.01	0.014	<0.2	<0.01	<0.5	<0.01	40	<0.01	<0.01	<0.01	0.37	<0.01	11	0.076	<0.0002	<0.01	2.5	0.082	<0.01	41	<0.01	<0.01	0.013	
SW-13	Aug-09	0.08	<0.02	<0.02	0.03	<0.02	<0.1	<0.02	51	<0.02	<0.02	<0.02	0.8	<0.02	11	0.11	<0.001	<0.02	1.4	<0.02	<0.01	19	0.02	0.274	<0.02	
SW-13	Apr-12	0.52	<0.0068	<0.0056	0.025	<0.00030	0.026	<0.00050	47	<0.0010		0.0033	0.81	<0.0030	17	0.14	<0.00012	<0.0013	1.9	<0.0087	<0.0017	30	<0.010		0.0043	
SW-13	Jul-13	1	<0.0068	<0.0056	0.028	<0.00030	0.039	<0.00050	41	0.0020		0.0042	1.2	<0.0030	13	0.12	<0.00012	0.0017	2.8	<0.0087	<0.0017	30	0.010		0.0075	

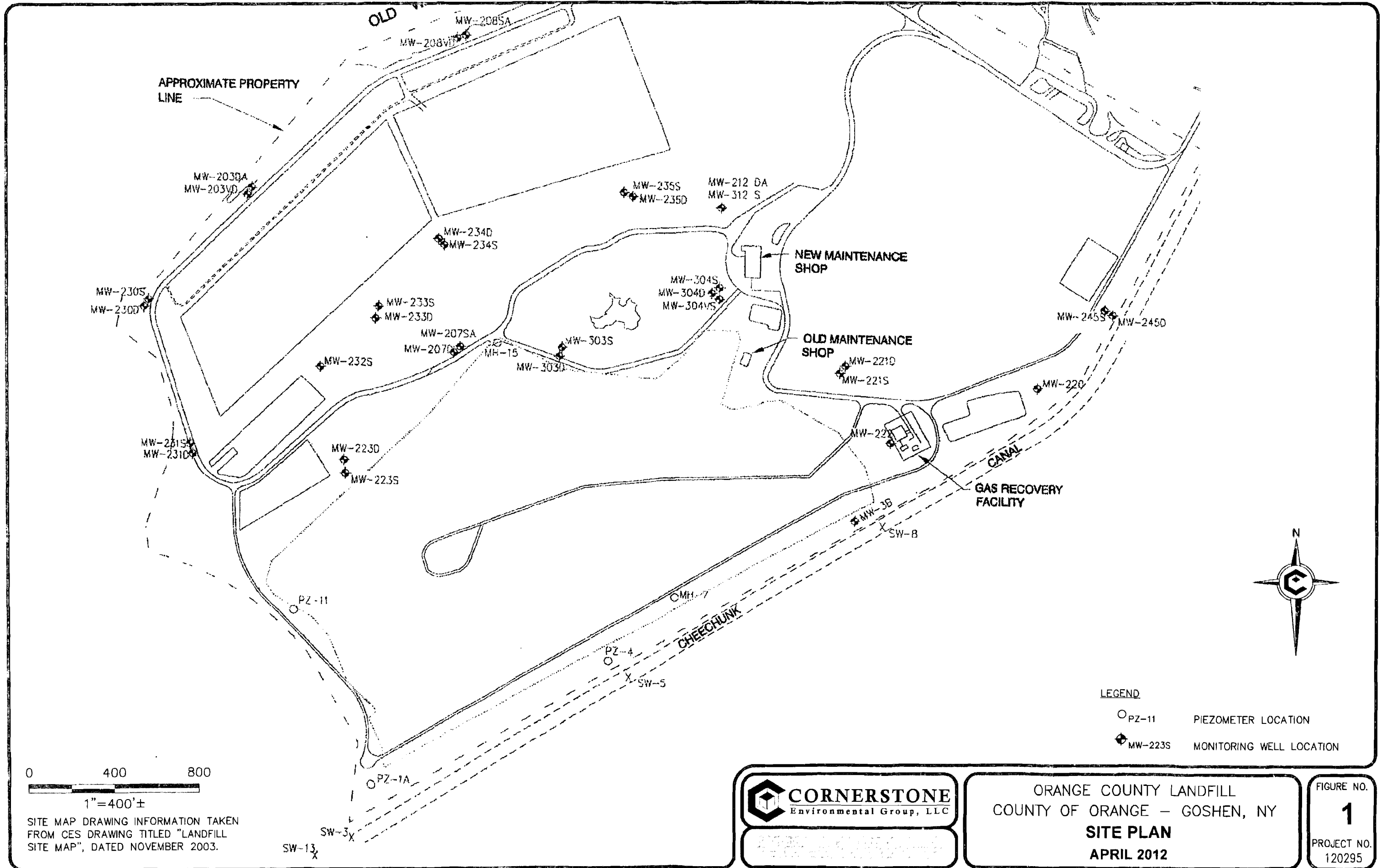
TABLE 17 - HISTORICAL LEACHATE ANALYTICAL DATA

Sample Location	Sample Date	B (mg/l)	T-Cd (mg/l)	T-Ca (mg/l)	T-Fe (mg/l)	T-Pb (mg/l)	T-Mg (mg/l)	T-Mn (mg/l)	T-K (mg/l)	T-Na (mg/l)	Al (mg/l)	Sb (mg/l)	As (mg/l)	Be (mg/l)	Ba (mg/l)	Cr (mg/l)	Cu (mg/l)	Ni (mg/l)	Se (mg/l)	Ag (mg/l)	Tl (mg/l)	Zn (mg/l)	Co (mg/l)	V (mg/l)	Hg (mg/l)
MH-7	Apr-99		<0.01	87	23	0.012	120	0.4	320	1200															
MH-7	Jun-99		<0.01	110	26	0.015	140	0.52	390	1700															
MH-7	Sept-99		<0.01	90	15	<0.01	100	0.3	410	1400															
MH-7	Dec-99	4.4	0.016	86	3.1	<0.01	110	0.34	310	1100	<0.1	<0.01	0.011	<0.01	<0.2	0.016	<0.01	0.16	<0.01	<0.01	0.019	0.032	0.033	0.012	<0.0002
MH-7	Apr-00	3.83	<0.005	109	28.5	0.008	118	0.57	359	1380	3.13	<0.05	0.005	<0.002	0.226	0.022	<0.017	0.159	<0.002	<0.01	<0.001	0.041	0.041	0.012	<0.0002
MH-7	Jun-00		<0.005	104	17.3	0.005	115	0.413	353	1350															
MH-7	Sep-00		<0.1	254	273	0.07	120	3.84	342	1250															
MH-7	Dec-00		0.059	483	615	<0.001	148	7.2	346	1240															
MH-7	Mar-01		<0.005	105	32.2	0.01	101	0.647	287	1080															
MH-7	Jun-01	3.29	0.005	188	216	0.039	113	4.03	296	1080	38	<0.050	0.059	0.002	0.991	0.097	0.199	0.238	<0.002	<0.010	<0.001	0.484	0.071	0.142	0.0004
MH-7	Sep-01		0.007	163	130	0.052	112	1.74	319	1200															
MH-7	Dec-01		<0.005	119	45.9	0.004	105	0.728	310	1230															
MH-7	Mar-02		<0.005	70.3	11.3	0.002	105	0.126	298	1190															
MH-7	Jun-02		<0.005	99.8	13.8	0.007	98.1	0.351	294	1000															
MH-7	Sep-02	3.65	<0.005	99.6	13.8	0.007	98.9	0.337	291	1120	0.381	<0.050	0.016	<0.002	0.183	0.02	<0.017	0.135	0.005	<0.010	<0.001	0.045	0.035	0.013	<0.0002
MH-7	Dec-02		<0.001	93	10.4	0.005	97.7	0.309	301	1130															
MH-7	Apr-04	2.81	<0.001	150	20.1	0.004	97.3	1.12	243	983	<0.1	<0.050	0.016	<0.002	0.12	0.011	0.023	0.134	0.01	<0.010	<0.001	0.022	0.027	0.012	<0.0002
MH-7	Jun-05	2.85	0.001	119	39	0.0108	79.9	0.656	216	42	1.24	0.0105	0.045	<0.003	0.326	0.0062	0.0032	0.0966	<0.0039	<0.0011	<0.0023	0.022	0.0272	0.0064	<0.00016
MH-7	Sep-06	3.1	<0.005	150	12	<0.005	88	4.3	400	1100	<0.200	<0.060	0.017	<0.005	<0.200	0.012	<0.025	0.089	<0.010	<0.010	<0.010	<0.020	<0.050	<0.050	<0.0002
MH-7	Dec-07	3.2	<0.01	170	29	<0.01	110	0.51	237	900	0.19	<0.01	0.059	<0.01	0.25	0.011	<0.01	0.098	0.46	<0.01	<0.01	0.021	0.019	<0.01	<0.0002
MH-7	Aug-09	0.32	<0.02	173	0.15	<0.02	18	1.1	41	130	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.02	<0.02	0.01	0.05	<0.02	<0.02	<0.02	<0.001
MH-7	Feb-11	1.85	<0.001	129	0.968	<0.002	63	0.241	145	546	<0.010	<0.005	<0.004	<0.001	0.065	0.005	0.005	0.061	<0.010	<0.001	<0.002	0.022	NA	NA	<0.0002
MH-7	Apr-12	3	0.00084	130	13	0.003	86	0.46	210	880	<0.060	<0.0068	0.017	<0.00030	0.14	0.012	0.0032	0.091	<0.0087	<0.0017	<0.010	0.003	NA	NA	<0.00012
MH-7	Jul-13	3	<0.0050	150	15	<0.0030	87	0.57	220	910	<0.060	<0.0068	0.022	<0.00030	0.022	0.011	0.0031	0.089	<0.0087	<0.0017	<0.010	0.0062	NA	NA	<0.00012
MH-15	Apr-99		<0.01	170	15	<0.01	89	3.2	230	750															
MH-15	Jun-99		<0.01	130	13	0.033	120	1.6	350	1300															
MH-15	Sept-99		<0.01	170	15	<0.01	86	1.1	240	730															
MH-15	Dec-99	5.2	<0.01	140	3.6	<0.01	110	0.69	310	1000	<0.1	<0.01	<0.01	<0.01	0.46	0.038	<0.01	0.14	<0.01	<0.01	<0.01	0.043	0.026	0.019	<0.0002
MH-15	Apr-00	3.51	<0.005	141	13.3	0.002	89.1	1.09	263	848	<0.075	<0.05	0.015	<0.002	0.299	0.031	<0.017	0.106	<0.002	<0.01	<0.001	0.013	0.023	0.013	<0.0002
MH-15	Jun-00		<0.005	135	5.46	0.005	67.1	0.86	171	613															
MH-15	Sep-00		<0.005	134	1.79	0.012	98.4	1.22	327	1030															
MH-15	Dec-00		<0.005	157	4.71	0.01	89.3	0.948	247	785															
MH-15	Mar-01		<0.005	136	6.36	0.012	58.2	1.13	141	449															
MH-15	Jun-01	3.08	<0.005	140	6.43	0.002	80.6	1.15	219	691	0.089	<0.050	0.018	<0.002	0.272	0.023	<0.017	0.091	<0.002	<0.010	<0.001	0.021	0.016	0.011	<0.0002
MH-15	Sep-01		<0.005	109	1.34	0.014	115	0.748	387	1270															
MH-15	Dec-01		<0.005	117	2.66	<0.001	131	0.67	432	1370															
MH-15	Mar-02		<0.005	140	16.2	0.007	105	1.33	313	1160															
MH-15	Jun-02		<0.005	92.8	4.35	0.004	71.8	0.667	203	623															
MH-15	Sep-02	5.26	<0.005	129	10.2	0.009	113	1.08	353	1180	0.493	<0.050	0.028	<0.002	0.336	0.042	0.019	0.151	0.004	<0.010	<0.001	0.048	0.027	0.018	<0.0002
MH-15	Dec-02		<0.001	134	6.49	0.005	76.2	1.23	203	703															
MH-15	Apr-04	1.39	<0.001	179	52.8	0.002	51.8	2.27	94.3	318	0.151	0.05	0.033	<0.002	0.361	0.017	0.023	0.055	<0.005	<0.010	<0.001	<0.020	0.011	0.02	<0.0002
MH-15	Sep-06	0.94	<0.005	170	5.6	<0.005	41	3	76	250	0.2	<0.060	0.0082	<0.005	<0.200	<0.010	<0.025	<0.040	<0.010	<0.010	<0.010	<0.020	<0.050	<0.050	<0.0002
MH-15	Dec-07	0.95	<0.01	160	26	<0.01	41	2.8	62	190	0.28	<0.01	0.028	<0.01	<0.2	<0.01	<0.01	0.02	0.41	<0.01	<0.01	0.014	<0.01	<0.01	<0.0002
MH-15	Aug-09	0.44	<0.02	139	10	<0.02	34	1.9	30	120	<0.02	<0.02	<0.02	<0.02	0.09	<0.02	0.02	0.02	<0.02	<0.01	0.04	<0.02	<0.02	<0.02	<0.001
MH-15	Apr-12	0.14	<0.00050	150	12	<0.0030	39	1.8	34	150	<0.060	<0.0068	<0.0068	<0.00030	0.14	0.0031	0.0016	0.016	<0.0087	<0.0017	<0.010	<0.0015	NA	NA	<0.00012
MH-15	Jul-13	0.53	<0.00050	370	1100	0.032	36	6.9	32	120	4.6	0.018	0.26	0.0014	4.6	0.03	0.051	0.031	<0.0087	<0.0017	<0.010	0.06	NA	NA	<0.00012



FIGURES

---



0 400 800

1"=400'±

SITE MAP DRAWING INFORMATION TAKEN FROM CES DRAWING TITLED "LANDFILL SITE MAP", DATED NOVEMBER 2003.



ORANGE COUNTY LANDFILL  
 COUNTY OF ORANGE – GOSHEN, NY  
**SITE PLAN**  
 APRIL 2012

FIGURE NO.  
**1**  
 PROJECT NO.  
 120295

APPENDIX A

LABORATORY ANALYTICAL RESULTS

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

TestAmerica Job ID: 480-42431-1  
Client Project/Site: Orange County Landfill  
Sampling Event: Groundwater Baseline  
Leachate Baseline

For:  
Sterling Environmental Engineering PC  
24 Wade Road  
Latham, New York 12110

Attn: Charlotte Verhoef



Authorized for release by:  
8/7/2013 5:55:56 PM

John Stadler, Project Administrator  
john.stadler@testamericainc.com

Designee for

Lisa Shaffer, Project Manager I  
lisa.shaffer@testamericainc.com

### LINKS

Review your project results through  
**Total Access**

Have a Question?

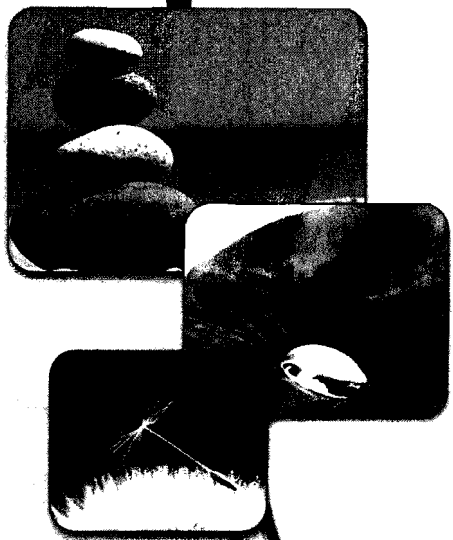
 **Ask The Expert**

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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## Definitions/Glossary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

3

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the blank.

#### General Chemistry

Qualifier	Qualifier Description
b	Result Detected in the Unseeded Control blank (USB).
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

**Job ID: 480-42431-1**

**Laboratory: TestAmerica Buffalo**

### Narrative

Job Narrative  
480-42431-1

### Comments

No additional comments.

### Receipt

The samples were received on 7/23/2013 9:00 AM and 7/25/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.0° C, 2.5° C, 3.1° C, 3.7° C and 3.9° C.

### GC/MS VOA

Method(s) 624: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: MH-15 (480-42431-1). Elevated reporting limits (RLs) are provided.

Method(s) 624: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: MH-7 (480-42572-6). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

### HPLC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MH-15 (480-42431-1). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MH-7 (480-42572-6). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MH-7 (480-42572-6). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

### Metals

Method(s) 6010B: The Method Blank for batch 480-130733 contained total boron, potassium, manganese, and sodium above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples MH-7 (480-42572-6) was not performed.

Method(s) 6010B: The Method Blank for batch 480-130358 contained total boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of sample MH-15 (480-42431-1) was not performed.

Method(s) 6010B: The following sample was diluted to bring the concentration of target analyte total iron within the linear range of the instrument: MH-15 (480-42431-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

### General Chemistry

Method(s) SM 2120B: Sample was filtered prior to analysis, therefore the analytical result must be reported as "True Color" MH-15 (480-42431-1)

Method(s) SM 2120B: The sample was filtered prior to analysis, therefore the analytical result must be reported as "True Color" (480-42572-2 DU), MH-7 (480-42572-6), MW-221S (480-42572-2)

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: MH-15 (480-42431-1). The reporting limits (RLs) have been adjusted proportionately.

## Case Narrative

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Job ID: 480-42431-1 (Continued)

#### Laboratory: TestAmerica Buffalo (Continued)

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: MH-7 (480-42572-6). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 350.1: The inter-parameter relationship between ammonia and TKN does not meet acceptable criteria. This has been confirmed in both ammonia and TKN reanalysis. MH-7 (480-42572-6)

Method(s) 351.2: This method uses a dilution applied during the preparation portion of the procedure. The dilution factor (DF) presented on the final report represents only the analytical dilution, not the dilution factor applied in the preparation batch. MH-15 (480-42431-1)

Method(s) 351.2: This method uses a dilution applied during the preparation portion of the procedure. The dilution factor (DF) presented on the final report represents only the analytical dilution, not the dilution factor applied in the preparation batch. MH-7 (480-42572-6)

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130661 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (480-42572-1 MS)

Method(s) SM 5210B: The USB dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L. The associated sample results are reported. (USB 480-130274/1)

Method(s) 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130645 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (480-42572-9 MS)

Method(s) 7196A: The following sample(s) was diluted due to the nature of the sample matrix: MH-7 (480-42572-6). Elevated reporting limits (RLs) are provided.

Method(s) 7196A: The following sample(s) was diluted due to the nature of the sample matrix: MH-15 (480-42431-1). Elevated reporting limits (RLs) are provided.

Method(s) 335.4, 9012A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 130937 recovered outside control limits for the following analytes: Cyanide. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (480-42572-3 DU), MW-223D (480-42572-3)

No other analytical or quality issues were noted.

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## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

**Client Sample ID: MH-15**

**Lab Sample ID: 480-42431-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4.6		0.20	0.060	mg/L	1		6010B	Total/NA
Antimony	0.018	J	0.020	0.0068	mg/L	1		6010B	Total/NA
Arsenic	0.26		0.010	0.0056	mg/L	1		6010B	Total/NA
Barium	4.6		0.0020	0.00070	mg/L	1		6010B	Total/NA
Beryllium	0.0014	J	0.0020	0.00030	mg/L	1		6010B	Total/NA
Boron	0.53	B	0.020	0.0040	mg/L	1		6010B	Total/NA
Calcium	370	B7	0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.030		0.0040	0.0010	mg/L	1		6010B	Total/NA
Copper	0.051		0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	1100		0.25	0.097	mg/L	5		6010B	Total/NA
Lead	0.032		0.0050	0.0030	mg/L	1		6010B	Total/NA
Magnesium	36		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	6.9		0.0030	0.00040	mg/L	1		6010B	Total/NA
Nickel	0.031		0.010	0.0013	mg/L	1		6010B	Total/NA
Potassium	32		0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	120		1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.060		0.010	0.0015	mg/L	1		6010B	Total/NA
Chloride	130		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	2.5		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	750		100	40	mg/L	10		310.2	Total/NA
Ammonia	47		2.0	0.90	mg/L	100		350.1	Total/NA
Total Kjeldahl Nitrogen	50		5.0	3.8	mg/L	1		351.2	Total/NA
Nitrate as N	0.21		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	520		10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	26		1.0	0.43	mg/L	1		9060	Total/NA
Phenolics, Total Recoverable	0.024		0.010	0.0050	mg/L	1		9066	Total/NA
Hardness as calcium carbonate	540		20	5.3	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	800		20	8.0	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	37	b	2.0	2.0	mg/L	1		SM 5210B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	6000		10	10	NTU	10		180.1	Total/NA
Color	35		5.0	5.0	Color Units	1		SM 2120B	Total/NA

**Client Sample ID: TB1**

**Lab Sample ID: 480-42431-2**

No Detections.

**Client Sample ID: MH-7**

**Lab Sample ID: 480-42572-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	4.7	J	20	2.0	ug/L	4		624	Total/NA
Benzene	17	J	20	2.4	ug/L	4		624	Total/NA
Chlorobenzene	24		20	1.9	ug/L	4		624	Total/NA
Ethylbenzene	36		20	1.9	ug/L	4		624	Total/NA
Arsenic	0.022		0.010	0.0056	mg/L	1		6010B	Total/NA
Barium	0.16		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	3.0	B	0.020	0.0040	mg/L	1		6010B	Total/NA
Calcium	150		0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.011		0.0040	0.0010	mg/L	1		6010B	Total/NA
Copper	0.0031	J	0.010	0.0016	mg/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

Client Sample ID: MH-7 (Continued)

Lab Sample ID: 480-42572-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	15		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	87		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.57	B	0.0030	0.00040	mg/L	1		6010B	Total/NA
Nickel	0.089		0.010	0.0013	mg/L	1		6010B	Total/NA
Potassium	220	B	0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	910	B	1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.0062	J	0.010	0.0015	mg/L	1		6010B	Total/NA
Chloride	1300		10	5.6	mg/L	20		300.0	Total/NA
Sulfate	96		20	3.5	mg/L	10		300.0	Total/NA
Alkalinity, Total	2300		1200	480	mg/L	121		310.2	Total/NA
Ammonia	560		10	4.5	mg/L	500		350.1	Total/NA
Total Kjeldahl Nitrogen	440		100	75	mg/L	1		351.2	Total/NA
Nitrate as N	0.64		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	890		10	5.0	mg/L	1		410.4	Total/NA
Cyanide, Total	0.0064	J*	0.010	0.0050	mg/L	1		9012A	Total/NA
Total Organic Carbon	180		10	4.3	mg/L	10		9060	Total/NA
Hardness	730		10	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	3900		40	16	mg/L	1		SM 2540C	Total/NA
Biochemical Oxygen Demand	35		2.0	2.0	mg/L	1		SM 5210B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	340		1.0	1.0	NTU	1		180.1	Total/NA
Color	250		25	25	Color Units	5		SM 2120B	Total/NA

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This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

**Client Sample ID: MH-15**

Date Collected: 07/22/13 15:30

Date Received: 07/23/13 09:00

**Lab Sample ID: 480-42431-1**

Matrix: Leachate

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	1.5	ug/L			07/23/13 20:36	4
1,1,2,2-Tetrachloroethane	ND		20	1.0	ug/L			07/23/13 20:36	4
1,1,2-Trichloroethane	ND		20	1.9	ug/L			07/23/13 20:36	4
1,1-Dichloroethane	ND		20	2.4	ug/L			07/23/13 20:36	4
1,1-Dichloroethene	ND		20	3.4	ug/L			07/23/13 20:36	4
1,2-Dichlorobenzene	ND		20	1.8	ug/L			07/23/13 20:36	4
1,2-Dichloroethane	ND		20	2.4	ug/L			07/23/13 20:36	4
1,2-Dichloropropane	ND		20	2.4	ug/L			07/23/13 20:36	4
1,3-Dichlorobenzene	ND		20	2.2	ug/L			07/23/13 20:36	4
1,4-Dichlorobenzene	ND		20	2.0	ug/L			07/23/13 20:36	4
2-Chloroethyl vinyl ether	ND		100	7.4	ug/L			07/23/13 20:36	4
Benzene	ND		20	2.4	ug/L			07/23/13 20:36	4
Bromodichloromethane	ND		20	2.1	ug/L			07/23/13 20:36	4
Bromoform	ND		20	1.9	ug/L			07/23/13 20:36	4
Bromomethane	ND		20	4.8	ug/L			07/23/13 20:36	4
Carbon tetrachloride	ND		20	2.0	ug/L			07/23/13 20:36	4
Chlorobenzene	ND		20	1.9	ug/L			07/23/13 20:36	4
Chloroethane	ND		20	3.5	ug/L			07/23/13 20:36	4
Chloroform	ND		20	2.2	ug/L			07/23/13 20:36	4
Chloromethane	ND		20	2.5	ug/L			07/23/13 20:36	4
cis-1,2-Dichloroethene	ND		20	2.3	ug/L			07/23/13 20:36	4
cis-1,3-Dichloropropene	ND		20	1.3	ug/L			07/23/13 20:36	4
Dibromochloromethane	ND		20	1.7	ug/L			07/23/13 20:36	4
Dichlorodifluoromethane	ND		20	1.1	ug/L			07/23/13 20:36	4
Ethylbenzene	ND		20	1.9	ug/L			07/23/13 20:36	4
Methylene Chloride	ND		20	3.3	ug/L			07/23/13 20:36	4
m-Xylene & p-Xylene	ND		40	4.3	ug/L			07/23/13 20:36	4
o-Xylene	ND		20	1.7	ug/L			07/23/13 20:36	4
Tetrachloroethene	ND		20	1.4	ug/L			07/23/13 20:36	4
Toluene	ND		20	1.8	ug/L			07/23/13 20:36	4
trans-1,2-Dichloroethene	ND		20	2.4	ug/L			07/23/13 20:36	4
trans-1,3-Dichloropropene	ND		20	1.8	ug/L			07/23/13 20:36	4
Trichloroethene	ND		20	2.4	ug/L			07/23/13 20:36	4
Trichlorofluoromethane	ND		20	1.8	ug/L			07/23/13 20:36	4
Vinyl chloride	ND		20	3.0	ug/L			07/23/13 20:36	4
Xylenes, Total	ND		40	4.3	ug/L			07/23/13 20:36	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		72 - 130		07/23/13 20:36	4
4-Bromofluorobenzene (Surr)	103		69 - 121		07/23/13 20:36	4
Toluene-d8 (Surr)	99		70 - 123		07/23/13 20:36	4

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.6		0.20	0.060	mg/L		07/24/13 11:35	07/25/13 21:02	1
Antimony	0.018	J	0.020	0.0068	mg/L		07/24/13 11:35	07/25/13 21:02	1
Arsenic	0.26		0.010	0.0056	mg/L		07/24/13 11:35	07/25/13 21:02	1
Barium	4.6		0.0020	0.00070	mg/L		07/24/13 11:35	07/25/13 21:02	1
Beryllium	0.0014	J	0.0020	0.00030	mg/L		07/24/13 11:35	07/25/13 21:02	1
Boron	0.53	B	0.020	0.0040	mg/L		07/24/13 11:35	07/25/13 21:02	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

**Client Sample ID: MH-15**

**Lab Sample ID: 480-42431-1**

Date Collected: 07/22/13 15:30

Matrix: Leachate

Date Received: 07/23/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 11:35	07/25/13 21:02	1
Calcium	370	B7	0.50	0.10	mg/L		07/24/13 11:35	07/25/13 21:02	1
Chromium	0.030		0.0040	0.0010	mg/L		07/24/13 11:35	07/25/13 21:02	1
Copper	0.051		0.010	0.0016	mg/L		07/24/13 11:35	07/25/13 21:02	1
Iron	1100		0.25	0.097	mg/L		07/24/13 11:35	07/26/13 10:18	5
Lead	0.032		0.0050	0.0030	mg/L		07/24/13 11:35	07/25/13 21:02	1
Magnesium	36		0.20	0.043	mg/L		07/24/13 11:35	07/25/13 21:02	1
Manganese	6.9		0.0030	0.00040	mg/L		07/24/13 11:35	07/25/13 21:02	1
Nickel	0.031		0.010	0.0013	mg/L		07/24/13 11:35	07/25/13 21:02	1
Potassium	32		0.50	0.10	mg/L		07/24/13 11:35	07/25/13 21:02	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 11:35	07/25/13 21:02	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 11:35	07/25/13 21:02	1
Sodium	120		1.0	0.32	mg/L		07/24/13 11:35	07/25/13 21:02	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 11:35	07/25/13 21:02	1
Zinc	0.060		0.010	0.0015	mg/L		07/24/13 11:35	07/25/13 21:02	1

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**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 07:30	07/24/13 12:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		2.5	1.4	mg/L			07/25/13 18:51	5
Sulfate	2.5		2.0	0.35	mg/L			07/24/13 12:01	1
Alkalinity, Total	750		100	40	mg/L			07/24/13 14:49	10
Ammonia	47		2.0	0.90	mg/L			07/25/13 14:08	100
Total Kjeldahl Nitrogen	50		5.0	3.8	mg/L		07/24/13 09:00	07/25/13 11:36	1
Nitrate as N	0.21		0.050	0.020	mg/L			07/23/13 16:40	1
Chemical Oxygen Demand	520		10	5.0	mg/L			07/29/13 12:05	1
Chromium, hexavalent	ND		0.020	0.010	mg/L			07/23/13 10:17	2
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 08:21	07/30/13 15:54	1
Total Organic Carbon	26		1.0	0.43	mg/L			07/25/13 21:02	1
Phenolics, Total Recoverable	0.024		0.010	0.0050	mg/L		07/24/13 09:30	07/24/13 15:53	1
Hardness as calcium carbonate	540		20	5.3	mg/L			07/25/13 08:45	1
Total Dissolved Solids	800		20	8.0	mg/L			07/23/13 20:40	1
Biochemical Oxygen Demand	37	b	2.0	2.0	mg/L			07/23/13 16:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	6000		10	10	NTU			07/23/13 15:00	10
Color	35		5.0	5.0	Color Units			07/23/13 16:15	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

**Client Sample ID: TB1**

**Lab Sample ID: 480-42431-2**

Date Collected: 07/22/13 00:00

Matrix: Water

Date Received: 07/23/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/23/13 20:59	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/23/13 20:59	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/23/13 20:59	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/23/13 20:59	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/23/13 20:59	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/23/13 20:59	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/23/13 20:59	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/23/13 20:59	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/23/13 20:59	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/23/13 20:59	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/23/13 20:59	1
Benzene	ND		5.0	0.60	ug/L			07/23/13 20:59	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/23/13 20:59	1
Bromoform	ND		5.0	0.47	ug/L			07/23/13 20:59	1
Bromomethane	ND		5.0	1.2	ug/L			07/23/13 20:59	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/23/13 20:59	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/23/13 20:59	1
Chloroethane	ND		5.0	0.87	ug/L			07/23/13 20:59	1
Chloroform	ND		5.0	0.54	ug/L			07/23/13 20:59	1
Chloromethane	ND		5.0	0.64	ug/L			07/23/13 20:59	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/23/13 20:59	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/23/13 20:59	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/23/13 20:59	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/23/13 20:59	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/23/13 20:59	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/23/13 20:59	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/23/13 20:59	1
o-Xylene	ND		5.0	0.43	ug/L			07/23/13 20:59	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/23/13 20:59	1
Toluene	ND		5.0	0.45	ug/L			07/23/13 20:59	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/23/13 20:59	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/23/13 20:59	1
Trichloroethene	ND		5.0	0.60	ug/L			07/23/13 20:59	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/23/13 20:59	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/23/13 20:59	1
Xylenes, Total	ND		10	1.1	ug/L			07/23/13 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		72 - 130					07/23/13 20:59	1
4-Bromofluorobenzene (Surr)	103		69 - 121					07/23/13 20:59	1
Toluene-d8 (Surr)	98		70 - 123					07/23/13 20:59	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

**Client Sample ID: MH-7**

**Lab Sample ID: 480-42572-6**

Date Collected: 07/24/13 15:30

Matrix: Leachate

Date Received: 07/25/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	1.5	ug/L			07/25/13 21:29	4
1,1,2,2-Tetrachloroethane	ND		20	1.0	ug/L			07/25/13 21:29	4
1,1,2-Trichloroethane	ND		20	1.9	ug/L			07/25/13 21:29	4
1,1-Dichloroethane	ND		20	2.4	ug/L			07/25/13 21:29	4
1,1-Dichloroethene	ND		20	3.4	ug/L			07/25/13 21:29	4
1,2-Dichlorobenzene	ND		20	1.8	ug/L			07/25/13 21:29	4
1,2-Dichloroethane	ND		20	2.4	ug/L			07/25/13 21:29	4
1,2-Dichloropropane	ND		20	2.4	ug/L			07/25/13 21:29	4
1,3-Dichlorobenzene	ND		20	2.2	ug/L			07/25/13 21:29	4
<b>1,4-Dichlorobenzene</b>	<b>4.7</b>	<b>J</b>	20	2.0	ug/L			07/25/13 21:29	4
2-Chloroethyl vinyl ether	ND		100	7.4	ug/L			07/25/13 21:29	4
<b>Benzene</b>	<b>17</b>	<b>J</b>	20	2.4	ug/L			07/25/13 21:29	4
Bromodichloromethane	ND		20	2.1	ug/L			07/25/13 21:29	4
Bromoform	ND		20	1.9	ug/L			07/25/13 21:29	4
Bromomethane	ND		20	4.8	ug/L			07/25/13 21:29	4
Carbon tetrachloride	ND		20	2.0	ug/L			07/25/13 21:29	4
<b>Chlorobenzene</b>	<b>24</b>		20	1.9	ug/L			07/25/13 21:29	4
Chloroethane	ND		20	3.5	ug/L			07/25/13 21:29	4
Chloroform	ND		20	2.2	ug/L			07/25/13 21:29	4
Chloromethane	ND		20	2.5	ug/L			07/25/13 21:29	4
cis-1,2-Dichloroethene	ND		20	2.3	ug/L			07/25/13 21:29	4
cis-1,3-Dichloropropene	ND		20	1.3	ug/L			07/25/13 21:29	4
Dibromochloromethane	ND		20	1.7	ug/L			07/25/13 21:29	4
Dichlorodifluoromethane	ND		20	1.1	ug/L			07/25/13 21:29	4
<b>Ethylbenzene</b>	<b>36</b>		20	1.9	ug/L			07/25/13 21:29	4
Methylene Chloride	ND		20	3.3	ug/L			07/25/13 21:29	4
m-Xylene & p-Xylene	ND		40	4.3	ug/L			07/25/13 21:29	4
o-Xylene	ND		20	1.7	ug/L			07/25/13 21:29	4
Tetrachloroethene	ND		20	1.4	ug/L			07/25/13 21:29	4
Toluene	ND		20	1.8	ug/L			07/25/13 21:29	4
trans-1,2-Dichloroethene	ND		20	2.4	ug/L			07/25/13 21:29	4
trans-1,3-Dichloropropene	ND		20	1.8	ug/L			07/25/13 21:29	4
Trichloroethene	ND		20	2.4	ug/L			07/25/13 21:29	4
Trichlorofluoromethane	ND		20	1.8	ug/L			07/25/13 21:29	4
Vinyl chloride	ND		20	3.0	ug/L			07/25/13 21:29	4
Xylenes, Total	ND		40	4.3	ug/L			07/25/13 21:29	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		72 - 130		07/25/13 21:29	4
4-Bromofluorobenzene (Surr)	105		69 - 121		07/25/13 21:29	4
Toluene-d8 (Surr)	98		70 - 123		07/25/13 21:29	4

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:33	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Arsenic</b>	<b>0.022</b>		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Barium</b>	<b>0.16</b>		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:33	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Boron</b>	<b>3.0</b>	<b>B</b>	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:33	1

TestAmerica Buffalo

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## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

**Client Sample ID: MH-7**

**Lab Sample ID: 480-42572-6**

Date Collected: 07/24/13 15:30

Matrix: Leachate

Date Received: 07/25/13 09:00

### Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Calcium</b>	<b>150</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Chromium</b>	<b>0.011</b>		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Copper</b>	<b>0.0031</b>	<b>J</b>	0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Iron</b>	<b>15</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:33	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Magnesium</b>	<b>87</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Manganese</b>	<b>0.57</b>	<b>B</b>	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Nickel</b>	<b>0.089</b>		0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Potassium</b>	<b>220</b>	<b>B</b>	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:33	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:33	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Sodium</b>	<b>910</b>	<b>B</b>	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:33	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:33	1
<b>Zinc</b>	<b>0.0062</b>	<b>J</b>	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:33	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 13:01	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1300</b>		10	5.6	mg/L			07/26/13 18:28	20
<b>Sulfate</b>	<b>96</b>		20	3.5	mg/L			07/26/13 02:47	10
<b>Alkalinity, Total</b>	<b>2300</b>		1200	480	mg/L			07/25/13 19:38	121
<b>Ammonia</b>	<b>560</b>		10	4.5	mg/L			07/31/13 10:46	500
<b>Total Kjeldahl Nitrogen</b>	<b>440</b>		100	75	mg/L		07/29/13 06:19	07/29/13 16:13	1
<b>Nitrate as N</b>	<b>0.64</b>		0.050	0.020	mg/L			07/25/13 12:59	1
<b>Chemical Oxygen Demand</b>	<b>890</b>		10	5.0	mg/L			07/27/13 13:00	1
Chromium, hexavalent	ND		0.020	0.010	mg/L			07/25/13 09:47	2
<b>Cyanide, Total</b>	<b>0.0064</b>	<b>J *</b>	0.010	0.0050	mg/L		07/25/13 18:23	07/26/13 13:56	1
<b>Total Organic Carbon</b>	<b>180</b>		10	4.3	mg/L			07/29/13 21:16	10
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 06:23	07/26/13 11:11	1
<b>Hardness</b>	<b>730</b>		10	2.6	mg/L			07/30/13 07:45	1
<b>Total Dissolved Solids</b>	<b>3900</b>		40	16	mg/L			07/25/13 18:20	1
<b>Biochemical Oxygen Demand</b>	<b>35</b>		2.0	2.0	mg/L			07/26/13 01:31	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Turbidity</b>	<b>340</b>		1.0	1.0	NTU			07/25/13 12:00	1
<b>Color</b>	<b>250</b>		25	25	Color Units			07/25/13 12:25	5

TestAmerica Buffalo

## Surrogate Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Leachate

Prep Type: Total/NA

#### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE	BFB	TOL
		(72-130)	(69-121)	(70-123)
480-42431-1	MH-15	118	103	99
480-42572-6	MH-7	118	105	98

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)

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### Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

#### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE	BFB	TOL
		(72-130)	(69-121)	(70-123)
480-42431-2	TB1	117	103	98

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)



# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-130358/1-A  
 Matrix: Water  
 Analysis Batch: 130812

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130358

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		07/24/13 11:35	07/25/13 19:52	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 11:35	07/25/13 19:52	1
Arsenic	ND		0.010	0.0056	mg/L		07/24/13 11:35	07/25/13 19:52	1
Barium	ND		0.0020	0.00070	mg/L		07/24/13 11:35	07/25/13 19:52	1
Beryllium	ND		0.0020	0.00030	mg/L		07/24/13 11:35	07/25/13 19:52	1
Boron	0.00549	J	0.020	0.0040	mg/L		07/24/13 11:35	07/25/13 19:52	1
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 11:35	07/25/13 19:52	1
Calcium	0.506		0.50	0.10	mg/L		07/24/13 11:35	07/25/13 19:52	1
Chromium	ND		0.0040	0.0010	mg/L		07/24/13 11:35	07/25/13 19:52	1
Copper	ND		0.010	0.0016	mg/L		07/24/13 11:35	07/25/13 19:52	1
Iron	ND		0.050	0.019	mg/L		07/24/13 11:35	07/25/13 19:52	1
Lead	ND		0.0050	0.0030	mg/L		07/24/13 11:35	07/25/13 19:52	1
Magnesium	ND		0.20	0.043	mg/L		07/24/13 11:35	07/25/13 19:52	1
Manganese	ND		0.0030	0.00040	mg/L		07/24/13 11:35	07/25/13 19:52	1
Nickel	ND		0.010	0.0013	mg/L		07/24/13 11:35	07/25/13 19:52	1
Potassium	ND		0.50	0.10	mg/L		07/24/13 11:35	07/25/13 19:52	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 11:35	07/25/13 19:52	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 11:35	07/25/13 19:52	1
Sodium	ND		1.0	0.32	mg/L		07/24/13 11:35	07/25/13 19:52	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 11:35	07/25/13 19:52	1
Zinc	ND		0.010	0.0015	mg/L		07/24/13 11:35	07/25/13 19:52	1

Lab Sample ID: LCS 480-130358/2-A  
 Matrix: Water  
 Analysis Batch: 130812

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130358

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aluminum	10.0	10.5		mg/L		105	80 - 120
Antimony	0.200	0.193		mg/L		97	80 - 120
Arsenic	0.200	0.204		mg/L		102	80 - 120
Barium	0.200	0.208		mg/L		104	80 - 120
Beryllium	0.200	0.208		mg/L		104	80 - 120
Boron	0.200	0.206		mg/L		103	80 - 120
Cadmium	0.200	0.198		mg/L		99	80 - 120
Calcium	10.0	10.7		mg/L		107	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Copper	0.200	0.198		mg/L		99	80 - 120
Iron	10.0	10.2		mg/L		102	80 - 120
Lead	0.200	0.197		mg/L		98	80 - 120
Magnesium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.200	0.197		mg/L		99	80 - 120
Nickel	0.200	0.197		mg/L		99	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120
Selenium	0.200	0.198		mg/L		99	80 - 120
Silver	0.0500	0.0497		mg/L		99	80 - 120
Sodium	10.0	10.0		mg/L		100	80 - 120
Thallium	0.200	0.201		mg/L		101	80 - 120
Zinc	0.200	0.196		mg/L		98	80 - 120

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-130293/1-A  
 Matrix: Water  
 Analysis Batch: 130424

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130293

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 07:30	07/24/13 12:25	1

Lab Sample ID: LCS 480-130293/2-A  
 Matrix: Water  
 Analysis Batch: 130424

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSD 480-130293/3-A  
 Matrix: Water  
 Analysis Batch: 130424

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 130293

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
									Mercury

### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 480-42431-1 MS  
 Matrix: Leachate  
 Analysis Batch: 130192

Client Sample ID: MH-15  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 480-42431-1 MSD  
 Matrix: Leachate  
 Analysis Batch: 130192

Client Sample ID: MH-15  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
											Sulfate

Lab Sample ID: MB 480-130650/4  
 Matrix: Water  
 Analysis Batch: 130650

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		0.50	0.28	mg/L			07/25/13 15:56	1
Sulfate	ND		2.0	0.35	mg/L			07/25/13 15:56	1

Lab Sample ID: LCS 480-130650/3  
 Matrix: Water  
 Analysis Batch: 130650

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	18.8		mg/L		94	90 - 110

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-130652/52  
 Matrix: Water  
 Analysis Batch: 130652

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		0.50	0.28	mg/L			07/26/13 02:34	1
Sulfate	ND		2.0	0.35	mg/L			07/26/13 02:34	1

Lab Sample ID: LCS 480-130652/51  
 Matrix: Water  
 Analysis Batch: 130652

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chloride	20.0	19.8		mg/L		99	90 - 110
Sulfate	20.0	18.9		mg/L		94	90 - 110

### Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-130634/7  
 Matrix: Water  
 Analysis Batch: 130634

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Total	ND		10	4.0	mg/L			07/24/13 14:29	1

Lab Sample ID: LCS 480-130634/6  
 Matrix: Water  
 Analysis Batch: 130634

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Alkalinity, Total	50.0	49.8		mg/L		100	90 - 110

Lab Sample ID: MB 480-130741/92  
 Matrix: Water  
 Analysis Batch: 130741

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Total	ND		10	4.0	mg/L			07/25/13 19:32	1

Lab Sample ID: LCS 480-130741/91  
 Matrix: Water  
 Analysis Batch: 130741

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Alkalinity, Total	50.0	53.2		mg/L		106	90 - 110

### Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-130698/171  
 Matrix: Water  
 Analysis Batch: 130698

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	ND		0.020	0.0090	mg/L			07/25/13 13:56	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-131642/3  
 Matrix: Water  
 Analysis Batch: 131642

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			07/31/13 10:44	1

Lab Sample ID: MB 480-131642/51  
 Matrix: Water  
 Analysis Batch: 131642

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			07/31/13 11:31	1

Lab Sample ID: LCS 480-131642/4  
 Matrix: Water  
 Analysis Batch: 131642

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: LCS 480-131642/52  
 Matrix: Water  
 Analysis Batch: 131642

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

### Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-130349/1-A  
 Matrix: Water  
 Analysis Batch: 130663

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		07/24/13 09:00	07/25/13 10:16	1

Lab Sample ID: LCS 480-130349/2-A  
 Matrix: Water  
 Analysis Batch: 130663

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.55		mg/L		102	90 - 110

Lab Sample ID: MB 480-131094/1-A  
 Matrix: Water  
 Analysis Batch: 131245

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 131094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		07/29/13 06:19	07/29/13 15:44	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-131094/2-A  
 Matrix: Water  
 Analysis Batch: 131245

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 131094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.38		mg/L		95	90 - 110

### Method: 410.4 - COD

Lab Sample ID: MB 480-131049/3  
 Matrix: Water  
 Analysis Batch: 131049

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/27/13 13:00	1

Lab Sample ID: LCS 480-131049/4  
 Matrix: Water  
 Analysis Batch: 131049

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	188		mg/L		94	90 - 110

Lab Sample ID: MB 480-131183/3  
 Matrix: Water  
 Analysis Batch: 131183

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/29/13 12:05	1

Lab Sample ID: LCS 480-131183/4  
 Matrix: Water  
 Analysis Batch: 131183

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	183		mg/L		92	90 - 110

### Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-131580/3  
 Matrix: Water  
 Analysis Batch: 131580

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			07/29/13 15:24	1

Lab Sample ID: LCS 480-131580/4  
 Matrix: Water  
 Analysis Batch: 131580

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.1		mg/L		97	90 - 110

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-130382/1-A  
 Matrix: Water  
 Analysis Batch: 130469

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 09:30	07/24/13 15:53	1

Lab Sample ID: LCS 480-130382/2-A  
 Matrix: Water  
 Analysis Batch: 130469

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenolics, Total Recoverable	0.100	0.102		mg/L		102	90 - 110

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### Method: SM 2340C - Hardness, Total

Lab Sample ID: 480-42431-1 MS  
 Matrix: Leachate  
 Analysis Batch: 130718

Client Sample ID: MH-15  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Hardness as calcium carbonate	540		1000	1600		mg/L		106	74 - 130

# QC Association Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

## GC/MS VOA

### Analysis Batch: 130203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	624	
480-42431-2	TB1	Total/NA	Water	624	

### Analysis Batch: 130518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	624	

## Metals

### Prep Batch: 130293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	7470A	
LCS 480-130293/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-130293/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 480-130293/1-A	Method Blank	Total/NA	Water	7470A	

### Prep Batch: 130358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	3005A	
LCS 480-130358/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-130358/1-A	Method Blank	Total/NA	Water	3005A	

### Analysis Batch: 130424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	7470A	130293
LCS 480-130293/2-A	Lab Control Sample	Total/NA	Water	7470A	130293
LCSD 480-130293/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	130293
MB 480-130293/1-A	Method Blank	Total/NA	Water	7470A	130293

### Prep Batch: 130733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	3005A	

### Prep Batch: 130790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	7470A	

### Analysis Batch: 130812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	6010B	130358
LCS 480-130358/2-A	Lab Control Sample	Total/NA	Water	6010B	130358
MB 480-130358/1-A	Method Blank	Total/NA	Water	6010B	130358

### Analysis Batch: 130930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	7470A	130790

### Analysis Batch: 130948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	6010B	130358

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Metals (Continued)

#### Analysis Batch: 131020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	6010B	130733

### General Chemistry

#### Analysis Batch: 130167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	7196A	

#### Analysis Batch: 130192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	300.0	
480-42431-1 MS	MH-15	Total/NA	Leachate	300.0	
480-42431-1 MSD	MH-15	Total/NA	Leachate	300.0	

#### Analysis Batch: 130218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	180.1	

#### Analysis Batch: 130225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	SM 2120B	

#### Analysis Batch: 130233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	SM 2540C	

#### Analysis Batch: 130236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	353.2	

#### Analysis Batch: 130274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	SM 5210B	

#### Prep Batch: 130349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	351.2	
LCS 480-130349/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-130349/1-A	Method Blank	Total/NA	Water	351.2	

#### Prep Batch: 130382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	Distill/Phenol	
LCS 480-130382/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-130382/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

#### Analysis Batch: 130469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	9066	130382
LCS 480-130382/2-A	Lab Control Sample	Total/NA	Water	9066	130382

TestAmerica Buffalo



## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### General Chemistry (Continued)

#### Analysis Batch: 130469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-130382/1-A	Method Blank	Total/NA	Water	9066	130382

#### Analysis Batch: 130634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	310.2	
LCS 480-130634/6	Lab Control Sample	Total/NA	Water	310.2	
MB 480-130634/7	Method Blank	Total/NA	Water	310.2	

#### Analysis Batch: 130645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	7196A	

#### Analysis Batch: 130650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	300.0	
LCS 480-130650/3	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130650/4	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	300.0	
LCS 480-130652/51	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130652/52	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	351.2	130349
LCS 480-130349/2-A	Lab Control Sample	Total/NA	Water	351.2	130349
MB 480-130349/1-A	Method Blank	Total/NA	Water	351.2	130349

#### Analysis Batch: 130679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	353.2	

#### Analysis Batch: 130698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	350.1	
MB 480-130698/171	Method Blank	Total/NA	Water	350.1	

#### Analysis Batch: 130712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	180.1	

#### Analysis Batch: 130715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	SM 2120B	

#### Analysis Batch: 130718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	SM 2340C	
480-42431-1 MS	MH-15	Total/NA	Leachate	SM 2340C	

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### General Chemistry (Continued)

#### Analysis Batch: 130728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	SM 2540C	

#### Analysis Batch: 130741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	310.2	
LCS 480-130741/91	Lab Control Sample	Total/NA	Water	310.2	
MB 480-130741/92	Method Blank	Total/NA	Water	310.2	

#### Prep Batch: 130750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	9012A	

#### Analysis Batch: 130759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	SM 5210B	

#### Prep Batch: 130760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	Distill/Phenol	

#### Analysis Batch: 130776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	9060	

#### Analysis Batch: 130882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	300.0	

#### Analysis Batch: 130911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	9066	130760

#### Analysis Batch: 130937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	9012A	130750

#### Analysis Batch: 131049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	410.4	
LCS 480-131049/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-131049/3	Method Blank	Total/NA	Water	410.4	

#### Prep Batch: 131094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	351.2	
LCS 480-131094/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-131094/1-A	Method Blank	Total/NA	Water	351.2	

#### Analysis Batch: 131183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	410.4	

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TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### General Chemistry (Continued)

#### Analysis Batch: 131183 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-131183/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-131183/3	Method Blank	Total/NA	Water	410.4	

#### Analysis Batch: 131245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	351.2	131094
LCS 480-131094/2-A	Lab Control Sample	Total/NA	Water	351.2	131094
MB 480-131094/1-A	Method Blank	Total/NA	Water	351.2	131094

#### Prep Batch: 131375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	9012A	

#### Analysis Batch: 131471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	SM 2340C	

#### Analysis Batch: 131482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42431-1	MH-15	Total/NA	Leachate	9012A	131375

#### Analysis Batch: 131580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	9060	
LCS 480-131580/4	Lab Control Sample	Total/NA	Water	9060	
MB 480-131580/3	Method Blank	Total/NA	Water	9060	

#### Analysis Batch: 131642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-6	MH-7	Total/NA	Leachate	350.1	
LCS 480-131642/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-131642/52	Lab Control Sample	Total/NA	Water	350.1	
MB 480-131642/3	Method Blank	Total/NA	Water	350.1	
MB 480-131642/51	Method Blank	Total/NA	Water	350.1	

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

## Client Sample ID: MH-15

Lab Sample ID: 480-42431-1

Date Collected: 07/22/13 15:30

Matrix: Leachate

Date Received: 07/23/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		4	130203	07/23/13 20:36	TRB	TAL BUF
Total/NA	Prep	7470A			130293	07/24/13 07:30	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130424	07/24/13 12:45	JRK	TAL BUF
Total/NA	Analysis	6010B		1	130812	07/25/13 21:02	LMH	TAL BUF
Total/NA	Prep	3005A			130358	07/24/13 11:35	SS1	TAL BUF
Total/NA	Analysis	6010B		5	130948	07/26/13 10:18	LMH	TAL BUF
Total/NA	Analysis	7196A		2	130167	07/23/13 10:17	KJ1	TAL BUF
Total/NA	Analysis	300.0		1	130192	07/24/13 12:01	KRC	TAL BUF
Total/NA	Analysis	180.1		10	130218	07/23/13 15:00	SAB	TAL BUF
Total/NA	Analysis	SM 2120B		1	130225	07/23/13 16:15	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130233	07/23/13 20:40	KS	TAL BUF
Total/NA	Analysis	353.2		1	130236	07/23/13 16:40	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130274	07/23/13 16:36	KS	TAL BUF
Total/NA	Prep	Distill/Phenol			130382	07/24/13 09:30	SAB	TAL BUF
Total/NA	Analysis	9066		1	130469	07/24/13 15:53	RMB	TAL BUF
Total/NA	Analysis	310.2		10	130634	07/24/13 14:49	KWJ	TAL BUF
Total/NA	Analysis	300.0		5	130650	07/25/13 18:51	KAC	TAL BUF
Total/NA	Prep	351.2			130349	07/24/13 09:00	KJ1	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:36	EGN	TAL BUF
Total/NA	Analysis	350.1		100	130698	07/25/13 14:08	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	9060		1	130776	07/25/13 21:02	KRC	TAL BUF
Total/NA	Analysis	410.4		1	131183	07/29/13 12:05	SAB	TAL BUF
Total/NA	Prep	9012A			131375	07/30/13 08:21	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	131482	07/30/13 15:54	KMF	TAL BUF

## Client Sample ID: TB1

Lab Sample ID: 480-42431-2

Date Collected: 07/22/13 00:00

Matrix: Water

Date Received: 07/23/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130203	07/23/13 20:59	TRB	TAL BUF

## Client Sample ID: MH-7

Lab Sample ID: 480-42572-6

Date Collected: 07/24/13 15:30

Matrix: Leachate

Date Received: 07/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		4	130518	07/25/13 21:29	TRB	TAL BUF
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 13:01	JRK	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

**Client Sample ID: MH-7**

**Lab Sample ID: 480-42572-6**

Date Collected: 07/24/13 15:30

Matrix: Leachate

Date Received: 07/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:33	LMH	TAL BUF
Total/NA	Analysis	7196A		2	130645	07/25/13 09:47	KMF	TAL BUF
Total/NA	Analysis	300.0		10	130652	07/26/13 02:47	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 12:59	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		5	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		121	130741	07/25/13 19:38	NCH	TAL BUF
Total/NA	Analysis	SM 5210B		1	130759	07/26/13 01:31	LMK	TAL BUF
Total/NA	Analysis	300.0		20	130882	07/26/13 18:28	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			130760	07/26/13 06:23	LMK	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 11:11	KWJ	TAL BUF
Total/NA	Prep	9012A			130750	07/25/13 18:23	JMB	TAL BUF
Total/NA	Analysis	9012A		1	130937	07/26/13 13:56	KWJ	TAL BUF
Total/NA	Analysis	410.4		1	131049	07/27/13 13:00	KMF	TAL BUF
Total/NA	Prep	351.2			131094	07/29/13 06:19	LMK	TAL BUF
Total/NA	Analysis	351.2		1	131245	07/29/13 16:13	NCH	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF
Total/NA	Analysis	9060		10	131580	07/29/13 21:16	KRC	TAL BUF
Total/NA	Analysis	350.1		500	131642	07/31/13 10:46	SAB	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Certification Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	04-01-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Leachate	1,1,1-Trichloroethane
624		Leachate	1,1,2,2-Tetrachloroethane
624		Leachate	1,1,2-Trichloroethane
624		Leachate	1,1-Dichloroethane
624		Leachate	1,1-Dichloroethene
624		Leachate	1,2-Dichlorobenzene
624		Leachate	1,2-Dichloroethane
624		Leachate	1,2-Dichloropropane
624		Leachate	1,3-Dichlorobenzene
624		Leachate	1,4-Dichlorobenzene
624		Leachate	2-Chloroethyl vinyl ether
624		Leachate	Benzene
624		Leachate	Bromodichloromethane
624		Leachate	Bromoform
624		Leachate	Bromomethane
624		Leachate	Carbon tetrachloride
624		Leachate	Chlorobenzene
624		Leachate	Chloroethane
624		Leachate	Chloroform
624		Leachate	Chloromethane
624		Leachate	cis-1,2-Dichloroethene
624		Leachate	cis-1,3-Dichloropropene
624		Leachate	Dibromochloromethane
624		Leachate	Dichlorodifluoromethane
624		Leachate	Ethylbenzene
624		Leachate	Methylene Chloride
624		Leachate	m-Xylene & p-Xylene
624		Leachate	o-Xylene
624		Leachate	Tetrachloroethene
624		Leachate	Toluene
624		Leachate	trans-1,2-Dichloroethene
624		Leachate	trans-1,3-Dichloropropene
624		Leachate	Trichloroethene
624		Leachate	Trichlorofluoromethane
624		Leachate	Vinyl chloride
624		Leachate	Xylenes, Total
624		Water	1,1,1-Trichloroethane
624		Water	1,1,2,2-Tetrachloroethane
624		Water	1,1,2-Trichloroethane
624		Water	1,1-Dichloroethane
624		Water	1,1-Dichloroethene
624		Water	1,2-Dichlorobenzene
624		Water	1,2-Dichloroethane
624		Water	1,2-Dichloropropane
624		Water	1,3-Dichlorobenzene
624		Water	1,4-Dichlorobenzene

## Certification Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

### Laboratory: TestAmerica Buffalo (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	04-01-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Water	2-Chloroethyl vinyl ether
624		Water	Benzene
624		Water	Bromodichloromethane
624		Water	Bromoform
624		Water	Bromomethane
624		Water	Carbon tetrachloride
624		Water	Chlorobenzene
624		Water	Chloroethane
624		Water	Chloroform
624		Water	Chloromethane
624		Water	cis-1,2-Dichloroethene
624		Water	cis-1,3-Dichloropropene
624		Water	Dibromochloromethane
624		Water	Dichlorodifluoromethane
624		Water	Ethylbenzene
624		Water	Methylene Chloride
624		Water	m-Xylene & p-Xylene
624		Water	o-Xylene
624		Water	Tetrachloroethene
624		Water	Toluene
624		Water	trans-1,2-Dichloroethene
624		Water	trans-1,3-Dichloropropene
624		Water	Trichloroethene
624		Water	Trichlorofluoromethane
624		Water	Vinyl chloride
624		Water	Xylenes, Total
9012A	9012A	Leachate	Cyanide, Total

## Method Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
180.1	Turbidity, Nephelometric	MCAWW	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9012A	Cyanide, Total and/or Amenable	SW846	TAL BUF
9060	Organic Carbon, Total (TOC)	SW846	TAL BUF
9066	Phenolics, Total Recoverable	SW846	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2340C	Hardness, Total	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600





# Sample Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42431-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42431-1	MH-15	Leachate	07/22/13 15:30	07/23/13 09:00
480-42431-2	TB1	Water	07/22/13 00:00	07/23/13 09:00
480-42572-6	MH-7	Leachate	07/24/13 15:30	07/25/13 09:00



**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

**TestAmerica**

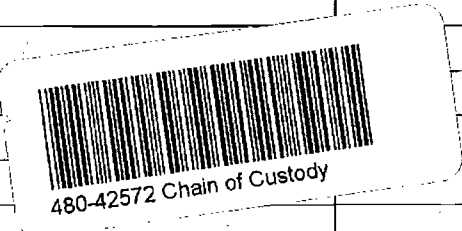
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>STERLING ENV. ENG. P.C.</b>	Project Manager <b>M. Millsbaugh</b>	Date <b>7/24/2013</b>	Chain of Custody Number <b>227899</b>
Address <b>24 Wade Road</b>	Telephone Number (Area Code)/Fax Number <b>518 456 4900</b>	Lab Number	Page <b>7</b> of <b>3</b>

City <b>Latham</b>	State <b>NY</b>	Zip Code <b>12110</b>	Site Contact <b>C. Verhoff</b>	Lab Contact <b>Lisa Shaffer</b>	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
Project Name and Location (State) <b>Orange Co</b>			Carrier/Waybill Number			

Sample I.D. No. and Description <small>(Containers for each sample may be combined on one line)</small>	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		
MW-3B	7/24/13	1505	X											EPO Tables
MW-221S	↓	930	↓											
MW-223D	↓	800	↓											



NY RRRA  
 300 Base Line  
 Parameters by  
 Disolved metals

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <b>1</b> Months	

Turn Around Time Required	QC Requirements (Specify)
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>STD TAT</b>	
1. Relinquished By: <b>M. Verhoff</b>	1. Received By: <b>[Signature]</b>
Date: <b>7/24/13</b> Time: <b>16:50</b>	Date: <b>7-25-13</b> Time: <b>0900</b>
2. Relinquished By:	2. Received By:
Date:   Time:	Date:   Time:
3. Relinquished By:	3. Received By:
Date:   Time:	Date:   Time:

Comments: **3.2, 3.9, 3.1 #1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>STERLING ENV. ENG. PC</b>		Project Manager <b>M. Millspaugh</b>		Date <b>7/24/13</b>	Chain of Custody Number <b>227900</b>
Address <b>24 Wade Road</b>		Telephone Number (Area Code)/Fax Number <b>518 456-4900</b>		Lab Number	Page <b>3</b> of <b>3</b>

City <b>Latham</b>	State <b>NY</b>	Zip Code <b>12110</b>	Site Contact <b>C. Verhoef</b>	Lab Contact <b>Lisa Shaffer</b>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <b>Orange Co.</b>			Carrier/Waybill Number		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Ser	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
MW-222	7/24/13	14:20		X											# missing 1 liter BOD jar - wild sample on 7/25/13.  EDD Tables
MW-220	↓	10:30													
MW-245 D *	↓	15:55		↓											

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <b>7</b> Months	(A fee may be assessed if samples are retained longer than 1 month)
---	---	---

Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>STAT</b>	QC Requirements (Specify)
--	---------------------------

1. Relinquished By <b>C. Verhoef</b>	Date <b>7/24/13</b>	Time <b>16:50</b>	1. Received By <b>[Signature]</b>	Date <b>7-25-13</b>	Time <b>0900</b>
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments  
**3.7, 3.9, 2.1 # 1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

## Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-42431-1

Login Number: 42431

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Sterling
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	Ok

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## Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-42431-1

Login Number: 42572

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Sterling
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	Ok

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc  
TestAmerica Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

TestAmerica Job ID: 480-42663-1  
Client Project/Site: Orange County Landfill  
Sampling Event: Surface Water Baseline

For:  
Sterling Environmental Engineering PC  
24 Wade Road  
Latham, New York 12110

Attn: Charlotte Verhoef



Authorized for release by:  
8/7/2013 5:58:11 PM

John Stadler, Project Administrator  
john.stadler@testamericainc.com

Designee for  
Lisa Shaffer, Project Manager I  
lisa.shaffer@testamericainc.com

### LINKS

Review your project results through  
**Total Access**

Have a Question?

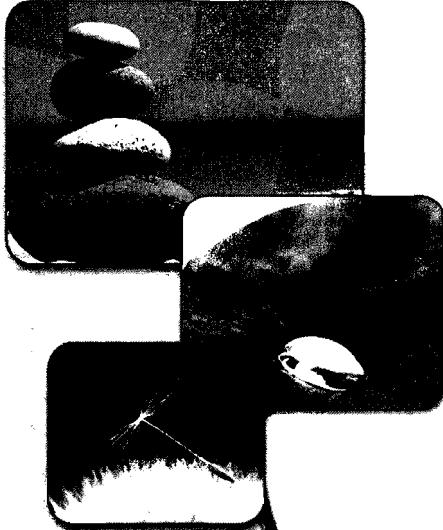
 **Ask The Expert**

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*





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## Definitions/Glossary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

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### Qualifiers

#### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

#### General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Job ID: 480-42663-1**

**Laboratory: TestAmerica Buffalo**

### Narrative

**Job Narrative  
480-42663-1**

### Comments

No additional comments.

### Receipt

The samples were received on 7/26/2013 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.7° C, 3.2° C and 4.1° C.

### GC/MS VOA

No analytical or quality issues were noted.

### HPLC

No analytical or quality issues were noted.

### Metals

Method(s) 6010B: The Method Blank for batch 480-131069 contained total manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples SW-13 (480-42663-4), SW-3 (480-42663-3), SW-5 (480-42663-1), SW-8 (480-42663-2) was not performed.

No other analytical or quality issues were noted.

### General Chemistry

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130926 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) SM 5210B: The USB dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L. The associated sample results are reported. (USB 480-130993/1)

Method(s) 7196A: The following sample(s) was received outside of holding time: SW-5 (480-42663-1), SW-8 (480-42663-2).

Method(s) 7196A: The following sample(s) was received with greater than 50% of holding time expired: SW-13 (480-42663-4), SW-3 (480-42663-3). As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

No other analytical or quality issues were noted.

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

Client Sample ID: SW-5

Lab Sample ID: 480-42663-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.99		0.20	0.060	mg/L	1			6010B	Total/NA
Barium	0.028		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.042		0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	42		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0021	J	0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0036	J	0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	1.2		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	14		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	0.12	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0019	J	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	2.8		0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	30		1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.011		0.010	0.0015	mg/L	1			6010B	Total/NA
Chloride	50		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	16		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	130		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.12		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.50		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	1.0		0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	17		10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	5.4		1.0	0.43	mg/L	1			9060	Total/NA
Hardness as calcium carbonate	160		10	2.6	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	240		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	41		1.0	1.0	NTU	1			180.1	Total/NA
Color	70		5.0	5.0	Color Units	1			SM 2120B	Total/NA

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Client Sample ID: SW-8

Lab Sample ID: 480-42663-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	1.1		0.20	0.060	mg/L	1			6010B	Total/NA
Barium	0.029		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.041		0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	42		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0020	J	0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0034	J	0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	1.3		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	14		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	0.13	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0018	J	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	2.8		0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	30		1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.0066	J	0.010	0.0015	mg/L	1			6010B	Total/NA
Chloride	51		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	16		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	110		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.082		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.55		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.99		0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	18		10	5.0	mg/L	1			410.4	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### Client Sample ID: SW-8 (Continued)

### Lab Sample ID: 480-42663-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	5.4		1.0	0.43	mg/L	1		9060	Total/NA
Hardness as calcium carbonate	160		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	260		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	47		1.0	1.0	NTU	1		180.1	Total/NA
Color	80		10	10	Color Units	2		SM 2120B	Total/NA

### Client Sample ID: SW-3

### Lab Sample ID: 480-42663-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.4		0.20	0.060	mg/L	1		6010B	Total/NA
Barium	0.033		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	0.039		0.020	0.0040	mg/L	1		6010B	Total/NA
Calcium	46		0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.0021	J	0.0040	0.0010	mg/L	1		6010B	Total/NA
Copper	0.0036	J	0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	1.7		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	13		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.21	B	0.0030	0.00040	mg/L	1		6010B	Total/NA
Nickel	0.0022	J	0.010	0.0013	mg/L	1		6010B	Total/NA
Potassium	2.7		0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	28		1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.0081	J	0.010	0.0015	mg/L	1		6010B	Total/NA
Chloride	46		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	18		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	100		100	40	mg/L	10		310.2	Total/NA
Ammonia	0.076		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.58		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.83		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	15		10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	5.9		1.0	0.43	mg/L	1		9060	Total/NA
Hardness as calcium carbonate	160		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	230		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	45		1.0	1.0	NTU	1		180.1	Total/NA
Color	70		10	10	Color Units	2		SM 2120B	Total/NA

### Client Sample ID: SW-13

### Lab Sample ID: 480-42663-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.0		0.20	0.060	mg/L	1		6010B	Total/NA
Barium	0.028		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	0.039		0.020	0.0040	mg/L	1		6010B	Total/NA
Calcium	41		0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.0020	J	0.0040	0.0010	mg/L	1		6010B	Total/NA
Copper	0.0042	J	0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	1.2		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	13		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.12	B	0.0030	0.00040	mg/L	1		6010B	Total/NA
Nickel	0.0017	J	0.010	0.0013	mg/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

Client Sample ID: SW-13 (Continued)

Lab Sample ID: 480-42663-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Potassium	2.8		0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	30		1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.0075	J	0.010	0.0015	mg/L	1			6010B	Total/NA
Chloride	50		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	16		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	130		20	8.0	mg/L	2			310.2	Total/NA
Ammonia	0.077		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.46		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.99		0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	18		10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	5.4		1.0	0.43	mg/L	1			9060	Total/NA
Hardness as calcium carbonate	160		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	230		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	63		1.0	1.0	NTU	1			180.1	Total/NA
Color	80		10	10	Color Units	2			SM 2120B	Total/NA

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This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

Client Sample ID: SW-5

Lab Sample ID: 480-42663-1

Date Collected: 07/25/13 08:10

Matrix: Surface Water

Date Received: 07/26/13 08:45

## Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/29/13 14:26	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/29/13 14:26	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/29/13 14:26	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/29/13 14:26	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/29/13 14:26	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/29/13 14:26	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/29/13 14:26	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/29/13 14:26	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/29/13 14:26	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/29/13 14:26	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/29/13 14:26	1
Benzene	ND		5.0	0.60	ug/L			07/29/13 14:26	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/29/13 14:26	1
Bromoform	ND		5.0	0.47	ug/L			07/29/13 14:26	1
Bromomethane	ND		5.0	1.2	ug/L			07/29/13 14:26	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/29/13 14:26	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/29/13 14:26	1
Chloroethane	ND		5.0	0.87	ug/L			07/29/13 14:26	1
Chloroform	ND		5.0	0.54	ug/L			07/29/13 14:26	1
Chloromethane	ND		5.0	0.64	ug/L			07/29/13 14:26	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/29/13 14:26	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/29/13 14:26	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/29/13 14:26	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/29/13 14:26	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/29/13 14:26	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/29/13 14:26	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/29/13 14:26	1
o-Xylene	ND		5.0	0.43	ug/L			07/29/13 14:26	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/29/13 14:26	1
Toluene	ND		5.0	0.45	ug/L			07/29/13 14:26	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/29/13 14:26	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/29/13 14:26	1
Trichloroethene	ND		5.0	0.60	ug/L			07/29/13 14:26	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/29/13 14:26	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/29/13 14:26	1
Xylenes, Total	ND		10	1.1	ug/L			07/29/13 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		72 - 130		07/29/13 14:26	1
4-Bromofluorobenzene (Surr)	106		69 - 121		07/29/13 14:26	1
Toluene-d8 (Surr)	99		70 - 123		07/29/13 14:26	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.99		0.20	0.060	mg/L		07/29/13 08:15	07/30/13 01:51	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/30/13 01:51	1
Arsenic	ND		0.010	0.0056	mg/L		07/29/13 08:15	07/30/13 01:51	1
Barium	0.028		0.0020	0.00070	mg/L		07/29/13 08:15	07/30/13 01:51	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/30/13 01:51	1
Boron	0.042		0.020	0.0040	mg/L		07/29/13 08:15	07/30/13 10:59	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-5**

**Lab Sample ID: 480-42663-1**

Date Collected: 07/25/13 08:10

Matrix: Surface Water

Date Received: 07/26/13 08:45

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Calcium</b>	<b>42</b>		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Chromium</b>	<b>0.0021</b>	<b>J</b>	0.0040	0.0010	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Copper</b>	<b>0.0036</b>	<b>J</b>	0.010	0.0016	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Iron</b>	<b>1.2</b>		0.050	0.019	mg/L		07/29/13 08:15	07/30/13 01:51	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Magnesium</b>	<b>14</b>		0.20	0.043	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Manganese</b>	<b>0.12</b>	<b>B</b>	0.0030	0.00040	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Nickel</b>	<b>0.0019</b>	<b>J</b>	0.010	0.0013	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Potassium</b>	<b>2.8</b>		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:51	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/30/13 01:51	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Sodium</b>	<b>30</b>		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 01:51	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/30/13 01:51	1
<b>Zinc</b>	<b>0.011</b>		0.010	0.0015	mg/L		07/29/13 08:15	07/30/13 01:51	1

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**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:40	07/29/13 12:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>50</b>		0.50	0.28	mg/L			07/27/13 14:43	1
<b>Sulfate</b>	<b>16</b>		2.0	0.35	mg/L			07/27/13 14:43	1
<b>Alkalinity, Total</b>	<b>130</b>		100	40	mg/L			07/26/13 17:46	10
<b>Ammonia</b>	<b>0.12</b>		0.020	0.0090	mg/L			07/26/13 16:42	1
<b>Total Kjeldahl Nitrogen</b>	<b>0.50</b>		0.20	0.15	mg/L		07/30/13 01:30	07/30/13 10:49	1
<b>Nitrate as N</b>	<b>1.0</b>		0.050	0.020	mg/L			07/26/13 14:13	1
<b>Chemical Oxygen Demand</b>	<b>17</b>		10	5.0	mg/L			07/29/13 11:36	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/26/13 10:44	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 17:17	08/01/13 11:18	1
<b>Total Organic Carbon</b>	<b>5.4</b>		1.0	0.43	mg/L			07/29/13 23:43	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/29/13 09:00	07/30/13 11:24	1
<b>Hardness as calcium carbonate</b>	<b>160</b>		10	2.6	mg/L			07/30/13 20:15	1
<b>Total Dissolved Solids</b>	<b>240</b>		10	4.0	mg/L			07/30/13 00:47	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 18:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Turbidity</b>	<b>41</b>		1.0	1.0	NTU			07/26/13 14:50	1
<b>Color</b>	<b>70</b>		5.0	5.0	Color Units			07/26/13 15:51	1



# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-8**

**Lab Sample ID: 480-42663-2**

Date Collected: 07/25/13 07:00

Matrix: Surface Water

Date Received: 07/26/13 08:45

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/29/13 14:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/29/13 14:49	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/29/13 14:49	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/29/13 14:49	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/29/13 14:49	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/29/13 14:49	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/29/13 14:49	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/29/13 14:49	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/29/13 14:49	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/29/13 14:49	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/29/13 14:49	1
Benzene	ND		5.0	0.60	ug/L			07/29/13 14:49	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/29/13 14:49	1
Bromoform	ND		5.0	0.47	ug/L			07/29/13 14:49	1
Bromomethane	ND		5.0	1.2	ug/L			07/29/13 14:49	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/29/13 14:49	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/29/13 14:49	1
Chloroethane	ND		5.0	0.87	ug/L			07/29/13 14:49	1
Chloroform	ND		5.0	0.54	ug/L			07/29/13 14:49	1
Chloromethane	ND		5.0	0.64	ug/L			07/29/13 14:49	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/29/13 14:49	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/29/13 14:49	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/29/13 14:49	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/29/13 14:49	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/29/13 14:49	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/29/13 14:49	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/29/13 14:49	1
o-Xylene	ND		5.0	0.43	ug/L			07/29/13 14:49	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/29/13 14:49	1
Toluene	ND		5.0	0.45	ug/L			07/29/13 14:49	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/29/13 14:49	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/29/13 14:49	1
Trichloroethene	ND		5.0	0.60	ug/L			07/29/13 14:49	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/29/13 14:49	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/29/13 14:49	1
Xylenes, Total	ND		10	1.1	ug/L			07/29/13 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		72 - 130		07/29/13 14:49	1
4-Bromofluorobenzene (Surr)	106		69 - 121		07/29/13 14:49	1
Toluene-d8 (Surr)	98		70 - 123		07/29/13 14:49	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.1		0.20	0.060	mg/L		07/29/13 08:15	07/30/13 01:53	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/30/13 01:53	1
Arsenic	ND		0.010	0.0056	mg/L		07/29/13 08:15	07/30/13 01:53	1
Barium	0.029		0.0020	0.00070	mg/L		07/29/13 08:15	07/30/13 01:53	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/30/13 01:53	1
Boron	0.041		0.020	0.0040	mg/L		07/29/13 08:15	07/30/13 11:02	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-8**

Date Collected: 07/25/13 07:00

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42663-2**

Matrix: Surface Water

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/30/13 01:53	1
Calcium	42		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:53	1
Chromium	0.0020	J	0.0040	0.0010	mg/L		07/29/13 08:15	07/30/13 01:53	1
Copper	0.0034	J	0.010	0.0016	mg/L		07/29/13 08:15	07/30/13 01:53	1
Iron	1.3		0.050	0.019	mg/L		07/29/13 08:15	07/30/13 01:53	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/30/13 01:53	1
Magnesium	14		0.20	0.043	mg/L		07/29/13 08:15	07/30/13 01:53	1
Manganese	0.13	B	0.0030	0.00040	mg/L		07/29/13 08:15	07/30/13 01:53	1
Nickel	0.0018	J	0.010	0.0013	mg/L		07/29/13 08:15	07/30/13 01:53	1
Potassium	2.8		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:53	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/30/13 01:53	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/30/13 01:53	1
Sodium	30		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 01:53	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/30/13 01:53	1
Zinc	0.0066	J	0.010	0.0015	mg/L		07/29/13 08:15	07/30/13 01:53	1

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**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:40	07/29/13 12:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51		0.50	0.28	mg/L			07/27/13 14:53	1
Sulfate	16		2.0	0.35	mg/L			07/27/13 14:53	1
Alkalinity, Total	110		100	40	mg/L			07/26/13 17:46	10
Ammonia	0.082		0.020	0.0090	mg/L			07/26/13 16:47	1
Total Kjeldahl Nitrogen	0.55		0.20	0.15	mg/L		07/30/13 01:30	07/30/13 10:49	1
Nitrate as N	0.99		0.050	0.020	mg/L			07/26/13 14:14	1
Chemical Oxygen Demand	18		10	5.0	mg/L			07/29/13 11:36	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/26/13 10:44	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 17:17	08/01/13 11:19	1
Total Organic Carbon	5.4		1.0	0.43	mg/L			07/30/13 00:14	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/29/13 09:00	07/30/13 11:24	1
Hardness as calcium carbonate	160		4.0	1.1	mg/L			07/30/13 20:15	1
Total Dissolved Solids	260		10	4.0	mg/L			07/30/13 00:48	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 18:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	47		1.0	1.0	NTU			07/26/13 14:50	1
Color	80		10	10	Color Units			07/26/13 15:52	2

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-3**

**Lab Sample ID: 480-42663-3**

Date Collected: 07/25/13 09:20

Matrix: Surface Water

Date Received: 07/26/13 08:45

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/29/13 15:12	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/29/13 15:12	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/29/13 15:12	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/29/13 15:12	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/29/13 15:12	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/29/13 15:12	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/29/13 15:12	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/29/13 15:12	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/29/13 15:12	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/29/13 15:12	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/29/13 15:12	1
Benzene	ND		5.0	0.60	ug/L			07/29/13 15:12	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/29/13 15:12	1
Bromoform	ND		5.0	0.47	ug/L			07/29/13 15:12	1
Bromomethane	ND		5.0	1.2	ug/L			07/29/13 15:12	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/29/13 15:12	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/29/13 15:12	1
Chloroethane	ND		5.0	0.87	ug/L			07/29/13 15:12	1
Chloroform	ND		5.0	0.54	ug/L			07/29/13 15:12	1
Chloromethane	ND		5.0	0.64	ug/L			07/29/13 15:12	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/29/13 15:12	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/29/13 15:12	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/29/13 15:12	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/29/13 15:12	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/29/13 15:12	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/29/13 15:12	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/29/13 15:12	1
o-Xylene	ND		5.0	0.43	ug/L			07/29/13 15:12	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/29/13 15:12	1
Toluene	ND		5.0	0.45	ug/L			07/29/13 15:12	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/29/13 15:12	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/29/13 15:12	1
Trichloroethene	ND		5.0	0.60	ug/L			07/29/13 15:12	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/29/13 15:12	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/29/13 15:12	1
Xylenes, Total	ND		10	1.1	ug/L			07/29/13 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		72 - 130		07/29/13 15:12	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/29/13 15:12	1
Toluene-d8 (Surr)	97		70 - 123		07/29/13 15:12	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20	0.060	mg/L		07/29/13 08:15	07/30/13 01:56	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/30/13 01:56	1
Arsenic	ND		0.010	0.0056	mg/L		07/29/13 08:15	07/30/13 01:56	1
Barium	0.033		0.0020	0.00070	mg/L		07/29/13 08:15	07/30/13 01:56	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/30/13 01:56	1
Boron	0.039		0.020	0.0040	mg/L		07/29/13 08:15	07/30/13 11:04	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-3**

**Lab Sample ID: 480-42663-3**

Date Collected: 07/25/13 09:20

Matrix: Surface Water

Date Received: 07/26/13 08:45

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/30/13 01:56	1
Calcium	46		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:56	1
Chromium	0.0021	J	0.0040	0.0010	mg/L		07/29/13 08:15	07/30/13 01:56	1
Copper	0.0036	J	0.010	0.0016	mg/L		07/29/13 08:15	07/30/13 01:56	1
Iron	1.7		0.050	0.019	mg/L		07/29/13 08:15	07/30/13 01:56	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/30/13 01:56	1
Magnesium	13		0.20	0.043	mg/L		07/29/13 08:15	07/30/13 01:56	1
Manganese	0.21	B	0.0030	0.00040	mg/L		07/29/13 08:15	07/30/13 01:56	1
Nickel	0.0022	J	0.010	0.0013	mg/L		07/29/13 08:15	07/30/13 01:56	1
Potassium	2.7		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:56	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/30/13 01:56	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/30/13 01:56	1
Sodium	28		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 01:56	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/30/13 01:56	1
Zinc	0.0081	J	0.010	0.0015	mg/L		07/29/13 08:15	07/30/13 01:56	1

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**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:40	07/29/13 12:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46		0.50	0.28	mg/L			07/27/13 15:03	1
Sulfate	18		2.0	0.35	mg/L			07/27/13 15:03	1
Alkalinity, Total	100		100	40	mg/L			07/26/13 17:46	10
Ammonia	0.076		0.020	0.0090	mg/L			07/26/13 16:48	1
Total Kjeldahl Nitrogen	0.58		0.20	0.15	mg/L		07/30/13 01:30	07/30/13 10:49	1
Nitrate as N	0.83		0.050	0.020	mg/L			07/26/13 14:15	1
Chemical Oxygen Demand	15		10	5.0	mg/L			07/29/13 11:36	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/26/13 10:44	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 21:28	08/01/13 11:26	1
Total Organic Carbon	5.9		1.0	0.43	mg/L			07/30/13 01:14	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/29/13 09:00	07/30/13 11:24	1
Hardness as calcium carbonate	160		4.0	1.1	mg/L			07/30/13 20:15	1
Total Dissolved Solids	230		10	4.0	mg/L			07/30/13 00:49	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 18:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	45		1.0	1.0	NTU			07/26/13 14:50	1
Color	70		10	10	Color Units			07/26/13 15:54	2

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-13**

**Lab Sample ID: 480-42663-4**

Date Collected: 07/25/13 09:30

Matrix: Surface Water

Date Received: 07/26/13 08:45

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/29/13 15:36	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/29/13 15:36	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/29/13 15:36	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/29/13 15:36	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/29/13 15:36	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/29/13 15:36	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/29/13 15:36	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/29/13 15:36	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/29/13 15:36	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/29/13 15:36	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/29/13 15:36	1
Benzene	ND		5.0	0.60	ug/L			07/29/13 15:36	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/29/13 15:36	1
Bromoform	ND		5.0	0.47	ug/L			07/29/13 15:36	1
Bromomethane	ND		5.0	1.2	ug/L			07/29/13 15:36	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/29/13 15:36	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/29/13 15:36	1
Chloroethane	ND		5.0	0.87	ug/L			07/29/13 15:36	1
Chloroform	ND		5.0	0.54	ug/L			07/29/13 15:36	1
Chloromethane	ND		5.0	0.64	ug/L			07/29/13 15:36	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/29/13 15:36	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/29/13 15:36	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/29/13 15:36	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/29/13 15:36	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/29/13 15:36	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/29/13 15:36	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/29/13 15:36	1
o-Xylene	ND		5.0	0.43	ug/L			07/29/13 15:36	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/29/13 15:36	1
Toluene	ND		5.0	0.45	ug/L			07/29/13 15:36	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/29/13 15:36	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/29/13 15:36	1
Trichloroethene	ND		5.0	0.60	ug/L			07/29/13 15:36	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/29/13 15:36	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/29/13 15:36	1
Xylenes, Total	ND		10	1.1	ug/L			07/29/13 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		72 - 130		07/29/13 15:36	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/29/13 15:36	1
Toluene-d8 (Surr)	99		70 - 123		07/29/13 15:36	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.060	mg/L		07/29/13 08:15	07/30/13 01:58	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/30/13 01:58	1
Arsenic	ND		0.010	0.0056	mg/L		07/29/13 08:15	07/30/13 01:58	1
Barium	0.028		0.0020	0.00070	mg/L		07/29/13 08:15	07/30/13 01:58	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/30/13 01:58	1
Boron	0.039		0.020	0.0040	mg/L		07/29/13 08:15	07/30/13 11:06	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-13**

**Lab Sample ID: 480-42663-4**

Date Collected: 07/25/13 09:30

Matrix: Surface Water

Date Received: 07/26/13 08:45

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/30/13 01:58	1
Calcium	41		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:58	1
Chromium	0.0020	J	0.0040	0.0010	mg/L		07/29/13 08:15	07/30/13 01:58	1
Copper	0.0042	J	0.010	0.0016	mg/L		07/29/13 08:15	07/30/13 01:58	1
Iron	1.2		0.050	0.019	mg/L		07/29/13 08:15	07/30/13 01:58	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/30/13 01:58	1
Magnesium	13		0.20	0.043	mg/L		07/29/13 08:15	07/30/13 01:58	1
Manganese	0.12	B	0.0030	0.00040	mg/L		07/29/13 08:15	07/30/13 01:58	1
Nickel	0.0017	J	0.010	0.0013	mg/L		07/29/13 08:15	07/30/13 01:58	1
Potassium	2.8		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:58	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/30/13 01:58	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/30/13 01:58	1
Sodium	30		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 01:58	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/30/13 01:58	1
Zinc	0.0075	J	0.010	0.0015	mg/L		07/29/13 08:15	07/30/13 01:58	1

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**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:40	07/29/13 13:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		0.50	0.28	mg/L			07/27/13 15:13	1
Sulfate	16		2.0	0.35	mg/L			07/27/13 15:13	1
Alkalinity, Total	130		20	8.0	mg/L			07/26/13 20:36	2
Ammonia	0.077		0.020	0.0090	mg/L			07/26/13 16:49	1
Total Kjeldahl Nitrogen	0.46		0.20	0.15	mg/L		07/30/13 01:30	07/30/13 10:56	1
Nitrate as N	0.99		0.050	0.020	mg/L			07/26/13 14:18	1
Chemical Oxygen Demand	18		10	5.0	mg/L			07/29/13 11:36	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/26/13 10:44	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 21:28	08/01/13 11:27	1
Total Organic Carbon	5.4		1.0	0.43	mg/L			07/30/13 04:11	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/29/13 09:00	07/30/13 11:33	1
Hardness as calcium carbonate	160		4.0	1.1	mg/L			07/30/13 20:15	1
Total Dissolved Solids	230		10	4.0	mg/L			07/30/13 00:50	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 18:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	63		1.0	1.0	NTU			07/26/13 14:50	1
Color	80		10	10	Color Units			07/26/13 15:56	2

TestAmerica Buffalo

# Surrogate Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Surface Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-42663-1	SW-5	119	106	99
480-42663-2	SW-8	124	106	98
480-42663-3	SW-3	119	104	97
480-42663-4	SW-13	122	104	99

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

## Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: 480-42663-4 DU  
 Matrix: Surface Water  
 Analysis Batch: 130939

Client Sample ID: SW-13  
 Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Turbidity	63		64.0		NTU		1	20

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 480-42663-4 MS  
 Matrix: Surface Water  
 Analysis Batch: 130894

Client Sample ID: SW-13  
 Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	50		25.0	72.3		mg/L		91	90 - 110
Sulfate	16		25.0	40.5		mg/L		98	90 - 110

## Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-130960/195  
 Matrix: Water  
 Analysis Batch: 130960

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	ND		0.020	0.0090	mg/L			07/26/13 16:45	1

Lab Sample ID: LCS 480-130960/196  
 Matrix: Water  
 Analysis Batch: 130960

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Ammonia	1.00	1.01		mg/L		101	90 - 110

## Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-131281/1-A  
 Matrix: Water  
 Analysis Batch: 131418

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 131281

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		07/30/13 01:30	07/30/13 10:43	1

Lab Sample ID: LCS 480-131281/2-A  
 Matrix: Water  
 Analysis Batch: 131418

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 131281

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Total Kjeldahl Nitrogen	2.50	2.34		mg/L		94	90 - 110

TestAmerica Buffalo



## QC Sample Results

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 480-42663-1 MS  
Matrix: Surface Water  
Analysis Batch: 131418

Client Sample ID: SW-5  
Prep Type: Total/NA  
Prep Batch: 131281

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Total Kjeldahl Nitrogen	0.50		1.00	1.48		mg/L		98	72 - 127

Lab Sample ID: 480-42663-1 DU  
Matrix: Surface Water  
Analysis Batch: 131418

Client Sample ID: SW-5  
Prep Type: Total/NA  
Prep Batch: 131281

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Kjeldahl Nitrogen	0.50		0.452		mg/L		10	20

### Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-130872/3  
Matrix: Water  
Analysis Batch: 130872

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/26/13 10:44	1

Lab Sample ID: LCS 480-130872/4  
Matrix: Water  
Analysis Batch: 130872

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chromium, hexavalent	0.0500	0.0551		mg/L		110	85 - 115

Lab Sample ID: 480-42663-2 MS  
Matrix: Surface Water  
Analysis Batch: 130872

Client Sample ID: SW-8  
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Chromium, hexavalent	ND	H	0.0500	0.0486		mg/L		97	85 - 115

Lab Sample ID: 480-42663-4 DU  
Matrix: Surface Water  
Analysis Batch: 130872

Client Sample ID: SW-13  
Prep Type: Total/NA

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chromium, hexavalent	ND	H	ND		mg/L		NC	15

### Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: 480-42663-1 MS  
Matrix: Surface Water  
Analysis Batch: 131861

Client Sample ID: SW-5  
Prep Type: Total/NA  
Prep Batch: 131727

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Cyanide, Total	ND		0.100	0.106		mg/L		106	90 - 110

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: MB 480-131747/1-A  
 Matrix: Water  
 Analysis Batch: 131861

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 131747

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 21:28	08/01/13 11:22	1

Lab Sample ID: LCS 480-131747/2-A  
 Matrix: Water  
 Analysis Batch: 131861

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 131747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

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### Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-131580/27  
 Matrix: Water  
 Analysis Batch: 131580

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Organic Carbon	ND		1.0	0.43	mg/L			07/30/13 03:12	1

Lab Sample ID: LCS 480-131580/28  
 Matrix: Water  
 Analysis Batch: 131580

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 480-42663-3 MS  
 Matrix: Surface Water  
 Analysis Batch: 131580

Client Sample ID: SW-3  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 480-42663-2 DU  
 Matrix: Surface Water  
 Analysis Batch: 131580

Client Sample ID: SW-8  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit

### Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-130957/27  
 Matrix: Water  
 Analysis Batch: 130957

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Color	ND		5.0	5.0	Color Units			07/26/13 16:09	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### Method: SM 2120B - Color, Colorimetric (Continued)

Lab Sample ID: LCS 480-130957/28  
 Matrix: Water  
 Analysis Batch: 130957

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	30.0	30.0		Color Units		100	90 - 110

### Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-131274/1  
 Matrix: Water  
 Analysis Batch: 131274

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.0	mg/L			07/30/13 00:44	1

Lab Sample ID: LCS 480-131274/2  
 Matrix: Water  
 Analysis Batch: 131274

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	466		mg/L		93	85 - 115

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### GC/MS VOA

#### Analysis Batch: 131135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	624	
480-42663-2	SW-8	Total/NA	Surface Water	624	
480-42663-3	SW-3	Total/NA	Surface Water	624	
480-42663-4	SW-13	Total/NA	Surface Water	624	

### Metals

#### Prep Batch: 131069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	3005A	
480-42663-2	SW-8	Total/NA	Surface Water	3005A	
480-42663-3	SW-3	Total/NA	Surface Water	3005A	
480-42663-4	SW-13	Total/NA	Surface Water	3005A	

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#### Prep Batch: 131111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	7470A	
480-42663-2	SW-8	Total/NA	Surface Water	7470A	
480-42663-3	SW-3	Total/NA	Surface Water	7470A	
480-42663-4	SW-13	Total/NA	Surface Water	7470A	

#### Analysis Batch: 131224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	7470A	131111
480-42663-2	SW-8	Total/NA	Surface Water	7470A	131111
480-42663-3	SW-3	Total/NA	Surface Water	7470A	131111
480-42663-4	SW-13	Total/NA	Surface Water	7470A	131111

#### Analysis Batch: 131310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	6010B	131069
480-42663-2	SW-8	Total/NA	Surface Water	6010B	131069
480-42663-3	SW-3	Total/NA	Surface Water	6010B	131069
480-42663-4	SW-13	Total/NA	Surface Water	6010B	131069

#### Analysis Batch: 131452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	6010B	131069
480-42663-2	SW-8	Total/NA	Surface Water	6010B	131069
480-42663-3	SW-3	Total/NA	Surface Water	6010B	131069
480-42663-4	SW-13	Total/NA	Surface Water	6010B	131069

### General Chemistry

#### Analysis Batch: 130872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	7196A	
480-42663-2	SW-8	Total/NA	Surface Water	7196A	
480-42663-2 MS	SW-8	Total/NA	Surface Water	7196A	
480-42663-3	SW-3	Total/NA	Surface Water	7196A	

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### General Chemistry (Continued)

#### Analysis Batch: 130872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-4	SW-13	Total/NA	Surface Water	7196A	
480-42663-4 DU	SW-13	Total/NA	Surface Water	7196A	
LCS 480-130872/4	Lab Control Sample	Total/NA	Water	7196A	
MB 480-130872/3	Method Blank	Total/NA	Water	7196A	

#### Analysis Batch: 130894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	300.0	
480-42663-2	SW-8	Total/NA	Surface Water	300.0	
480-42663-3	SW-3	Total/NA	Surface Water	300.0	
480-42663-4	SW-13	Total/NA	Surface Water	300.0	
480-42663-4 MS	SW-13	Total/NA	Surface Water	300.0	

#### Analysis Batch: 130932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	353.2	
480-42663-2	SW-8	Total/NA	Surface Water	353.2	
480-42663-3	SW-3	Total/NA	Surface Water	353.2	
480-42663-4	SW-13	Total/NA	Surface Water	353.2	

#### Analysis Batch: 130939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	180.1	
480-42663-2	SW-8	Total/NA	Surface Water	180.1	
480-42663-3	SW-3	Total/NA	Surface Water	180.1	
480-42663-4	SW-13	Total/NA	Surface Water	180.1	
480-42663-4 DU	SW-13	Total/NA	Surface Water	180.1	

#### Analysis Batch: 130957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	SM 2120B	
480-42663-2	SW-8	Total/NA	Surface Water	SM 2120B	
480-42663-3	SW-3	Total/NA	Surface Water	SM 2120B	
480-42663-4	SW-13	Total/NA	Surface Water	SM 2120B	
LCS 480-130957/28	Lab Control Sample	Total/NA	Water	SM 2120B	
MB 480-130957/27	Method Blank	Total/NA	Water	SM 2120B	

#### Analysis Batch: 130960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	350.1	
480-42663-2	SW-8	Total/NA	Surface Water	350.1	
480-42663-3	SW-3	Total/NA	Surface Water	350.1	
480-42663-4	SW-13	Total/NA	Surface Water	350.1	
LCS 480-130960/196	Lab Control Sample	Total/NA	Water	350.1	
MB 480-130960/195	Method Blank	Total/NA	Water	350.1	

#### Analysis Batch: 130980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	310.2	
480-42663-2	SW-8	Total/NA	Surface Water	310.2	
480-42663-3	SW-3	Total/NA	Surface Water	310.2	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### General Chemistry (Continued)

#### Analysis Batch: 130980 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-4	SW-13	Total/NA	Surface Water	310.2	

#### Analysis Batch: 130993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	SM 5210B	
480-42663-2	SW-8	Total/NA	Surface Water	SM 5210B	
480-42663-3	SW-3	Total/NA	Surface Water	SM 5210B	
480-42663-4	SW-13	Total/NA	Surface Water	SM 5210B	

#### Prep Batch: 131174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	Distill/Phenol	
480-42663-2	SW-8	Total/NA	Surface Water	Distill/Phenol	
480-42663-3	SW-3	Total/NA	Surface Water	Distill/Phenol	
480-42663-4	SW-13	Total/NA	Surface Water	Distill/Phenol	

#### Analysis Batch: 131184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	410.4	
480-42663-2	SW-8	Total/NA	Surface Water	410.4	
480-42663-3	SW-3	Total/NA	Surface Water	410.4	
480-42663-4	SW-13	Total/NA	Surface Water	410.4	

#### Analysis Batch: 131274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	SM 2540C	
480-42663-2	SW-8	Total/NA	Surface Water	SM 2540C	
480-42663-3	SW-3	Total/NA	Surface Water	SM 2540C	
480-42663-4	SW-13	Total/NA	Surface Water	SM 2540C	
LCS 480-131274/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-131274/1	Method Blank	Total/NA	Water	SM 2540C	

#### Prep Batch: 131281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	351.2	
480-42663-1 DU	SW-5	Total/NA	Surface Water	351.2	
480-42663-1 MS	SW-5	Total/NA	Surface Water	351.2	
480-42663-2	SW-8	Total/NA	Surface Water	351.2	
480-42663-3	SW-3	Total/NA	Surface Water	351.2	
480-42663-4	SW-13	Total/NA	Surface Water	351.2	
LCS 480-131281/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-131281/1-A	Method Blank	Total/NA	Water	351.2	

#### Analysis Batch: 131412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	9066	131174
480-42663-2	SW-8	Total/NA	Surface Water	9066	131174
480-42663-3	SW-3	Total/NA	Surface Water	9066	131174
480-42663-4	SW-13	Total/NA	Surface Water	9066	131174

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### General Chemistry (Continued)

#### Analysis Batch: 131418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	351.2	131281
480-42663-1 DU	SW-5	Total/NA	Surface Water	351.2	131281
480-42663-1 MS	SW-5	Total/NA	Surface Water	351.2	131281
480-42663-2	SW-8	Total/NA	Surface Water	351.2	131281
480-42663-3	SW-3	Total/NA	Surface Water	351.2	131281
480-42663-4	SW-13	Total/NA	Surface Water	351.2	131281
LCS 480-131281/2-A	Lab Control Sample	Total/NA	Water	351.2	131281
MB 480-131281/1-A	Method Blank	Total/NA	Water	351.2	131281

#### Analysis Batch: 131523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	SM 2340C	
480-42663-2	SW-8	Total/NA	Surface Water	SM 2340C	
480-42663-3	SW-3	Total/NA	Surface Water	SM 2340C	
480-42663-4	SW-13	Total/NA	Surface Water	SM 2340C	

#### Analysis Batch: 131580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	9060	
480-42663-2	SW-8	Total/NA	Surface Water	9060	
480-42663-2 DU	SW-8	Total/NA	Surface Water	9060	
480-42663-3	SW-3	Total/NA	Surface Water	9060	
480-42663-3 MS	SW-3	Total/NA	Surface Water	9060	
480-42663-4	SW-13	Total/NA	Surface Water	9060	
LCS 480-131580/28	Lab Control Sample	Total/NA	Water	9060	
MB 480-131580/27	Method Blank	Total/NA	Water	9060	

#### Prep Batch: 131727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	9012A	
480-42663-1 MS	SW-5	Total/NA	Surface Water	9012A	
480-42663-2	SW-8	Total/NA	Surface Water	9012A	

#### Prep Batch: 131747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-3	SW-3	Total/NA	Surface Water	9012A	
480-42663-4	SW-13	Total/NA	Surface Water	9012A	
LCS 480-131747/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-131747/1-A	Method Blank	Total/NA	Water	9012A	

#### Analysis Batch: 131861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42663-1	SW-5	Total/NA	Surface Water	9012A	131727
480-42663-1 MS	SW-5	Total/NA	Surface Water	9012A	131727
480-42663-2	SW-8	Total/NA	Surface Water	9012A	131727
480-42663-3	SW-3	Total/NA	Surface Water	9012A	131747
480-42663-4	SW-13	Total/NA	Surface Water	9012A	131747
LCS 480-131747/2-A	Lab Control Sample	Total/NA	Water	9012A	131747
MB 480-131747/1-A	Method Blank	Total/NA	Water	9012A	131747

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-5**

Date Collected: 07/25/13 08:10

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42663-1**

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	131135	07/29/13 14:26	TRB	TAL BUF
Total/NA	Prep	7470A			131111	07/29/13 08:40	JRK	TAL BUF
Total/NA	Analysis	7470A		1	131224	07/29/13 12:56	JRK	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131310	07/30/13 01:51	AMH	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131452	07/30/13 10:59	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130872	07/26/13 10:44	EGN	TAL BUF
Total/NA	Analysis	300.0		1	130894	07/27/13 14:43	KAC	TAL BUF
Total/NA	Analysis	353.2		1	130932	07/26/13 14:13	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130939	07/26/13 14:50	EGN	TAL BUF
Total/NA	Analysis	SM 2120B		1	130957	07/26/13 15:51	KS	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 16:42	KMF	TAL BUF
Total/NA	Analysis	310.2		10	130980	07/26/13 17:46	RMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130993	07/26/13 18:53	KS	TAL BUF
Total/NA	Analysis	410.4		1	131184	07/29/13 11:36	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	131274	07/30/13 00:47	KS	TAL BUF
Total/NA	Prep	Distill/Phenol			131174	07/29/13 09:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	131412	07/30/13 11:24	RMB	TAL BUF
Total/NA	Prep	351.2			131281	07/30/13 01:30	LMK	TAL BUF
Total/NA	Analysis	351.2		1	131418	07/30/13 10:49	EGN	TAL BUF
Total/NA	Analysis	SM 2340C		1	131523	07/30/13 20:15	JME	TAL BUF
Total/NA	Analysis	9060		1	131580	07/29/13 23:43	KRC	TAL BUF
Total/NA	Prep	9012A			131727	07/31/13 17:17	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131861	08/01/13 11:18	KMF	TAL BUF

**Client Sample ID: SW-8**

Date Collected: 07/25/13 07:00

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42663-2**

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	131135	07/29/13 14:49	TRB	TAL BUF
Total/NA	Prep	7470A			131111	07/29/13 08:40	JRK	TAL BUF
Total/NA	Analysis	7470A		1	131224	07/29/13 12:57	JRK	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131310	07/30/13 01:53	AMH	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131452	07/30/13 11:02	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130872	07/26/13 10:44	EGN	TAL BUF
Total/NA	Analysis	300.0		1	130894	07/27/13 14:53	KAC	TAL BUF
Total/NA	Analysis	353.2		1	130932	07/26/13 14:14	CLT	TAL BUF

TestAmerica Buffalo



## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

**Client Sample ID: SW-8**

Date Collected: 07/25/13 07:00

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42663-2**

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	180.1		1	130939	07/26/13 14:50	EGN	TAL BUF
Total/NA	Analysis	SM 2120B		2	130957	07/26/13 15:52	KS	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 16:47	KMF	TAL BUF
Total/NA	Analysis	310.2		10	130980	07/26/13 17:46	RMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130993	07/26/13 18:53	KS	TAL BUF
Total/NA	Analysis	410.4		1	131184	07/29/13 11:36	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	131274	07/30/13 00:48	KS	TAL BUF
Total/NA	Prep	Distill/Phenol			131174	07/29/13 09:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	131412	07/30/13 11:24	RMB	TAL BUF
Total/NA	Prep	351.2			131281	07/30/13 01:30	LMK	TAL BUF
Total/NA	Analysis	351.2		1	131418	07/30/13 10:49	EGN	TAL BUF
Total/NA	Analysis	SM 2340C		1	131523	07/30/13 20:15	JME	TAL BUF
Total/NA	Analysis	9060		1	131580	07/30/13 00:14	KRC	TAL BUF
Total/NA	Prep	9012A			131727	07/31/13 17:17	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131861	08/01/13 11:19	KMF	TAL BUF

**Client Sample ID: SW-3**

Date Collected: 07/25/13 09:20

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42663-3**

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	131135	07/29/13 15:12	TRB	TAL BUF
Total/NA	Prep	7470A			131111	07/29/13 08:40	JRK	TAL BUF
Total/NA	Analysis	7470A		1	131224	07/29/13 12:59	JRK	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131310	07/30/13 01:56	AMH	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131452	07/30/13 11:04	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130872	07/26/13 10:44	EGN	TAL BUF
Total/NA	Analysis	300.0		1	130894	07/27/13 15:03	KAC	TAL BUF
Total/NA	Analysis	353.2		1	130932	07/26/13 14:15	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130939	07/26/13 14:50	EGN	TAL BUF
Total/NA	Analysis	SM 2120B		2	130957	07/26/13 15:54	KS	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 16:48	KMF	TAL BUF
Total/NA	Analysis	310.2		10	130980	07/26/13 17:46	RMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130993	07/26/13 18:53	KS	TAL BUF
Total/NA	Analysis	410.4		1	131184	07/29/13 11:36	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	131274	07/30/13 00:49	KS	TAL BUF
Total/NA	Prep	Distill/Phenol			131174	07/29/13 09:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	131412	07/30/13 11:24	RMB	TAL BUF
Total/NA	Prep	351.2			131281	07/30/13 01:30	LMK	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### Client Sample ID: SW-3

Date Collected: 07/25/13 09:20

Date Received: 07/26/13 08:45

### Lab Sample ID: 480-42663-3

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		1	131418	07/30/13 10:49	EGN	TAL BUF
Total/NA	Analysis	SM 2340C		1	131523	07/30/13 20:15	JME	TAL BUF
Total/NA	Analysis	9060		1	131580	07/30/13 01:14	KRC	TAL BUF
Total/NA	Prep	9012A			131747	07/31/13 21:28	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131861	08/01/13 11:26	KMF	TAL BUF

### Client Sample ID: SW-13

Date Collected: 07/25/13 09:30

Date Received: 07/26/13 08:45

### Lab Sample ID: 480-42663-4

Matrix: Surface Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	131135	07/29/13 15:36	TRB	TAL BUF
Total/NA	Prep	7470A			131111	07/29/13 08:40	JRK	TAL BUF
Total/NA	Analysis	7470A		1	131224	07/29/13 13:01	JRK	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131310	07/30/13 01:58	AMH	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131452	07/30/13 11:06	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130872	07/26/13 10:44	EGN	TAL BUF
Total/NA	Analysis	300.0		1	130894	07/27/13 15:13	KAC	TAL BUF
Total/NA	Analysis	353.2		1	130932	07/26/13 14:18	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130939	07/26/13 14:50	EGN	TAL BUF
Total/NA	Analysis	SM 2120B		2	130957	07/26/13 15:56	KS	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 16:49	KMF	TAL BUF
Total/NA	Analysis	310.2		2	130980	07/26/13 20:36	RMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130993	07/26/13 18:53	KS	TAL BUF
Total/NA	Analysis	410.4		1	131184	07/29/13 11:36	CLT	TAL BUF
Total/NA	Analysis	SM 2540C		1	131274	07/30/13 00:50	KS	TAL BUF
Total/NA	Prep	Distill/Phenol			131174	07/29/13 09:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	131412	07/30/13 11:33	RMB	TAL BUF
Total/NA	Prep	351.2			131281	07/30/13 01:30	LMK	TAL BUF
Total/NA	Analysis	351.2		1	131418	07/30/13 10:56	EGN	TAL BUF
Total/NA	Analysis	SM 2340C		1	131523	07/30/13 20:15	JME	TAL BUF
Total/NA	Analysis	9060		1	131580	07/30/13 04:11	KRC	TAL BUF
Total/NA	Prep	9012A			131747	07/31/13 21:28	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131861	08/01/13 11:27	KMF	TAL BUF

#### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

## Certification Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

### Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	04-01-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Surface Water	1,1,1-Trichloroethane
624		Surface Water	1,1,2,2-Tetrachloroethane
624		Surface Water	1,1,2-Trichloroethane
624		Surface Water	1,1-Dichloroethane
624		Surface Water	1,1-Dichloroethene
624		Surface Water	1,2-Dichlorobenzene
624		Surface Water	1,2-Dichloroethane
624		Surface Water	1,2-Dichloropropane
624		Surface Water	1,3-Dichlorobenzene
624		Surface Water	1,4-Dichlorobenzene
624		Surface Water	2-Chloroethyl vinyl ether
624		Surface Water	Benzene
624		Surface Water	Bromodichloromethane
624		Surface Water	Bromoform
624		Surface Water	Bromomethane
624		Surface Water	Carbon tetrachloride
624		Surface Water	Chlorobenzene
624		Surface Water	Chloroethane
624		Surface Water	Chloroform
624		Surface Water	Chloromethane
624		Surface Water	cis-1,2-Dichloroethene
624		Surface Water	cis-1,3-Dichloropropene
624		Surface Water	Dibromochloromethane
624		Surface Water	Dichlorodifluoromethane
624		Surface Water	Ethylbenzene
624		Surface Water	Methylene Chloride
624		Surface Water	m-Xylene & p-Xylene
624		Surface Water	o-Xylene
624		Surface Water	Tetrachloroethene
624		Surface Water	Toluene
624		Surface Water	trans-1,2-Dichloroethene
624		Surface Water	trans-1,3-Dichloropropene
624		Surface Water	Trichloroethene
624		Surface Water	Trichlorofluoromethane
624		Surface Water	Vinyl chloride
624		Surface Water	Xylenes, Total
9012A	9012A	Surface Water	Cyanide, Total
9012A	9012A	Water	Cyanide, Total

## Method Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
180.1	Turbidity, Nephelometric	MCAWW	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9012A	Cyanide, Total and/or Amenable	SW846	TAL BUF
9060	Organic Carbon, Total (TOC)	SW846	TAL BUF
9066	Phenolics, Total Recoverable	SW846	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2340C	Hardness, Total	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF



### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42663-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42663-1	SW-5	Surface Water	07/25/13 08:10	07/26/13 08:45
480-42663-2	SW-8	Surface Water	07/25/13 07:00	07/26/13 08:45
480-42663-3	SW-3	Surface Water	07/25/13 09:20	07/26/13 08:45
480-42663-4	SW-13	Surface Water	07/25/13 09:30	07/26/13 08:45





## Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-42663-1

Login Number: 42663

List Number: 1

Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Sterling
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	Ok

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

TestAmerica Job ID: 480-42430-1  
Client Project/Site: Orange County Landfill  
Sampling Event: Groundwater Baseline  
Revision: 1

For:  
Sterling Environmental Engineering PC  
24 Wade Road  
Latham, New York 12110

Attn: Charlotte Verhoef



Authorized for release by:  
8/7/2013 5:52:54 PM

John Stadler, Project Administrator  
john.stadler@testamericainc.com

Designee for

Lisa Shaffer, Project Manager I  
lisa.shaffer@testamericainc.com

### LINKS

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the blank.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

#### General Chemistry

Qualifier	Qualifier Description
b	Result Detected in the Unseeded Control blank (USB).
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
F	MS or MSD exceeds the control limits
E	Result exceeded calibration range.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Buffalo

## Case Narrative

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Job ID: 480-42430-1

Laboratory: TestAmerica Buffalo

### Narrative

Job Narrative  
480-42430-1

### Comments

This report was revised to report only the GW samples.

No additional comments.

### Receipt

The samples were received on 7/23/2013 9:00 AM, 7/24/2013 9:00 AM, 7/25/2013 9:00 AM and 7/26/2013 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 2.0° C, 2.5° C, 2.7° C, 2.7° C, 2.8° C, 3.1° C, 3.1° C, 3.2° C, 3.7° C, 3.9° C and 4.1° C.

### GC/MS VOA

No analytical or quality issues were noted.

### HPLC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-304VS (480-42430-2). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-303D (480-42488-4). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: Due to the high concentration of Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for batch 130651 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-220 (480-42572-8), MW-245D (480-42572-9), MW-245S (480-42572-5). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples in batch 131185 were diluted to bring the concentration of target analytes within the calibration range: PZ-1A (480-42659-2), PZ-4 (480-42659-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

### Metals

Method(s) 6010B: The Method Blank for batch 480-130254 contained dissolved boron, manganese, and sodium above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples MW-303S (480-42430-4), MW-304D (480-42430-3), MW-304S (480-42430-1), MW-304VS (480-42430-2) was not performed.

Method(s) 6010B: The recovery of Post Spike, (480-42430-3 PDS), in batch 480-130254 exhibited a result outside the quality control limits for total calcium. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

Method(s) 6010B: The Method Blank for batch 480-130253 contained total boron, barium, beryllium, calcium, potassium, manganese, sodium, antimony, and zinc above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples MW-303S (480-42430-4), MW-304D (480-42430-3), MW-304S (480-42430-1), MW-304VS (480-42430-2) was not performed.

Method(s) 6010B: The Method Blank for batch 480-130733 contained total boron, potassium, manganese, and sodium above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples MW-220 (480-42572-8), MW-221D (480-42572-4), MW-221S (480-42572-2), MW-222 (480-42572-7), MW-223D (480-42572-3), MW-245D (480-42572-9), MW-245S (480-42572-5), MW-3B (480-42572-1) was not performed.

Method(s) 6010B: The Method Blank for batch 480-130695 contained dissolved manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples MW-220 (480-42572-8), MW-221D (480-42572-4), MW-221S (480-42572-2), MW-222 (480-42572-7), MW-223D (480-42572-3), MW-245D (480-42572-9),

## Case Narrative

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Job ID: 480-42430-1 (Continued)

#### Laboratory: TestAmerica Buffalo (Continued)

MW-245S (480-42572-5), MW-3B (480-42572-1) was not performed.

Method(s) 6010B: The recovery of Post Spike, (480-42488-3 PDS), in batch 480-130498 exhibited results below the quality control limits for dissolved manganese. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

Method(s) 6010B: The Method Blank for batch 480-131070 contained dissolved calcium and manganese above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples PZ-11 (480-42659-1), PZ-1A (480-42659-2), PZ-4 (480-42659-4) was not performed.

Method(s) 6010B: The Method Blank for batch 480-130499 contained total calcium, chromium, potassium, manganese, and nickel above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples MS-207SA (480-42488-1), MW-207D (480-42488-3), MW-223S (480-42488-7), MW-230S (480-42488-5), MW-232S (480-42488-8), MW-233S (480-42488-9), MW-234D (480-42488-2), MW-303D (480-42488-4), MW-312S (480-42488-6) was not performed.

Method(s) 6010B: The Method Blank for batch 480-131069 contained total manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples PZ-11 (480-42659-1), PZ-1A (480-42659-2), PZ-4 (480-42659-4) was not performed.

Method(s) 6010B: The Method Blank for batch 480-131608 contained total boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples MS-207SA (480-42488-1), MW-207D (480-42488-3), MW-223S (480-42488-7), MW-230S (480-42488-5), MW-232S (480-42488-8), MW-233S (480-42488-9), MW-234D (480-42488-2), MW-303D (480-42488-4), MW-312S (480-42488-6) was not performed.

No other analytical or quality issues were noted.

#### General Chemistry

Method(s) SM 2120B: The following sample(s) was diluted due to color: MW-304VS (480-42430-2). Elevated reporting limits (RL) are provided.

Method(s) SM 2120B: Sample was filtered prior to analysis, therefore the analytical result must be reported as "True Color" MW-303S (480-42430-4), MW-304D (480-42430-3), MW-304S (480-42430-1), MW-304VS (480-42430-2)

Method(s) SM 2120B: The sample was filtered prior to analysis, therefore the analytical result must be reported as "True Color" (480-42572-2 DU), MW-220 (480-42572-8), MW-221D (480-42572-4), MW-221S (480-42572-2), MW-222 (480-42572-7), MW-223D (480-42572-3), MW-245D (480-42572-9), MW-245S (480-42572-5), MW-3B (480-42572-1)

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: MW-304VS (480-42430-2). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130661 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (480-42572-1 MS)

Method(s) SM 5210B: The USB dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L. The associated sample results are reported. (USB 480-130274/1)

Method(s) SM 5210B: For batch # 130383, the USB dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L. The associated sample results are reported.

Method(s) SM 5210B: For batch # 130466, the USB dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L. The associated sample results are reported. (USB 480-130466/1)

Method(s) SM 5210B: The USB dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L. The associated sample results are reported. (USB 480-130993/1)

## Case Narrative

TestAmerica Job ID: 480-42430-1

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

### Job ID: 480-42430-1 (Continued)

#### Laboratory: TestAmerica Buffalo (Continued)

Method(s) 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130465 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (480-42488-3 MS)

Method(s) 7196A: The following sample(s) was received with greater than 50% of holding time expired: MW-230S (480-42488-5). As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

Method(s) 7196A: The following sample(s) was received outside of holding time: MS-207SA (480-42488-1), MW-207D (480-42488-3), MW-303D (480-42488-4).

Method(s) 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130645 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (480-42572-9 MS)

Method(s) 7196A: The following sample(s) was received outside of holding time: MW-223D (480-42572-3).

Method(s) 7196A: The following sample(s) was received with greater than 50% of holding time expired: MW-221S (480-42572-2). As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

Method(s) 7196A: The following sample(s) was diluted due to the nature of the sample matrix: MW-304S (480-42430-1). Elevated reporting limits (RLs) are provided.

Method(s) 7196A: The following sample(s) was received outside of holding time: PZ-4 (480-42659-4).

Method(s) 7196A: The following sample(s) was received with greater than 50% of holding time expired: PZ-11 (480-42659-1), PZ-1A (480-42659-2). As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

Method(s) 7196A: The following sample(s) was diluted due to the nature of the sample matrix: MW-312S (480-42488-6). Elevated reporting limits (RLs) are provided.

Method(s) 335.4, 9012A, 9012B, Distill/CN: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 130378 recovered outside control limits for the following analytes: Cyanide. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. MW-304VS (480-42430-2)

Method(s) 335.4, 9012A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 130937 recovered outside control limits for the following analytes: Cyanide. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (480-42572-3 DU), MW-221D (480-42572-4), MW-221S (480-42572-2), MW-223D (480-42572-3), MW-245S (480-42572-5), MW-3B (480-42572-1)

Method(s) 335.4, 9012A: The matrix spike (MS) recovery for batch 131267 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (480-42488-7 MS)

Method(s) 9066: The continuing calibration blank (CCB) for batch 131181 contained Total Recoverable Phenolics above the reporting limit (RL). None of the samples associated with this CCB contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed. MW-245D (480-42572-9)

No other analytical or quality issues were noted.

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## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-304S

Lab Sample ID: 480-42430-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9.2		0.20	0.060	mg/L	1		6010B	Total/NA
Arsenic	0.0083	J	0.010	0.0056	mg/L	1		6010B	Total/NA
Barium	0.33	B	0.0020	0.00070	mg/L	1		6010B	Total/NA
Beryllium	0.00039	J B	0.0020	0.00030	mg/L	1		6010B	Total/NA
Boron	0.037	B	0.020	0.0040	mg/L	1		6010B	Total/NA
Cadmium	0.00078	J	0.0010	0.00050	mg/L	1		6010B	Total/NA
Calcium	110	B	0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.030		0.0040	0.0010	mg/L	1		6010B	Total/NA
Copper	0.030		0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	26		0.050	0.019	mg/L	1		6010B	Total/NA
Lead	0.0097		0.0050	0.0030	mg/L	1		6010B	Total/NA
Magnesium	22		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	2.5	B	0.0030	0.00040	mg/L	1		6010B	Total/NA
Nickel	0.023		0.010	0.0013	mg/L	1		6010B	Total/NA
Potassium	5.3	B	0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	22	B	1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.070	B	0.010	0.0015	mg/L	1		6010B	Total/NA
Aluminum	0.11	J	0.20	0.060	mg/L	1		6010B	Dissolved
Barium	0.26		0.0020	0.00070	mg/L	1		6010B	Dissolved
Boron	0.029	B	0.020	0.0040	mg/L	1		6010B	Dissolved
Calcium	110	B7	0.50	0.10	mg/L	1		6010B	Dissolved
Chromium	0.0014	J	0.0040	0.0010	mg/L	1		6010B	Dissolved
Iron	10		0.050	0.019	mg/L	1		6010B	Dissolved
Magnesium	19		0.20	0.043	mg/L	1		6010B	Dissolved
Manganese	2.0	B	0.0030	0.00040	mg/L	1		6010B	Dissolved
Nickel	0.0015	J	0.010	0.0013	mg/L	1		6010B	Dissolved
Potassium	2.5		0.50	0.10	mg/L	1		6010B	Dissolved
Sodium	22	B	1.0	0.32	mg/L	1		6010B	Dissolved
Zinc	0.014		0.010	0.0015	mg/L	1		6010B	Dissolved
Chloride	28		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	3.3		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	340		100	40	mg/L	10		310.2	Total/NA
Ammonia	0.43		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.87		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.068		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	12		10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	3.9		1.0	0.43	mg/L	1		9060	Total/NA
Hardness	370		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	410		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	610		1.0	1.0	NTU	1		180.1	Total/NA
Color	15		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: MW-304VS

Lab Sample ID: 480-42430-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	38		0.20	0.060	mg/L	1		6010B	Total/NA
Arsenic	0.014		0.010	0.0056	mg/L	1		6010B	Total/NA
Barium	0.40	B	0.0020	0.00070	mg/L	1		6010B	Total/NA
Beryllium	0.0020	B	0.0020	0.00030	mg/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-304VS (Continued)

Lab Sample ID: 480-42430-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.045	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Cadmium	0.0046		0.0010	0.00050	mg/L	1			6010B	Total/NA
Calcium	110	B	0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.048		0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.11		0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	55		0.050	0.019	mg/L	1			6010B	Total/NA
Lead	0.046		0.0050	0.0030	mg/L	1			6010B	Total/NA
Magnesium	30		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	6.4	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.067		0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	11	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	240	B	1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.21	B	0.010	0.0015	mg/L	1			6010B	Total/NA
Barium	0.11		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.024	B	0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	85	B7	0.50	0.10	mg/L	1			6010B	Dissolved
Chromium	0.0014	J	0.0040	0.0010	mg/L	1			6010B	Dissolved
Iron	2.3		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	14		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	4.0	B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Nickel	0.0041	J	0.010	0.0013	mg/L	1			6010B	Dissolved
Potassium	2.3		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	250	B	1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0093	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	280		2.5	1.4	mg/L	5			300.0	Total/NA
Sulfate	9.8		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	360		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.098		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	3.5		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.060		0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	14		10	5.0	mg/L	1			410.4	Total/NA
Cyanide, Total	0.0086	J *	0.010	0.0050	mg/L	1			9012A	Total/NA
Total Organic Carbon	4.8		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	370		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	910		20	8.0	mg/L	1			SM 2540C	Total/NA
Biochemical Oxygen Demand	2.6	b	2.0	2.0	mg/L	1			SM 5210B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	180		1.0	1.0	NTU	1			180.1	Total/NA
Color	60		10	10	Color Units	2			SM 2120B	Total/NA

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Client Sample ID: MW-304D

Lab Sample ID: 480-42430-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.46		0.20	0.060	mg/L	1			6010B	Total/NA
Arsenic	0.0080	J	0.010	0.0056	mg/L	1			6010B	Total/NA
Barium	0.28	B	0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.058	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	120	B	0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0015	J	0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0030	J	0.010	0.0016	mg/L	1			6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304D (Continued)**

**Lab Sample ID: 480-42430-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	7.9		0.050	0.019	mg/L			1	6010B	Total/NA
Magnesium	26		0.20	0.043	mg/L			1	6010B	Total/NA
Manganese	0.87	B	0.0030	0.00040	mg/L			1	6010B	Total/NA
Nickel	0.0029	J	0.010	0.0013	mg/L			1	6010B	Total/NA
Potassium	4.1	B	0.50	0.10	mg/L			1	6010B	Total/NA
Sodium	23	B	1.0	0.32	mg/L			1	6010B	Total/NA
Zinc	0.047	B	0.010	0.0015	mg/L			1	6010B	Total/NA
Aluminum	0.10	J	0.20	0.060	mg/L			1	6010B	Dissolved
Arsenic	0.012		0.010	0.0056	mg/L			1	6010B	Dissolved
Barium	0.11		0.0020	0.00070	mg/L			1	6010B	Dissolved
Boron	0.054	B	0.020	0.0040	mg/L			1	6010B	Dissolved
Calcium	87	B7	0.50	0.10	mg/L			1	6010B	Dissolved
Iron	2.5		0.050	0.019	mg/L			1	6010B	Dissolved
Magnesium	21		0.20	0.043	mg/L			1	6010B	Dissolved
Manganese	0.33	B	0.0030	0.00040	mg/L			1	6010B	Dissolved
Nickel	0.0014	J	0.010	0.0013	mg/L			1	6010B	Dissolved
Potassium	4.2		0.50	0.10	mg/L			1	6010B	Dissolved
Sodium	33	B	1.0	0.32	mg/L			1	6010B	Dissolved
Zinc	0.018		0.010	0.0015	mg/L			1	6010B	Dissolved
Chloride	32		0.50	0.28	mg/L			1	300.0	Total/NA
Sulfate	19		2.0	0.35	mg/L			1	300.0	Total/NA
Alkalinity, Total	300		50	20	mg/L			5	310.2	Total/NA
Ammonia	1.4		0.020	0.0090	mg/L			1	350.1	Total/NA
Total Kjeldahl Nitrogen	2.6		0.20	0.15	mg/L			1	351.2	Total/NA
Nitrate as N	0.24		0.050	0.020	mg/L			1	353.2	Total/NA
Chemical Oxygen Demand	17		10	5.0	mg/L			1	410.4	Total/NA
Chromium, hexavalent	0.054		0.010	0.0050	mg/L			1	7196A	Total/NA
Total Organic Carbon	6.6		1.0	0.43	mg/L			1	9060	Total/NA
Hardness	390		4.0	1.1	mg/L			1	SM 2340C	Total/NA
Total Dissolved Solids	500		10	4.0	mg/L			1	SM 2540C	Total/NA
Biochemical Oxygen Demand	2.6	b	2.0	2.0	mg/L			1	SM 5210B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	87		1.0	1.0	NTU			1	180.1	Total/NA
Color	20		5.0	5.0	Color Units			1	SM 2120B	Total/NA

**Client Sample ID: MW-303S**

**Lab Sample ID: 480-42430-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	1.3		0.20	0.060	mg/L			1	6010B	Total/NA
Arsenic	0.0059	J	0.010	0.0056	mg/L			1	6010B	Total/NA
Barium	0.10	B	0.0020	0.00070	mg/L			1	6010B	Total/NA
Boron	0.020	B	0.020	0.0040	mg/L			1	6010B	Total/NA
Calcium	120	B	0.50	0.10	mg/L			1	6010B	Total/NA
Chromium	0.0030	J	0.0040	0.0010	mg/L			1	6010B	Total/NA
Copper	0.016		0.010	0.0016	mg/L			1	6010B	Total/NA
Iron	8.4		0.050	0.019	mg/L			1	6010B	Total/NA
Lead	0.0047	J	0.0050	0.0030	mg/L			1	6010B	Total/NA
Magnesium	16		0.20	0.043	mg/L			1	6010B	Total/NA
Manganese	1.8	B	0.0030	0.00040	mg/L			1	6010B	Total/NA
Nickel	0.0061	J	0.010	0.0013	mg/L			1	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-303S (Continued)

### Lab Sample ID: 480-42430-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Potassium	2.4	B	0.50	0.10	mg/L		1		6010B	Total/NA
Sodium	12	B	1.0	0.32	mg/L		1		6010B	Total/NA
Zinc	0.054	B	0.010	0.0015	mg/L		1		6010B	Total/NA
Aluminum	0.075	J	0.20	0.060	mg/L		1		6010B	Dissolved
Barium	0.094		0.0020	0.00070	mg/L		1		6010B	Dissolved
Boron	0.019	J B	0.020	0.0040	mg/L		1		6010B	Dissolved
Calcium	120	B7	0.50	0.10	mg/L		1		6010B	Dissolved
Chromium	0.0012	J	0.0040	0.0010	mg/L		1		6010B	Dissolved
Iron	7.2		0.050	0.019	mg/L		1		6010B	Dissolved
Magnesium	15		0.20	0.043	mg/L		1		6010B	Dissolved
Manganese	1.6	B	0.0030	0.00040	mg/L		1		6010B	Dissolved
Nickel	0.0019	J	0.010	0.0013	mg/L		1		6010B	Dissolved
Potassium	1.9		0.50	0.10	mg/L		1		6010B	Dissolved
Sodium	12	B	1.0	0.32	mg/L		1		6010B	Dissolved
Zinc	0.011		0.010	0.0015	mg/L		1		6010B	Dissolved
Chloride	19		0.50	0.28	mg/L		1		300.0	Total/NA
Sulfate	1.4	J	2.0	0.35	mg/L		1		300.0	Total/NA
Alkalinity, Total	380		50	20	mg/L		5		310.2	Total/NA
Ammonia	0.44		0.020	0.0090	mg/L		1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.0		0.20	0.15	mg/L		1		351.2	Total/NA
Nitrate as N	0.086		0.050	0.020	mg/L		1		353.2	Total/NA
Total Organic Carbon	3.4		1.0	0.43	mg/L		1		9060	Total/NA
Hardness	380		4.0	1.1	mg/L		1		SM 2340C	Total/NA
Total Dissolved Solids	430		10	4.0	mg/L		1		SM 2540C	Total/NA
Biochemical Oxygen Demand	2.5	b	2.0	2.0	mg/L		1		SM 5210B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	70		1.0	1.0	NTU		1		180.1	Total/NA
Color	15		5.0	5.0	Color Units		1		SM 2120B	Total/NA

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### Client Sample ID: Trip Blank

### Lab Sample ID: 480-42430-5

No Detections.

### Client Sample ID: MS-207SA

### Lab Sample ID: 480-42488-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	1.4		0.20	0.060	mg/L		1		6010B	Total/NA
Arsenic	0.039		0.010	0.0056	mg/L		1		6010B	Total/NA
Barium	0.32		0.0020	0.00070	mg/L		1		6010B	Total/NA
Boron	0.039	B	0.020	0.0040	mg/L		1		6010B	Total/NA
Calcium	130	B	0.50	0.10	mg/L		1		6010B	Total/NA
Chromium	0.0024	J B	0.0040	0.0010	mg/L		1		6010B	Total/NA
Copper	0.0093	J	0.010	0.0016	mg/L		1		6010B	Total/NA
Iron	21		0.050	0.019	mg/L		1		6010B	Total/NA
Magnesium	25		0.20	0.043	mg/L		1		6010B	Total/NA
Manganese	0.74	B	0.0030	0.00040	mg/L		1		6010B	Total/NA
Nickel	0.0052	J B	0.010	0.0013	mg/L		1		6010B	Total/NA
Potassium	2.5	B	0.50	0.10	mg/L		1		6010B	Total/NA
Sodium	10		1.0	0.32	mg/L		1		6010B	Total/NA
Zinc	0.031		0.010	0.0015	mg/L		1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MS-207SA (Continued)

Lab Sample ID: 480-42488-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.037		0.010	0.0056	mg/L	1			6010B	Dissolved
Barium	0.31		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.026		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	130		0.50	0.10	mg/L	1			6010B	Dissolved
Iron	18		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	24		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	0.59		0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	2.2		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	9.5		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0033	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	28		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	2.9		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	450		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.21		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.59		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.021	J	0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	11		10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	2.1		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	420		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	480		10	4.0	mg/L	1			SM 2540C	Total/NA
Biochemical Oxygen Demand	2.9	b	2.0	2.0	mg/L	1			SM 5210B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	270		1.0	1.0	NTU	1			180.1	Total/NA
Color	50		5.0	5.0	Color Units	1			SM 2120B	Total/NA

Client Sample ID: MW-234D

Lab Sample ID: 480-42488-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.064		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.033	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	96	B	0.50	0.10	mg/L	1			6010B	Total/NA
Iron	0.22		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	16		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	0.40	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Potassium	1.4	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	14		1.0	0.32	mg/L	1			6010B	Total/NA
Barium	0.065		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.024		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	98		0.50	0.10	mg/L	1			6010B	Dissolved
Iron	0.20		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	16		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	0.41		0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	1.5		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	15		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0041	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	37		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	66		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	230		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.070		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	1.7		0.20	0.15	mg/L	1			351.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-234D (Continued)

### Lab Sample ID: 480-42488-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	0.77	J	1.0	0.43	mg/L	1		9060	Total/NA
Hardness	300		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	380		10	4.0	mg/L	1		SM 2540C	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	2.3		1.0	1.0	NTU	1		180.1	Total/NA

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### Client Sample ID: MW-207D

### Lab Sample ID: 480-42488-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.18	J	0.20	0.060	mg/L	1		6010B	Total/NA
Arsenic	0.057		0.010	0.0056	mg/L	1		6010B	Total/NA
Barium	0.093		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	0.032	B	0.020	0.0040	mg/L	1		6010B	Total/NA
Calcium	120	B	0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.0012	J B	0.0040	0.0010	mg/L	1		6010B	Total/NA
Copper	0.0023	J	0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	3.5		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	23		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	1.7	B	0.0030	0.00040	mg/L	1		6010B	Total/NA
Potassium	1.2	B	0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	8.7		1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.026		0.010	0.0015	mg/L	1		6010B	Total/NA
Arsenic	0.049		0.010	0.0056	mg/L	1		6010B	Dissolved
Barium	0.089		0.0020	0.00070	mg/L	1		6010B	Dissolved
Boron	0.023		0.020	0.0040	mg/L	1		6010B	Dissolved
Calcium	120		0.50	0.10	mg/L	1		6010B	Dissolved
Iron	1.9		0.050	0.019	mg/L	1		6010B	Dissolved
Magnesium	23		0.20	0.043	mg/L	1		6010B	Dissolved
Manganese	1.6		0.0030	0.00040	mg/L	1		6010B	Dissolved
Potassium	1.1		0.50	0.10	mg/L	1		6010B	Dissolved
Sodium	9.1		1.0	0.32	mg/L	1		6010B	Dissolved
Zinc	0.0047	J	0.010	0.0015	mg/L	1		6010B	Dissolved
Chloride	10		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	92		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	290		100	40	mg/L	10		310.2	Total/NA
Ammonia	0.067		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.28		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.17		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	5.5	J	10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	1.4		1.0	0.43	mg/L	1		9060	Total/NA
Hardness	370		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	460		10	4.0	mg/L	1		SM 2540C	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	51		1.0	1.0	NTU	1		180.1	Total/NA
Color	200		20	20	Color Units	4		SM 2120B	Total/NA

### Client Sample ID: MW-303D

### Lab Sample ID: 480-42488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.16	J	0.20	0.060	mg/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-303D (Continued)

Lab Sample ID: 480-42488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.011		0.010	0.0056	mg/L			1	6010B	Total/NA
Barium	0.039		0.0020	0.00070	mg/L			1	6010B	Total/NA
Boron	0.38	B	0.020	0.0040	mg/L			1	6010B	Total/NA
Calcium	50	B	0.50	0.10	mg/L			1	6010B	Total/NA
Chromium	0.0056	B	0.0040	0.0010	mg/L			1	6010B	Total/NA
Copper	0.0033	J	0.010	0.0016	mg/L			1	6010B	Total/NA
Iron	0.51		0.050	0.019	mg/L			1	6010B	Total/NA
Lead	0.0056		0.0050	0.0030	mg/L			1	6010B	Total/NA
Magnesium	18		0.20	0.043	mg/L			1	6010B	Total/NA
Manganese	0.040	B	0.0030	0.00040	mg/L			1	6010B	Total/NA
Nickel	0.0072	J B	0.010	0.0013	mg/L			1	6010B	Total/NA
Potassium	4.4	B	0.50	0.10	mg/L			1	6010B	Total/NA
Sodium	180		1.0	0.32	mg/L			1	6010B	Total/NA
Zinc	0.063		0.010	0.0015	mg/L			1	6010B	Total/NA
Barium	0.030		0.0020	0.00070	mg/L			1	6010B	Dissolved
Boron	0.36		0.020	0.0040	mg/L			1	6010B	Dissolved
Calcium	51		0.50	0.10	mg/L			1	6010B	Dissolved
Iron	0.046	J	0.050	0.019	mg/L			1	6010B	Dissolved
Magnesium	19		0.20	0.043	mg/L			1	6010B	Dissolved
Manganese	0.019		0.0030	0.00040	mg/L			1	6010B	Dissolved
Nickel	0.0051	J	0.010	0.0013	mg/L			1	6010B	Dissolved
Potassium	3.9		0.50	0.10	mg/L			1	6010B	Dissolved
Sodium	170		1.0	0.32	mg/L			1	6010B	Dissolved
Zinc	0.013		0.010	0.0015	mg/L			1	6010B	Dissolved
Chloride	160		2.5	1.4	mg/L			5	300.0	Total/NA
Sulfate	100		10	1.7	mg/L			5	300.0	Total/NA
Alkalinity, Total	220		100	40	mg/L			10	310.2	Total/NA
Ammonia	0.42		0.020	0.0090	mg/L			1	350.1	Total/NA
Total Kjeldahl Nitrogen	0.98		0.20	0.15	mg/L			1	351.2	Total/NA
Nitrate as N	0.30		0.050	0.020	mg/L			1	353.2	Total/NA
Chemical Oxygen Demand	30		10	5.0	mg/L			1	410.4	Total/NA
Total Organic Carbon	1.3		1.0	0.43	mg/L			1	9060	Total/NA
Hardness	200		4.0	1.1	mg/L			1	SM 2340C	Total/NA
Total Dissolved Solids	660		10	4.0	mg/L			1	SM 2540C	Total/NA
Biochemical Oxygen Demand	2.0	b	2.0	2.0	mg/L			1	SM 5210B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	11		1.0	1.0	NTU			1	180.1	Total/NA
Color	15		5.0	5.0	Color Units			1	SM 2120B	Total/NA

Client Sample ID: MW-230S

Lab Sample ID: 480-42488-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.67		0.20	0.060	mg/L			1	6010B	Total/NA
Arsenic	0.0093	J	0.010	0.0056	mg/L			1	6010B	Total/NA
Barium	0.095		0.0020	0.00070	mg/L			1	6010B	Total/NA
Boron	0.018	J B	0.020	0.0040	mg/L			1	6010B	Total/NA
Calcium	86	B	0.50	0.10	mg/L			1	6010B	Total/NA
Chromium	0.0013	J B	0.0040	0.0010	mg/L			1	6010B	Total/NA
Copper	0.0033	J	0.010	0.0016	mg/L			1	6010B	Total/NA
Iron	1.1		0.050	0.019	mg/L			1	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-230S (Continued)

Lab Sample ID: 480-42488-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	13		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	0.47	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Potassium	1.0	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	12		1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.0083	J	0.010	0.0015	mg/L	1			6010B	Total/NA
Arsenic	0.0059	J	0.010	0.0056	mg/L	1			6010B	Dissolved
Barium	0.090		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.012	J	0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	84		0.50	0.10	mg/L	1			6010B	Dissolved
Iron	0.064		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	12		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	0.34		0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	0.75		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	12		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0025	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	54		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	37		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	120		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.079		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.24		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.071		0.050	0.020	mg/L	1			353.2	Total/NA
Hardness	270		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	330		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	83		1.0	1.0	NTU	1			180.1	Total/NA
Color	10		5.0	5.0	Color Units	1			SM 2120B	Total/NA

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Client Sample ID: MW-312S

Lab Sample ID: 480-42488-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	3.1		0.20	0.060	mg/L	1			6010B	Total/NA
Arsenic	0.0059	J	0.010	0.0056	mg/L	1			6010B	Total/NA
Barium	0.052		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.023	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	81	B	0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0043	B	0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.012		0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	3.5		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	13		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	0.39	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0058	J B	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	2.1	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	1.6		1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.028		0.010	0.0015	mg/L	1			6010B	Total/NA
Barium	0.026		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.011	J	0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	75		0.50	0.10	mg/L	1			6010B	Dissolved
Magnesium	11		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	0.0050		0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	1.1		0.50	0.10	mg/L	1			6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-312S (Continued)

Lab Sample ID: 480-42488-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sodium	1.7		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.010		0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	0.56		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	14		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	200		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.095		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.57		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.11		0.050	0.020	mg/L	1			353.2	Total/NA
Total Organic Carbon	0.47	J	1.0	0.43	mg/L	1			9060	Total/NA
Phenolics, Total Recoverable	0.0059	J	0.010	0.0050	mg/L	1			9066	Total/NA
Hardness	260		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	250		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	750		1.0	1.0	NTU	1			180.1	Total/NA
Color	40		20	20	Color Units	4			SM 2120B	Total/NA

Client Sample ID: MW-223S

Lab Sample ID: 480-42488-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.60		0.20	0.060	mg/L	1			6010B	Total/NA
Arsenic	0.028		0.010	0.0056	mg/L	1			6010B	Total/NA
Barium	0.19		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.029	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	130	B	0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0018	J B	0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0019	J	0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	8.5		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	30		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	2.0	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0015	J B	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	1.7	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	13		1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.029		0.010	0.0015	mg/L	1			6010B	Total/NA
Arsenic	0.025		0.010	0.0056	mg/L	1			6010B	Dissolved
Barium	0.18		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.021		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	130		0.50	0.10	mg/L	1			6010B	Dissolved
Chromium	0.0011	J	0.0040	0.0010	mg/L	1			6010B	Dissolved
Iron	8.6		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	30		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	2.0		0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	1.2		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	13		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0062	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	7.0		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	41		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	420		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.093		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.31		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.21		0.050	0.020	mg/L	1			353.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-223S (Continued)

Lab Sample ID: 480-42488-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	1.8		1.0	0.43	mg/L	1		9060	Total/NA
Hardness	440		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	520		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	190		1.0	1.0	NTU	1		180.1	Total/NA
Color	40		10	10	Color Units	2		SM 2120B	Total/NA

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### Client Sample ID: MW-232S

Lab Sample ID: 480-42488-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.17	J	0.20	0.060	mg/L	1		6010B	Total/NA
Arsenic	0.048		0.010	0.0056	mg/L	1		6010B	Total/NA
Barium	0.14		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	0.017	J B	0.020	0.0040	mg/L	1		6010B	Total/NA
Calcium	100	B	0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.0011	J B	0.0040	0.0010	mg/L	1		6010B	Total/NA
Iron	5.1		0.050	0.019	mg/L	1		6010B	Total/NA
Magnesium	16		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.92	B	0.0030	0.00040	mg/L	1		6010B	Total/NA
Potassium	1.3	B	0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	3.8		1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.011		0.010	0.0015	mg/L	1		6010B	Total/NA
Arsenic	0.038		0.010	0.0056	mg/L	1		6010B	Dissolved
Barium	0.14		0.0020	0.00070	mg/L	1		6010B	Dissolved
Boron	0.013	J	0.020	0.0040	mg/L	1		6010B	Dissolved
Calcium	110		0.50	0.10	mg/L	1		6010B	Dissolved
Iron	4.4		0.050	0.019	mg/L	1		6010B	Dissolved
Magnesium	16		0.20	0.043	mg/L	1		6010B	Dissolved
Manganese	0.91		0.0030	0.00040	mg/L	1		6010B	Dissolved
Potassium	1.2		0.50	0.10	mg/L	1		6010B	Dissolved
Sodium	4.0		1.0	0.32	mg/L	1		6010B	Dissolved
Zinc	0.0051	J	0.010	0.0015	mg/L	1		6010B	Dissolved
Chloride	2.3		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	72		2.0	0.35	mg/L	1		300.0	Total/NA
Alkalinity, Total	230		100	40	mg/L	10		310.2	Total/NA
Ammonia	0.078		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.36		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate as N	0.12		0.050	0.020	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	6.2	J	10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	1.8		1.0	0.43	mg/L	1		9060	Total/NA
Hardness	320		4.0	1.1	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	370		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	83		1.0	1.0	NTU	1		180.1	Total/NA
Color	100		20	20	Color Units	4		SM 2120B	Total/NA

### Client Sample ID: MW-233S

Lab Sample ID: 480-42488-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.077		0.0020	0.00070	mg/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-233S (Continued)

Lab Sample ID: 480-42488-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.021	B	0.020	0.0040	mg/L	1		1	6010B	Total/NA
Calcium	120	B	0.50	0.10	mg/L	1		1	6010B	Total/NA
Copper	0.0023	J	0.010	0.0016	mg/L	1		1	6010B	Total/NA
Iron	0.023	J	0.050	0.019	mg/L	1		1	6010B	Total/NA
Magnesium	34		0.20	0.043	mg/L	1		1	6010B	Total/NA
Manganese	0.29	B	0.0030	0.00040	mg/L	1		1	6010B	Total/NA
Potassium	2.4	B	0.50	0.10	mg/L	1		1	6010B	Total/NA
Sodium	1.5		1.0	0.32	mg/L	1		1	6010B	Total/NA
Zinc	0.0026	J	0.010	0.0015	mg/L	1		1	6010B	Total/NA
Aluminum	0.086	J	0.20	0.060	mg/L	1		1	6010B	Dissolved
Barium	0.078		0.0020	0.00070	mg/L	1		1	6010B	Dissolved
Boron	0.020		0.020	0.0040	mg/L	1		1	6010B	Dissolved
Calcium	130		0.50	0.10	mg/L	1		1	6010B	Dissolved
Magnesium	35		0.20	0.043	mg/L	1		1	6010B	Dissolved
Manganese	0.092		0.0030	0.00040	mg/L	1		1	6010B	Dissolved
Potassium	2.4		0.50	0.10	mg/L	1		1	6010B	Dissolved
Sodium	1.6		1.0	0.32	mg/L	1		1	6010B	Dissolved
Zinc	0.0077	J	0.010	0.0015	mg/L	1		1	6010B	Dissolved
Chloride	1.1		0.50	0.28	mg/L	1		1	300.0	Total/NA
Sulfate	59		2.0	0.35	mg/L	1		1	300.0	Total/NA
Alkalinity, Total	330		100	40	mg/L	10		1	310.2	Total/NA
Ammonia	0.024		0.020	0.0090	mg/L	1		1	350.1	Total/NA
Nitrate as N	7.7		0.050	0.020	mg/L	1		1	353.2	Total/NA
Chemical Oxygen Demand	6.8	J	10	5.0	mg/L	1		1	410.4	Total/NA
Total Organic Carbon	2.9		1.0	0.43	mg/L	1		1	9060	Total/NA
Phenolics, Total Recoverable	0.0052	J	0.010	0.0050	mg/L	1		1	9066	Total/NA
Hardness	430		4.0	1.1	mg/L	1		1	SM 2340C	Total/NA
Total Dissolved Solids	500		10	4.0	mg/L	1		1	SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	4.0		1.0	1.0	NTU	1		1	180.1	Total/NA
Color	10		5.0	5.0	Color Units	1		1	SM 2120B	Total/NA

### Client Sample ID: Trip Blank

Lab Sample ID: 480-42488-10

No Detections.

### Client Sample ID: MW-3B

Lab Sample ID: 480-42572-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.14	J	0.20	0.060	mg/L	1		1	6010B	Total/NA
Arsenic	0.056		0.010	0.0056	mg/L	1		1	6010B	Total/NA
Barium	0.39		0.0020	0.00070	mg/L	1		1	6010B	Total/NA
Boron	0.25	B	0.020	0.0040	mg/L	1		1	6010B	Total/NA
Calcium	160		0.50	0.10	mg/L	1		1	6010B	Total/NA
Chromium	0.0010	J	0.0040	0.0010	mg/L	1		1	6010B	Total/NA
Iron	1.9		0.050	0.019	mg/L	1		1	6010B	Total/NA
Magnesium	41		0.20	0.043	mg/L	1		1	6010B	Total/NA
Manganese	1.1	B	0.0030	0.00040	mg/L	1		1	6010B	Total/NA
Nickel	0.0080	J	0.010	0.0013	mg/L	1		1	6010B	Total/NA
Potassium	5.6	B	0.50	0.10	mg/L	1		1	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-3B (Continued)

### Lab Sample ID: 480-42572-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sodium	64	B	1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.012		0.010	0.0015	mg/L	1			6010B	Total/NA
Arsenic	0.055		0.010	0.0056	mg/L	1			6010B	Dissolved
Barium	0.39		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.25		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	160		0.50	0.10	mg/L	1			6010B	Dissolved
Chromium	0.0011	J	0.0040	0.0010	mg/L	1			6010B	Dissolved
Iron	1.8		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	41		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	1.0	B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Nickel	0.0077	J	0.010	0.0013	mg/L	1			6010B	Dissolved
Potassium	5.4		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	63		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0033	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	68		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	36		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	600		100	40	mg/L	10			310.2	Total/NA
Ammonia	4.4		0.10	0.045	mg/L	5			350.1	Total/NA
Total Kjeldahl Nitrogen	4.2		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.14		0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	24		10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	4.4		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	550		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	730		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	18		1.0	1.0	NTU	1			180.1	Total/NA
Color	5.0		5.0	5.0	Color Units	1			SM 2120B	Total/NA

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### Client Sample ID: MW-221S

### Lab Sample ID: 480-42572-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	3.5		0.20	0.060	mg/L	1			6010B	Total/NA
Barium	0.23		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.043	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	200		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0049		0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0059	J	0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	3.0		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	23		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	0.31	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0038	J	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	3.9	B	0.50	0.10	mg/L	1			6010B	Total/NA
Selenium	0.012	J	0.015	0.0087	mg/L	1			6010B	Total/NA
Sodium	19	B	1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.013		0.010	0.0015	mg/L	1			6010B	Total/NA
Barium	0.21		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.042		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	210		0.50	0.10	mg/L	1			6010B	Dissolved
Chromium	0.0013	J	0.0040	0.0010	mg/L	1			6010B	Dissolved
Copper	0.0019	J	0.010	0.0016	mg/L	1			6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-221S (Continued)

Lab Sample ID: 480-42572-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	23		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	0.00049	J B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	2.9		0.50	0.10	mg/L	1			6010B	Dissolved
Selenium	0.012	J	0.015	0.0087	mg/L	1			6010B	Dissolved
Sodium	20		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0036	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	32		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	89		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	560		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.017	J	0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.48		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.91		0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	5.5	J	10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	1.9		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	600		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	750		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	240		1.0	1.0	NTU	1			180.1	Total/NA
Color	20		5.0	5.0	Color Units	1			SM 2120B	Total/NA

Client Sample ID: MW-223D

Lab Sample ID: 480-42572-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	2.3		0.20	0.060	mg/L	1			6010B	Total/NA
Arsenic	0.024		0.010	0.0056	mg/L	1			6010B	Total/NA
Barium	0.086		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.028	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	150		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0041		0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0025	J	0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	4.3		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	34		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	1.6	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0023	J	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	2.0	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	13	B	1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.010		0.010	0.0015	mg/L	1			6010B	Total/NA
Arsenic	0.022		0.010	0.0056	mg/L	1			6010B	Dissolved
Barium	0.066		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.026		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	150		0.50	0.10	mg/L	1			6010B	Dissolved
Chromium	0.0019	J	0.0040	0.0010	mg/L	1			6010B	Dissolved
Iron	2.2		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	33		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	1.5	B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	1.1		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	12		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0044	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	12		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	74		2.0	0.35	mg/L	1			300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-223D (Continued)

### Lab Sample ID: 480-42572-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Alkalinity, Total	460		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.047		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.18	J	0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.037	J	0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	5.2	J	10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	2.0		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	500		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	580		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	93		1.0	1.0	NTU	1			180.1	Total/NA
Color	10		5.0	5.0	Color Units	1			SM 2120B	Total/NA

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### Client Sample ID: MW-221D

### Lab Sample ID: 480-42572-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.094	J	0.20	0.060	mg/L	1			6010B	Total/NA
Barium	0.055		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.037	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	45		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0011	J	0.0040	0.0010	mg/L	1			6010B	Total/NA
Iron	0.29		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	18		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	0.038	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Potassium	7.5	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	16	B	1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.0063	J	0.010	0.0015	mg/L	1			6010B	Total/NA
Barium	0.051		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.037		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	43		0.50	0.10	mg/L	1			6010B	Dissolved
Chromium	0.0011	J	0.0040	0.0010	mg/L	1			6010B	Dissolved
Iron	0.12		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	18		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	0.030	B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	8.5		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	16		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0029	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	56		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	17		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	120		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.40		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	2.2		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.050		0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	11		10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	1.2		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	330		10	2.6	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	270		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	150		1.0	1.0	NTU	1			180.1	Total/NA
Color	10		5.0	5.0	Color Units	1			SM 2120B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-245S**

**Lab Sample ID: 480-42572-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	5.9		0.20	0.060	mg/L	1			6010B	Total/NA
Arsenic	0.032		0.010	0.0056	mg/L	1			6010B	Total/NA
Barium	0.12		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.037	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	150		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0089		0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0073	J	0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	6.3		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	37		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	1.9	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0065	J	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	4.0	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	26	B	1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.027		0.010	0.0015	mg/L	1			6010B	Total/NA
Arsenic	0.021		0.010	0.0056	mg/L	1			6010B	Dissolved
Barium	0.081		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.033		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	160		0.50	0.10	mg/L	1			6010B	Dissolved
Chromium	0.0014	J	0.0040	0.0010	mg/L	1			6010B	Dissolved
Iron	0.68		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	37		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	1.8	B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	1.9		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	27		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0039	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	86		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	140		10	1.7	mg/L	5			300.0	Total/NA
Alkalinity, Total	320		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.14		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.51		0.20	0.15	mg/L	1			351.2	Total/NA
Chemical Oxygen Demand	6.5	J	10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	2.2		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	540		10	2.6	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	690		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	170		1.0	1.0	NTU	1			180.1	Total/NA
Color	10		5.0	5.0	Color Units	1			SM 2120B	Total/NA

**Client Sample ID: MW-222**

**Lab Sample ID: 480-42572-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.0	J	5.0	0.28	ug/L	1			624	Total/NA
Aluminum	0.20		0.20	0.060	mg/L	1			6010B	Total/NA
Arsenic	0.0056	J	0.010	0.0056	mg/L	1			6010B	Total/NA
Barium	0.32		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.22	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	210		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0011	J	0.0040	0.0010	mg/L	1			6010B	Total/NA
Iron	24		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	47		0.20	0.043	mg/L	1			6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-222 (Continued)

Lab Sample ID: 480-42572-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	0.58	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0054	J	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	12	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	44	B	1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.0087	J	0.010	0.0015	mg/L	1			6010B	Total/NA
Barium	0.41		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.17		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	200		0.50	0.10	mg/L	1			6010B	Dissolved
Iron	23		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	44		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	0.57	B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Nickel	0.0046	J	0.010	0.0013	mg/L	1			6010B	Dissolved
Potassium	9.5		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	35		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0031	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	52		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	53		2.0	0.35	mg/L	1			300.0	Total/NA
Alkalinity, Total	760		100	40	mg/L	10			310.2	Total/NA
Ammonia	12		0.20	0.090	mg/L	10			350.1	Total/NA
Total Kjeldahl Nitrogen	9.8		1.0	0.75	mg/L	5			351.2	Total/NA
Nitrate as N	0.025	J	0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	23		10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	5.7		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	680		10	2.6	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	860		10	4.0	mg/L	1			SM 2540C	Total/NA
Biochemical Oxygen Demand	2.0		2.0	2.0	mg/L	1			SM 5210B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	190		1.0	1.0	NTU	1			180.1	Total/NA
Color	30		5.0	5.0	Color Units	1			SM 2120B	Total/NA

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Client Sample ID: MW-220

Lab Sample ID: 480-42572-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	2.6		0.20	0.060	mg/L	1			6010B	Total/NA
Arsenic	0.0096	J	0.010	0.0056	mg/L	1			6010B	Total/NA
Barium	0.083		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.040	B	0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	180		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0047		0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0041	J	0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	4.3		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	49		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	1.6	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0040	J	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	3.5	B	0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	12	B	1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.012		0.010	0.0015	mg/L	1			6010B	Total/NA
Barium	0.051		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.032		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	170		0.50	0.10	mg/L	1			6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-220 (Continued)

Lab Sample ID: 480-42572-8

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Chromium	0.0011	J	0.0040	0.0010	mg/L	1		6010B	Dissolved
Iron	0.24		0.050	0.019	mg/L	1		6010B	Dissolved
Magnesium	47		0.20	0.043	mg/L	1		6010B	Dissolved
Manganese	0.83	B	0.0030	0.00040	mg/L	1		6010B	Dissolved
Nickel	0.0015	J	0.010	0.0013	mg/L	1		6010B	Dissolved
Potassium	2.6		0.50	0.10	mg/L	1		6010B	Dissolved
Sodium	11		1.0	0.32	mg/L	1		6010B	Dissolved
Zinc	0.0040	J	0.010	0.0015	mg/L	1		6010B	Dissolved
Chloride	16		0.50	0.28	mg/L	1		300.0	Total/NA
Sulfate	220		10	1.7	mg/L	5		300.0	Total/NA
Alkalinity, Total	430		100	40	mg/L	10		310.2	Total/NA
Ammonia	0.039		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.19	J	0.20	0.15	mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	9.4	J	10	5.0	mg/L	1		410.4	Total/NA
Total Organic Carbon	2.0		1.0	0.43	mg/L	1		9060	Total/NA
Hardness	650		10	2.6	mg/L	1		SM 2340C	Total/NA
Total Dissolved Solids	770		10	4.0	mg/L	1		SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	DII Fac	D	Method	Prep Type
Turbidity	58		1.0	1.0	NTU	1		180.1	Total/NA
Color	10		5.0	5.0	Color Units	1		SM 2120B	Total/NA

Client Sample ID: MW-245D

Lab Sample ID: 480-42572-9

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Aluminum	0.79		0.20	0.060	mg/L	1		6010B	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		6010B	Total/NA
Boron	0.043	B	0.020	0.0040	mg/L	1		6010B	Total/NA
Cadmium	0.00065	J	0.0010	0.00050	mg/L	1		6010B	Total/NA
Calcium	120		0.50	0.10	mg/L	1		6010B	Total/NA
Chromium	0.010		0.0040	0.0010	mg/L	1		6010B	Total/NA
Copper	0.0047	J	0.010	0.0016	mg/L	1		6010B	Total/NA
Iron	1.5		0.050	0.019	mg/L	1		6010B	Total/NA
Lead	0.0044	J	0.0050	0.0030	mg/L	1		6010B	Total/NA
Magnesium	30		0.20	0.043	mg/L	1		6010B	Total/NA
Manganese	0.45	B	0.0030	0.00040	mg/L	1		6010B	Total/NA
Nickel	0.0076	J	0.010	0.0013	mg/L	1		6010B	Total/NA
Potassium	3.5	B	0.50	0.10	mg/L	1		6010B	Total/NA
Sodium	43	B	1.0	0.32	mg/L	1		6010B	Total/NA
Zinc	0.036		0.010	0.0015	mg/L	1		6010B	Total/NA
Barium	0.12		0.0020	0.00070	mg/L	1		6010B	Dissolved
Boron	0.037		0.020	0.0040	mg/L	1		6010B	Dissolved
Calcium	110		0.50	0.10	mg/L	1		6010B	Dissolved
Chromium	0.0010	J	0.0040	0.0010	mg/L	1		6010B	Dissolved
Iron	0.52		0.050	0.019	mg/L	1		6010B	Dissolved
Magnesium	29		0.20	0.043	mg/L	1		6010B	Dissolved
Manganese	0.43	B	0.0030	0.00040	mg/L	1		6010B	Dissolved
Nickel	0.0031	J	0.010	0.0013	mg/L	1		6010B	Dissolved
Potassium	3.0		0.50	0.10	mg/L	1		6010B	Dissolved
Sodium	38		1.0	0.32	mg/L	1		6010B	Dissolved
Zinc	0.0049	J	0.010	0.0015	mg/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-245D (Continued)

### Lab Sample ID: 480-42572-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	43		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	120		10	1.7	mg/L	5			300.0	Total/NA
Alkalinity, Total	340		100	40	mg/L	10			310.2	Total/NA
Ammonia	9.0		0.10	0.045	mg/L	5			350.1	Total/NA
Total Kjeldahl Nitrogen	7.8		0.40	0.30	mg/L	2			351.2	Total/NA
Nitrate as N	0.49		0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	8.7	J	10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	3.2		1.0	0.43	mg/L	1			9060	Total/NA
Phenolics, Total Recoverable	0.0087	J ^	0.010	0.0050	mg/L	1			9066	Total/NA
Hardness	400		10	2.6	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	590		10	4.0	mg/L	1			SM 2540C	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	98		1.0	1.0	NTU	1			180.1	Total/NA
Color	10		5.0	5.0	Color Units	1			SM 2120B	Total/NA

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### Client Sample ID: Trip Blank

### Lab Sample ID: 480-42572-10

No Detections.

### Client Sample ID: PZ-11

### Lab Sample ID: 480-42659-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	0.090	J	0.20	0.060	mg/L	1			6010B	Total/NA
Arsenic	0.017		0.010	0.0056	mg/L	1			6010B	Total/NA
Barium	0.12		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.030		0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	160		0.50	0.10	mg/L	1			6010B	Total/NA
Chromium	0.0022	J	0.0040	0.0010	mg/L	1			6010B	Total/NA
Copper	0.0016	J	0.010	0.0016	mg/L	1			6010B	Total/NA
Iron	6.2		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	32		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	2.4	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Nickel	0.0016	J	0.010	0.0013	mg/L	1			6010B	Total/NA
Potassium	4.1		0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	13		1.0	0.32	mg/L	1			6010B	Total/NA
Zinc	0.019		0.010	0.0015	mg/L	1			6010B	Total/NA
Arsenic	0.015		0.010	0.0056	mg/L	1			6010B	Dissolved
Barium	0.12		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.031		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	160	B	0.50	0.10	mg/L	1			6010B	Dissolved
Chromium	0.0017	J	0.0040	0.0010	mg/L	1			6010B	Dissolved
Iron	5.7		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	32		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	2.4	B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Nickel	0.0013	J	0.010	0.0013	mg/L	1			6010B	Dissolved
Potassium	4.1		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	13		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.010		0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	17		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	63		2.0	0.35	mg/L	1			300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: PZ-11 (Continued)

### Lab Sample ID: 480-42659-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Alkalinity, Total	540		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.47		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.87		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.028	J	0.050	0.020	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	9.0	J	10	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	3.2		1.0	0.43	mg/L	1			9060	Total/NA
Hardness	540		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	600		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	73		1.0	1.0	NTU	1			180.1	Total/NA
Color	80		10	10	Color Units	2			SM 2120B	Total/NA

### Client Sample ID: PZ-1A

### Lab Sample ID: 480-42659-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.048		0.0020	0.00070	mg/L	1			6010B	Total/NA
Boron	0.070		0.020	0.0040	mg/L	1			6010B	Total/NA
Calcium	120		0.50	0.10	mg/L	1			6010B	Total/NA
Iron	0.14		0.050	0.019	mg/L	1			6010B	Total/NA
Magnesium	28		0.20	0.043	mg/L	1			6010B	Total/NA
Manganese	0.60	B	0.0030	0.00040	mg/L	1			6010B	Total/NA
Potassium	1.9		0.50	0.10	mg/L	1			6010B	Total/NA
Sodium	18		1.0	0.32	mg/L	1			6010B	Total/NA
Barium	0.046		0.0020	0.00070	mg/L	1			6010B	Dissolved
Boron	0.043		0.020	0.0040	mg/L	1			6010B	Dissolved
Calcium	120	B	0.50	0.10	mg/L	1			6010B	Dissolved
Iron	0.071		0.050	0.019	mg/L	1			6010B	Dissolved
Magnesium	27		0.20	0.043	mg/L	1			6010B	Dissolved
Manganese	0.59	B	0.0030	0.00040	mg/L	1			6010B	Dissolved
Potassium	1.9		0.50	0.10	mg/L	1			6010B	Dissolved
Sodium	18		1.0	0.32	mg/L	1			6010B	Dissolved
Zinc	0.0031	J	0.010	0.0015	mg/L	1			6010B	Dissolved
Chloride	20		0.50	0.28	mg/L	1			300.0	Total/NA
Sulfate	200		10	1.7	mg/L	5			300.0	Total/NA
Alkalinity, Total	220		100	40	mg/L	10			310.2	Total/NA
Ammonia	0.091		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Kjeldahl Nitrogen	0.16	J	0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate as N	0.037	J	0.050	0.020	mg/L	1			353.2	Total/NA
Total Organic Carbon	0.69	J	1.0	0.43	mg/L	1			9060	Total/NA
Phenolics, Total Recoverable	0.0082	J	0.010	0.0050	mg/L	1			9066	Total/NA
Hardness	390		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	550		10	4.0	mg/L	1			SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	4.0		1.0	1.0	NTU	1			180.1	Total/NA

### Client Sample ID: MW-245D

### Lab Sample ID: 480-42659-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Biochemical Oxygen Demand	7.0	b	2.0	2.0	mg/L	1			SM 5210B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: PZ-4

Lab Sample ID: 480-42659-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aluminum	5.7		0.20	0.060	mg/L		1		6010B	Total/NA
Arsenic	0.015		0.010	0.0056	mg/L		1		6010B	Total/NA
Barium	0.092		0.0020	0.00070	mg/L		1		6010B	Total/NA
Beryllium	0.00044	J	0.0020	0.00030	mg/L		1		6010B	Total/NA
Boron	0.14		0.020	0.0040	mg/L		1		6010B	Total/NA
Calcium	220		0.50	0.10	mg/L		1		6010B	Total/NA
Chromium	0.0082		0.0040	0.0010	mg/L		1		6010B	Total/NA
Copper	0.028		0.010	0.0016	mg/L		1		6010B	Total/NA
Iron	10		0.050	0.019	mg/L		1		6010B	Total/NA
Lead	0.0042	J	0.0050	0.0030	mg/L		1		6010B	Total/NA
Magnesium	55		0.20	0.043	mg/L		1		6010B	Total/NA
Manganese	1.9	B	0.0030	0.00040	mg/L		1		6010B	Total/NA
Nickel	0.015		0.010	0.0013	mg/L		1		6010B	Total/NA
Potassium	4.7		0.50	0.10	mg/L		1		6010B	Total/NA
Sodium	28		1.0	0.32	mg/L		1		6010B	Total/NA
Zinc	0.058		0.010	0.0015	mg/L		1		6010B	Total/NA
Arsenic	0.011		0.010	0.0056	mg/L		1		6010B	Dissolved
Barium	0.052		0.0020	0.00070	mg/L		1		6010B	Dissolved
Boron	0.11		0.020	0.0040	mg/L		1		6010B	Dissolved
Calcium	190	B	0.50	0.10	mg/L		1		6010B	Dissolved
Chromium	0.0013	J	0.0040	0.0010	mg/L		1		6010B	Dissolved
Iron	0.67		0.050	0.019	mg/L		1		6010B	Dissolved
Magnesium	48		0.20	0.043	mg/L		1		6010B	Dissolved
Manganese	1.0	B	0.0030	0.00040	mg/L		1		6010B	Dissolved
Nickel	0.0045	J	0.010	0.0013	mg/L		1		6010B	Dissolved
Potassium	3.2		0.50	0.10	mg/L		1		6010B	Dissolved
Sodium	27		1.0	0.32	mg/L		1		6010B	Dissolved
Zinc	0.0061	J	0.010	0.0015	mg/L		1		6010B	Dissolved
Chloride	45		0.50	0.28	mg/L		1		300.0	Total/NA
Sulfate	110		4.0	0.70	mg/L		2		300.0	Total/NA
Alkalinity, Total	600		100	40	mg/L		10		310.2	Total/NA
Ammonia	0.16		0.020	0.0090	mg/L		1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.52		0.20	0.15	mg/L		1		351.2	Total/NA
Chemical Oxygen Demand	7.8	J	10	5.0	mg/L		1		410.4	Total/NA
Total Organic Carbon	1.7		1.0	0.43	mg/L		1		9060	Total/NA
Hardness	800		20	5.3	mg/L		1		SM 2340C	Total/NA
Total Dissolved Solids	820		10	4.0	mg/L		1		SM 2540C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Turbidity	500		1.0	1.0	NTU		1		180.1	Total/NA
Color	30		5.0	5.0	Color Units		1		SM 2120B	Total/NA

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Client Sample ID: Trip Blank

Lab Sample ID: 480-42659-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304S**

**Lab Sample ID: 480-42430-1**

Date Collected: 07/22/13 12:30

Matrix: Ground Water

Date Received: 07/23/13 09:00

## Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/23/13 18:39	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/23/13 18:39	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/23/13 18:39	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/23/13 18:39	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/23/13 18:39	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/23/13 18:39	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/23/13 18:39	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/23/13 18:39	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/23/13 18:39	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/23/13 18:39	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/23/13 18:39	1
Benzene	ND		5.0	0.60	ug/L			07/23/13 18:39	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/23/13 18:39	1
Bromoform	ND		5.0	0.47	ug/L			07/23/13 18:39	1
Bromomethane	ND		5.0	1.2	ug/L			07/23/13 18:39	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/23/13 18:39	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/23/13 18:39	1
Chloroethane	ND		5.0	0.87	ug/L			07/23/13 18:39	1
Chloroform	ND		5.0	0.54	ug/L			07/23/13 18:39	1
Chloromethane	ND		5.0	0.64	ug/L			07/23/13 18:39	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/23/13 18:39	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/23/13 18:39	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/23/13 18:39	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/23/13 18:39	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/23/13 18:39	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/23/13 18:39	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/23/13 18:39	1
o-Xylene	ND		5.0	0.43	ug/L			07/23/13 18:39	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/23/13 18:39	1
Toluene	ND		5.0	0.45	ug/L			07/23/13 18:39	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/23/13 18:39	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/23/13 18:39	1
Trichloroethene	ND		5.0	0.60	ug/L			07/23/13 18:39	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/23/13 18:39	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/23/13 18:39	1
Xylenes, Total	ND		10	1.1	ug/L			07/23/13 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		72 - 130		07/23/13 18:39	1
4-Bromofluorobenzene (Surr)	102		69 - 121		07/23/13 18:39	1
Toluene-d8 (Surr)	99		70 - 123		07/23/13 18:39	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.2		0.20	0.060	mg/L		07/24/13 08:20	07/25/13 00:03	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 00:03	1
Arsenic	0.0083	J	0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 00:03	1
Barium	0.33	B	0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 00:03	1
Beryllium	0.00039	J B	0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 00:03	1
Boron	0.037	B	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 00:03	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304S**

**Lab Sample ID: 480-42430-1**

Date Collected: 07/22/13 12:30

Matrix: Ground Water

Date Received: 07/23/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.00078	J	0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 00:03	1
Calcium	110	B	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 00:03	1
Chromium	0.030		0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 00:03	1
Copper	0.030		0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 00:03	1
Iron	26		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 00:03	1
Lead	0.0097		0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 00:03	1
Magnesium	22		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 00:03	1
Manganese	2.5	B	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 00:03	1
Nickel	0.023		0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 00:03	1
Potassium	5.3	B	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 00:03	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 00:03	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 00:03	1
Sodium	22	B	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 00:03	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 00:03	1
Zinc	0.070	B	0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 00:03	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.11	J	0.20	0.060	mg/L		07/24/13 08:20	07/25/13 01:58	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 01:58	1
Arsenic	ND		0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 01:58	1
Barium	0.26		0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 01:58	1
Beryllium	ND		0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 01:58	1
Boron	0.029	B	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 01:58	1
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 01:58	1
Calcium	110	B7	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 01:58	1
Chromium	0.0014	J	0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 01:58	1
Copper	ND		0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 01:58	1
Iron	10		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 01:58	1
Lead	ND		0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 01:58	1
Magnesium	19		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 01:58	1
Manganese	2.0	B	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 01:58	1
Nickel	0.0015	J	0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 01:58	1
Potassium	2.5		0.50	0.10	mg/L		07/24/13 08:20	07/25/13 01:58	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 01:58	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 01:58	1
Sodium	22	B	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 01:58	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 01:58	1
Zinc	0.014		0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 01:58	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 07:30	07/24/13 11:47	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 08:00	07/24/13 13:43	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304S**

**Lab Sample ID: 480-42430-1**

Date Collected: 07/22/13 12:30

Matrix: Ground Water

Date Received: 07/23/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		0.50	0.28	mg/L			07/24/13 09:50	1
Sulfate	3.3		2.0	0.35	mg/L			07/24/13 09:50	1
Alkalinity, Total	340		100	40	mg/L			07/24/13 14:49	10
Ammonia	0.43		0.020	0.0090	mg/L			07/25/13 11:32	1
Total Kjeldahl Nitrogen	0.87		0.20	0.15	mg/L		07/23/13 23:29	07/24/13 12:36	1
Nitrate as N	0.068		0.050	0.020	mg/L			07/23/13 16:34	1
Chemical Oxygen Demand	12		10	5.0	mg/L			07/23/13 17:56	1
Chromium, hexavalent	ND		0.020	0.010	mg/L			07/23/13 10:17	2
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 08:21	07/30/13 15:51	1
Total Organic Carbon	3.9		1.0	0.43	mg/L			07/25/13 19:02	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 09:30	07/24/13 15:52	1
Hardness	370		4.0	1.1	mg/L			07/25/13 08:45	1
Total Dissolved Solids	410		10	4.0	mg/L			07/23/13 20:35	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/23/13 16:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	610		1.0	1.0	NTU			07/23/13 15:00	1
Color	15		5.0	5.0	Color Units			07/23/13 16:15	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304VS**

**Lab Sample ID: 480-42430-2**

Date Collected: 07/22/13 12:55

Matrix: Ground Water

Date Received: 07/23/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/23/13 19:02	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/23/13 19:02	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/23/13 19:02	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/23/13 19:02	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/23/13 19:02	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/23/13 19:02	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/23/13 19:02	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/23/13 19:02	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/23/13 19:02	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/23/13 19:02	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/23/13 19:02	1
Benzene	ND		5.0	0.60	ug/L			07/23/13 19:02	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/23/13 19:02	1
Bromoform	ND		5.0	0.47	ug/L			07/23/13 19:02	1
Bromomethane	ND		5.0	1.2	ug/L			07/23/13 19:02	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/23/13 19:02	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/23/13 19:02	1
Chloroethane	ND		5.0	0.87	ug/L			07/23/13 19:02	1
Chloroform	ND		5.0	0.54	ug/L			07/23/13 19:02	1
Chloromethane	ND		5.0	0.64	ug/L			07/23/13 19:02	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/23/13 19:02	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/23/13 19:02	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/23/13 19:02	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/23/13 19:02	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/23/13 19:02	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/23/13 19:02	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/23/13 19:02	1
o-Xylene	ND		5.0	0.43	ug/L			07/23/13 19:02	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/23/13 19:02	1
Toluene	ND		5.0	0.45	ug/L			07/23/13 19:02	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/23/13 19:02	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/23/13 19:02	1
Trichloroethene	ND		5.0	0.60	ug/L			07/23/13 19:02	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/23/13 19:02	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/23/13 19:02	1
Xylenes, Total	ND		10	1.1	ug/L			07/23/13 19:02	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		72 - 130		07/23/13 19:02	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/23/13 19:02	1
Toluene-d8 (Surr)	98		70 - 123		07/23/13 19:02	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	38		0.20	0.060	mg/L		07/24/13 08:20	07/25/13 00:05	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 00:05	1
Arsenic	0.014		0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 00:05	1
Barium	0.40	B	0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 00:05	1
Beryllium	0.0020	B	0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 00:05	1
Boron	0.045	B	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 00:05	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-304VS

Lab Sample ID: 480-42430-2

Date Collected: 07/22/13 12:55

Matrix: Ground Water

Date Received: 07/23/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0046		0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 00:05	1
Calcium	110	B	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 00:05	1
Chromium	0.048		0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 00:05	1
Copper	0.11		0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 00:05	1
Iron	55		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 00:05	1
Lead	0.046		0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 00:05	1
Magnesium	30		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 00:05	1
Manganese	6.4	B	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 00:05	1
Nickel	0.067		0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 00:05	1
Potassium	11	B	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 00:05	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 00:05	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 00:05	1
Sodium	240	B	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 00:05	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 00:05	1
Zinc	0.21	B	0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 00:05	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/24/13 08:20	07/25/13 02:01	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 02:01	1
Arsenic	ND		0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 02:01	1
Barium	0.11		0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 02:01	1
Beryllium	ND		0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 02:01	1
Boron	0.024	B	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 02:01	1
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 02:01	1
Calcium	85	B7	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 02:01	1
Chromium	0.0014	J	0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 02:01	1
Copper	ND		0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 02:01	1
Iron	2.3		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 02:01	1
Lead	ND		0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 02:01	1
Magnesium	14		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 02:01	1
Manganese	4.0	B	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 02:01	1
Nickel	0.0041	J	0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 02:01	1
Potassium	2.3		0.50	0.10	mg/L		07/24/13 08:20	07/25/13 02:01	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 02:01	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 02:01	1
Sodium	250	B	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 02:01	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 02:01	1
Zinc	0.0093	J	0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 02:01	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 07:30	07/24/13 11:48	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 08:00	07/24/13 13:50	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304VS**

Date Collected: 07/22/13 12:55

Date Received: 07/23/13 09:00

**Lab Sample ID: 480-42430-2**

Matrix: Ground Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		2.5	1.4	mg/L			07/25/13 00:28	5
Sulfate	9.8		2.0	0.35	mg/L			07/24/13 10:03	1
Alkalinity, Total	360		100	40	mg/L			07/24/13 14:49	10
Ammonia	0.098		0.020	0.0090	mg/L			07/25/13 11:33	1
Total Kjeldahl Nitrogen	3.5		0.20	0.15	mg/L		07/23/13 23:29	07/24/13 12:36	1
Nitrate as N	0.060		0.050	0.020	mg/L			07/23/13 16:37	1
Chemical Oxygen Demand	14		10	5.0	mg/L			07/23/13 17:56	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/23/13 10:17	1
Cyanide, Total	0.0086	J *	0.010	0.0050	mg/L		07/23/13 16:30	07/24/13 10:05	1
Total Organic Carbon	4.8		1.0	0.43	mg/L			07/25/13 19:32	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 09:30	07/24/13 15:52	1
Hardness	370		4.0	1.1	mg/L			07/25/13 08:45	1
Total Dissolved Solids	910		20	8.0	mg/L			07/23/13 20:37	1
Biochemical Oxygen Demand	2.6	b	2.0	2.0	mg/L			07/23/13 16:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	180		1.0	1.0	NTU			07/23/13 15:00	1
Color	60		10	10	Color Units			07/23/13 16:15	2

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304D**

**Lab Sample ID: 480-42430-3**

Date Collected: 07/22/13 11:30

Matrix: Ground Water

Date Received: 07/23/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/23/13 19:25	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/23/13 19:25	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/23/13 19:25	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/23/13 19:25	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/23/13 19:25	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/23/13 19:25	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/23/13 19:25	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/23/13 19:25	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/23/13 19:25	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/23/13 19:25	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/23/13 19:25	1
Benzene	ND		5.0	0.60	ug/L			07/23/13 19:25	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/23/13 19:25	1
Bromoform	ND		5.0	0.47	ug/L			07/23/13 19:25	1
Bromomethane	ND		5.0	1.2	ug/L			07/23/13 19:25	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/23/13 19:25	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/23/13 19:25	1
Chloroethane	ND		5.0	0.87	ug/L			07/23/13 19:25	1
Chloroform	ND		5.0	0.54	ug/L			07/23/13 19:25	1
Chloromethane	ND		5.0	0.64	ug/L			07/23/13 19:25	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/23/13 19:25	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/23/13 19:25	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/23/13 19:25	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/23/13 19:25	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/23/13 19:25	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/23/13 19:25	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/23/13 19:25	1
o-Xylene	ND		5.0	0.43	ug/L			07/23/13 19:25	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/23/13 19:25	1
Toluene	ND		5.0	0.45	ug/L			07/23/13 19:25	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/23/13 19:25	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/23/13 19:25	1
Trichloroethene	ND		5.0	0.60	ug/L			07/23/13 19:25	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/23/13 19:25	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/23/13 19:25	1
Xylenes, Total	ND		10	1.1	ug/L			07/23/13 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		72 - 130		07/23/13 19:25	1
4-Bromofluorobenzene (Surr)	102		69 - 121		07/23/13 19:25	1
Toluene-d8 (Surr)	100		70 - 123		07/23/13 19:25	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.46		0.20	0.060	mg/L		07/24/13 08:20	07/25/13 00:08	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 00:08	1
Arsenic	0.0080	J	0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 00:08	1
Barium	0.28	B	0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 00:08	1
Beryllium	ND		0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 00:08	1
Boron	0.058	B	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 00:08	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304D**

**Lab Sample ID: 480-42430-3**

Date Collected: 07/22/13 11:30

Matrix: Ground Water

Date Received: 07/23/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 00:08	1
Calcium	120	B	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 00:08	1
Chromium	0.0015	J	0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 00:08	1
Copper	0.0030	J	0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 00:08	1
Iron	7.9		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 00:08	1
Lead	ND		0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 00:08	1
Magnesium	26		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 00:08	1
Manganese	0.87	B	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 00:08	1
Nickel	0.0029	J	0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 00:08	1
Potassium	4.1	B	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 00:08	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 00:08	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 00:08	1
Sodium	23	B	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 00:08	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 00:08	1
Zinc	0.047	B	0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 00:08	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.10	J	0.20	0.060	mg/L		07/24/13 08:20	07/25/13 02:04	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 02:04	1
Arsenic	0.012		0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 02:04	1
Barium	0.11		0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 02:04	1
Beryllium	ND		0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 02:04	1
Boron	0.054	B	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 02:04	1
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 02:04	1
Calcium	87	B7	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 02:04	1
Chromium	ND		0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 02:04	1
Copper	ND		0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 02:04	1
Iron	2.5		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 02:04	1
Lead	ND		0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 02:04	1
Magnesium	21		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 02:04	1
Manganese	0.33	B	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 02:04	1
Nickel	0.0014	J	0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 02:04	1
Potassium	4.2		0.50	0.10	mg/L		07/24/13 08:20	07/25/13 02:04	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 02:04	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 02:04	1
Sodium	33	B	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 02:04	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 02:04	1
Zinc	0.018		0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 02:04	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 07:30	07/24/13 11:54	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 08:00	07/24/13 13:52	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304D**

**Lab Sample ID: 480-42430-3**

Date Collected: 07/22/13 11:30

Matrix: Ground Water

Date Received: 07/23/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		0.50	0.28	mg/L			07/24/13 11:35	1
Sulfate	19		2.0	0.35	mg/L			07/24/13 11:35	1
Alkalinity, Total	300		50	20	mg/L			07/25/13 07:30	5
Ammonia	1.4		0.020	0.0090	mg/L			07/25/13 11:38	1
Total Kjeldahl Nitrogen	2.6		0.20	0.15	mg/L		07/23/13 23:29	07/24/13 12:36	1
Nitrate as N	0.24		0.050	0.020	mg/L			07/23/13 16:38	1
Chemical Oxygen Demand	17		10	5.0	mg/L			07/23/13 17:56	1
Chromium, hexavalent	0.054		0.010	0.0050	mg/L			07/23/13 10:17	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 08:21	07/30/13 15:51	1
Total Organic Carbon	6.6		1.0	0.43	mg/L			07/25/13 20:02	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 09:30	07/24/13 15:52	1
Hardness	390		4.0	1.1	mg/L			07/25/13 08:45	1
Total Dissolved Solids	500		10	4.0	mg/L			07/23/13 20:38	1
Biochemical Oxygen Demand	2.6	b	2.0	2.0	mg/L			07/23/13 16:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	87		1.0	1.0	NTU			07/23/13 15:00	1
Color	20		5.0	5.0	Color Units			07/23/13 16:15	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-303S**

**Lab Sample ID: 480-42430-4**

Date Collected: 07/22/13 13:45

Matrix: Ground Water

Date Received: 07/23/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/23/13 19:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/23/13 19:49	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/23/13 19:49	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/23/13 19:49	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/23/13 19:49	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/23/13 19:49	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/23/13 19:49	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/23/13 19:49	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/23/13 19:49	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/23/13 19:49	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/23/13 19:49	1
Benzene	ND		5.0	0.60	ug/L			07/23/13 19:49	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/23/13 19:49	1
Bromoform	ND		5.0	0.47	ug/L			07/23/13 19:49	1
Bromomethane	ND		5.0	1.2	ug/L			07/23/13 19:49	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/23/13 19:49	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/23/13 19:49	1
Chloroethane	ND		5.0	0.87	ug/L			07/23/13 19:49	1
Chloroform	ND		5.0	0.54	ug/L			07/23/13 19:49	1
Chloromethane	ND		5.0	0.64	ug/L			07/23/13 19:49	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/23/13 19:49	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/23/13 19:49	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/23/13 19:49	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/23/13 19:49	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/23/13 19:49	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/23/13 19:49	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/23/13 19:49	1
o-Xylene	ND		5.0	0.43	ug/L			07/23/13 19:49	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/23/13 19:49	1
Toluene	ND		5.0	0.45	ug/L			07/23/13 19:49	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/23/13 19:49	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/23/13 19:49	1
Trichloroethene	ND		5.0	0.60	ug/L			07/23/13 19:49	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/23/13 19:49	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/23/13 19:49	1
Xylenes, Total	ND		10	1.1	ug/L			07/23/13 19:49	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		72 - 130		07/23/13 19:49	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/23/13 19:49	1
Toluene-d8 (Surr)	99		70 - 123		07/23/13 19:49	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.3		0.20	0.060	mg/L		07/24/13 08:20	07/25/13 00:11	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 00:11	1
Arsenic	0.0059	J	0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 00:11	1
Barium	0.10	B	0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 00:11	1
Beryllium	ND		0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 00:11	1
Boron	0.020	B	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 00:11	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-303S

Lab Sample ID: 480-42430-4

Date Collected: 07/22/13 13:45

Matrix: Ground Water

Date Received: 07/23/13 09:00

### Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 00:11	1
Calcium	120	B	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 00:11	1
Chromium	0.0030	J	0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 00:11	1
Copper	0.016		0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 00:11	1
Iron	8.4		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 00:11	1
Lead	0.0047	J	0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 00:11	1
Magnesium	16		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 00:11	1
Manganese	1.8	B	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 00:11	1
Nickel	0.0061	J	0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 00:11	1
Potassium	2.4	B	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 00:11	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 00:11	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 00:11	1
Sodium	12	B	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 00:11	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 00:11	1
Zinc	0.054	B	0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 00:11	1

### Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.075	J	0.20	0.060	mg/L		07/24/13 08:20	07/25/13 02:21	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 02:21	1
Arsenic	ND		0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 02:21	1
Barium	0.094		0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 02:21	1
Beryllium	ND		0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 02:21	1
Boron	0.019	J B	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 02:21	1
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 02:21	1
Calcium	120	B7	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 02:21	1
Chromium	0.0012	J	0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 02:21	1
Copper	ND		0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 02:21	1
Iron	7.2		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 02:21	1
Lead	ND		0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 02:21	1
Magnesium	15		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 02:21	1
Manganese	1.6	B	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 02:21	1
Nickel	0.0019	J	0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 02:21	1
Potassium	1.9		0.50	0.10	mg/L		07/24/13 08:20	07/25/13 02:21	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 02:21	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 02:21	1
Sodium	12	B	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 02:21	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 02:21	1
Zinc	0.011		0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 02:21	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 07:30	07/24/13 11:56	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 08:00	07/24/13 13:54	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-303S**

**Lab Sample ID: 480-42430-4**

Date Collected: 07/22/13 13:45

Matrix: Ground Water

Date Received: 07/23/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		0.50	0.28	mg/L			07/24/13 11:48	1
Sulfate	1.4	J	2.0	0.35	mg/L			07/24/13 11:48	1
Alkalinity, Total	380		50	20	mg/L			07/25/13 07:30	5
Ammonia	0.44		0.020	0.0090	mg/L			07/25/13 11:39	1
Total Kjeldahl Nitrogen	1.0		0.20	0.15	mg/L		07/23/13 23:29	07/24/13 12:36	1
Nitrate as N	0.086		0.050	0.020	mg/L			07/23/13 16:39	1
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/23/13 17:56	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/23/13 10:17	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 08:21	07/30/13 15:52	1
Total Organic Carbon	3.4		1.0	0.43	mg/L			07/25/13 20:32	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 09:30	07/24/13 15:53	1
Hardness	380		4.0	1.1	mg/L			07/25/13 08:45	1
Total Dissolved Solids	430		10	4.0	mg/L			07/23/13 20:39	1
Biochemical Oxygen Demand	2.5	b	2.0	2.0	mg/L			07/23/13 16:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	70		1.0	1.0	NTU			07/23/13 15:00	1
Color	15		5.0	5.0	Color Units			07/23/13 16:15	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 480-42430-5**

Date Collected: 07/22/13 00:00

Matrix: Water

Date Received: 07/23/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/23/13 20:12	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/23/13 20:12	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/23/13 20:12	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/23/13 20:12	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/23/13 20:12	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/23/13 20:12	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/23/13 20:12	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/23/13 20:12	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/23/13 20:12	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/23/13 20:12	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/23/13 20:12	1
Benzene	ND		5.0	0.60	ug/L			07/23/13 20:12	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/23/13 20:12	1
Bromoform	ND		5.0	0.47	ug/L			07/23/13 20:12	1
Bromomethane	ND		5.0	1.2	ug/L			07/23/13 20:12	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/23/13 20:12	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/23/13 20:12	1
Chloroethane	ND		5.0	0.87	ug/L			07/23/13 20:12	1
Chloroform	ND		5.0	0.54	ug/L			07/23/13 20:12	1
Chloromethane	ND		5.0	0.64	ug/L			07/23/13 20:12	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/23/13 20:12	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/23/13 20:12	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/23/13 20:12	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/23/13 20:12	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/23/13 20:12	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/23/13 20:12	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/23/13 20:12	1
o-Xylene	ND		5.0	0.43	ug/L			07/23/13 20:12	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/23/13 20:12	1
Toluene	ND		5.0	0.45	ug/L			07/23/13 20:12	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/23/13 20:12	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/23/13 20:12	1
Trichloroethene	ND		5.0	0.60	ug/L			07/23/13 20:12	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/23/13 20:12	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/23/13 20:12	1
Xylenes, Total	ND		10	1.1	ug/L			07/23/13 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		72 - 130		07/23/13 20:12	1
4-Bromofluorobenzene (Surr)	102		69 - 121		07/23/13 20:12	1
Toluene-d8 (Surr)	101		70 - 123		07/23/13 20:12	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MS-207SA**

**Lab Sample ID: 480-42488-1**

Date Collected: 07/23/13 08:50

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 10:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 10:35	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 10:35	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 10:35	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 10:35	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 10:35	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 10:35	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 10:35	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 10:35	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 10:35	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 10:35	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 10:35	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 10:35	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 10:35	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 10:35	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 10:35	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 10:35	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 10:35	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 10:35	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 10:35	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 10:35	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 10:35	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 10:35	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 10:35	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 10:35	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 10:35	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 10:35	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 10:35	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 10:35	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 10:35	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 10:35	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 10:35	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 10:35	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 10:35	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 10:35	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 10:35	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		72 - 130		07/25/13 10:35	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/25/13 10:35	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 10:35	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20	0.060	mg/L		07/25/13 08:30	07/26/13 11:27	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 11:27	1
Arsenic	0.039		0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 11:27	1
Barium	0.32		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 11:27	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 11:27	1
Boron	0.039	B	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 21:37	1

TestAmerica Buffalo



# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MS-207SA

Lab Sample ID: 480-42488-1

Date Collected: 07/23/13 08:50

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Calcium</b>	<b>130</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Chromium</b>	<b>0.0024</b>	<b>J B</b>	0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Copper</b>	<b>0.0093</b>	<b>J</b>	0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Iron</b>	<b>21</b>		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 11:27	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Magnesium</b>	<b>25</b>		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Manganese</b>	<b>0.74</b>	<b>B</b>	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Nickel</b>	<b>0.0052</b>	<b>J B</b>	0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Potassium</b>	<b>2.5</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:27	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 11:27	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Sodium</b>	<b>10</b>		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 11:27	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 11:27	1
<b>Zinc</b>	<b>0.031</b>		0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 11:27	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:06	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Arsenic</b>	<b>0.037</b>		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Barium</b>	<b>0.31</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 10:46	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Boron</b>	<b>0.026</b>		0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:06	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Calcium</b>	<b>130</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:06	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:06	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Iron</b>	<b>18</b>		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:06	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Magnesium</b>	<b>24</b>		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Manganese</b>	<b>0.59</b>		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:06	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Potassium</b>	<b>2.2</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:06	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:06	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Sodium</b>	<b>9.5</b>		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:06	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:06	1
<b>Zinc</b>	<b>0.0033</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:06	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:15	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 13:50	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MS-207SA**

Date Collected: 07/23/13 08:50

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-1**

Matrix: Ground Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		0.50	0.28	mg/L			07/25/13 08:04	1
Sulfate	2.9		2.0	0.35	mg/L			07/25/13 08:04	1
Alkalinity, Total	450		100	40	mg/L			07/25/13 18:44	10
Ammonia	0.21		0.020	0.0090	mg/L			07/25/13 12:12	1
Total Kjeldahl Nitrogen	0.59		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 11:56	1
Nitrate as N	0.021	J	0.050	0.020	mg/L			07/24/13 12:37	1
Chemical Oxygen Demand	11		10	5.0	mg/L			07/25/13 09:37	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/24/13 10:05	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 15:35	07/29/13 21:25	1
Total Organic Carbon	2.1		1.0	0.43	mg/L			07/26/13 13:06	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 10:53	1
Hardness	420		4.0	1.1	mg/L			07/25/13 08:45	1
Total Dissolved Solids	480		10	4.0	mg/L			07/24/13 16:36	1
Biochemical Oxygen Demand	2.9	b	2.0	2.0	mg/L			07/24/13 10:01	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	270		1.0	1.0	NTU			07/24/13 12:20	1
Color	50		5.0	5.0	Color Units			07/24/13 14:00	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-234D

Lab Sample ID: 480-42488-2

Date Collected: 07/23/13 13:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

## Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 10:59	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 10:59	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 10:59	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 10:59	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 10:59	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 10:59	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 10:59	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 10:59	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 10:59	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 10:59	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 10:59	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 10:59	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 10:59	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 10:59	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 10:59	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 10:59	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 10:59	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 10:59	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 10:59	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 10:59	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 10:59	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 10:59	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 10:59	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 10:59	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 10:59	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 10:59	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 10:59	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 10:59	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 10:59	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 10:59	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 10:59	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 10:59	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 10:59	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 10:59	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 10:59	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 10:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		72 - 130		07/25/13 10:59	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 10:59	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 10:59	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/26/13 11:30	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 11:30	1
Arsenic	ND		0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 11:30	1
Barium	0.064		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 11:30	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 11:30	1
Boron	0.033	B	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 21:40	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-234D

Lab Sample ID: 480-42488-2

Date Collected: 07/23/13 13:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

### Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 11:30	1
<b>Calcium</b>	<b>96</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:30	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 11:30	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 11:30	1
<b>Iron</b>	<b>0.22</b>		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 11:30	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 11:30	1
<b>Magnesium</b>	<b>16</b>		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 11:30	1
<b>Manganese</b>	<b>0.40</b>	<b>B</b>	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 11:30	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 11:30	1
<b>Potassium</b>	<b>1.4</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:30	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 11:30	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 11:30	1
<b>Sodium</b>	<b>14</b>		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 11:30	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 11:30	1
Zinc	ND		0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 11:30	1

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### Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:14	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:14	1
Arsenic	ND		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Barium</b>	<b>0.065</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/25/13 22:14	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Boron</b>	<b>0.024</b>		0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:14	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Calcium</b>	<b>98</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:14	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:14	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Iron</b>	<b>0.20</b>		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:14	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Magnesium</b>	<b>16</b>		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Manganese</b>	<b>0.41</b>		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:14	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Potassium</b>	<b>1.5</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:14	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:14	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Sodium</b>	<b>15</b>		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:14	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:14	1
<b>Zinc</b>	<b>0.0041</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:14	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:22	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 14:35	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-234D**

**Lab Sample ID: 480-42488-2**

Date Collected: 07/23/13 13:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		0.50	0.28	mg/L			07/25/13 08:14	1
Sulfate	66		2.0	0.35	mg/L			07/25/13 08:14	1
Alkalinity, Total	230		100	40	mg/L			07/25/13 17:40	10
Ammonia	0.070		0.020	0.0090	mg/L			07/25/13 12:13	1
Total Kjeldahl Nitrogen	1.7		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 11:49	1
Nitrate as N	ND		0.050	0.020	mg/L			07/24/13 12:38	1
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/25/13 09:38	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/24/13 10:05	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 15:35	07/29/13 21:26	1
Total Organic Carbon	0.77	J	1.0	0.43	mg/L			07/26/13 13:33	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 10:53	1
Hardness	300		4.0	1.1	mg/L			07/25/13 08:45	1
Total Dissolved Solids	380		10	4.0	mg/L			07/24/13 16:37	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 10:01	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	2.3		1.0	1.0	NTU			07/24/13 12:20	1
Color	ND		5.0	5.0	Color Units			07/24/13 14:00	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-207D

Lab Sample ID: 480-42488-3

Date Collected: 07/23/13 08:20

Matrix: Ground Water

Date Received: 07/24/13 09:00

### Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 11:22	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 11:22	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 11:22	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 11:22	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 11:22	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 11:22	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 11:22	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 11:22	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 11:22	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 11:22	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 11:22	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 11:22	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 11:22	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 11:22	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 11:22	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 11:22	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 11:22	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 11:22	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 11:22	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 11:22	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 11:22	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 11:22	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 11:22	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 11:22	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 11:22	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 11:22	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 11:22	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 11:22	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 11:22	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 11:22	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 11:22	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 11:22	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 11:22	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 11:22	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 11:22	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 11:22	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		72 - 130		07/25/13 11:22	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 11:22	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 11:22	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.18	J	0.20	0.060	mg/L		07/25/13 08:30	07/26/13 11:32	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 11:32	1
Arsenic	0.057		0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 11:32	1
Barium	0.093		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 11:32	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 11:32	1
Boron	0.032	B	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 21:43	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-207D

Lab Sample ID: 480-42488-3

Date Collected: 07/23/13 08:20

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Calcium</b>	<b>120</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Chromium</b>	<b>0.0012</b>	<b>J B</b>	0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Copper</b>	<b>0.0023</b>	<b>J</b>	0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Iron</b>	<b>3.5</b>		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 11:32	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Magnesium</b>	<b>23</b>		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Manganese</b>	<b>1.7</b>	<b>B</b>	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 11:32	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Potassium</b>	<b>1.2</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:32	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 11:32	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Sodium</b>	<b>8.7</b>		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 11:32	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 11:32	1
<b>Zinc</b>	<b>0.026</b>		0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 11:32	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:16	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Arsenic</b>	<b>0.049</b>		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Barium</b>	<b>0.089</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/25/13 22:16	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Boron</b>	<b>0.023</b>		0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:16	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Calcium</b>	<b>120</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:16	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:16	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Iron</b>	<b>1.9</b>		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:16	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Magnesium</b>	<b>23</b>		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Manganese</b>	<b>1.6</b>		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:16	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Potassium</b>	<b>1.1</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:16	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:16	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Sodium</b>	<b>9.1</b>		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:16	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:16	1
<b>Zinc</b>	<b>0.0047</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:16	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:23	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 14:38	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-207D**

**Lab Sample ID: 480-42488-3**

Date Collected: 07/23/13 08:20

Matrix: Ground Water

Date Received: 07/24/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		0.50	0.28	mg/L			07/25/13 08:24	1
Sulfate	92		2.0	0.35	mg/L			07/25/13 08:24	1
Alkalinity, Total	290		100	40	mg/L			07/25/13 17:40	10
Ammonia	0.067		0.020	0.0090	mg/L			07/25/13 12:14	1
Total Kjeldahl Nitrogen	0.28		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 11:49	1
Nitrate as N	0.17		0.050	0.020	mg/L			07/24/13 14:49	1
Chemical Oxygen Demand	5.5	J	10	5.0	mg/L			07/25/13 09:39	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/24/13 10:05	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 15:35	07/29/13 21:27	1
Total Organic Carbon	1.4		1.0	0.43	mg/L			07/26/13 14:02	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 10:54	1
Hardness	370		4.0	1.1	mg/L			07/25/13 08:45	1
Total Dissolved Solids	460		10	4.0	mg/L			07/24/13 16:38	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 10:01	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	51		1.0	1.0	NTU			07/24/13 12:20	1
Color	200		20	20	Color Units			07/24/13 14:00	4

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-303D**

**Lab Sample ID: 480-42488-4**

Date Collected: 07/23/13 07:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 11:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 11:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 11:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 11:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 11:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 11:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 11:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 11:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 11:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 11:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 11:45	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 11:45	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 11:45	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 11:45	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 11:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 11:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 11:45	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 11:45	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 11:45	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 11:45	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 11:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 11:45	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 11:45	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 11:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 11:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 11:45	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 11:45	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 11:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 11:45	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 11:45	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 11:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 11:45	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 11:45	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 11:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 11:45	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		72 - 130		07/25/13 11:45	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 11:45	1
Toluene-d8 (Surr)	99		70 - 123		07/25/13 11:45	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.16	J	0.20	0.060	mg/L		07/25/13 08:30	07/26/13 11:50	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 11:50	1
Arsenic	0.011		0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 11:50	1
Barium	0.039		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 11:50	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 11:50	1
Boron	0.38	B	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 21:50	1

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## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-303D**

**Lab Sample ID: 480-42488-4**

Date Collected: 07/23/13 07:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 11:50	1
Calcium	50	B	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:50	1
Chromium	0.0056	B	0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 11:50	1
Copper	0.0033	J	0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 11:50	1
Iron	0.51		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 11:50	1
Lead	0.0056		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 11:50	1
Magnesium	18		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 11:50	1
Manganese	0.040	B	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 11:50	1
Nickel	0.0072	J B	0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 11:50	1
Potassium	4.4	B	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:50	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 11:50	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 11:50	1
Sodium	180		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 11:50	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 11:50	1
Zinc	0.063		0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 11:50	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:29	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:29	1
Arsenic	ND		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:29	1
Barium	0.030		0.0020	0.00070	mg/L		07/25/13 08:30	07/25/13 22:29	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:29	1
Boron	0.36		0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:29	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:29	1
Calcium	51		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:29	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:29	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:29	1
Iron	0.046	J	0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:29	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:29	1
Magnesium	19		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:29	1
Manganese	0.019		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:29	1
Nickel	0.0051	J	0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:29	1
Potassium	3.9		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:29	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:29	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:29	1
Sodium	170		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:29	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:29	1
Zinc	0.013		0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:29	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:25	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 14:39	1

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## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-303D**

**Lab Sample ID: 480-42488-4**

Date Collected: 07/23/13 07:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		2.5	1.4	mg/L			07/25/13 19:46	5
Sulfate	100		10	1.7	mg/L			07/25/13 19:46	5
Alkalinity, Total	220		100	40	mg/L			07/25/13 17:27	10
Ammonia	0.42		0.020	0.0090	mg/L			07/25/13 12:15	1
Total Kjeldahl Nitrogen	0.98		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 11:49	1
Nitrate as N	0.30		0.050	0.020	mg/L			07/24/13 14:50	1
Chemical Oxygen Demand	30		10	5.0	mg/L			07/25/13 09:44	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/24/13 10:05	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 15:35	07/29/13 21:28	1
Total Organic Carbon	1.3		1.0	0.43	mg/L			07/26/13 14:29	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 10:54	1
Hardness	200		4.0	1.1	mg/L			07/25/13 08:45	1
Total Dissolved Solids	660		10	4.0	mg/L			07/24/13 16:39	1
Biochemical Oxygen Demand	2.0	b	2.0	2.0	mg/L			07/24/13 15:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	11		1.0	1.0	NTU			07/24/13 12:20	1
Color	15		5.0	5.0	Color Units			07/24/13 14:00	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-230S**

**Lab Sample ID: 480-42488-5**

Date Collected: 07/23/13 09:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

### Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 12:08	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 12:08	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 12:08	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 12:08	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 12:08	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 12:08	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 12:08	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 12:08	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 12:08	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 12:08	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 12:08	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 12:08	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 12:08	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 12:08	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 12:08	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 12:08	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 12:08	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 12:08	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 12:08	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 12:08	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 12:08	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 12:08	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 12:08	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 12:08	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 12:08	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 12:08	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 12:08	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 12:08	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 12:08	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 12:08	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 12:08	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 12:08	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 12:08	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 12:08	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 12:08	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 12:08	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		72 - 130		07/25/13 12:08	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 12:08	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 12:08	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.67		0.20	0.060	mg/L		07/25/13 08:30	07/26/13 11:52	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 11:52	1
Arsenic	0.0093	J	0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 11:52	1
Barium	0.095		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 11:52	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 11:52	1
Boron	0.018	J B	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 21:53	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-230S**

**Lab Sample ID: 480-42488-5**

Date Collected: 07/23/13 09:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Calcium</b>	<b>86</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Chromium</b>	<b>0.0013</b>	<b>J B</b>	0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Copper</b>	<b>0.0033</b>	<b>J</b>	0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Iron</b>	<b>1.1</b>		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 11:52	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Magnesium</b>	<b>13</b>		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Manganese</b>	<b>0.47</b>	<b>B</b>	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 11:52	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Potassium</b>	<b>1.0</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:52	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 11:52	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Sodium</b>	<b>12</b>		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 11:52	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 11:52	1
<b>Zinc</b>	<b>0.0083</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 11:52	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:31	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Arsenic</b>	<b>0.0059</b>	<b>J</b>	0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Barium</b>	<b>0.090</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/25/13 22:31	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Boron</b>	<b>0.012</b>	<b>J</b>	0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:31	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Calcium</b>	<b>84</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:31	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:31	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Iron</b>	<b>0.064</b>		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:31	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Magnesium</b>	<b>12</b>		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Manganese</b>	<b>0.34</b>		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:31	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Potassium</b>	<b>0.75</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:31	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:31	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Sodium</b>	<b>12</b>		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:31	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:31	1
<b>Zinc</b>	<b>0.0025</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:31	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:27	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 14:41	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-230S**

Date Collected: 07/23/13 09:30

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-5**

Matrix: Ground Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54		0.50	0.28	mg/L			07/25/13 08:44	1
Sulfate	37		2.0	0.35	mg/L			07/25/13 08:44	1
Alkalinity, Total	120		100	40	mg/L			07/25/13 17:27	10
Ammonia	0.079		0.020	0.0090	mg/L			07/25/13 12:16	1
Total Kjeldahl Nitrogen	0.24		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 11:49	1
Nitrate as N	0.071		0.050	0.020	mg/L			07/24/13 14:51	1
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/25/13 09:45	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/24/13 10:05	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 15:35	07/29/13 21:29	1
Total Organic Carbon	ND		1.0	0.43	mg/L			07/26/13 14:56	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 10:54	1
Hardness	270		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	330		10	4.0	mg/L			07/24/13 16:40	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 15:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	83		1.0	1.0	NTU			07/24/13 12:20	1
Color	10		5.0	5.0	Color Units			07/24/13 14:00	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-312S**

**Lab Sample ID: 480-42488-6**

Date Collected: 07/23/13 11:10

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 12:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 12:32	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 12:32	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 12:32	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 12:32	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 12:32	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 12:32	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 12:32	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 12:32	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 12:32	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 12:32	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 12:32	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 12:32	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 12:32	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 12:32	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 12:32	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 12:32	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 12:32	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 12:32	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 12:32	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 12:32	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 12:32	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 12:32	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 12:32	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 12:32	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 12:32	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 12:32	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 12:32	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 12:32	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 12:32	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 12:32	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 12:32	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 12:32	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 12:32	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 12:32	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		72 - 130		07/25/13 12:32	1
4-Bromofluorobenzene (Surr)	105		69 - 121		07/25/13 12:32	1
Toluene-d8 (Surr)	99		70 - 123		07/25/13 12:32	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.1		0.20	0.060	mg/L		07/25/13 08:30	07/26/13 11:55	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 11:55	1
Arsenic	0.0059	J	0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 11:55	1
Barium	0.052		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 11:55	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 11:55	1
Boron	0.023	B	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 21:55	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-312S**

**Lab Sample ID: 480-42488-6**

Date Collected: 07/23/13 11:10

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Calcium</b>	<b>81</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Chromium</b>	<b>0.0043</b>	<b>B</b>	0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Copper</b>	<b>0.012</b>		0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Iron</b>	<b>3.5</b>		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 11:55	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Magnesium</b>	<b>13</b>		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Manganese</b>	<b>0.39</b>	<b>B</b>	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Nickel</b>	<b>0.0058</b>	<b>J B</b>	0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Potassium</b>	<b>2.1</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:55	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 11:55	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Sodium</b>	<b>1.6</b>		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 11:55	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 11:55	1
<b>Zinc</b>	<b>0.028</b>		0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 11:55	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:34	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:34	1
Arsenic	ND		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:34	1
<b>Barium</b>	<b>0.026</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/25/13 22:34	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:34	1
<b>Boron</b>	<b>0.011</b>	<b>J</b>	0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:34	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:34	1
<b>Calcium</b>	<b>75</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:34	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:34	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:34	1
Iron	ND		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:34	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:34	1
<b>Magnesium</b>	<b>11</b>		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:34	1
<b>Manganese</b>	<b>0.0050</b>		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:34	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:34	1
<b>Potassium</b>	<b>1.1</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:34	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:34	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:34	1
<b>Sodium</b>	<b>1.7</b>		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:34	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:34	1
<b>Zinc</b>	<b>0.010</b>		0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:34	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:29	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 14:43	1

TestAmerica Buffalo



## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-312S**

**Lab Sample ID: 480-42488-6**

Date Collected: 07/23/13 11:10

Matrix: Ground Water

Date Received: 07/24/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.56		0.50	0.28	mg/L			07/25/13 09:25	1
Sulfate	14		2.0	0.35	mg/L			07/25/13 09:25	1
Alkalinity, Total	200		100	40	mg/L			07/25/13 12:51	10
Ammonia	0.095		0.020	0.0090	mg/L			07/25/13 12:17	1
Total Kjeldahl Nitrogen	0.57		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 11:43	1
Nitrate as N	0.11		0.050	0.020	mg/L			07/24/13 14:52	1
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/25/13 09:46	1
Chromium, hexavalent	ND		0.050	0.025	mg/L			07/24/13 10:05	5
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 15:35	07/29/13 21:30	1
Total Organic Carbon	0.47	J	1.0	0.43	mg/L			07/26/13 17:12	1
Phenolics, Total Recoverable	0.0059	J	0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 10:54	1
Hardness	260		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	250		10	4.0	mg/L			07/24/13 16:41	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 15:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	750		1.0	1.0	NTU			07/24/13 12:20	1
Color	40		20	20	Color Units			07/24/13 14:00	4

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-223S**

**Lab Sample ID: 480-42488-7**

Date Collected: 07/23/13 15:50

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 12:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 12:55	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 12:55	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 12:55	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 12:55	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 12:55	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 12:55	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 12:55	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 12:55	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 12:55	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 12:55	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 12:55	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 12:55	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 12:55	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 12:55	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 12:55	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 12:55	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 12:55	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 12:55	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 12:55	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 12:55	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 12:55	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 12:55	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 12:55	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 12:55	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 12:55	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 12:55	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 12:55	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 12:55	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 12:55	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 12:55	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 12:55	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 12:55	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 12:55	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 12:55	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 12:55	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		72 - 130		07/25/13 12:55	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 12:55	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 12:55	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.60		0.20	0.060	mg/L		07/25/13 08:30	07/26/13 11:57	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 11:57	1
Arsenic	0.028		0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 11:57	1
Barium	0.19		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 11:57	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 11:57	1
Boron	0.029	B	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 21:58	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-223S

Lab Sample ID: 480-42488-7

Date Collected: 07/23/13 15:50

Matrix: Ground Water

Date Received: 07/24/13 09:00

### Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Calcium</b>	<b>130</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Chromium</b>	<b>0.0018</b>	<b>J B</b>	0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Copper</b>	<b>0.0019</b>	<b>J</b>	0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Iron</b>	<b>8.5</b>		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 11:57	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Magnesium</b>	<b>30</b>		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Manganese</b>	<b>2.0</b>	<b>B</b>	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Nickel</b>	<b>0.0015</b>	<b>J B</b>	0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Potassium</b>	<b>1.7</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:57	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 11:57	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Sodium</b>	<b>13</b>		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 11:57	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 11:57	1
<b>Zinc</b>	<b>0.029</b>		0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 11:57	1

### Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:36	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Arsenic</b>	<b>0.025</b>		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Barium</b>	<b>0.18</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/25/13 22:36	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Boron</b>	<b>0.021</b>		0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:36	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Calcium</b>	<b>130</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:36	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Iron</b>	<b>8.6</b>		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:36	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Magnesium</b>	<b>30</b>		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Manganese</b>	<b>2.0</b>		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:36	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Potassium</b>	<b>1.2</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:36	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:36	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Sodium</b>	<b>13</b>		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:36	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:36	1
<b>Zinc</b>	<b>0.0062</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:36	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:31	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 14:46	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-223S**

**Lab Sample ID: 480-42488-7**

Date Collected: 07/23/13 15:50

Matrix: Ground Water

Date Received: 07/24/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		0.50	0.28	mg/L			07/25/13 09:35	1
Sulfate	41		2.0	0.35	mg/L			07/25/13 09:35	1
Alkalinity, Total	420		100	40	mg/L			07/25/13 12:51	10
Ammonia	0.093		0.020	0.0090	mg/L			07/25/13 12:18	1
Total Kjeldahl Nitrogen	0.31		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 11:43	1
Nitrate as N	0.21		0.050	0.020	mg/L			07/24/13 14:53	1
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/25/13 09:47	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/24/13 10:05	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 15:35	07/29/13 21:31	1
Total Organic Carbon	1.8		1.0	0.43	mg/L			07/26/13 17:40	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 10:54	1
Hardness	440		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	520		10	4.0	mg/L			07/24/13 16:42	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 15:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	190		1.0	1.0	NTU			07/24/13 12:20	1
Color	40		10	10	Color Units			07/24/13 14:00	2

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-232S

Lab Sample ID: 480-42488-8

Date Collected: 07/23/13 14:45

Matrix: Ground Water

Date Received: 07/24/13 09:00

## Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 13:19	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 13:19	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 13:19	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 13:19	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 13:19	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 13:19	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 13:19	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 13:19	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 13:19	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 13:19	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 13:19	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 13:19	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 13:19	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 13:19	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 13:19	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 13:19	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 13:19	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 13:19	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 13:19	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 13:19	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 13:19	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 13:19	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 13:19	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 13:19	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 13:19	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 13:19	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 13:19	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 13:19	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 13:19	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 13:19	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 13:19	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 13:19	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 13:19	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 13:19	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 13:19	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		72 - 130		07/25/13 13:19	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/25/13 13:19	1
Toluene-d8 (Surr)	99		70 - 123		07/25/13 13:19	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.17	J	0.20	0.060	mg/L		07/25/13 08:30	07/26/13 12:00	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 12:00	1
Arsenic	0.048		0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 12:00	1
Barium	0.14		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 12:00	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 12:00	1
Boron	0.017	J B	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 22:00	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-232S**

**Lab Sample ID: 480-42488-8**

Date Collected: 07/23/13 14:45

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 12:00	1
<b>Calcium</b>	<b>100</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 12:00	1
<b>Chromium</b>	<b>0.0011</b>	<b>J B</b>	0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 12:00	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 12:00	1
<b>Iron</b>	<b>5.1</b>		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 12:00	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 12:00	1
<b>Magnesium</b>	<b>16</b>		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 12:00	1
<b>Manganese</b>	<b>0.92</b>	<b>B</b>	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 12:00	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 12:00	1
<b>Potassium</b>	<b>1.3</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 12:00	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 12:00	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 12:00	1
<b>Sodium</b>	<b>3.8</b>		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 12:00	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 12:00	1
<b>Zinc</b>	<b>0.011</b>		0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 12:00	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:44	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Arsenic</b>	<b>0.038</b>		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Barium</b>	<b>0.14</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/25/13 22:44	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Boron</b>	<b>0.013</b>	<b>J</b>	0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:44	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Calcium</b>	<b>110</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:44	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:44	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Iron</b>	<b>4.4</b>		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:44	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Magnesium</b>	<b>16</b>		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Manganese</b>	<b>0.91</b>		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:44	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Potassium</b>	<b>1.2</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:44	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:44	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Sodium</b>	<b>4.0</b>		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:44	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:44	1
<b>Zinc</b>	<b>0.0051</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:44	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:36	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 14:48	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-232S**

**Lab Sample ID: 480-42488-8**

Date Collected: 07/23/13 14:45

Matrix: Ground Water

Date Received: 07/24/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		0.50	0.28	mg/L			07/25/13 09:49	1
Sulfate	72		2.0	0.35	mg/L			07/25/13 09:49	1
Alkalinity, Total	230		100	40	mg/L			07/25/13 12:44	10
Ammonia	0.078		0.020	0.0090	mg/L			07/25/13 12:19	1
Total Kjeldahl Nitrogen	0.36		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 11:43	1
Nitrate as N	0.12		0.050	0.020	mg/L			07/24/13 14:54	1
Chemical Oxygen Demand	6.2	J	10	5.0	mg/L			07/25/13 09:49	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/24/13 10:05	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 08:21	07/30/13 15:55	1
Total Organic Carbon	1.8		1.0	0.43	mg/L			07/26/13 18:07	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 10:54	1
Hardness	320		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	370		10	4.0	mg/L			07/24/13 16:43	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 15:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	83		1.0	1.0	NTU			07/24/13 12:20	1
Color	100		20	20	Color Units			07/24/13 14:00	4

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-233S**

**Lab Sample ID: 480-42488-9**

Date Collected: 07/23/13 12:10

Matrix: Ground Water

Date Received: 07/24/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 13:42	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 13:42	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 13:42	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 13:42	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 13:42	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 13:42	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 13:42	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 13:42	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 13:42	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 13:42	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 13:42	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 13:42	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 13:42	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 13:42	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 13:42	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 13:42	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 13:42	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 13:42	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 13:42	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 13:42	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 13:42	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 13:42	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 13:42	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 13:42	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 13:42	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 13:42	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 13:42	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 13:42	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 13:42	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 13:42	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 13:42	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 13:42	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 13:42	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 13:42	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 13:42	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 13:42	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		72 - 130		07/25/13 13:42	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 13:42	1
Toluene-d8 (Surr)	97		70 - 123		07/25/13 13:42	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/26/13 12:02	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 12:02	1
Arsenic	ND		0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Barium</b>	<b>0.077</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 12:02	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Boron</b>	<b>0.021</b>	<b>B</b>	0.020	0.0040	mg/L		07/31/13 11:10	07/31/13 22:03	1

TestAmerica Buffalo



## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-233S

Lab Sample ID: 480-42488-9

Date Collected: 07/23/13 12:10

Matrix: Ground Water

Date Received: 07/24/13 09:00

### Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Calcium</b>	<b>120</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 12:02	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Copper</b>	<b>0.0023</b>	<b>J</b>	0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Iron</b>	<b>0.023</b>	<b>J</b>	0.050	0.019	mg/L		07/25/13 08:30	07/26/13 12:02	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Magnesium</b>	<b>34</b>		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Manganese</b>	<b>0.29</b>	<b>B</b>	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 12:02	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Potassium</b>	<b>2.4</b>	<b>B</b>	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 12:02	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 12:02	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Sodium</b>	<b>1.5</b>		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 12:02	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 12:02	1
<b>Zinc</b>	<b>0.0026</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 12:02	1

### Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>0.086</b>	<b>J</b>	0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:46	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:46	1
Arsenic	ND		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:46	1
<b>Barium</b>	<b>0.078</b>		0.0020	0.00070	mg/L		07/25/13 08:30	07/25/13 22:46	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:46	1
<b>Boron</b>	<b>0.020</b>		0.020	0.0040	mg/L		07/25/13 08:30	07/25/13 22:46	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:46	1
<b>Calcium</b>	<b>130</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:46	1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:46	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:46	1
Iron	ND		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:46	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:46	1
<b>Magnesium</b>	<b>35</b>		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:46	1
<b>Manganese</b>	<b>0.092</b>		0.0030	0.00040	mg/L		07/25/13 08:30	07/25/13 22:46	1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:46	1
<b>Potassium</b>	<b>2.4</b>		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:46	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:46	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:46	1
<b>Sodium</b>	<b>1.6</b>		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:46	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:46	1
<b>Zinc</b>	<b>0.0077</b>	<b>J</b>	0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:46	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:38	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 14:49	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-233S**

**Lab Sample ID: 480-42488-9**

Date Collected: 07/23/13 12:10

Matrix: Ground Water

Date Received: 07/24/13 09:00

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		0.50	0.28	mg/L			07/25/13 09:59	1
Sulfate	59		2.0	0.35	mg/L			07/25/13 09:59	1
Alkalinity, Total	330		100	40	mg/L			07/25/13 12:44	10
Ammonia	0.024		0.020	0.0090	mg/L			07/25/13 12:24	1
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		07/26/13 06:33	07/26/13 12:25	1
Nitrate as N	7.7		0.050	0.020	mg/L			07/24/13 14:56	1
Chemical Oxygen Demand	6.8	J	10	5.0	mg/L			07/25/13 09:50	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/24/13 10:05	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 10:05	07/30/13 16:10	1
Total Organic Carbon	2.9		1.0	0.43	mg/L			07/26/13 18:35	1
Phenolics, Total Recoverable	0.0052	J	0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 11:02	1
Hardness	430		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	500		10	4.0	mg/L			07/24/13 16:44	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 15:33	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	4.0		1.0	1.0	NTU			07/24/13 12:20	1
Color	10		5.0	5.0	Color Units			07/24/13 14:00	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 480-42488-10**

Date Collected: 07/23/13 00:00

Matrix: Water

Date Received: 07/24/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 14:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 14:05	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 14:05	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 14:05	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 14:05	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 14:05	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 14:05	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 14:05	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 14:05	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 14:05	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 14:05	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 14:05	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 14:05	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 14:05	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 14:05	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 14:05	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 14:05	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 14:05	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 14:05	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 14:05	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 14:05	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 14:05	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 14:05	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 14:05	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 14:05	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 14:05	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 14:05	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 14:05	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 14:05	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 14:05	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 14:05	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 14:05	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 14:05	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 14:05	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 14:05	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 14:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	119		72 - 130					07/25/13 14:05	1
4-Bromofluorobenzene (Surr)	104		69 - 121					07/25/13 14:05	1
Toluene-d8 (Surr)	98		70 - 123					07/25/13 14:05	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-3B**

**Lab Sample ID: 480-42572-1**

Date Collected: 07/24/13 15:05

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 19:33	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 19:33	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 19:33	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 19:33	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 19:33	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 19:33	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 19:33	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 19:33	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 19:33	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 19:33	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 19:33	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 19:33	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 19:33	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 19:33	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 19:33	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 19:33	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 19:33	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 19:33	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 19:33	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 19:33	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 19:33	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 19:33	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 19:33	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 19:33	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 19:33	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 19:33	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 19:33	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 19:33	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 19:33	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 19:33	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 19:33	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 19:33	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 19:33	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 19:33	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 19:33	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 19:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		72 - 130					07/25/13 19:33	1
4-Bromofluorobenzene (Surr)	103		69 - 121					07/25/13 19:33	1
Toluene-d8 (Surr)	97		70 - 123					07/25/13 19:33	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.14	J	0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:20	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:20	1
Arsenic	0.056		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:20	1
Barium	0.39		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:20	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:20	1
Boron	0.25	B	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:20	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-3B

Lab Sample ID: 480-42572-1

Date Collected: 07/24/13 15:05

Matrix: Ground Water

Date Received: 07/25/13 09:00

### Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:20	1
Calcium	160		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:20	1
Chromium	0.0010	J	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:20	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:20	1
Iron	1.9		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:20	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:20	1
Magnesium	41		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:20	1
Manganese	1.1	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:20	1
Nickel	0.0080	J	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:20	1
Potassium	5.6	B	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:20	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:20	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:20	1
Sodium	64	B	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:20	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:20	1
Zinc	0.012		0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:20	1

### Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 18:49	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 18:49	1
Arsenic	0.055		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 18:49	1
Barium	0.39		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 18:49	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 18:49	1
Boron	0.25		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 18:49	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 18:49	1
Calcium	160		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 18:49	1
Chromium	0.0011	J	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 18:49	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 18:49	1
Iron	1.8		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 18:49	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 18:49	1
Magnesium	41		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 18:49	1
Manganese	1.0	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 18:49	1
Nickel	0.0077	J	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 18:49	1
Potassium	5.4		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 18:49	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 18:49	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 18:49	1
Sodium	63		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 18:49	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 18:49	1
Zinc	0.0033	J	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 18:49	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 12:50	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 15:15	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-3B**

Date Collected: 07/24/13 15:05

Date Received: 07/25/13 09:00

**Lab Sample ID: 480-42572-1**

Matrix: Ground Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68		0.50	0.28	mg/L			07/26/13 00:23	1
Sulfate	36		2.0	0.35	mg/L			07/26/13 00:23	1
Alkalinity, Total	600		100	40	mg/L			07/25/13 17:47	10
Ammonia	4.4		0.10	0.045	mg/L			07/26/13 15:48	5
Total Kjeldahl Nitrogen	4.2		0.20	0.15	mg/L		07/26/13 06:33	07/26/13 12:25	1
Nitrate as N	0.14		0.050	0.020	mg/L			07/25/13 12:54	1
Chemical Oxygen Demand	24		10	5.0	mg/L			07/27/13 10:55	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/25/13 09:47	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/25/13 18:23	07/26/13 13:54	1
Total Organic Carbon	4.4		1.0	0.43	mg/L			07/27/13 02:53	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 10:30	07/27/13 11:26	1
Hardness	550		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	730		10	4.0	mg/L			07/25/13 18:20	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 01:31	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	18		1.0	1.0	NTU			07/25/13 12:00	1
Color	5.0		5.0	5.0	Color Units			07/25/13 12:25	1

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## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-221S**

**Lab Sample ID: 480-42572-2**

Date Collected: 07/24/13 09:30

Matrix: Ground Water

Date Received: 07/25/13 09:00

### Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 19:56	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 19:56	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 19:56	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 19:56	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 19:56	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 19:56	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 19:56	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 19:56	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 19:56	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 19:56	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 19:56	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 19:56	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 19:56	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 19:56	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 19:56	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 19:56	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 19:56	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 19:56	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 19:56	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 19:56	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 19:56	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 19:56	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 19:56	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 19:56	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 19:56	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 19:56	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 19:56	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 19:56	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 19:56	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 19:56	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 19:56	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 19:56	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 19:56	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 19:56	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 19:56	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		72 - 130		07/25/13 19:56	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/25/13 19:56	1
Toluene-d8 (Surr)	100		70 - 123		07/25/13 19:56	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>3.5</b>		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:23	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:23	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:23	1
<b>Barium</b>	<b>0.23</b>		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:23	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:23	1
<b>Boron</b>	<b>0.043</b>	<b>B</b>	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:23	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-221S**

**Lab Sample ID: 480-42572-2**

Date Collected: 07/24/13 09:30

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:23	1
Calcium	200		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:23	1
Chromium	0.0049		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:23	1
Copper	0.0059	J	0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:23	1
Iron	3.0		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:23	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:23	1
Magnesium	23		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:23	1
Manganese	0.31	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:23	1
Nickel	0.0038	J	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:23	1
Potassium	3.9	B	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:23	1
Selenium	0.012	J	0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:23	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:23	1
Sodium	19	B	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:23	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:23	1
Zinc	0.013		0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:23	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 19:02	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 19:02	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 19:02	1
Barium	0.21		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 19:02	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 19:02	1
Boron	0.042		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 19:02	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 19:02	1
Calcium	210		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:02	1
Chromium	0.0013	J	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 19:02	1
Copper	0.0019	J	0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 19:02	1
Iron	ND		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 19:02	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 19:02	1
Magnesium	23		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 19:02	1
Manganese	0.00049	J B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 19:02	1
Nickel	ND		0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 19:02	1
Potassium	2.9		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:02	1
Selenium	0.012	J	0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 19:02	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 19:02	1
Sodium	20		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 19:02	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 19:02	1
Zinc	0.0036	J	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 19:02	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 12:51	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 15:21	1

TestAmerica Buffalo



## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-221S**

**Lab Sample ID: 480-42572-2**

Date Collected: 07/24/13 09:30

Matrix: Ground Water

Date Received: 07/25/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		0.50	0.28	mg/L			07/26/13 00:36	1
Sulfate	89		2.0	0.35	mg/L			07/26/13 00:36	1
Alkalinity, Total	560		100	40	mg/L			07/25/13 18:44	10
Ammonia	0.017	J	0.020	0.0090	mg/L			07/26/13 13:49	1
Total Kjeldahl Nitrogen	0.48		0.20	0.15	mg/L		07/26/13 06:33	07/26/13 12:13	1
Nitrate as N	0.91		0.050	0.020	mg/L			07/25/13 12:49	1
Chemical Oxygen Demand	5.5	J	10	5.0	mg/L			07/27/13 10:55	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/25/13 09:47	1
Cyanide, Total	ND	*	0.010	0.0050	mg/L		07/25/13 18:23	07/26/13 13:54	1
Total Organic Carbon	1.9		1.0	0.43	mg/L			07/27/13 03:23	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 10:30	07/27/13 11:26	1
Hardness	600		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	750		10	4.0	mg/L			07/25/13 18:20	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/25/13 10:22	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	240		1.0	1.0	NTU			07/25/13 12:00	1
Color	20		5.0	5.0	Color Units			07/25/13 12:25	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-223D**

**Lab Sample ID: 480-42572-3**

Date Collected: 07/24/13 08:00

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 20:19	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 20:19	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 20:19	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 20:19	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 20:19	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 20:19	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 20:19	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 20:19	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 20:19	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 20:19	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 20:19	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 20:19	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 20:19	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 20:19	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 20:19	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 20:19	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 20:19	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 20:19	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 20:19	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 20:19	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 20:19	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 20:19	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 20:19	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 20:19	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 20:19	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 20:19	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 20:19	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 20:19	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 20:19	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 20:19	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 20:19	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 20:19	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 20:19	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 20:19	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 20:19	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 20:19	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		72 - 130		07/25/13 20:19	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 20:19	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 20:19	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.3		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:25	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:25	1
Arsenic	0.024		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:25	1
Barium	0.086		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:25	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:25	1
Boron	0.028	B	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:25	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-223D

Lab Sample ID: 480-42572-3

Date Collected: 07/24/13 08:00

Matrix: Ground Water

Date Received: 07/25/13 09:00

### Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:25	1
Calcium	150		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:25	1
Chromium	0.0041		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:25	1
Copper	0.0025	J	0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:25	1
Iron	4.3		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:25	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:25	1
Magnesium	34		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:25	1
Manganese	1.6	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:25	1
Nickel	0.0023	J	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:25	1
Potassium	2.0	B	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:25	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:25	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:25	1
Sodium	13	B	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:25	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:25	1
Zinc	0.010		0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:25	1

### Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 19:04	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 19:04	1
Arsenic	0.022		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 19:04	1
Barium	0.066		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 19:04	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 19:04	1
Boron	0.026		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 19:04	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 19:04	1
Calcium	150		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:04	1
Chromium	0.0019	J	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 19:04	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 19:04	1
Iron	2.2		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 19:04	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 19:04	1
Magnesium	33		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 19:04	1
Manganese	1.5	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 19:04	1
Nickel	ND		0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 19:04	1
Potassium	1.1		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:04	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 19:04	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 19:04	1
Sodium	12		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 19:04	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 19:04	1
Zinc	0.0044	J	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 19:04	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 12:56	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 15:22	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-223D**

**Lab Sample ID: 480-42572-3**

Date Collected: 07/24/13 08:00

Matrix: Ground Water

Date Received: 07/25/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		0.50	0.28	mg/L			07/26/13 00:49	1
Sulfate	74		2.0	0.35	mg/L			07/26/13 00:49	1
Alkalinity, Total	460		100	40	mg/L			07/25/13 18:46	10
Ammonia	0.047		0.020	0.0090	mg/L			07/26/13 13:50	1
Total Kjeldahl Nitrogen	0.18	J	0.20	0.15	mg/L		07/26/13 06:33	07/26/13 12:13	1
Nitrate as N	0.037	J	0.050	0.020	mg/L			07/25/13 12:01	1
Chemical Oxygen Demand	5.2	J	10	5.0	mg/L			07/27/13 10:55	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/25/13 09:47	1
Cyanide, Total	ND	*	0.010	0.0050	mg/L		07/25/13 18:23	07/26/13 13:52	1
Total Organic Carbon	2.0		1.0	0.43	mg/L			07/27/13 03:52	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 10:30	07/27/13 11:18	1
Hardness	500		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	580		10	4.0	mg/L			07/25/13 18:20	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/25/13 10:22	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	93		1.0	1.0	NTU			07/25/13 12:00	1
Color	10		5.0	5.0	Color Units			07/25/13 12:25	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-221D**

**Lab Sample ID: 480-42572-4**

Date Collected: 07/24/13 13:45

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 20:43	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 20:43	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 20:43	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 20:43	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 20:43	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 20:43	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 20:43	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 20:43	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 20:43	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 20:43	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 20:43	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 20:43	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 20:43	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 20:43	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 20:43	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 20:43	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 20:43	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 20:43	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 20:43	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 20:43	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 20:43	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 20:43	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 20:43	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 20:43	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 20:43	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 20:43	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 20:43	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 20:43	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 20:43	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 20:43	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 20:43	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 20:43	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 20:43	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 20:43	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 20:43	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		72 - 130		07/25/13 20:43	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/25/13 20:43	1
Toluene-d8 (Surr)	97		70 - 123		07/25/13 20:43	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.094	J	0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:28	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:28	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:28	1
Barium	0.055		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:28	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:28	1
Boron	0.037	B	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:28	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-221D**

**Lab Sample ID: 480-42572-4**

Date Collected: 07/24/13 13:45

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:28	1
<b>Calcium</b>	<b>45</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:28	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:28	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:28	1
<b>Iron</b>	<b>0.29</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:28	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:28	1
<b>Magnesium</b>	<b>18</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:28	1
<b>Manganese</b>	<b>0.038</b>	<b>B</b>	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:28	1
Nickel	ND		0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:28	1
<b>Potassium</b>	<b>7.5</b>	<b>B</b>	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:28	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:28	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:28	1
<b>Sodium</b>	<b>16</b>	<b>B</b>	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:28	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:28	1
<b>Zinc</b>	<b>0.0063</b>	<b>J</b>	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:28	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 19:07	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 19:07	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Barium</b>	<b>0.051</b>		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 19:07	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Boron</b>	<b>0.037</b>		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 19:07	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Calcium</b>	<b>43</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 19:07	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Iron</b>	<b>0.12</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 19:07	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Magnesium</b>	<b>18</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Manganese</b>	<b>0.030</b>	<b>B</b>	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 19:07	1
Nickel	ND		0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Potassium</b>	<b>8.5</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:07	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 19:07	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Sodium</b>	<b>16</b>		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 19:07	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 19:07	1
<b>Zinc</b>	<b>0.0029</b>	<b>J</b>	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 19:07	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 12:58	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 15:24	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-221D**

**Lab Sample ID: 480-42572-4**

Date Collected: 07/24/13 13:45

Matrix: Ground Water

Date Received: 07/25/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56		0.50	0.28	mg/L			07/26/13 01:02	1
Sulfate	17		2.0	0.35	mg/L			07/26/13 01:02	1
Alkalinity, Total	120		100	40	mg/L			07/25/13 17:47	10
Ammonia	0.40		0.020	0.0090	mg/L			07/26/13 13:51	1
Total Kjeldahl Nitrogen	2.2		0.20	0.15	mg/L		07/26/13 06:33	07/26/13 12:13	1
Nitrate as N	0.050		0.050	0.020	mg/L			07/25/13 12:53	1
Chemical Oxygen Demand	11		10	5.0	mg/L			07/27/13 10:55	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/25/13 09:47	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/25/13 18:23	07/26/13 13:50	1
Total Organic Carbon	1.2		1.0	0.43	mg/L			07/27/13 04:22	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 10:30	07/27/13 11:18	1
Hardness	330		10	2.6	mg/L			07/30/13 07:45	1
Total Dissolved Solids	270		10	4.0	mg/L			07/25/13 18:20	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/25/13 10:22	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	150		1.0	1.0	NTU			07/25/13 12:00	1
Color	10		5.0	5.0	Color Units			07/25/13 12:25	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-245S

Lab Sample ID: 480-42572-5

Date Collected: 07/24/13 13:40

Matrix: Ground Water

Date Received: 07/25/13 09:00

### Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 21:06	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 21:06	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 21:06	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 21:06	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 21:06	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 21:06	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 21:06	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 21:06	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 21:06	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 21:06	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 21:06	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 21:06	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 21:06	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 21:06	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 21:06	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 21:06	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 21:06	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 21:06	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 21:06	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 21:06	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 21:06	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 21:06	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 21:06	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 21:06	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 21:06	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 21:06	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 21:06	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 21:06	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 21:06	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 21:06	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 21:06	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 21:06	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 21:06	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 21:06	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 21:06	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 21:06	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		72 - 130		07/25/13 21:06	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/25/13 21:06	1
Toluene-d8 (Surr)	99		70 - 123		07/25/13 21:06	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.9		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:30	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:30	1
Arsenic	0.032		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:30	1
Barium	0.12		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:30	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:30	1
Boron	0.037	B	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:30	1

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## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-245S**

**Lab Sample ID: 480-42572-5**

Date Collected: 07/24/13 13:40

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Calcium</b>	<b>150</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Chromium</b>	<b>0.0089</b>		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Copper</b>	<b>0.0073</b>	J	0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Iron</b>	<b>6.3</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:30	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Magnesium</b>	<b>37</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Manganese</b>	<b>1.9</b>	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Nickel</b>	<b>0.0065</b>	J	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Potassium</b>	<b>4.0</b>	B	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:30	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:30	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Sodium</b>	<b>26</b>	B	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:30	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:30	1
<b>Zinc</b>	<b>0.027</b>		0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:30	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 19:14	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Arsenic</b>	<b>0.021</b>		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Barium</b>	<b>0.081</b>		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 19:14	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Boron</b>	<b>0.033</b>		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 19:14	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Calcium</b>	<b>160</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Chromium</b>	<b>0.0014</b>	J	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 19:14	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Iron</b>	<b>0.68</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 19:14	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Magnesium</b>	<b>37</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Manganese</b>	<b>1.8</b>	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 19:14	1
Nickel	ND		0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Potassium</b>	<b>1.9</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:14	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 19:14	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Sodium</b>	<b>27</b>		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 19:14	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 19:14	1
<b>Zinc</b>	<b>0.0039</b>	J	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 19:14	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 13:00	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 15:26	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-245S**

**Lab Sample ID: 480-42572-5**

Date Collected: 07/24/13 13:40

Matrix: Ground Water

Date Received: 07/25/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86		0.50	0.28	mg/L			07/26/13 01:15	1
Sulfate	140		10	1.7	mg/L			07/26/13 18:18	5
Alkalinity, Total	320		100	40	mg/L			07/25/13 17:27	10
Ammonia	0.14		0.020	0.0090	mg/L			07/26/13 13:52	1
Total Kjeldahl Nitrogen	0.51		0.20	0.15	mg/L		07/26/13 06:33	07/26/13 12:13	1
Nitrate as N	ND		0.050	0.020	mg/L			07/25/13 12:17	1
Chemical Oxygen Demand	6.5	J	10	5.0	mg/L			07/27/13 10:55	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/25/13 09:47	1
Cyanide, Total	ND	*	0.010	0.0050	mg/L		07/25/13 18:23	07/26/13 13:51	1
Total Organic Carbon	2.2		1.0	0.43	mg/L			07/27/13 04:51	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 06:23	07/26/13 11:11	1
Hardness	540		10	2.6	mg/L			07/30/13 07:45	1
Total Dissolved Solids	690		10	4.0	mg/L			07/25/13 18:20	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 01:31	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	170		1.0	1.0	NTU			07/25/13 12:00	1
Color	10		5.0	5.0	Color Units			07/25/13 12:25	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-222**

**Lab Sample ID: 480-42572-7**

Date Collected: 07/24/13 14:20

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 21:53	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 21:53	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 21:53	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 21:53	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 21:53	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 21:53	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 21:53	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 21:53	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 21:53	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 21:53	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 21:53	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 21:53	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 21:53	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 21:53	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 21:53	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 21:53	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 21:53	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 21:53	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 21:53	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 21:53	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 21:53	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 21:53	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 21:53	1
<b>Dichlorodifluoromethane</b>	<b>1.0</b>	<b>J</b>	5.0	0.28	ug/L			07/25/13 21:53	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 21:53	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 21:53	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 21:53	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 21:53	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 21:53	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 21:53	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 21:53	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 21:53	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 21:53	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 21:53	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 21:53	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		72 - 130		07/25/13 21:53	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 21:53	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 21:53	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.20		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:35	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:35	1
Arsenic	0.0056	J	0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:35	1
Barium	0.32		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:35	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:35	1
Boron	0.22	B	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:35	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-222**

**Lab Sample ID: 480-42572-7**

Date Collected: 07/24/13 14:20

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Calcium</b>	<b>210</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:35	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Iron</b>	<b>24</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:35	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Magnesium</b>	<b>47</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Manganese</b>	<b>0.58</b>	<b>B</b>	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Nickel</b>	<b>0.0054</b>	<b>J</b>	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Potassium</b>	<b>12</b>	<b>B</b>	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:35	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:35	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Sodium</b>	<b>44</b>	<b>B</b>	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:35	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:35	1
<b>Zinc</b>	<b>0.0087</b>	<b>J</b>	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:35	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 19:17	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 19:17	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Barium</b>	<b>0.41</b>		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 19:17	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Boron</b>	<b>0.17</b>		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 19:17	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Calcium</b>	<b>200</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:17	1
Chromium	ND		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 19:17	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Iron</b>	<b>23</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 19:17	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Magnesium</b>	<b>44</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Manganese</b>	<b>0.57</b>	<b>B</b>	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Nickel</b>	<b>0.0046</b>	<b>J</b>	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Potassium</b>	<b>9.5</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:17	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 19:17	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Sodium</b>	<b>35</b>		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 19:17	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 19:17	1
<b>Zinc</b>	<b>0.0031</b>	<b>J</b>	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 19:17	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 13:03	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 15:27	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-222**

**Lab Sample ID: 480-42572-7**

Date Collected: 07/24/13 14:20

Matrix: Ground Water

Date Received: 07/25/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52		0.50	0.28	mg/L			07/26/13 03:01	1
Sulfate	53		2.0	0.35	mg/L			07/26/13 03:01	1
Alkalinity, Total	760		100	40	mg/L			07/25/13 18:44	10
Ammonia	12		0.20	0.090	mg/L			07/26/13 16:35	10
Total Kjeldahl Nitrogen	9.8		1.0	0.75	mg/L		07/26/13 06:33	07/26/13 15:00	5
Nitrate as N	0.025	J	0.050	0.020	mg/L			07/25/13 12:25	1
Chemical Oxygen Demand	23		10	5.0	mg/L			07/27/13 10:55	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/25/13 09:47	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 23:22	07/30/13 11:45	1
Total Organic Carbon	5.7		1.0	0.43	mg/L			07/27/13 07:48	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 10:30	07/27/13 11:18	1
Hardness	680		10	2.6	mg/L			07/30/13 07:45	1
Total Dissolved Solids	860		10	4.0	mg/L			07/25/13 18:20	1
Biochemical Oxygen Demand	2.0		2.0	2.0	mg/L			07/26/13 01:31	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	190		1.0	1.0	NTU			07/25/13 12:00	1
Color	30		5.0	5.0	Color Units			07/25/13 12:25	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-220**

Date Collected: 07/24/13 10:30

Date Received: 07/25/13 09:00

**Lab Sample ID: 480-42572-8**

Matrix: Ground Water

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 22:16	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 22:16	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 22:16	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 22:16	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 22:16	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 22:16	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 22:16	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 22:16	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 22:16	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 22:16	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 22:16	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 22:16	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 22:16	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 22:16	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 22:16	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 22:16	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 22:16	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 22:16	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 22:16	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 22:16	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 22:16	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 22:16	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 22:16	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 22:16	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 22:16	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 22:16	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 22:16	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 22:16	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 22:16	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 22:16	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 22:16	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 22:16	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 22:16	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 22:16	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 22:16	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 22:16	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		72 - 130		07/25/13 22:16	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/25/13 22:16	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 22:16	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.6		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:38	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:38	1
Arsenic	0.0096	J	0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:38	1
Barium	0.083		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:38	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:38	1
Boron	0.040	B	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:38	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-220**

**Lab Sample ID: 480-42572-8**

Date Collected: 07/24/13 10:30

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Calcium</b>	<b>180</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Chromium</b>	<b>0.0047</b>		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Copper</b>	<b>0.0041</b>	<b>J</b>	0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Iron</b>	<b>4.3</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:38	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Magnesium</b>	<b>49</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Manganese</b>	<b>1.6</b>	<b>B</b>	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Nickel</b>	<b>0.0040</b>	<b>J</b>	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Potassium</b>	<b>3.5</b>	<b>B</b>	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:38	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:38	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Sodium</b>	<b>12</b>	<b>B</b>	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:38	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:38	1
<b>Zinc</b>	<b>0.012</b>		0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:38	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 19:20	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 19:20	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Barium</b>	<b>0.051</b>		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 19:20	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Boron</b>	<b>0.032</b>		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 19:20	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Calcium</b>	<b>170</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Chromium</b>	<b>0.0011</b>	<b>J</b>	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 19:20	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Iron</b>	<b>0.24</b>		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 19:20	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Magnesium</b>	<b>47</b>		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Manganese</b>	<b>0.83</b>	<b>B</b>	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Nickel</b>	<b>0.0015</b>	<b>J</b>	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Potassium</b>	<b>2.6</b>		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:20	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 19:20	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Sodium</b>	<b>11</b>		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 19:20	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 19:20	1
<b>Zinc</b>	<b>0.0040</b>	<b>J</b>	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 19:20	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 13:06	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 15:29	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-220**

**Lab Sample ID: 480-42572-8**

Date Collected: 07/24/13 10:30

Matrix: Ground Water

Date Received: 07/25/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		0.50	0.28	mg/L			07/26/13 03:14	1
Sulfate	220		10	1.7	mg/L			07/26/13 18:38	5
Alkalinity, Total	430		100	40	mg/L			07/25/13 17:40	10
Ammonia	0.039		0.020	0.0090	mg/L			07/26/13 15:51	1
Total Kjeldahl Nitrogen	0.19	J	0.20	0.15	mg/L		07/26/13 06:33	07/26/13 12:25	1
Nitrate as N	ND		0.050	0.020	mg/L			07/25/13 12:09	1
Chemical Oxygen Demand	9.4	J	10	5.0	mg/L			07/27/13 10:55	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/25/13 09:47	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 10:05	07/30/13 16:00	1
Total Organic Carbon	2.0		1.0	0.43	mg/L			07/27/13 08:18	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 10:30	07/27/13 11:18	1
Hardness	650		10	2.6	mg/L			07/30/13 07:45	1
Total Dissolved Solids	770		10	4.0	mg/L			07/25/13 18:20	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/25/13 10:22	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	58		1.0	1.0	NTU			07/25/13 12:00	1
Color	10		5.0	5.0	Color Units			07/25/13 12:25	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-245D**

**Lab Sample ID: 480-42572-9**

Date Collected: 07/24/13 15:55

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 22:39	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 22:39	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 22:39	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 22:39	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 22:39	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 22:39	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 22:39	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 22:39	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 22:39	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 22:39	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 22:39	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 22:39	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 22:39	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 22:39	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 22:39	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 22:39	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 22:39	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 22:39	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 22:39	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 22:39	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 22:39	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 22:39	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 22:39	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 22:39	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 22:39	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 22:39	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 22:39	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 22:39	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 22:39	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 22:39	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 22:39	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 22:39	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 22:39	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 22:39	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 22:39	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		72 - 130		07/25/13 22:39	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/25/13 22:39	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 22:39	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.79		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 21:45	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 21:45	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 21:45	1
Barium	0.13		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 21:45	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 21:45	1
Boron	0.043	B	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 21:45	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-245D**

**Lab Sample ID: 480-42572-9**

Date Collected: 07/24/13 15:55

Matrix: Ground Water

Date Received: 07/25/13 09:00

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.00065	J	0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 21:45	1
Calcium	120		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:45	1
Chromium	0.010		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 21:45	1
Copper	0.0047	J	0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 21:45	1
Iron	1.5		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 21:45	1
Lead	0.0044	J	0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 21:45	1
Magnesium	30		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 21:45	1
Manganese	0.45	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 21:45	1
Nickel	0.0076	J	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 21:45	1
Potassium	3.5	B	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 21:45	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 21:45	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 21:45	1
Sodium	43	B	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 21:45	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 21:45	1
Zinc	0.036		0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 21:45	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 19:22	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 19:22	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 19:22	1
Barium	0.12		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 19:22	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 19:22	1
Boron	0.037		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 19:22	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 19:22	1
Calcium	110		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:22	1
Chromium	0.0010	J	0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 19:22	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 19:22	1
Iron	0.52		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 19:22	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 19:22	1
Magnesium	29		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 19:22	1
Manganese	0.43	B	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 19:22	1
Nickel	0.0031	J	0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 19:22	1
Potassium	3.0		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 19:22	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 19:22	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 19:22	1
Sodium	38		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 19:22	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 19:22	1
Zinc	0.0049	J	0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 19:22	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 13:07	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 15:31	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-245D**

**Lab Sample ID: 480-42572-9**

Date Collected: 07/24/13 15:55

Matrix: Ground Water

Date Received: 07/25/13 09:00

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		0.50	0.28	mg/L			07/26/13 03:27	1
Sulfate	120		10	1.7	mg/L			07/26/13 18:48	5
Alkalinity, Total	340		100	40	mg/L			07/25/13 18:46	10
Ammonia	9.0		0.10	0.045	mg/L			07/26/13 15:52	5
Total Kjeldahl Nitrogen	7.8		0.40	0.30	mg/L		07/26/13 06:33	07/26/13 14:34	2
Nitrate as N	0.49		0.050	0.020	mg/L			07/25/13 13:01	1
Chemical Oxygen Demand	8.7	J	10	5.0	mg/L			07/27/13 10:55	1
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/25/13 09:47	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 10:05	07/30/13 16:01	1
Total Organic Carbon	3.2		1.0	0.43	mg/L			07/27/13 08:47	1
Phenolics, Total Recoverable	0.0087	J ^	0.010	0.0050	mg/L		07/27/13 09:30	07/29/13 12:21	1
Hardness	400		10	2.6	mg/L			07/30/13 07:45	1
Total Dissolved Solids	590		10	4.0	mg/L			07/25/13 18:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	98		1.0	1.0	NTU			07/25/13 12:00	1
Color	10		5.0	5.0	Color Units			07/25/13 12:25	1

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TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 480-42572-10**

Date Collected: 07/24/13 00:00

Matrix: Water

Date Received: 07/25/13 09:00

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 23:03	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 23:03	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 23:03	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 23:03	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 23:03	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 23:03	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 23:03	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 23:03	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 23:03	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 23:03	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 23:03	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 23:03	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 23:03	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 23:03	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 23:03	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 23:03	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 23:03	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 23:03	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 23:03	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 23:03	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 23:03	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 23:03	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 23:03	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 23:03	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 23:03	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 23:03	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 23:03	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 23:03	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 23:03	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 23:03	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 23:03	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 23:03	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 23:03	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 23:03	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 23:03	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 23:03	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		72 - 130		07/25/13 23:03	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/25/13 23:03	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 23:03	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: PZ-11

Lab Sample ID: 480-42659-1

Date Collected: 07/25/13 10:15

Matrix: Ground Water

Date Received: 07/26/13 08:45

## Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/26/13 19:10	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/26/13 19:10	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/26/13 19:10	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/26/13 19:10	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/26/13 19:10	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/26/13 19:10	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/26/13 19:10	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/26/13 19:10	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/26/13 19:10	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/26/13 19:10	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/26/13 19:10	1
Benzene	ND		5.0	0.60	ug/L			07/26/13 19:10	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/26/13 19:10	1
Bromoform	ND		5.0	0.47	ug/L			07/26/13 19:10	1
Bromomethane	ND		5.0	1.2	ug/L			07/26/13 19:10	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/26/13 19:10	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/26/13 19:10	1
Chloroethane	ND		5.0	0.87	ug/L			07/26/13 19:10	1
Chloroform	ND		5.0	0.54	ug/L			07/26/13 19:10	1
Chloromethane	ND		5.0	0.64	ug/L			07/26/13 19:10	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/26/13 19:10	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/26/13 19:10	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/26/13 19:10	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/26/13 19:10	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/26/13 19:10	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/26/13 19:10	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/26/13 19:10	1
o-Xylene	ND		5.0	0.43	ug/L			07/26/13 19:10	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/26/13 19:10	1
Toluene	ND		5.0	0.45	ug/L			07/26/13 19:10	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/26/13 19:10	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/26/13 19:10	1
Trichloroethene	ND		5.0	0.60	ug/L			07/26/13 19:10	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/26/13 19:10	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/26/13 19:10	1
Xylenes, Total	ND		10	1.1	ug/L			07/26/13 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		72 - 130		07/26/13 19:10	1
4-Bromofluorobenzene (Surr)	105		69 - 121		07/26/13 19:10	1
Toluene-d8 (Surr)	98		70 - 123		07/26/13 19:10	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.090	J	0.20	0.060	mg/L		07/29/13 08:15	07/30/13 01:38	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/30/13 01:38	1
Arsenic	0.017		0.010	0.0056	mg/L		07/29/13 08:15	07/30/13 01:38	1
Barium	0.12		0.0020	0.00070	mg/L		07/29/13 08:15	07/30/13 01:38	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/30/13 01:38	1
Boron	0.030		0.020	0.0040	mg/L		07/29/13 08:15	07/30/13 01:38	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: PZ-11**

**Lab Sample ID: 480-42659-1**

Date Collected: 07/25/13 10:15

Matrix: Ground Water

Date Received: 07/26/13 08:45

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Calcium</b>	<b>160</b>		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Chromium</b>	<b>0.0022</b>	<b>J</b>	0.0040	0.0010	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Copper</b>	<b>0.0016</b>	<b>J</b>	0.010	0.0016	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Iron</b>	<b>6.2</b>		0.050	0.019	mg/L		07/29/13 08:15	07/30/13 01:38	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Magnesium</b>	<b>32</b>		0.20	0.043	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Manganese</b>	<b>2.4</b>	<b>B</b>	0.0030	0.00040	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Nickel</b>	<b>0.0016</b>	<b>J</b>	0.010	0.0013	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Potassium</b>	<b>4.1</b>		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:38	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/30/13 01:38	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Sodium</b>	<b>13</b>		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 01:38	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/30/13 01:38	1
<b>Zinc</b>	<b>0.019</b>		0.010	0.0015	mg/L		07/29/13 08:15	07/30/13 01:38	1

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**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/29/13 08:15	07/29/13 23:25	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Arsenic</b>	<b>0.015</b>		0.010	0.0056	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Barium</b>	<b>0.12</b>		0.0020	0.00070	mg/L		07/29/13 08:15	07/29/13 23:25	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Boron</b>	<b>0.031</b>		0.020	0.0040	mg/L		07/29/13 08:15	07/29/13 23:25	1
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Calcium</b>	<b>160</b>	<b>B</b>	0.50	0.10	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Chromium</b>	<b>0.0017</b>	<b>J</b>	0.0040	0.0010	mg/L		07/29/13 08:15	07/29/13 23:25	1
Copper	ND		0.010	0.0016	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Iron</b>	<b>5.7</b>		0.050	0.019	mg/L		07/29/13 08:15	07/29/13 23:25	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Magnesium</b>	<b>32</b>		0.20	0.043	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Manganese</b>	<b>2.4</b>	<b>B</b>	0.0030	0.00040	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Nickel</b>	<b>0.0013</b>	<b>J</b>	0.010	0.0013	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Potassium</b>	<b>4.1</b>		0.50	0.10	mg/L		07/29/13 08:15	07/29/13 23:25	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/29/13 23:25	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Sodium</b>	<b>13</b>		1.0	0.32	mg/L		07/29/13 08:15	07/29/13 23:25	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/29/13 23:25	1
<b>Zinc</b>	<b>0.010</b>		0.010	0.0015	mg/L		07/29/13 08:15	07/29/13 23:25	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:40	07/29/13 12:47	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:50	07/29/13 14:27	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: PZ-11**

**Lab Sample ID: 480-42659-1**

Date Collected: 07/25/13 10:15

Matrix: Ground Water

Date Received: 07/26/13 08:45

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		0.50	0.28	mg/L			07/27/13 14:13	1
Sulfate	63		2.0	0.35	mg/L			07/27/13 14:13	1
Alkalinity, Total	540		100	40	mg/L			07/26/13 17:46	10
Ammonia	0.47		0.020	0.0090	mg/L			07/26/13 16:39	1
Total Kjeldahl Nitrogen	0.87		0.20	0.15	mg/L		07/30/13 01:30	07/30/13 10:56	1
Nitrate as N	0.028	J	0.050	0.020	mg/L			07/26/13 13:39	1
Chemical Oxygen Demand	9.0	J	10	5.0	mg/L			07/30/13 10:23	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/26/13 10:44	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 17:17	08/01/13 11:12	1
Total Organic Carbon	3.2		1.0	0.43	mg/L			07/29/13 22:15	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/29/13 09:00	07/30/13 11:24	1
Hardness	540		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	600		10	4.0	mg/L			07/29/13 23:01	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 18:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	73		1.0	1.0	NTU			07/26/13 14:50	1
Color	80		10	10	Color Units			07/26/13 15:43	2

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: PZ-1A**

**Lab Sample ID: 480-42659-2**

Date Collected: 07/25/13 09:00

Matrix: Ground Water

Date Received: 07/26/13 08:45

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/26/13 19:34	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/26/13 19:34	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/26/13 19:34	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/26/13 19:34	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/26/13 19:34	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/26/13 19:34	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/26/13 19:34	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/26/13 19:34	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/26/13 19:34	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/26/13 19:34	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/26/13 19:34	1
Benzene	ND		5.0	0.60	ug/L			07/26/13 19:34	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/26/13 19:34	1
Bromoform	ND		5.0	0.47	ug/L			07/26/13 19:34	1
Bromomethane	ND		5.0	1.2	ug/L			07/26/13 19:34	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/26/13 19:34	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/26/13 19:34	1
Chloroethane	ND		5.0	0.87	ug/L			07/26/13 19:34	1
Chloroform	ND		5.0	0.54	ug/L			07/26/13 19:34	1
Chloromethane	ND		5.0	0.64	ug/L			07/26/13 19:34	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/26/13 19:34	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/26/13 19:34	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/26/13 19:34	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/26/13 19:34	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/26/13 19:34	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/26/13 19:34	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/26/13 19:34	1
o-Xylene	ND		5.0	0.43	ug/L			07/26/13 19:34	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/26/13 19:34	1
Toluene	ND		5.0	0.45	ug/L			07/26/13 19:34	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/26/13 19:34	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/26/13 19:34	1
Trichloroethene	ND		5.0	0.60	ug/L			07/26/13 19:34	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/26/13 19:34	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/26/13 19:34	1
Xylenes, Total	ND		10	1.1	ug/L			07/26/13 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		72 - 130		07/26/13 19:34	1
4-Bromofluorobenzene (Surr)	105		69 - 121		07/26/13 19:34	1
Toluene-d8 (Surr)	98		70 - 123		07/26/13 19:34	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/29/13 08:15	07/30/13 01:46	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/30/13 01:46	1
Arsenic	ND		0.010	0.0056	mg/L		07/29/13 08:15	07/30/13 01:46	1
<b>Barium</b>	<b>0.048</b>		0.0020	0.00070	mg/L		07/29/13 08:15	07/30/13 01:46	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/30/13 01:46	1
<b>Boron</b>	<b>0.070</b>		0.020	0.0040	mg/L		07/29/13 08:15	07/30/13 10:50	1

TestAmerica Buffalo

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## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: PZ-1A

Lab Sample ID: 480-42659-2

Date Collected: 07/25/13 09:00

Matrix: Ground Water

Date Received: 07/26/13 08:45

### Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/30/13 01:46	1
<b>Calcium</b>	<b>120</b>		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:46	1
Chromium	ND		0.0040	0.0010	mg/L		07/29/13 08:15	07/30/13 01:46	1
Copper	ND		0.010	0.0016	mg/L		07/29/13 08:15	07/30/13 01:46	1
<b>Iron</b>	<b>0.14</b>		0.050	0.019	mg/L		07/29/13 08:15	07/30/13 01:46	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/30/13 01:46	1
<b>Magnesium</b>	<b>28</b>		0.20	0.043	mg/L		07/29/13 08:15	07/30/13 01:46	1
<b>Manganese</b>	<b>0.60</b>	<b>B</b>	0.0030	0.00040	mg/L		07/29/13 08:15	07/30/13 01:46	1
Nickel	ND		0.010	0.0013	mg/L		07/29/13 08:15	07/30/13 01:46	1
<b>Potassium</b>	<b>1.9</b>		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:46	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/30/13 01:46	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/30/13 01:46	1
<b>Sodium</b>	<b>18</b>		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 01:46	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/30/13 01:46	1
Zinc	ND		0.010	0.0015	mg/L		07/29/13 08:15	07/30/13 01:46	1

### Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/29/13 08:15	07/29/13 23:28	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/29/13 23:28	1
Arsenic	ND		0.010	0.0056	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Barium</b>	<b>0.046</b>		0.0020	0.00070	mg/L		07/29/13 08:15	07/29/13 23:28	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Boron</b>	<b>0.043</b>		0.020	0.0040	mg/L		07/29/13 08:15	07/29/13 23:28	1
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Calcium</b>	<b>120</b>	<b>B</b>	0.50	0.10	mg/L		07/29/13 08:15	07/29/13 23:28	1
Chromium	ND		0.0040	0.0010	mg/L		07/29/13 08:15	07/29/13 23:28	1
Copper	ND		0.010	0.0016	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Iron</b>	<b>0.071</b>		0.050	0.019	mg/L		07/29/13 08:15	07/29/13 23:28	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Magnesium</b>	<b>27</b>		0.20	0.043	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Manganese</b>	<b>0.59</b>	<b>B</b>	0.0030	0.00040	mg/L		07/29/13 08:15	07/29/13 23:28	1
Nickel	ND		0.010	0.0013	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Potassium</b>	<b>1.9</b>		0.50	0.10	mg/L		07/29/13 08:15	07/29/13 23:28	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/29/13 23:28	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Sodium</b>	<b>18</b>		1.0	0.32	mg/L		07/29/13 08:15	07/29/13 23:28	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/29/13 23:28	1
<b>Zinc</b>	<b>0.0031</b>	<b>J</b>	0.010	0.0015	mg/L		07/29/13 08:15	07/29/13 23:28	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:40	07/29/13 12:49	1

### Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:50	07/29/13 14:33	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: PZ-1A**

Date Collected: 07/25/13 09:00

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42659-2**

Matrix: Ground Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		0.50	0.28	mg/L			07/27/13 14:23	1
Sulfate	200		10	1.7	mg/L			07/29/13 22:02	5
Alkalinity, Total	220		100	40	mg/L			07/26/13 17:46	10
Ammonia	0.091		0.020	0.0090	mg/L			07/26/13 16:40	1
Total Kjeldahl Nitrogen	0.16	J	0.20	0.15	mg/L		07/30/13 01:30	07/30/13 10:56	1
Nitrate as N	0.037	J	0.050	0.020	mg/L			07/26/13 13:42	1
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/29/13 11:36	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/26/13 10:44	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 17:17	08/01/13 11:13	1
Total Organic Carbon	0.69	J	1.0	0.43	mg/L			07/29/13 22:44	1
Phenolics, Total Recoverable	0.0082	J	0.010	0.0050	mg/L		07/29/13 09:00	07/30/13 11:24	1
Hardness	390		4.0	1.1	mg/L			07/30/13 07:45	1
Total Dissolved Solids	550		10	4.0	mg/L			07/29/13 23:02	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 18:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	4.0		1.0	1.0	NTU			07/26/13 14:50	1
Color	ND		5.0	5.0	Color Units			07/26/13 15:44	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: MW-245D

Date Collected: 07/25/13 06:45

Date Received: 07/26/13 08:45

Lab Sample ID: 480-42659-3

Matrix: Ground Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	7.0	b	2.0	2.0	mg/L			07/26/13 18:53	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: PZ-4**

**Lab Sample ID: 480-42659-4**

Date Collected: 07/25/13 08:00

Matrix: Ground Water

Date Received: 07/26/13 08:45

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/29/13 13:39	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/29/13 13:39	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/29/13 13:39	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/29/13 13:39	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/29/13 13:39	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/29/13 13:39	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/29/13 13:39	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/29/13 13:39	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/29/13 13:39	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/29/13 13:39	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/29/13 13:39	1
Benzene	ND		5.0	0.60	ug/L			07/29/13 13:39	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/29/13 13:39	1
Bromoform	ND		5.0	0.47	ug/L			07/29/13 13:39	1
Bromomethane	ND		5.0	1.2	ug/L			07/29/13 13:39	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/29/13 13:39	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/29/13 13:39	1
Chloroethane	ND		5.0	0.87	ug/L			07/29/13 13:39	1
Chloroform	ND		5.0	0.54	ug/L			07/29/13 13:39	1
Chloromethane	ND		5.0	0.64	ug/L			07/29/13 13:39	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/29/13 13:39	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/29/13 13:39	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/29/13 13:39	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/29/13 13:39	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/29/13 13:39	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/29/13 13:39	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/29/13 13:39	1
o-Xylene	ND		5.0	0.43	ug/L			07/29/13 13:39	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/29/13 13:39	1
Toluene	ND		5.0	0.45	ug/L			07/29/13 13:39	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/29/13 13:39	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/29/13 13:39	1
Trichloroethene	ND		5.0	0.60	ug/L			07/29/13 13:39	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/29/13 13:39	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/29/13 13:39	1
Xylenes, Total	ND		10	1.1	ug/L			07/29/13 13:39	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		72 - 130		07/29/13 13:39	1
4-Bromofluorobenzene (Surr)	104		69 - 121		07/29/13 13:39	1
Toluene-d8 (Surr)	97		70 - 123		07/29/13 13:39	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.7		0.20	0.060	mg/L		07/29/13 08:15	07/30/13 01:48	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/30/13 01:48	1
Arsenic	0.015		0.010	0.0056	mg/L		07/29/13 08:15	07/30/13 01:48	1
Barium	0.092		0.0020	0.00070	mg/L		07/29/13 08:15	07/30/13 01:48	1
Beryllium	0.00044	J	0.0020	0.00030	mg/L		07/29/13 08:15	07/30/13 01:48	1
Boron	0.14		0.020	0.0040	mg/L		07/29/13 08:15	07/30/13 10:52	1

TestAmerica Buffalo

# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Client Sample ID: PZ-4

Lab Sample ID: 480-42659-4

Date Collected: 07/25/13 08:00

Matrix: Ground Water

Date Received: 07/26/13 08:45

**Method: 6010B - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/30/13 01:48	1
Calcium	220		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:48	1
Chromium	0.0082		0.0040	0.0010	mg/L		07/29/13 08:15	07/30/13 01:48	1
Copper	0.028		0.010	0.0016	mg/L		07/29/13 08:15	07/30/13 01:48	1
Iron	10		0.050	0.019	mg/L		07/29/13 08:15	07/30/13 01:48	1
Lead	0.0042	J	0.0050	0.0030	mg/L		07/29/13 08:15	07/30/13 01:48	1
Magnesium	55		0.20	0.043	mg/L		07/29/13 08:15	07/30/13 01:48	1
Manganese	1.9	B	0.0030	0.00040	mg/L		07/29/13 08:15	07/30/13 01:48	1
Nickel	0.015		0.010	0.0013	mg/L		07/29/13 08:15	07/30/13 01:48	1
Potassium	4.7		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:48	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/30/13 01:48	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/30/13 01:48	1
Sodium	28		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 01:48	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/30/13 01:48	1
Zinc	0.058		0.010	0.0015	mg/L		07/29/13 08:15	07/30/13 01:48	1

**Method: 6010B - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		07/29/13 08:15	07/29/13 23:33	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/29/13 23:33	1
Arsenic	0.011		0.010	0.0056	mg/L		07/29/13 08:15	07/29/13 23:33	1
Barium	0.052		0.0020	0.00070	mg/L		07/29/13 08:15	07/29/13 23:33	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/29/13 23:33	1
Boron	0.11		0.020	0.0040	mg/L		07/29/13 08:15	07/29/13 23:33	1
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/29/13 23:33	1
Calcium	190	B	0.50	0.10	mg/L		07/29/13 08:15	07/29/13 23:33	1
Chromium	0.0013	J	0.0040	0.0010	mg/L		07/29/13 08:15	07/29/13 23:33	1
Copper	ND		0.010	0.0016	mg/L		07/29/13 08:15	07/29/13 23:33	1
Iron	0.67		0.050	0.019	mg/L		07/29/13 08:15	07/29/13 23:33	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/29/13 23:33	1
Magnesium	48		0.20	0.043	mg/L		07/29/13 08:15	07/29/13 23:33	1
Manganese	1.0	B	0.0030	0.00040	mg/L		07/29/13 08:15	07/29/13 23:33	1
Nickel	0.0045	J	0.010	0.0013	mg/L		07/29/13 08:15	07/29/13 23:33	1
Potassium	3.2		0.50	0.10	mg/L		07/29/13 08:15	07/29/13 23:33	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/29/13 23:33	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/29/13 23:33	1
Sodium	27		1.0	0.32	mg/L		07/29/13 08:15	07/29/13 23:33	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/29/13 23:33	1
Zinc	0.0061	J	0.010	0.0015	mg/L		07/29/13 08:15	07/29/13 23:33	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:40	07/29/13 12:54	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:50	07/29/13 14:35	1

TestAmerica Buffalo

## Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: PZ-4**

Date Collected: 07/25/13 08:00

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42659-4**

Matrix: Ground Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		0.50	0.28	mg/L			07/27/13 14:33	1
Sulfate	110		4.0	0.70	mg/L			07/29/13 22:12	2
Alkalinity, Total	600		100	40	mg/L			07/26/13 17:46	10
Ammonia	0.16		0.020	0.0090	mg/L			07/26/13 16:41	1
Total Kjeldahl Nitrogen	0.52		0.20	0.15	mg/L		07/30/13 01:30	07/30/13 10:56	1
Nitrate as N	ND		0.050	0.020	mg/L			07/26/13 13:45	1
Chemical Oxygen Demand	7.8	J	10	5.0	mg/L			07/29/13 11:36	1
Chromium, hexavalent	ND	H	0.010	0.0050	mg/L			07/26/13 10:44	1
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 17:17	08/01/13 11:11	1
Total Organic Carbon	1.7		1.0	0.43	mg/L			07/29/13 23:14	1
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/29/13 15:57	07/30/13 11:50	1
Hardness	800		20	5.3	mg/L			07/30/13 20:15	1
Total Dissolved Solids	820		10	4.0	mg/L			07/29/13 23:04	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 18:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	500		1.0	1.0	NTU			07/26/13 14:50	1
Color	30		5.0	5.0	Color Units			07/26/13 15:49	1

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# Client Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 480-42659-5**

Date Collected: 07/25/13 00:00

Matrix: Water

Date Received: 07/26/13 08:45

**Method: 624 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/29/13 14:02	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/29/13 14:02	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/29/13 14:02	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/29/13 14:02	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/29/13 14:02	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/29/13 14:02	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/29/13 14:02	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/29/13 14:02	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/29/13 14:02	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/29/13 14:02	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/29/13 14:02	1
Benzene	ND		5.0	0.60	ug/L			07/29/13 14:02	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/29/13 14:02	1
Bromoform	ND		5.0	0.47	ug/L			07/29/13 14:02	1
Bromomethane	ND		5.0	1.2	ug/L			07/29/13 14:02	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/29/13 14:02	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/29/13 14:02	1
Chloroethane	ND		5.0	0.87	ug/L			07/29/13 14:02	1
Chloroform	ND		5.0	0.54	ug/L			07/29/13 14:02	1
Chloromethane	ND		5.0	0.64	ug/L			07/29/13 14:02	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/29/13 14:02	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/29/13 14:02	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/29/13 14:02	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/29/13 14:02	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/29/13 14:02	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/29/13 14:02	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/29/13 14:02	1
o-Xylene	ND		5.0	0.43	ug/L			07/29/13 14:02	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/29/13 14:02	1
Toluene	ND		5.0	0.45	ug/L			07/29/13 14:02	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/29/13 14:02	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/29/13 14:02	1
Trichloroethene	ND		5.0	0.60	ug/L			07/29/13 14:02	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/29/13 14:02	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/29/13 14:02	1
Xylenes, Total	ND		10	1.1	ug/L			07/29/13 14:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	120		72 - 130					07/29/13 14:02	1
4-Bromofluorobenzene (Surr)	102		69 - 121					07/29/13 14:02	1
Toluene-d8 (Surr)	97		70 - 123					07/29/13 14:02	1

TestAmerica Buffalo

# Surrogate Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-42430-1	MW-304S	113	102	99
480-42430-2	MW-304VS	115	103	98
480-42430-3	MW-304D	116	102	100
480-42430-4	MW-303S	115	103	99
480-42488-1	MS-207SA	114	104	98
480-42488-2	MW-234D	116	103	98
480-42488-3	MW-207D	117	103	98
480-42488-4	MW-303D	118	103	99
480-42488-5	MW-230S	114	103	98
480-42488-6	MW-312S	120	105	99
480-42488-7	MW-223S	116	103	98
480-42488-8	MW-232S	120	104	99
480-42488-9	MW-233S	120	103	97
480-42572-1	MW-3B	118	103	97
480-42572-2	MW-221S	120	104	100
480-42572-3	MW-223D	118	103	98
480-42572-4	MW-221D	118	104	97
480-42572-5	MW-245S	123	104	99
480-42572-7	MW-222	120	103	98
480-42572-8	MW-220	119	104	98
480-42572-9	MW-245D	121	103	98
480-42659-1	PZ-11	117	105	98
480-42659-2	PZ-1A	121	105	98
480-42659-4	PZ-4	122	104	97

**Surrogate Legend**

12DCE = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-42430-5	Trip Blank	116	102	101
480-42488-10	Trip Blank	119	104	98
480-42572-10	Trip Blank	121	104	98
480-42659-5	Trip Blank	120	102	97
LCS 480-130203/4	Lab Control Sample	106	103	99
LCS 480-130518/5	Lab Control Sample	112	105	99
LCS 480-130852/4	Lab Control Sample	120	105	98
LCS 480-131135/5	Lab Control Sample	121	107	99
MB 480-130203/5	Method Blank	108	102	98
MB 480-130518/6	Method Blank	113	105	98
MB 480-130852/5	Method Blank	118	103	98
MB 480-131135/6	Method Blank	119	106	98

**Surrogate Legend**

TestAmerica Buffalo

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# Surrogate Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

12DCE = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-130203/5  
 Matrix: Water  
 Analysis Batch: 130203

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/23/13 15:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/23/13 15:13	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/23/13 15:13	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/23/13 15:13	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/23/13 15:13	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/23/13 15:13	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/23/13 15:13	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/23/13 15:13	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/23/13 15:13	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/23/13 15:13	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/23/13 15:13	1
Benzene	ND		5.0	0.60	ug/L			07/23/13 15:13	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/23/13 15:13	1
Bromoform	ND		5.0	0.47	ug/L			07/23/13 15:13	1
Bromomethane	ND		5.0	1.2	ug/L			07/23/13 15:13	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/23/13 15:13	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/23/13 15:13	1
Chloroethane	ND		5.0	0.87	ug/L			07/23/13 15:13	1
Chloroform	ND		5.0	0.54	ug/L			07/23/13 15:13	1
Chloromethane	ND		5.0	0.64	ug/L			07/23/13 15:13	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/23/13 15:13	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/23/13 15:13	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/23/13 15:13	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/23/13 15:13	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/23/13 15:13	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/23/13 15:13	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/23/13 15:13	1
o-Xylene	ND		5.0	0.43	ug/L			07/23/13 15:13	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/23/13 15:13	1
Toluene	ND		5.0	0.45	ug/L			07/23/13 15:13	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/23/13 15:13	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/23/13 15:13	1
Trichloroethene	ND		5.0	0.60	ug/L			07/23/13 15:13	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/23/13 15:13	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/23/13 15:13	1
Xylenes, Total	ND		10	1.1	ug/L			07/23/13 15:13	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		72 - 130		07/23/13 15:13	1
4-Bromofluorobenzene (Surr)	102		69 - 121		07/23/13 15:13	1
Toluene-d8 (Surr)	98		70 - 123		07/23/13 15:13	1

Lab Sample ID: LCS 480-130203/4  
 Matrix: Water  
 Analysis Batch: 130203

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-130203/4

Matrix: Water

Analysis Batch: 130203

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	46 - 157
1,1,2-Trichloroethane	20.0	19.9		ug/L		100	52 - 150
1,1-Dichloroethane	20.0	19.4		ug/L		97	59 - 155
1,1-Dichloroethene	20.0	18.4		ug/L		92	1 - 234
1,2-Dichlorobenzene	20.0	22.1		ug/L		110	18 - 190
1,2-Dichloroethane	20.0	20.7		ug/L		104	49 - 155
1,2-Dichloropropane	20.0	20.8		ug/L		104	1 - 210
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	59 - 156
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190
2-Chloroethyl vinyl ether	100	115		ug/L		115	1 - 305
Benzene	20.0	20.7		ug/L		104	37 - 151
Bromodichloromethane	20.0	20.3		ug/L		101	35 - 155
Bromoform	20.0	19.7		ug/L		99	45 - 169
Bromomethane	20.0	23.1		ug/L		116	1 - 242
Carbon tetrachloride	20.0	19.6		ug/L		98	70 - 140
Chlorobenzene	20.0	20.1		ug/L		100	37 - 160
Chloroethane	20.0	23.5		ug/L		118	14 - 230
Chloroform	20.0	20.4		ug/L		102	51 - 138
Chloromethane	20.0	21.2		ug/L		106	1 - 273
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	
cis-1,3-Dichloropropene	20.0	20.3		ug/L		101	1 - 227
Dibromochloromethane	20.0	19.1		ug/L		96	53 - 149
Dichlorodifluoromethane	20.0	27.7		ug/L		138	
Ethylbenzene	20.0	20.8		ug/L		104	37 - 162
Methylene Chloride	20.0	20.5		ug/L		103	1 - 221
m-Xylene & p-Xylene	40.0	42.3		ug/L		106	79 - 120
o-Xylene	20.0	20.8		ug/L		104	79 - 120
Tetrachloroethene	20.0	19.9		ug/L		99	64 - 148
Toluene	20.0	19.9		ug/L		99	47 - 150
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	54 - 156
trans-1,3-Dichloropropene	20.0	18.7		ug/L		94	17 - 183
Trichloroethene	20.0	20.2		ug/L		101	71 - 157
Trichlorofluoromethane	20.0	22.3		ug/L		111	17 - 181
Vinyl chloride	20.0	22.0		ug/L		110	1 - 251

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	106		72 - 130
4-Bromofluorobenzene (Surr)	103		69 - 121
Toluene-d8 (Surr)	99		70 - 123

Lab Sample ID: MB 480-130518/6

Matrix: Water

Analysis Batch: 130518

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/25/13 02:04	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/25/13 02:04	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/25/13 02:04	1

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-130518/6**  
**Matrix: Water**  
**Analysis Batch: 130518**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/25/13 02:04	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/25/13 02:04	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/25/13 02:04	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/25/13 02:04	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/25/13 02:04	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/25/13 02:04	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/25/13 02:04	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/25/13 02:04	1
Benzene	ND		5.0	0.60	ug/L			07/25/13 02:04	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/25/13 02:04	1
Bromoform	ND		5.0	0.47	ug/L			07/25/13 02:04	1
Bromomethane	ND		5.0	1.2	ug/L			07/25/13 02:04	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/25/13 02:04	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/25/13 02:04	1
Chloroethane	ND		5.0	0.87	ug/L			07/25/13 02:04	1
Chloroform	ND		5.0	0.54	ug/L			07/25/13 02:04	1
Chloromethane	ND		5.0	0.64	ug/L			07/25/13 02:04	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/25/13 02:04	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/25/13 02:04	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/25/13 02:04	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/25/13 02:04	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/25/13 02:04	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/25/13 02:04	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/25/13 02:04	1
o-Xylene	ND		5.0	0.43	ug/L			07/25/13 02:04	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/25/13 02:04	1
Toluene	ND		5.0	0.45	ug/L			07/25/13 02:04	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/25/13 02:04	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/25/13 02:04	1
Trichloroethene	ND		5.0	0.60	ug/L			07/25/13 02:04	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/25/13 02:04	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/25/13 02:04	1
Xylenes, Total	ND		10	1.1	ug/L			07/25/13 02:04	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	113		72 - 130		07/25/13 02:04	1
4-Bromofluorobenzene (Surr)	105		69 - 121		07/25/13 02:04	1
Toluene-d8 (Surr)	98		70 - 123		07/25/13 02:04	1

**Lab Sample ID: LCS 480-130518/5**  
**Matrix: Water**  
**Analysis Batch: 130518**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1-Trichloroethane	20.0	22.3		ug/L		111	52 - 162
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	46 - 157
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	52 - 150
1,1-Dichloroethane	20.0	21.1		ug/L		105	59 - 155

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-130518/5

Matrix: Water

Analysis Batch: 130518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	19.6		ug/L		98	1 - 234
1,2-Dichlorobenzene	20.0	22.9		ug/L		114	18 - 190
1,2-Dichloroethane	20.0	22.9		ug/L		114	49 - 155
1,2-Dichloropropane	20.0	21.8		ug/L		109	1 - 210
1,3-Dichlorobenzene	20.0	20.7		ug/L		103	59 - 156
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	18 - 190
2-Chloroethyl vinyl ether	100	117		ug/L		117	1 - 305
Benzene	20.0	22.0		ug/L		110	37 - 151
Bromodichloromethane	20.0	22.1		ug/L		111	35 - 155
Bromoform	20.0	21.1		ug/L		105	45 - 169
Bromomethane	20.0	26.9		ug/L		134	1 - 242
Carbon tetrachloride	20.0	21.9		ug/L		110	70 - 140
Chlorobenzene	20.0	21.1		ug/L		106	37 - 160
Chloroethane	20.0	25.8		ug/L		129	14 - 230
Chloroform	20.0	22.2		ug/L		111	51 - 138
Chloromethane	20.0	21.8		ug/L		109	1 - 273
cis-1,2-Dichloroethene	20.0	20.7		ug/L		104	
cis-1,3-Dichloropropene	20.0	21.1		ug/L		105	1 - 227
Dibromochloromethane	20.0	20.4		ug/L		102	53 - 149
Dichlorodifluoromethane	20.0	30.1		ug/L		151	
Ethylbenzene	20.0	22.2		ug/L		111	37 - 162
Methylene Chloride	20.0	21.6		ug/L		108	1 - 221
m-Xylene & p-Xylene	40.0	44.2		ug/L		111	79 - 120
o-Xylene	20.0	21.8		ug/L		109	79 - 120
Tetrachloroethene	20.0	20.4		ug/L		102	64 - 148
Toluene	20.0	21.3		ug/L		106	47 - 150
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	54 - 156
trans-1,3-Dichloropropene	20.0	20.1		ug/L		100	17 - 183
Trichloroethene	20.0	21.6		ug/L		108	71 - 157
Trichlorofluoromethane	20.0	27.1		ug/L		135	17 - 181
Vinyl chloride	20.0	24.3		ug/L		121	1 - 251

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	112		72 - 130
4-Bromofluorobenzene (Surr)	105		69 - 121
Toluene-d8 (Surr)	99		70 - 123

Lab Sample ID: MB 480-130852/5

Matrix: Water

Analysis Batch: 130852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/26/13 12:23	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/26/13 12:23	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/26/13 12:23	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/26/13 12:23	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/26/13 12:23	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/26/13 12:23	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-130852/5**  
**Matrix: Water**  
**Analysis Batch: 130852**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/26/13 12:23	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/26/13 12:23	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/26/13 12:23	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/26/13 12:23	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/26/13 12:23	1
Benzene	ND		5.0	0.60	ug/L			07/26/13 12:23	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/26/13 12:23	1
Bromoform	ND		5.0	0.47	ug/L			07/26/13 12:23	1
Bromomethane	ND		5.0	1.2	ug/L			07/26/13 12:23	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/26/13 12:23	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/26/13 12:23	1
Chloroethane	ND		5.0	0.87	ug/L			07/26/13 12:23	1
Chloroform	ND		5.0	0.54	ug/L			07/26/13 12:23	1
Chloromethane	ND		5.0	0.64	ug/L			07/26/13 12:23	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/26/13 12:23	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/26/13 12:23	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/26/13 12:23	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/26/13 12:23	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/26/13 12:23	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/26/13 12:23	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/26/13 12:23	1
o-Xylene	ND		5.0	0.43	ug/L			07/26/13 12:23	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/26/13 12:23	1
Toluene	ND		5.0	0.45	ug/L			07/26/13 12:23	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/26/13 12:23	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/26/13 12:23	1
Trichloroethene	ND		5.0	0.60	ug/L			07/26/13 12:23	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/26/13 12:23	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/26/13 12:23	1
Xylenes, Total	ND		10	1.1	ug/L			07/26/13 12:23	1

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Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	118		72 - 130		07/26/13 12:23	1
4-Bromofluorobenzene (Surr)	103		69 - 121		07/26/13 12:23	1
Toluene-d8 (Surr)	98		70 - 123		07/26/13 12:23	1

**Lab Sample ID: LCS 480-130852/4**  
**Matrix: Water**  
**Analysis Batch: 130852**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
1,1,1-Trichloroethane	20.0	22.0		ug/L		110	52 - 162	
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	46 - 157	
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	52 - 150	
1,1-Dichloroethane	20.0	20.6		ug/L		103	59 - 155	
1,1-Dichloroethene	20.0	17.9		ug/L		90	1 - 234	
1,2-Dichlorobenzene	20.0	22.2		ug/L		111	18 - 190	
1,2-Dichloroethane	20.0	23.3		ug/L		117	49 - 155	

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-130852/4

Matrix: Water

Analysis Batch: 130852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,2-Dichloropropane	20.0	21.1		ug/L		106	1 - 210
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	59 - 156
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	18 - 190
2-Chloroethyl vinyl ether	100	104		ug/L		104	1 - 305
Benzene	20.0	21.3		ug/L		107	37 - 151
Bromodichloromethane	20.0	21.7		ug/L		108	35 - 155
Bromoform	20.0	20.4		ug/L		102	45 - 169
Bromomethane	20.0	25.2		ug/L		126	1 - 242
Carbon tetrachloride	20.0	21.1		ug/L		106	70 - 140
Chlorobenzene	20.0	20.3		ug/L		102	37 - 160
Chloroethane	20.0	23.1		ug/L		116	14 - 230
Chloroform	20.0	22.0		ug/L		110	51 - 138
Chloromethane	20.0	22.8		ug/L		114	1 - 273
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	1 - 227
Dibromochloromethane	20.0	19.8		ug/L		99	53 - 149
Dichlorodifluoromethane	20.0	30.4		ug/L		152	
Ethylbenzene	20.0	21.1		ug/L		106	37 - 162
Methylene Chloride	20.0	21.2		ug/L		106	1 - 221
m-Xylene & p-Xylene	40.0	43.0		ug/L		108	79 - 120
o-Xylene	20.0	21.1		ug/L		106	79 - 120
Tetrachloroethene	20.0	19.4		ug/L		97	64 - 148
Toluene	20.0	20.2		ug/L		101	47 - 150
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	54 - 156
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	17 - 183
Trichloroethene	20.0	21.3		ug/L		106	71 - 157
Trichlorofluoromethane	20.0	27.6		ug/L		138	17 - 181
Vinyl chloride	20.0	23.0		ug/L		115	1 - 251

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	120		72 - 130
4-Bromofluorobenzene (Surr)	105		69 - 121
Toluene-d8 (Surr)	98		70 - 123

Lab Sample ID: MB 480-131135/6

Matrix: Water

Analysis Batch: 131135

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/29/13 12:43	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/29/13 12:43	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/29/13 12:43	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/29/13 12:43	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/29/13 12:43	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/29/13 12:43	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/29/13 12:43	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/29/13 12:43	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/29/13 12:43	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131135/6

Matrix: Water

Analysis Batch: 131135

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/29/13 12:43	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/29/13 12:43	1
Benzene	ND		5.0	0.60	ug/L			07/29/13 12:43	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/29/13 12:43	1
Bromoform	ND		5.0	0.47	ug/L			07/29/13 12:43	1
Bromomethane	ND		5.0	1.2	ug/L			07/29/13 12:43	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/29/13 12:43	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/29/13 12:43	1
Chloroethane	ND		5.0	0.87	ug/L			07/29/13 12:43	1
Chloroform	ND		5.0	0.54	ug/L			07/29/13 12:43	1
Chloromethane	ND		5.0	0.64	ug/L			07/29/13 12:43	1
cis-1,2-Dichloroethene	ND		5.0	0.57	ug/L			07/29/13 12:43	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/29/13 12:43	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/29/13 12:43	1
Dichlorodifluoromethane	ND		5.0	0.28	ug/L			07/29/13 12:43	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/29/13 12:43	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/29/13 12:43	1
m-Xylene & p-Xylene	ND		10	1.1	ug/L			07/29/13 12:43	1
o-Xylene	ND		5.0	0.43	ug/L			07/29/13 12:43	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/29/13 12:43	1
Toluene	ND		5.0	0.45	ug/L			07/29/13 12:43	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			07/29/13 12:43	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/29/13 12:43	1
Trichloroethene	ND		5.0	0.60	ug/L			07/29/13 12:43	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/29/13 12:43	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/29/13 12:43	1
Xylenes, Total	ND		10	1.1	ug/L			07/29/13 12:43	1

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Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	119		72 - 130		07/29/13 12:43	1
4-Bromofluorobenzene (Surr)	106		69 - 121		07/29/13 12:43	1
Toluene-d8 (Surr)	98		70 - 123		07/29/13 12:43	1

Lab Sample ID: LCS 480-131135/5

Matrix: Water

Analysis Batch: 131135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	46 - 157
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	52 - 150
1,1-Dichloroethane	20.0	20.2		ug/L		101	59 - 155
1,1-Dichloroethene	20.0	18.4		ug/L		92	1 - 234
1,2-Dichlorobenzene	20.0	22.0		ug/L		110	18 - 190
1,2-Dichloroethane	20.0	24.1		ug/L		120	49 - 155
1,2-Dichloropropane	20.0	20.7		ug/L		103	1 - 210
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	59 - 156
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	18 - 190

TestAmerica Buffalo



## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-131135/5  
 Matrix: Water  
 Analysis Batch: 131135

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
2-Chloroethyl vinyl ether	100	106		ug/L		106	1 - 305
Benzene	20.0	20.9		ug/L		104	37 - 151
Bromodichloromethane	20.0	21.7		ug/L		108	35 - 155
Bromoform	20.0	21.8		ug/L		109	45 - 169
Bromomethane	20.0	24.0		ug/L		120	1 - 242
Carbon tetrachloride	20.0	21.3		ug/L		107	70 - 140
Chlorobenzene	20.0	20.4		ug/L		102	37 - 160
Chloroethane	20.0	23.3		ug/L		117	14 - 230
Chloroform	20.0	22.0		ug/L		110	51 - 138
Chloromethane	20.0	23.0		ug/L		115	1 - 273
cis-1,2-Dichloroethene	20.0	20.7		ug/L		104	
cis-1,3-Dichloropropene	20.0	20.5		ug/L		102	1 - 227
Dibromochloromethane	20.0	21.3		ug/L		106	53 - 149
Dichlorodifluoromethane	20.0	29.9		ug/L		149	
Ethylbenzene	20.0	21.1		ug/L		106	37 - 162
Methylene Chloride	20.0	21.0		ug/L		105	1 - 221
m-Xylene & p-Xylene	40.0	42.3		ug/L		106	79 - 120
o-Xylene	20.0	21.0		ug/L		105	79 - 120
Tetrachloroethene	20.0	20.1		ug/L		100	64 - 148
Toluene	20.0	19.8		ug/L		99	47 - 150
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	54 - 156
trans-1,3-Dichloropropene	20.0	19.5		ug/L		97	17 - 183
Trichloroethene	20.0	21.2		ug/L		106	71 - 157
Trichlorofluoromethane	20.0	28.2		ug/L		141	17 - 181
Vinyl chloride	20.0	23.1		ug/L		115	1 - 251

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	121		72 - 130
4-Bromofluorobenzene (Surr)	107		69 - 121
Toluene-d8 (Surr)	99		70 - 123

### Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-130253/1-A  
 Matrix: Water  
 Analysis Batch: 130559

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130253

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		07/24/13 08:20	07/24/13 23:03	1
Antimony	0.0135	J	0.020	0.0068	mg/L		07/24/13 08:20	07/24/13 23:03	1
Arsenic	ND		0.010	0.0056	mg/L		07/24/13 08:20	07/24/13 23:03	1
Barium	0.00129	J	0.0020	0.00070	mg/L		07/24/13 08:20	07/24/13 23:03	1
Beryllium	0.000630	J	0.0020	0.00030	mg/L		07/24/13 08:20	07/24/13 23:03	1
Boron	0.00410	J	0.020	0.0040	mg/L		07/24/13 08:20	07/24/13 23:03	1
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 08:20	07/24/13 23:03	1
Chromium	ND		0.0040	0.0010	mg/L		07/24/13 08:20	07/24/13 23:03	1
Copper	ND		0.010	0.0016	mg/L		07/24/13 08:20	07/24/13 23:03	1
Iron	ND		0.050	0.019	mg/L		07/24/13 08:20	07/24/13 23:03	1

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 480-130253/1-A  
 Matrix: Water  
 Analysis Batch: 130559

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130253

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0050	0.0030	mg/L		07/24/13 08:20	07/24/13 23:03	1
Magnesium	ND		0.20	0.043	mg/L		07/24/13 08:20	07/24/13 23:03	1
Nickel	ND		0.010	0.0013	mg/L		07/24/13 08:20	07/24/13 23:03	1
Potassium	0.123	J	0.50	0.10	mg/L		07/24/13 08:20	07/24/13 23:03	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/24/13 23:03	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/24/13 23:03	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/24/13 23:03	1
Zinc	0.00711	J	0.010	0.0015	mg/L		07/24/13 08:20	07/24/13 23:03	1

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Lab Sample ID: MB 480-130253/1-A  
 Matrix: Water  
 Analysis Batch: 130810

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130253

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	0.453	J	0.50	0.10	mg/L		07/24/13 08:20	07/25/13 18:28	1
Manganese	0.000720	J	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 18:28	1
Sodium	0.942	J	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 18:28	1

Lab Sample ID: LCS 480-130253/2-A  
 Matrix: Water  
 Analysis Batch: 130559

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130253

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aluminum	10.0	10.3		mg/L		103	80 - 120
Antimony	0.200	0.204		mg/L		102	80 - 120
Arsenic	0.200	0.208		mg/L		104	80 - 120
Barium	0.200	0.205		mg/L		103	80 - 120
Beryllium	0.200	0.208		mg/L		104	80 - 120
Boron	0.200	0.202		mg/L		101	80 - 120
Cadmium	0.200	0.199		mg/L		100	80 - 120
Calcium	10.0	10.7		mg/L		107	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Copper	0.200	0.200		mg/L		100	80 - 120
Iron	10.0	10.1		mg/L		101	80 - 120
Lead	0.200	0.200		mg/L		100	80 - 120
Magnesium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.200	0.205		mg/L		103	80 - 120
Nickel	0.200	0.199		mg/L		99	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120
Selenium	0.200	0.202		mg/L		101	80 - 120
Silver	0.0500	0.0498		mg/L		100	80 - 120
Sodium	10.0	10.5		mg/L		104	80 - 120
Thallium	0.200	0.209		mg/L		104	80 - 120
Zinc	0.200	0.201		mg/L		101	80 - 120

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-130253/2-A  
 Matrix: Water  
 Analysis Batch: 130810

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130253

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Calcium	10.0	10.6		mg/L		106	80 - 120
Manganese	0.200	0.198		mg/L		99	80 - 120
Sodium	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: MB 480-130499/1-A  
 Matrix: Water  
 Analysis Batch: 130952

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130499

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/26/13 11:22	1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/26/13 11:22	1
Arsenic	ND		0.010	0.0056	mg/L		07/25/13 08:30	07/26/13 11:22	1
Barium	ND		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 11:22	1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/26/13 11:22	1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/26/13 11:22	1
Calcium	0.128	J	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:22	1
Chromium	0.00325	J	0.0040	0.0010	mg/L		07/25/13 08:30	07/26/13 11:22	1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/26/13 11:22	1
Iron	ND		0.050	0.019	mg/L		07/25/13 08:30	07/26/13 11:22	1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/26/13 11:22	1
Magnesium	ND		0.20	0.043	mg/L		07/25/13 08:30	07/26/13 11:22	1
Manganese	0.000450	J	0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 11:22	1
Nickel	0.00163	J	0.010	0.0013	mg/L		07/25/13 08:30	07/26/13 11:22	1
Potassium	0.176	J	0.50	0.10	mg/L		07/25/13 08:30	07/26/13 11:22	1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/26/13 11:22	1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/26/13 11:22	1
Sodium	ND		1.0	0.32	mg/L		07/25/13 08:30	07/26/13 11:22	1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/26/13 11:22	1
Zinc	ND		0.010	0.0015	mg/L		07/25/13 08:30	07/26/13 11:22	1

Lab Sample ID: LCS 480-130499/2-A  
 Matrix: Water  
 Analysis Batch: 130952

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130499

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aluminum	10.0	10.0		mg/L		100	80 - 120
Antimony	0.200	0.193		mg/L		97	80 - 120
Arsenic	0.200	0.201		mg/L		101	80 - 120
Barium	0.200	0.202		mg/L		101	80 - 120
Beryllium	0.200	0.201		mg/L		101	80 - 120
Cadmium	0.200	0.195		mg/L		97	80 - 120
Calcium	10.0	9.88		mg/L		99	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Copper	0.200	0.195		mg/L		97	80 - 120
Iron	10.0	9.86		mg/L		99	80 - 120
Lead	0.200	0.194		mg/L		97	80 - 120
Magnesium	10.0	9.85		mg/L		98	80 - 120
Manganese	0.200	0.194		mg/L		97	80 - 120

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 480-130499/2-A**  
**Matrix: Water**  
**Analysis Batch: 130952**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 130499**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Nickel	0.200	0.194		mg/L		97	80 - 120
Potassium	10.0	9.68		mg/L		97	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0497		mg/L		99	80 - 120
Sodium	10.0	9.62		mg/L		96	80 - 120
Thallium	0.200	0.199		mg/L		99	80 - 120
Zinc	0.200	0.196		mg/L		98	80 - 120

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**Lab Sample ID: 480-42488-3 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 130952**

**Client Sample ID: MW-207D**  
**Prep Type: Total/NA**  
**Prep Batch: 130499**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Aluminum	0.18	J	10.0	10.7		mg/L		105	75 - 125
Antimony	ND		0.200	0.205		mg/L		102	75 - 125
Arsenic	0.057		0.200	0.270		mg/L		106	75 - 125
Barium	0.093		0.200	0.295		mg/L		101	75 - 125
Beryllium	ND		0.200	0.207		mg/L		104	75 - 125
Cadmium	ND		0.200	0.205		mg/L		102	75 - 125
Calcium	120	B	10.0	128	4	mg/L		98	75 - 125
Chromium	0.0012	J B	0.200	0.201		mg/L		100	75 - 125
Copper	0.0023	J	0.200	0.204		mg/L		101	75 - 125
Iron	3.5		10.0	13.7		mg/L		102	75 - 125
Lead	ND		0.200	0.202		mg/L		101	75 - 125
Magnesium	23		10.0	33.1		mg/L		101	75 - 125
Manganese	1.7	B	0.200	1.90	4	mg/L		95	75 - 125
Nickel	ND		0.200	0.200		mg/L		100	75 - 125
Potassium	1.2	B	10.0	11.3		mg/L		101	75 - 125
Selenium	ND		0.200	0.208		mg/L		104	75 - 125
Silver	ND		0.0500	0.0519		mg/L		104	75 - 125
Sodium	8.7		10.0	18.9		mg/L		101	75 - 125
Thallium	ND		0.200	0.204		mg/L		102	75 - 125
Zinc	0.026		0.200	0.222		mg/L		98	75 - 125

**Lab Sample ID: 480-42488-3 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 130952**

**Client Sample ID: MW-207D**  
**Prep Type: Total/NA**  
**Prep Batch: 130499**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
Aluminum	0.18	J	10.0	11.2		mg/L		110	75 - 125	5	20
Antimony	ND		0.200	0.203		mg/L		102	75 - 125	1	20
Arsenic	0.057		0.200	0.272		mg/L		108	75 - 125	1	20
Barium	0.093		0.200	0.297		mg/L		102	75 - 125	1	20
Beryllium	ND		0.200	0.210		mg/L		105	75 - 125	1	20
Cadmium	ND		0.200	0.206		mg/L		103	75 - 125	1	20
Calcium	120	B	10.0	127	4	mg/L		91	75 - 125	1	20
Chromium	0.0012	J B	0.200	0.202		mg/L		100	75 - 125	1	20
Copper	0.0023	J	0.200	0.205		mg/L		102	75 - 125	1	20
Iron	3.5		10.0	14.5		mg/L		109	75 - 125	6	20

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 480-42488-3 MSD

Matrix: Ground Water

Analysis Batch: 130952

Client Sample ID: MW-207D

Prep Type: Total/NA

Prep Batch: 130499

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Lead	ND		0.200	0.203		mg/L		102	75 - 125	1	20
Magnesium	23		10.0	33.1		mg/L		101	75 - 125	0	20
Manganese	1.7	B	0.200	1.89	4	mg/L		93	75 - 125	0	20
Nickel	ND		0.200	0.202		mg/L		101	75 - 125	1	20
Potassium	1.2	B	10.0	11.6		mg/L		104	75 - 125	3	20
Selenium	ND		0.200	0.211		mg/L		105	75 - 125	1	20
Silver	ND		0.0500	0.0521		mg/L		104	75 - 125	0	20
Sodium	8.7		10.0	18.9		mg/L		102	75 - 125	0	20
Thallium	ND		0.200	0.208		mg/L		104	75 - 125	2	20
Zinc	0.026		0.200	0.222		mg/L		98	75 - 125	0	20

Lab Sample ID: MB 480-130733/1-A

Matrix: Water

Analysis Batch: 131020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130733

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 20:38		1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 20:38		1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 20:38		1
Barium	ND		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 20:38		1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 20:38		1
Boron	0.0115	J	0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 20:38		1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 20:38		1
Calcium	ND		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 20:38		1
Chromium	ND		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 20:38		1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 20:38		1
Iron	ND		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 20:38		1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 20:38		1
Magnesium	ND		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 20:38		1
Manganese	0.000970	J	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 20:38		1
Nickel	ND		0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 20:38		1
Potassium	0.498	J	0.50	0.10	mg/L		07/26/13 08:50	07/26/13 20:38		1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 20:38		1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 20:38		1
Sodium	0.695	J	1.0	0.32	mg/L		07/26/13 08:50	07/26/13 20:38		1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 20:38		1
Zinc	ND		0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 20:38		1

Lab Sample ID: LCS 480-130733/2-A

Matrix: Water

Analysis Batch: 131020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130733

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Aluminum	10.0	10.4		mg/L		104	80 - 120
Antimony	0.200	0.205		mg/L		103	80 - 120
Arsenic	0.200	0.210		mg/L		105	80 - 120
Barium	0.200	0.207		mg/L		104	80 - 120
Beryllium	0.200	0.215		mg/L		107	80 - 120
Boron	0.200	0.206		mg/L		103	80 - 120

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID:** LCS 480-130733/2-A  
**Matrix:** Water  
**Analysis Batch:** 131020

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 130733

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cadmium	0.200	0.203		mg/L		102	80 - 120
Calcium	10.0	10.6		mg/L		106	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Copper	0.200	0.203		mg/L		102	80 - 120
Iron	10.0	10.4		mg/L		104	80 - 120
Lead	0.200	0.204		mg/L		102	80 - 120
Magnesium	10.0	10.4		mg/L		104	80 - 120
Manganese	0.200	0.208		mg/L		104	80 - 120
Nickel	0.200	0.203		mg/L		101	80 - 120
Potassium	10.0	10.0		mg/L		100	80 - 120
Selenium	0.200	0.205		mg/L		102	80 - 120
Silver	0.0500	0.0495		mg/L		99	80 - 120
Sodium	10.0	9.86		mg/L		99	80 - 120
Thallium	0.200	0.209		mg/L		104	80 - 120
Zinc	0.200	0.201		mg/L		101	80 - 120

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**Lab Sample ID:** MB 480-131069/1-A  
**Matrix:** Water  
**Analysis Batch:** 131310

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 131069

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		07/29/13 08:15	07/30/13 01:01	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/30/13 01:01	1
Arsenic	ND		0.010	0.0056	mg/L		07/29/13 08:15	07/30/13 01:01	1
Barium	ND		0.0020	0.00070	mg/L		07/29/13 08:15	07/30/13 01:01	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/30/13 01:01	1
Boron	ND		0.020	0.0040	mg/L		07/29/13 08:15	07/30/13 01:01	1
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/30/13 01:01	1
Calcium	ND		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:01	1
Chromium	ND		0.0040	0.0010	mg/L		07/29/13 08:15	07/30/13 01:01	1
Copper	ND		0.010	0.0016	mg/L		07/29/13 08:15	07/30/13 01:01	1
Magnesium	ND		0.20	0.043	mg/L		07/29/13 08:15	07/30/13 01:01	1
Manganese	0.000560	J	0.0030	0.00040	mg/L		07/29/13 08:15	07/30/13 01:01	1
Potassium	ND		0.50	0.10	mg/L		07/29/13 08:15	07/30/13 01:01	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/30/13 01:01	1
Sodium	ND		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 01:01	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/30/13 01:01	1
Zinc	ND		0.010	0.0015	mg/L		07/29/13 08:15	07/30/13 01:01	1

**Lab Sample ID:** MB 480-131069/1-A  
**Matrix:** Water  
**Analysis Batch:** 131452

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 131069

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	ND		0.050	0.019	mg/L		07/29/13 08:15	07/30/13 10:34	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/30/13 10:34	1
Nickel	ND		0.010	0.0013	mg/L		07/29/13 08:15	07/30/13 10:34	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/30/13 10:34	1
Sodium	ND		1.0	0.32	mg/L		07/29/13 08:15	07/30/13 10:34	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID:** LCS 480-131069/2-A  
**Matrix:** Water  
**Analysis Batch:** 131310

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 131069

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aluminum	10.0	10.6		mg/L		106	80 - 120
Antimony	0.200	0.192		mg/L		96	80 - 120
Arsenic	0.200	0.205		mg/L		103	80 - 120
Barium	0.200	0.216		mg/L		108	80 - 120
Beryllium	0.200	0.205		mg/L		103	80 - 120
Boron	0.200	0.204		mg/L		102	80 - 120
Cadmium	0.200	0.200		mg/L		100	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Copper	0.200	0.204		mg/L		102	80 - 120
Magnesium	10.0	10.6		mg/L		106	80 - 120
Manganese	0.200	0.207		mg/L		104	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120
Silver	0.0500	0.0524		mg/L		105	80 - 120
Sodium	10.0	10.2		mg/L		102	80 - 120
Thallium	0.200	0.204		mg/L		102	80 - 120
Zinc	0.200	0.211		mg/L		105	80 - 120

**Lab Sample ID:** LCS 480-131069/2-A  
**Matrix:** Water  
**Analysis Batch:** 131452

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 131069

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Iron	10.0	10.6		mg/L		106	80 - 120
Lead	0.200	0.202		mg/L		101	80 - 120
Nickel	0.200	0.202		mg/L		101	80 - 120
Selenium	0.200	0.210		mg/L		105	80 - 120
Sodium	10.0	10.6		mg/L		105	80 - 120

**Lab Sample ID:** MB 480-131608/1-A  
**Matrix:** Water  
**Analysis Batch:** 131989

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 131608

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		07/31/13 11:10	08/01/13 14:35	1
Antimony	ND		0.020	0.0068	mg/L		07/31/13 11:10	08/01/13 14:35	1
Arsenic	ND		0.010	0.0056	mg/L		07/31/13 11:10	08/01/13 14:35	1
Barium	ND		0.0020	0.00070	mg/L		07/31/13 11:10	08/01/13 14:35	1
Beryllium	ND		0.0020	0.00030	mg/L		07/31/13 11:10	08/01/13 14:35	1
Boron	0.00504	J	0.020	0.0040	mg/L		07/31/13 11:10	08/01/13 14:35	1
Cadmium	ND		0.0010	0.00050	mg/L		07/31/13 11:10	08/01/13 14:35	1
Calcium	0.141	J	0.50	0.10	mg/L		07/31/13 11:10	08/01/13 14:35	1
Chromium	ND		0.0040	0.0010	mg/L		07/31/13 11:10	08/01/13 14:35	1
Copper	ND		0.010	0.0016	mg/L		07/31/13 11:10	08/01/13 14:35	1
Iron	ND		0.050	0.019	mg/L		07/31/13 11:10	08/01/13 14:35	1
Lead	ND		0.0050	0.0030	mg/L		07/31/13 11:10	08/01/13 14:35	1
Magnesium	0.0463	J	0.20	0.043	mg/L		07/31/13 11:10	08/01/13 14:35	1
Manganese	ND		0.0030	0.00040	mg/L		07/31/13 11:10	08/01/13 14:35	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 480-131608/1-A**  
**Matrix: Water**  
**Analysis Batch: 131989**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131608**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nickel	ND		0.010	0.0013	mg/L		07/31/13 11:10	08/01/13 14:35	1
Potassium	ND		0.50	0.10	mg/L		07/31/13 11:10	08/01/13 14:35	1
Selenium	ND		0.015	0.0087	mg/L		07/31/13 11:10	08/01/13 14:35	1
Silver	ND		0.0030	0.0017	mg/L		07/31/13 11:10	08/01/13 14:35	1
Sodium	ND		1.0	0.32	mg/L		07/31/13 11:10	08/01/13 14:35	1
Thallium	ND		0.020	0.010	mg/L		07/31/13 11:10	08/01/13 14:35	1
Zinc	0.00181	J	0.010	0.0015	mg/L		07/31/13 11:10	08/01/13 14:35	1

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**Lab Sample ID: LCS 480-131608/2-A**  
**Matrix: Water**  
**Analysis Batch: 131989**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131608**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aluminum	10.0	10.2		mg/L		102	80 - 120
Antimony	0.200	0.203		mg/L		102	80 - 120
Arsenic	0.200	0.209		mg/L		104	80 - 120
Barium	0.200	0.211		mg/L		105	80 - 120
Beryllium	0.200	0.202		mg/L		101	80 - 120
Boron	0.200	0.213		mg/L		106	80 - 120
Cadmium	0.200	0.202		mg/L		101	80 - 120
Calcium	10.0	9.94		mg/L		99	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Copper	0.200	0.204		mg/L		102	80 - 120
Iron	10.0	9.52		mg/L		95	80 - 120
Lead	0.200	0.199		mg/L		99	80 - 120
Magnesium	10.0	10.2		mg/L		102	80 - 120
Manganese	0.200	0.203		mg/L		101	80 - 120
Nickel	0.200	0.198		mg/L		99	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120
Selenium	0.200	0.207		mg/L		103	80 - 120
Silver	0.0500	0.0524		mg/L		105	80 - 120
Sodium	10.0	10.2		mg/L		102	80 - 120
Thallium	0.200	0.202		mg/L		101	80 - 120
Zinc	0.200	0.200		mg/L		100	80 - 120

**Lab Sample ID: LCSD 480-129753/31-B**  
**Matrix: Water**  
**Analysis Batch: 130375**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Dissolved**  
**Prep Batch: 130037**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Aluminum	10.0	10.2		mg/L		102	80 - 120	1	20
Antimony	0.200	0.207		mg/L		103	80 - 120	1	20
Arsenic	0.200	0.218		mg/L		109	80 - 120	2	20
Barium	0.200	0.207		mg/L		104	80 - 120	2	20
Beryllium	0.200	0.208		mg/L		104	80 - 120	1	20
Boron	0.200	0.213		mg/L		106	80 - 120	1	20
Cadmium	0.200	0.204		mg/L		102	80 - 120	1	20
Calcium	10.0	10.4		mg/L		104	80 - 120	2	20
Chromium	0.200	0.203		mg/L		102	80 - 120	2	20

TestAmerica Buffalo



# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 480-129753/31-B  
 Matrix: Water  
 Analysis Batch: 130375

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Dissolved  
 Prep Batch: 130037

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Copper	0.200	0.202		mg/L		101	80 - 120	2	20
Iron	10.0	10.0		mg/L		100	80 - 120	1	20
Lead	0.200	0.197		mg/L		99	80 - 120	0	20
Magnesium	10.0	10.4		mg/L		104	80 - 120	3	20
Manganese	0.200	0.207		mg/L		104	80 - 120	2	20
Nickel	0.200	0.197		mg/L		98	80 - 120	1	20
Potassium	10.0	9.88		mg/L		99	80 - 120	0	20
Selenium	0.200	0.209	^	mg/L		105	80 - 120	2	20
Silver	0.0500	0.0514		mg/L		103	80 - 120	1	20
Sodium	10.0	9.96		mg/L		100	80 - 120	1	20
Thallium	0.200	0.207		mg/L		103	80 - 120	1	20
Zinc	0.200	0.203		mg/L		102	80 - 120	3	20

Lab Sample ID: MB 480-129753/17-B  
 Matrix: Water  
 Analysis Batch: 130549

Client Sample ID: Method Blank  
 Prep Type: Dissolved  
 Prep Batch: 130254

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		07/24/13 08:20	07/25/13 01:39	1
Antimony	ND		0.020	0.0068	mg/L		07/24/13 08:20	07/25/13 01:39	1
Arsenic	ND		0.010	0.0056	mg/L		07/24/13 08:20	07/25/13 01:39	1
Barium	ND		0.0020	0.00070	mg/L		07/24/13 08:20	07/25/13 01:39	1
Beryllium	ND		0.0020	0.00030	mg/L		07/24/13 08:20	07/25/13 01:39	1
Boron	0.00420	J	0.020	0.0040	mg/L		07/24/13 08:20	07/25/13 01:39	1
Cadmium	ND		0.0010	0.00050	mg/L		07/24/13 08:20	07/25/13 01:39	1
Calcium	0.617		0.50	0.10	mg/L		07/24/13 08:20	07/25/13 01:39	1
Chromium	ND		0.0040	0.0010	mg/L		07/24/13 08:20	07/25/13 01:39	1
Copper	ND		0.010	0.0016	mg/L		07/24/13 08:20	07/25/13 01:39	1
Iron	ND		0.050	0.019	mg/L		07/24/13 08:20	07/25/13 01:39	1
Lead	ND		0.0050	0.0030	mg/L		07/24/13 08:20	07/25/13 01:39	1
Magnesium	ND		0.20	0.043	mg/L		07/24/13 08:20	07/25/13 01:39	1
Manganese	0.00141	J	0.0030	0.00040	mg/L		07/24/13 08:20	07/25/13 01:39	1
Nickel	ND		0.010	0.0013	mg/L		07/24/13 08:20	07/25/13 01:39	1
Potassium	ND		0.50	0.10	mg/L		07/24/13 08:20	07/25/13 01:39	1
Selenium	ND		0.015	0.0087	mg/L		07/24/13 08:20	07/25/13 01:39	1
Silver	ND		0.0030	0.0017	mg/L		07/24/13 08:20	07/25/13 01:39	1
Sodium	0.608	J	1.0	0.32	mg/L		07/24/13 08:20	07/25/13 01:39	1
Thallium	ND		0.020	0.010	mg/L		07/24/13 08:20	07/25/13 01:39	1
Zinc	ND		0.010	0.0015	mg/L		07/24/13 08:20	07/25/13 01:39	1

Lab Sample ID: LCS 480-129753/18-B  
 Matrix: Water  
 Analysis Batch: 130549

Client Sample ID: Lab Control Sample  
 Prep Type: Dissolved  
 Prep Batch: 130254

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aluminum	10.0	10.0		mg/L		100	80 - 120
Antimony	0.200	0.190		mg/L		95	80 - 120
Arsenic	0.200	0.199		mg/L		99	80 - 120
Barium	0.200	0.202		mg/L		101	80 - 120

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-129753/18-B  
 Matrix: Water  
 Analysis Batch: 130549

Client Sample ID: Lab Control Sample  
 Prep Type: Dissolved  
 Prep Batch: 130254

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Beryllium	0.200	0.202		mg/L		101	80 - 120
Boron	0.200	0.199		mg/L		100	80 - 120
Cadmium	0.200	0.193		mg/L		97	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Copper	0.200	0.194		mg/L		97	80 - 120
Iron	10.0	9.73		mg/L		97	80 - 120
Lead	0.200	0.195		mg/L		98	80 - 120
Magnesium	10.0	10.0		mg/L		100	80 - 120
Manganese	0.200	0.198		mg/L		99	80 - 120
Nickel	0.200	0.194		mg/L		97	80 - 120
Potassium	10.0	10.0		mg/L		100	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0496		mg/L		99	80 - 120
Sodium	10.0	9.84		mg/L		98	80 - 120
Thallium	0.200	0.201		mg/L		101	80 - 120
Zinc	0.200	0.201		mg/L		101	80 - 120

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Lab Sample ID: 480-42430-3 MS  
 Matrix: Ground Water  
 Analysis Batch: 130549

Client Sample ID: MW-304D  
 Prep Type: Dissolved  
 Prep Batch: 130254

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Aluminum	0.10	J	10.0	10.2		mg/L		101	75 - 125
Antimony	ND		0.200	0.197		mg/L		98	75 - 125
Arsenic	0.012		0.200	0.218		mg/L		103	75 - 125
Barium	0.11		0.200	0.303		mg/L		98	75 - 125
Beryllium	ND		0.200	0.204		mg/L		102	75 - 125
Boron	0.054	B	0.200	0.251		mg/L		99	75 - 125
Cadmium	ND		0.200	0.197		mg/L		98	75 - 125
Calcium	87	B7	10.0	93.3	4	mg/L		65	75 - 125
Chromium	ND		0.200	0.197		mg/L		98	75 - 125
Copper	ND		0.200	0.198		mg/L		99	75 - 125
Iron	2.5		10.0	12.1		mg/L		96	75 - 125
Lead	ND		0.200	0.197		mg/L		98	75 - 125
Magnesium	21		10.0	30.4		mg/L		93	75 - 125
Manganese	0.33	B	0.200	0.512		mg/L		90	75 - 125
Nickel	0.0014	J	0.200	0.197		mg/L		98	75 - 125
Potassium	4.2		10.0	14.3		mg/L		101	75 - 125
Selenium	ND		0.200	0.200		mg/L		100	75 - 125
Silver	ND		0.0500	0.0500		mg/L		100	75 - 125
Sodium	33	B	10.0	41.5		mg/L		88	75 - 125
Thallium	ND		0.200	0.203		mg/L		102	75 - 125
Zinc	0.018		0.200	0.209		mg/L		95	75 - 125

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 480-42430-3 MSD

Matrix: Ground Water

Analysis Batch: 130549

Client Sample ID: MW-304D

Prep Type: Dissolved

Prep Batch: 130254

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Aluminum	0.10	J	10.0	10.1		mg/L		100	75 - 125	1	20
Antimony	ND		0.200	0.193		mg/L		96	75 - 125	2	20
Arsenic	0.012		0.200	0.217		mg/L		103	75 - 125	1	20
Barium	0.11		0.200	0.299		mg/L		96	75 - 125	1	20
Beryllium	ND		0.200	0.203		mg/L		102	75 - 125	1	20
Boron	0.054	B	0.200	0.248		mg/L		97	75 - 125	1	20
Cadmium	ND		0.200	0.195		mg/L		98	75 - 125	1	20
Calcium	87	B7	10.0	92.7	4	mg/L		59	75 - 125	1	20
Chromium	ND		0.200	0.196		mg/L		98	75 - 125	0	20
Copper	ND		0.200	0.196		mg/L		98	75 - 125	1	20
Iron	2.5		10.0	12.0		mg/L		95	75 - 125	1	20
Lead	ND		0.200	0.197		mg/L		99	75 - 125	0	20
Magnesium	21		10.0	29.9		mg/L		88	75 - 125	2	20
Manganese	0.33	B	0.200	0.503		mg/L		86	75 - 125	2	20
Nickel	0.0014	J	0.200	0.197		mg/L		98	75 - 125	0	20
Potassium	4.2		10.0	14.1		mg/L		99	75 - 125	1	20
Selenium	ND		0.200	0.198		mg/L		99	75 - 125	1	20
Silver	ND		0.0500	0.0503		mg/L		101	75 - 125	0	20
Sodium	33	B	10.0	41.0		mg/L		84	75 - 125	1	20
Thallium	ND		0.200	0.202		mg/L		101	75 - 125	1	20
Zinc	0.018		0.200	0.209		mg/L		95	75 - 125	0	20

Lab Sample ID: MB 480-130497/1-B

Matrix: Water

Analysis Batch: 130814

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 130498

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Aluminum	ND		0.20	0.060	mg/L		07/25/13 08:30	07/25/13 22:01		1
Antimony	ND		0.020	0.0068	mg/L		07/25/13 08:30	07/25/13 22:01		1
Arsenic	ND		0.010	0.0056	mg/L		07/25/13 08:30	07/25/13 22:01		1
Beryllium	ND		0.0020	0.00030	mg/L		07/25/13 08:30	07/25/13 22:01		1
Cadmium	ND		0.0010	0.00050	mg/L		07/25/13 08:30	07/25/13 22:01		1
Calcium	ND		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:01		1
Chromium	ND		0.0040	0.0010	mg/L		07/25/13 08:30	07/25/13 22:01		1
Copper	ND		0.010	0.0016	mg/L		07/25/13 08:30	07/25/13 22:01		1
Iron	ND		0.050	0.019	mg/L		07/25/13 08:30	07/25/13 22:01		1
Lead	ND		0.0050	0.0030	mg/L		07/25/13 08:30	07/25/13 22:01		1
Magnesium	ND		0.20	0.043	mg/L		07/25/13 08:30	07/25/13 22:01		1
Nickel	ND		0.010	0.0013	mg/L		07/25/13 08:30	07/25/13 22:01		1
Potassium	ND		0.50	0.10	mg/L		07/25/13 08:30	07/25/13 22:01		1
Selenium	ND		0.015	0.0087	mg/L		07/25/13 08:30	07/25/13 22:01		1
Silver	ND		0.0030	0.0017	mg/L		07/25/13 08:30	07/25/13 22:01		1
Sodium	ND		1.0	0.32	mg/L		07/25/13 08:30	07/25/13 22:01		1
Thallium	ND		0.020	0.010	mg/L		07/25/13 08:30	07/25/13 22:01		1
Zinc	ND		0.010	0.0015	mg/L		07/25/13 08:30	07/25/13 22:01		1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 480-130497/1-B  
 Matrix: Water  
 Analysis Batch: 130950

Client Sample ID: Method Blank  
 Prep Type: Dissolved  
 Prep Batch: 130498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0020	0.00070	mg/L		07/25/13 08:30	07/26/13 10:36	1
Boron	ND		0.020	0.0040	mg/L		07/25/13 08:30	07/26/13 10:36	1
Manganese	ND		0.0030	0.00040	mg/L		07/25/13 08:30	07/26/13 10:36	1

Lab Sample ID: LCS 480-130497/2-B  
 Matrix: Water  
 Analysis Batch: 130814

Client Sample ID: Lab Control Sample  
 Prep Type: Dissolved  
 Prep Batch: 130498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	10.0	10.5		mg/L		105	80 - 120
Antimony	0.200	0.193		mg/L		97	80 - 120
Arsenic	0.200	0.204		mg/L		102	80 - 120
Barium	0.200	0.212		mg/L		106	80 - 120
Beryllium	0.200	0.210		mg/L		105	80 - 120
Boron	0.200	0.204		mg/L		102	80 - 120
Cadmium	0.200	0.199		mg/L		99	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Copper	0.200	0.199		mg/L		99	80 - 120
Iron	10.0	10.2		mg/L		102	80 - 120
Lead	0.200	0.198		mg/L		99	80 - 120
Magnesium	10.0	10.1		mg/L		101	80 - 120
Manganese	0.200	0.202		mg/L		101	80 - 120
Nickel	0.200	0.197		mg/L		99	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120
Selenium	0.200	0.202		mg/L		101	80 - 120
Silver	0.0500	0.0513		mg/L		103	80 - 120
Sodium	10.0	10.1		mg/L		101	80 - 120
Thallium	0.200	0.199		mg/L		99	80 - 120
Zinc	0.200	0.196		mg/L		98	80 - 120

Lab Sample ID: 480-42488-3 MS  
 Matrix: Ground Water  
 Analysis Batch: 130814

Client Sample ID: MW-207D  
 Prep Type: Dissolved  
 Prep Batch: 130498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	ND		10.0	10.5		mg/L		105	75 - 125
Antimony	ND		0.200	0.198		mg/L		99	75 - 125
Arsenic	0.049		0.200	0.257		mg/L		104	75 - 125
Barium	0.089		0.200	0.290		mg/L		100	75 - 125
Beryllium	ND		0.200	0.209		mg/L		104	75 - 125
Boron	0.023		0.200	0.225		mg/L		101	75 - 125
Cadmium	ND		0.200	0.201		mg/L		101	75 - 125
Calcium	120		10.0	127	4	mg/L		94	75 - 125
Chromium	ND		0.200	0.198		mg/L		99	75 - 125
Copper	ND		0.200	0.200		mg/L		100	75 - 125
Iron	1.9		10.0	11.9		mg/L		100	75 - 125
Lead	ND		0.200	0.197		mg/L		99	75 - 125

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 480-42488-3 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 130814**

**Client Sample ID: MW-207D**  
**Prep Type: Dissolved**  
**Prep Batch: 130498**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Magnesium	23		10.0	33.5		mg/L		103	75 - 125
Manganese	1.6		0.200	1.78	4	mg/L		85	75 - 125
Nickel	ND		0.200	0.198		mg/L		99	75 - 125
Potassium	1.1		10.0	11.4		mg/L		103	75 - 125
Selenium	ND		0.200	0.206		mg/L		103	75 - 125
Silver	ND		0.0500	0.0513		mg/L		103	75 - 125
Sodium	9.1		10.0	19.2		mg/L		101	75 - 125
Thallium	ND		0.200	0.201		mg/L		101	75 - 125
Zinc	0.0047	J	0.200	0.199		mg/L		97	75 - 125

**Lab Sample ID: 480-42488-3 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 130814**

**Client Sample ID: MW-207D**  
**Prep Type: Dissolved**  
**Prep Batch: 130498**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Aluminum	ND		10.0	10.7		mg/L		107	75 - 125	2	20
Antimony	ND		0.200	0.197		mg/L		99	75 - 125	0	20
Arsenic	0.049		0.200	0.260		mg/L		105	75 - 125	1	20
Barium	0.089		0.200	0.295		mg/L		103	75 - 125	2	20
Beryllium	ND		0.200	0.210		mg/L		105	75 - 125	1	20
Boron	0.023		0.200	0.226		mg/L		102	75 - 125	0	20
Cadmium	ND		0.200	0.200		mg/L		100	75 - 125	0	20
Calcium	120		10.0	130	4	mg/L		120	75 - 125	2	20
Chromium	ND		0.200	0.199		mg/L		100	75 - 125	0	20
Copper	ND		0.200	0.201		mg/L		101	75 - 125	1	20
Iron	1.9		10.0	11.9		mg/L		101	75 - 125	0	20
Lead	ND		0.200	0.198		mg/L		99	75 - 125	0	20
Magnesium	23		10.0	33.8		mg/L		106	75 - 125	1	20
Manganese	1.6		0.200	1.82	4	mg/L		109	75 - 125	3	20
Nickel	ND		0.200	0.198		mg/L		99	75 - 125	0	20
Potassium	1.1		10.0	11.5		mg/L		104	75 - 125	1	20
Selenium	ND		0.200	0.208		mg/L		104	75 - 125	1	20
Silver	ND		0.0500	0.0525		mg/L		105	75 - 125	2	20
Sodium	9.1		10.0	19.6		mg/L		105	75 - 125	2	20
Thallium	ND		0.200	0.199		mg/L		100	75 - 125	1	20
Zinc	0.0047	J	0.200	0.199		mg/L		97	75 - 125	0	20

**Lab Sample ID: MB 480-130497/9-B**  
**Matrix: Water**  
**Analysis Batch: 131018**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 130695**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		07/26/13 08:50	07/26/13 18:04	1
Antimony	ND		0.020	0.0068	mg/L		07/26/13 08:50	07/26/13 18:04	1
Arsenic	ND		0.010	0.0056	mg/L		07/26/13 08:50	07/26/13 18:04	1
Barium	ND		0.0020	0.00070	mg/L		07/26/13 08:50	07/26/13 18:04	1
Beryllium	ND		0.0020	0.00030	mg/L		07/26/13 08:50	07/26/13 18:04	1
Boron	ND		0.020	0.0040	mg/L		07/26/13 08:50	07/26/13 18:04	1
Cadmium	ND		0.0010	0.00050	mg/L		07/26/13 08:50	07/26/13 18:04	1

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 480-130497/9-B  
 Matrix: Water  
 Analysis Batch: 131018

Client Sample ID: Method Blank  
 Prep Type: Dissolved  
 Prep Batch: 130695

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	ND		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 18:04	1
Chromium	ND		0.0040	0.0010	mg/L		07/26/13 08:50	07/26/13 18:04	1
Copper	ND		0.010	0.0016	mg/L		07/26/13 08:50	07/26/13 18:04	1
Iron	ND		0.050	0.019	mg/L		07/26/13 08:50	07/26/13 18:04	1
Lead	ND		0.0050	0.0030	mg/L		07/26/13 08:50	07/26/13 18:04	1
Magnesium	ND		0.20	0.043	mg/L		07/26/13 08:50	07/26/13 18:04	1
Manganese	0.000650	J	0.0030	0.00040	mg/L		07/26/13 08:50	07/26/13 18:04	1
Nickel	ND		0.010	0.0013	mg/L		07/26/13 08:50	07/26/13 18:04	1
Potassium	ND		0.50	0.10	mg/L		07/26/13 08:50	07/26/13 18:04	1
Selenium	ND		0.015	0.0087	mg/L		07/26/13 08:50	07/26/13 18:04	1
Silver	ND		0.0030	0.0017	mg/L		07/26/13 08:50	07/26/13 18:04	1
Sodium	ND		1.0	0.32	mg/L		07/26/13 08:50	07/26/13 18:04	1
Thallium	ND		0.020	0.010	mg/L		07/26/13 08:50	07/26/13 18:04	1
Zinc	ND		0.010	0.0015	mg/L		07/26/13 08:50	07/26/13 18:04	1

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Lab Sample ID: LCS 480-130497/10-B  
 Matrix: Water  
 Analysis Batch: 131018

Client Sample ID: Lab Control Sample  
 Prep Type: Dissolved  
 Prep Batch: 130695

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Aluminum	10.0	10.2		mg/L		102		80 - 120
Antimony	0.200	0.194		mg/L		97		80 - 120
Arsenic	0.200	0.201		mg/L		101		80 - 120
Barium	0.200	0.204		mg/L		102		80 - 120
Beryllium	0.200	0.204		mg/L		102		80 - 120
Boron	0.200	0.200		mg/L		100		80 - 120
Cadmium	0.200	0.196		mg/L		98		80 - 120
Calcium	10.0	10.0		mg/L		100		80 - 120
Chromium	0.200	0.197		mg/L		99		80 - 120
Copper	0.200	0.196		mg/L		98		80 - 120
Iron	10.0	10.0		mg/L		100		80 - 120
Lead	0.200	0.194		mg/L		97		80 - 120
Magnesium	10.0	9.99		mg/L		100		80 - 120
Manganese	0.200	0.198		mg/L		99		80 - 120
Nickel	0.200	0.194		mg/L		97		80 - 120
Potassium	10.0	9.74		mg/L		97		80 - 120
Selenium	0.200	0.196		mg/L		98		80 - 120
Silver	0.0500	0.0494		mg/L		99		80 - 120
Sodium	10.0	9.67		mg/L		97		80 - 120
Thallium	0.200	0.199		mg/L		99		80 - 120
Zinc	0.200	0.195		mg/L		98		80 - 120

Lab Sample ID: 480-42572-1 MS  
 Matrix: Ground Water  
 Analysis Batch: 131018

Client Sample ID: MW-3B  
 Prep Type: Dissolved  
 Prep Batch: 130695

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Aluminum	ND		10.0		10.2	mg/L		102		75 - 125
Antimony	ND		0.200		0.196	mg/L		98		75 - 125

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 480-42572-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 131018**

**Client Sample ID: MW-3B**  
**Prep Type: Dissolved**  
**Prep Batch: 130695**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Arsenic	0.055		0.200	0.261		mg/L		103		75 - 125
Barium	0.39		0.200	0.574		mg/L		94		75 - 125
Beryllium	ND		0.200	0.202		mg/L		101		75 - 125
Boron	0.25		0.200	0.448		mg/L		97		75 - 125
Cadmium	ND		0.200	0.200		mg/L		100		75 - 125
Calcium	160		10.0	165	4	mg/L		68		75 - 125
Chromium	0.0011	J	0.200	0.194		mg/L		96		75 - 125
Copper	ND		0.200	0.198		mg/L		99		75 - 125
Iron	1.8		10.0	11.4		mg/L		96		75 - 125
Lead	ND		0.200	0.194		mg/L		97		75 - 125
Magnesium	41		10.0	50.0	4	mg/L		88		75 - 125
Manganese	1.0	B	0.200	1.18	4	mg/L		88		75 - 125
Nickel	0.0077	J	0.200	0.203		mg/L		98		75 - 125
Potassium	5.4		10.0	15.4		mg/L		100		75 - 125
Selenium	ND		0.200	0.205		mg/L		102		75 - 125
Silver	ND		0.0500	0.0503		mg/L		101		75 - 125
Sodium	63		10.0	72.0	4	mg/L		88		75 - 125
Thallium	ND		0.200	0.194		mg/L		97		75 - 125
Zinc	0.0033	J	0.200	0.194		mg/L		95		75 - 125

**Lab Sample ID: 480-42572-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 131018**

**Client Sample ID: MW-3B**  
**Prep Type: Dissolved**  
**Prep Batch: 130695**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Aluminum	ND		10.0	10.3		mg/L		103		75 - 125	1	20
Antimony	ND		0.200	0.202		mg/L		101		75 - 125	3	20
Arsenic	0.055		0.200	0.263		mg/L		104		75 - 125	1	20
Barium	0.39		0.200	0.575		mg/L		95		75 - 125	0	20
Beryllium	ND		0.200	0.205		mg/L		102		75 - 125	1	20
Boron	0.25		0.200	0.450		mg/L		98		75 - 125	0	20
Cadmium	ND		0.200	0.201		mg/L		101		75 - 125	1	20
Calcium	160		10.0	166	4	mg/L		74		75 - 125	0	20
Chromium	0.0011	J	0.200	0.196		mg/L		97		75 - 125	1	20
Copper	ND		0.200	0.199		mg/L		100		75 - 125	1	20
Iron	1.8		10.0	11.5		mg/L		97		75 - 125	1	20
Lead	ND		0.200	0.196		mg/L		98		75 - 125	1	20
Magnesium	41		10.0	49.9	4	mg/L		87		75 - 125	0	20
Manganese	1.0	B	0.200	1.17	4	mg/L		87		75 - 125	0	20
Nickel	0.0077	J	0.200	0.205		mg/L		99		75 - 125	1	20
Potassium	5.4		10.0	15.5		mg/L		100		75 - 125	0	20
Selenium	ND		0.200	0.206		mg/L		103		75 - 125	1	20
Silver	ND		0.0500	0.0509		mg/L		102		75 - 125	1	20
Sodium	63		10.0	71.7	4	mg/L		85		75 - 125	0	20
Thallium	ND		0.200	0.197		mg/L		99		75 - 125	2	20
Zinc	0.0033	J	0.200	0.193		mg/L		95		75 - 125	0	20

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 480-130497/17-C  
 Matrix: Water  
 Analysis Batch: 131320

Client Sample ID: Method Blank  
 Prep Type: Dissolved  
 Prep Batch: 131070

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		07/29/13 08:15	07/29/13 22:39	1
Antimony	ND		0.020	0.0068	mg/L		07/29/13 08:15	07/29/13 22:39	1
Arsenic	ND		0.010	0.0056	mg/L		07/29/13 08:15	07/29/13 22:39	1
Barium	ND		0.0020	0.00070	mg/L		07/29/13 08:15	07/29/13 22:39	1
Beryllium	ND		0.0020	0.00030	mg/L		07/29/13 08:15	07/29/13 22:39	1
Boron	ND		0.020	0.0040	mg/L		07/29/13 08:15	07/29/13 22:39	1
Cadmium	ND		0.0010	0.00050	mg/L		07/29/13 08:15	07/29/13 22:39	1
Calcium	0.119	J	0.50	0.10	mg/L		07/29/13 08:15	07/29/13 22:39	1
Chromium	ND		0.0040	0.0010	mg/L		07/29/13 08:15	07/29/13 22:39	1
Copper	ND		0.010	0.0016	mg/L		07/29/13 08:15	07/29/13 22:39	1
Iron	ND		0.050	0.019	mg/L		07/29/13 08:15	07/29/13 22:39	1
Lead	ND		0.0050	0.0030	mg/L		07/29/13 08:15	07/29/13 22:39	1
Magnesium	ND		0.20	0.043	mg/L		07/29/13 08:15	07/29/13 22:39	1
Manganese	0.00220	J	0.0030	0.00040	mg/L		07/29/13 08:15	07/29/13 22:39	1
Nickel	ND		0.010	0.0013	mg/L		07/29/13 08:15	07/29/13 22:39	1
Potassium	ND		0.50	0.10	mg/L		07/29/13 08:15	07/29/13 22:39	1
Selenium	ND		0.015	0.0087	mg/L		07/29/13 08:15	07/29/13 22:39	1
Silver	ND		0.0030	0.0017	mg/L		07/29/13 08:15	07/29/13 22:39	1
Sodium	ND		1.0	0.32	mg/L		07/29/13 08:15	07/29/13 22:39	1
Thallium	ND		0.020	0.010	mg/L		07/29/13 08:15	07/29/13 22:39	1
Zinc	ND		0.010	0.0015	mg/L		07/29/13 08:15	07/29/13 22:39	1

8

Lab Sample ID: LCS 480-130497/18-C  
 Matrix: Water  
 Analysis Batch: 131320

Client Sample ID: Lab Control Sample  
 Prep Type: Dissolved  
 Prep Batch: 131070

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aluminum	10.0	10.7		mg/L		107	80 - 120
Antimony	0.200	0.198		mg/L		99	80 - 120
Arsenic	0.200	0.207		mg/L		104	80 - 120
Barium	0.200	0.218		mg/L		109	80 - 120
Beryllium	0.200	0.208		mg/L		104	80 - 120
Boron	0.200	0.208		mg/L		104	80 - 120
Cadmium	0.200	0.203		mg/L		102	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Copper	0.200	0.205		mg/L		103	80 - 120
Iron	10.0	10.2		mg/L		102	80 - 120
Lead	0.200	0.203		mg/L		101	80 - 120
Magnesium	10.0	10.7		mg/L		107	80 - 120
Manganese	0.200	0.211		mg/L		106	80 - 120
Nickel	0.200	0.201		mg/L		100	80 - 120
Potassium	10.0	10.3		mg/L		102	80 - 120
Selenium	0.200	0.203		mg/L		102	80 - 120
Silver	0.0500	0.0531		mg/L		106	80 - 120
Sodium	10.0	10.3		mg/L		103	80 - 120
Thallium	0.200	0.209		mg/L		104	80 - 120
Zinc	0.200	0.211		mg/L		105	80 - 120

TestAmerica Buffalo



# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-130292/1-A  
 Matrix: Water  
 Analysis Batch: 130424

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130292

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Mercury			ND		0.00020	0.00012	mg/L		07/24/13 07:30	07/24/13 11:32		1

Lab Sample ID: LCS 480-130292/2-A  
 Matrix: Water  
 Analysis Batch: 130424

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130292

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
Mercury	Added	Result	Qualifier	0.00667	0.00688	mg/L		103	80 - 120	

Lab Sample ID: LCSD 480-130292/3-A  
 Matrix: Water  
 Analysis Batch: 130424

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 130292

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
Mercury	Added	Result	Qualifier	0.00667	0.00650	mg/L		97	80 - 120	6	20	

Lab Sample ID: MB 480-130535/1-A  
 Matrix: Water  
 Analysis Batch: 130676

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130535

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Mercury			ND		0.00020	0.00012	mg/L		07/25/13 07:10	07/25/13 12:01		1

Lab Sample ID: LCS 480-130535/2-A  
 Matrix: Water  
 Analysis Batch: 130676

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 130535

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
Mercury	Added	Result	Qualifier	0.00667	0.00665	mg/L		100	80 - 120	

Lab Sample ID: 480-42488-1 MS  
 Matrix: Ground Water  
 Analysis Batch: 130676

Client Sample ID: MS-207SA  
 Prep Type: Total/NA  
 Prep Batch: 130535

Analyte	Sample	Sample	Spike	MS	MS	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
Mercury	Result	Qualifier	Added	Result	Qualifier	0.00667	0.00690	mg/L		103	75 - 125	

Lab Sample ID: 480-42488-1 MSD  
 Matrix: Ground Water  
 Analysis Batch: 130676

Client Sample ID: MS-207SA  
 Prep Type: Total/NA  
 Prep Batch: 130535

Analyte	Sample	Sample	Spike	MSD	MSD	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
Mercury	Result	Qualifier	Added	Result	Qualifier	0.00667	0.00675	mg/L		101	75 - 125	2	20	

Lab Sample ID: MB 480-130790/1-A  
 Matrix: Water  
 Analysis Batch: 130930

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 130790

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Mercury			ND		0.00020	0.00012	mg/L		07/26/13 09:00	07/26/13 12:20		1

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: LCS 480-130790/2-A**  
**Matrix: Water**  
**Analysis Batch: 130930**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 130790**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Mercury	0.00667	0.00685		mg/L		103	80 - 120

**Lab Sample ID: MB 480-131111/1-A**  
**Matrix: Water**  
**Analysis Batch: 131224**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131111**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:40	07/29/13 12:11	1

**Lab Sample ID: LCS 480-131111/2-A**  
**Matrix: Water**  
**Analysis Batch: 131224**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131111**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Mercury	0.00667	0.00647		mg/L		97	80 - 120

**Lab Sample ID: MB 480-129753/29-B**  
**Matrix: Water**  
**Analysis Batch: 130445**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 130302**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		07/24/13 08:00	07/24/13 13:38	1

**Lab Sample ID: LCS 480-129753/30-B**  
**Matrix: Water**  
**Analysis Batch: 130445**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Dissolved**  
**Prep Batch: 130302**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Mercury	0.00667	0.00667		mg/L		100	80 - 120

**Lab Sample ID: LCSD 480-129753/21-B**  
**Matrix: Water**  
**Analysis Batch: 130445**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Dissolved**  
**Prep Batch: 130302**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Added	Result	Qualifier						
Mercury	0.00667	0.00635		mg/L		95	80 - 120	5	20

**Lab Sample ID: 480-42430-1 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 130445**

**Client Sample ID: MW-304S**  
**Prep Type: Dissolved**  
**Prep Batch: 130302**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Mercury	ND		0.00667	0.00687		mg/L		103	75 - 125

**Lab Sample ID: 480-42430-1 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 130445**

**Client Sample ID: MW-304S**  
**Prep Type: Dissolved**  
**Prep Batch: 130302**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Mercury	ND		0.00667	0.00680		mg/L		102	75 - 125	1	20

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 480-130429/1-D  
 Matrix: Water  
 Analysis Batch: 130764

Client Sample ID: Method Blank  
 Prep Type: Dissolved  
 Prep Batch: 130537

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		07/25/13 07:30	07/25/13 13:37	1

Lab Sample ID: LCS 480-130429/2-D  
 Matrix: Water  
 Analysis Batch: 130764

Client Sample ID: Lab Control Sample  
 Prep Type: Dissolved  
 Prep Batch: 130537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 480-42488-1 MS  
 Matrix: Ground Water  
 Analysis Batch: 130764

Client Sample ID: MS-207SA  
 Prep Type: Dissolved  
 Prep Batch: 130537

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 480-42488-1 MSD  
 Matrix: Ground Water  
 Analysis Batch: 130764

Client Sample ID: MS-207SA  
 Prep Type: Dissolved  
 Prep Batch: 130537

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Lab Sample ID: MB 480-130497/13-B  
 Matrix: Water  
 Analysis Batch: 130946

Client Sample ID: Method Blank  
 Prep Type: Dissolved  
 Prep Batch: 130826

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		07/26/13 10:10	07/26/13 14:59	1

Lab Sample ID: LCS 480-130497/14-B  
 Matrix: Water  
 Analysis Batch: 130946

Client Sample ID: Lab Control Sample  
 Prep Type: Dissolved  
 Prep Batch: 130826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: MB 480-130497/19-B  
 Matrix: Water  
 Analysis Batch: 131231

Client Sample ID: Method Blank  
 Prep Type: Dissolved  
 Prep Batch: 131128

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		07/29/13 08:50	07/29/13 14:12	1

Lab Sample ID: LCS 480-130497/20-B  
 Matrix: Water  
 Analysis Batch: 131231

Client Sample ID: Lab Control Sample  
 Prep Type: Dissolved  
 Prep Batch: 131128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 180.1 - Turbidity, Nephelometric

**Lab Sample ID: MB 480-130218/3**  
**Matrix: Water**  
**Analysis Batch: 130218**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Turbidity	ND		1.0	1.0	NTU			07/23/13 15:00	1

**Lab Sample ID: 480-42430-3 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 130218**

**Client Sample ID: MW-304D**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Turbidity	87		88.7		NTU		1	20

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**Lab Sample ID: MB 480-130464/3**  
**Matrix: Water**  
**Analysis Batch: 130464**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Turbidity	ND		1.0	1.0	NTU			07/24/13 12:20	1

**Lab Sample ID: 480-42488-9 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 130464**

**Client Sample ID: MW-233S**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Turbidity	4.0		4.34		NTU		9	20

**Lab Sample ID: MB 480-130712/3**  
**Matrix: Water**  
**Analysis Batch: 130712**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Turbidity	ND		1.0	1.0	NTU			07/25/13 12:00	1

**Lab Sample ID: 480-42572-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 130712**

**Client Sample ID: MW-3B**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Turbidity	18		18.6		NTU		6	20

**Lab Sample ID: MB 480-130939/3**  
**Matrix: Water**  
**Analysis Batch: 130939**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Turbidity	ND		1.0	1.0	NTU			07/26/13 14:50	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 480-130190/52**  
**Matrix: Water**  
**Analysis Batch: 130190**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		0.50	0.28	mg/L			07/24/13 05:59	1
Sulfate	ND		2.0	0.35	mg/L			07/24/13 05:59	1

**Lab Sample ID: LCS 480-130190/51**  
**Matrix: Water**  
**Analysis Batch: 130190**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	18.8		mg/L		94	90 - 110

**Lab Sample ID: 480-42430-2 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 130190**

**Client Sample ID: MW-304VS**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: 480-42430-2 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 130190**

**Client Sample ID: MW-304VS**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

**Lab Sample ID: MB 480-130192/76**  
**Matrix: Water**  
**Analysis Batch: 130192**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		0.50	0.28	mg/L			07/24/13 11:22	1
Sulfate	ND		2.0	0.35	mg/L			07/24/13 11:22	1

**Lab Sample ID: LCS 480-130192/75**  
**Matrix: Water**  
**Analysis Batch: 130192**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	18.4		mg/L		92	90 - 110

**Lab Sample ID: MB 480-130414/52**  
**Matrix: Water**  
**Analysis Batch: 130414**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		0.50	0.28	mg/L			07/24/13 23:27	1
Sulfate	ND		2.0	0.35	mg/L			07/24/13 23:27	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID:** LCS 480-130414/51  
**Matrix:** Water  
**Analysis Batch:** 130414

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	19.0		mg/L		95	90 - 110
Sulfate	20.0	20.3		mg/L		101	90 - 110

**Lab Sample ID:** MB 480-130418/100  
**Matrix:** Water  
**Analysis Batch:** 130418

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			07/25/13 07:33	1
Sulfate	ND		2.0	0.35	mg/L			07/25/13 07:33	1

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**Lab Sample ID:** LCS 480-130418/99  
**Matrix:** Water  
**Analysis Batch:** 130418

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	18.9		mg/L		95	90 - 110
Sulfate	20.0	20.2		mg/L		101	90 - 110

**Lab Sample ID:** 480-42488-5 MS  
**Matrix:** Ground Water  
**Analysis Batch:** 130418

**Client Sample ID:** MW-230S  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	54		25.0	77.8		mg/L		94	90 - 110
Sulfate	37		25.0	61.7		mg/L		99	90 - 110

**Lab Sample ID:** MB 480-130651/28  
**Matrix:** Water  
**Analysis Batch:** 130651

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			07/25/13 21:18	1
Sulfate	ND		2.0	0.35	mg/L			07/25/13 21:18	1

**Lab Sample ID:** LCS 480-130651/27  
**Matrix:** Water  
**Analysis Batch:** 130651

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	19.6		mg/L		98	90 - 110
Sulfate	20.0	18.8		mg/L		94	90 - 110

**Lab Sample ID:** 480-42572-5 MS  
**Matrix:** Ground Water  
**Analysis Batch:** 130651

**Client Sample ID:** MW-245S  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	86		25.0	108	E F	mg/L		89	90 - 110

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 480-42572-5 MSD**  
**Matrix: Ground Water**  
**Analysis Batch: 130651**

**Client Sample ID: MW-245S**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	86		25.0	109	E	mg/L		92	90 - 110	1	20

**Lab Sample ID: MB 480-130882/28**  
**Matrix: Water**  
**Analysis Batch: 130882**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Chloride	ND		0.50	0.28	mg/L			07/26/13 17:48		1
Sulfate	ND		2.0	0.35	mg/L			07/26/13 17:48		1

**Lab Sample ID: LCS 480-130882/27**  
**Matrix: Water**  
**Analysis Batch: 130882**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	Added	LCS	LCS	Unit	D	%Rec	%Rec.
			Result	Qualifier				Limits
Chloride	20.0		19.2		mg/L		96	90 - 110
Sulfate	20.0		20.6		mg/L		103	90 - 110

**Lab Sample ID: MB 480-130894/148**  
**Matrix: Water**  
**Analysis Batch: 130894**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Chloride	ND		0.50	0.28	mg/L			07/27/13 14:02		1
Sulfate	ND		2.0	0.35	mg/L			07/27/13 14:02		1

**Lab Sample ID: LCS 480-130894/147**  
**Matrix: Water**  
**Analysis Batch: 130894**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	Added	LCS	LCS	Unit	D	%Rec	%Rec.
			Result	Qualifier				Limits
Chloride	20.0		19.4		mg/L		97	90 - 110
Sulfate	20.0		20.7		mg/L		103	90 - 110

**Lab Sample ID: MB 480-131185/22**  
**Matrix: Water**  
**Analysis Batch: 131185**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Chloride	ND		0.50	0.28	mg/L			07/29/13 18:50		1
Sulfate	ND		2.0	0.35	mg/L			07/29/13 18:50		1

**Lab Sample ID: LCS 480-131185/21**  
**Matrix: Water**  
**Analysis Batch: 131185**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	Added	LCS	LCS	Unit	D	%Rec	%Rec.
			Result	Qualifier				Limits
Chloride	20.0		18.9		mg/L		94	90 - 110
Sulfate	20.0		20.2		mg/L		101	90 - 110

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 310.2 - Alkalinity

**Lab Sample ID: MB 480-130634/34**  
**Matrix: Water**  
**Analysis Batch: 130634**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10	4.0	mg/L			07/24/13 15:39	1

**Lab Sample ID: LCS 480-130634/33**  
**Matrix: Water**  
**Analysis Batch: 130634**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	49.6		mg/L		99	90 - 110

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**Lab Sample ID: MB 480-130741/13**  
**Matrix: Water**  
**Analysis Batch: 130741**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10	4.0	mg/L			07/25/13 12:37	1

**Lab Sample ID: MB 480-130741/39**  
**Matrix: Water**  
**Analysis Batch: 130741**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10	4.0	mg/L			07/25/13 17:07	1

**Lab Sample ID: MB 480-130741/67**  
**Matrix: Water**  
**Analysis Batch: 130741**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10	4.0	mg/L			07/25/13 18:20	1

**Lab Sample ID: LCS 480-130741/12**  
**Matrix: Water**  
**Analysis Batch: 130741**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	52.7		mg/L		105	90 - 110

**Lab Sample ID: LCS 480-130741/38**  
**Matrix: Water**  
**Analysis Batch: 130741**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	52.9		mg/L		106	90 - 110

**Lab Sample ID: LCS 480-130741/66**  
**Matrix: Water**  
**Analysis Batch: 130741**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total	50.0	52.4		mg/L		105	90 - 110

TestAmerica Buffalo



## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: MB 480-130980/30**  
**Matrix: Water**  
**Analysis Batch: 130980**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Total	ND		10	4.0	mg/L			07/26/13 15:55	1

**Lab Sample ID: MB 480-130980/61**  
**Matrix: Water**  
**Analysis Batch: 130980**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Total	ND		10	4.0	mg/L			07/26/13 20:00	1

**Lab Sample ID: LCS 480-130980/29**  
**Matrix: Water**  
**Analysis Batch: 130980**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

### Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 480-130698/27**  
**Matrix: Water**  
**Analysis Batch: 130698**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	ND		0.020	0.0090	mg/L			07/25/13 11:36	1

**Lab Sample ID: MB 480-130698/3**  
**Matrix: Water**  
**Analysis Batch: 130698**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	ND		0.020	0.0090	mg/L			07/25/13 11:13	1

**Lab Sample ID: MB 480-130698/51**  
**Matrix: Water**  
**Analysis Batch: 130698**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	ND		0.020	0.0090	mg/L			07/25/13 11:59	1

**Lab Sample ID: MB 480-130698/75**  
**Matrix: Water**  
**Analysis Batch: 130698**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	ND		0.020	0.0090	mg/L			07/25/13 12:22	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-130698/28  
 Matrix: Water  
 Analysis Batch: 130698

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCS 480-130698/4  
 Matrix: Water  
 Analysis Batch: 130698

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCS 480-130698/52  
 Matrix: Water  
 Analysis Batch: 130698

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.00		mg/L		100	90 - 110

Lab Sample ID: LCS 480-130698/76  
 Matrix: Water  
 Analysis Batch: 130698

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.998		mg/L		100	90 - 110

Lab Sample ID: MB 480-130960/123  
 Matrix: Water  
 Analysis Batch: 130960

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			07/26/13 15:33	1

Lab Sample ID: MB 480-130960/171  
 Matrix: Water  
 Analysis Batch: 130960

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			07/26/13 16:21	1

Lab Sample ID: MB 480-130960/3  
 Matrix: Water  
 Analysis Batch: 130960

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			07/26/13 13:37	1

Lab Sample ID: MB 480-130960/99  
 Matrix: Water  
 Analysis Batch: 130960

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			07/26/13 15:10	1

TestAmerica Buffalo

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## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: LCS 480-130960/100**  
**Matrix: Water**  
**Analysis Batch: 130960**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Ammonia	1.00	1.00		mg/L		100	90 - 110

**Lab Sample ID: LCS 480-130960/124**  
**Matrix: Water**  
**Analysis Batch: 130960**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

**Lab Sample ID: LCS 480-130960/172**  
**Matrix: Water**  
**Analysis Batch: 130960**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

**Lab Sample ID: LCS 480-130960/4**  
**Matrix: Water**  
**Analysis Batch: 130960**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

### Method: 351.2 - Nitrogen, Total Kjeldahl

**Lab Sample ID: MB 480-130270/1-A**  
**Matrix: Water**  
**Analysis Batch: 130434**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 130270**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		07/23/13 23:29	07/24/13 11:03	1

**Lab Sample ID: LCS 480-130270/2-A**  
**Matrix: Water**  
**Analysis Batch: 130434**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 130270**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Total Kjeldahl Nitrogen	2.50	2.26		mg/L		90	90 - 110

**Lab Sample ID: MB 480-130516/1-A**  
**Matrix: Water**  
**Analysis Batch: 130663**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 130516**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		07/24/13 23:43	07/25/13 10:21	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

**Lab Sample ID:** LCS 480-130516/2-A  
**Matrix:** Water  
**Analysis Batch:** 130663

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 130516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.36		mg/L		94	90 - 110

**Lab Sample ID:** MB 480-130762/1-A  
**Matrix:** Water  
**Analysis Batch:** 130966

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 130762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L		07/26/13 06:33	07/26/13 11:07	1

**Lab Sample ID:** LCS 480-130762/2-A  
**Matrix:** Water  
**Analysis Batch:** 130966

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 130762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.26		mg/L		91	90 - 110

### Method: 410.4 - COD

**Lab Sample ID:** MB 480-130261/27  
**Matrix:** Water  
**Analysis Batch:** 130261

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/23/13 17:56	1

**Lab Sample ID:** MB 480-130261/3  
**Matrix:** Water  
**Analysis Batch:** 130261

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/23/13 17:56	1

**Lab Sample ID:** MB 480-130261/51  
**Matrix:** Water  
**Analysis Batch:** 130261

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/23/13 17:56	1

**Lab Sample ID:** LCS 480-130261/28  
**Matrix:** Water  
**Analysis Batch:** 130261

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chemical Oxygen Demand	25.0	23.1		mg/L		92	90 - 110

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 410.4 - COD (Continued)

**Lab Sample ID:** LCS 480-130261/4  
**Matrix:** Water  
**Analysis Batch:** 130261

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.3		mg/L		101	90 - 110

**Lab Sample ID:** LCS 480-130261/52  
**Matrix:** Water  
**Analysis Batch:** 130261

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	22.5		mg/L		90	90 - 110

**Lab Sample ID:** MB 480-130624/27  
**Matrix:** Water  
**Analysis Batch:** 130624

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/25/13 09:42	1

**Lab Sample ID:** MB 480-130624/3  
**Matrix:** Water  
**Analysis Batch:** 130624

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/25/13 09:17	1

**Lab Sample ID:** LCS 480-130624/28  
**Matrix:** Water  
**Analysis Batch:** 130624

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.7		mg/L		99	90 - 110

**Lab Sample ID:** LCS 480-130624/4  
**Matrix:** Water  
**Analysis Batch:** 130624

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.4		mg/L		94	90 - 110

**Lab Sample ID:** MB 480-131032/3  
**Matrix:** Water  
**Analysis Batch:** 131032

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/27/13 10:55	1

**Lab Sample ID:** MB 480-131032/51  
**Matrix:** Water  
**Analysis Batch:** 131032

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/27/13 10:55	1

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: LCS 480-131032/4**  
**Matrix: Water**  
**Analysis Batch: 131032**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.1		mg/L		92	90 - 110

**Lab Sample ID: LCS 480-131032/52**  
**Matrix: Water**  
**Analysis Batch: 131032**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	23.7		mg/L		95	90 - 110

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**Lab Sample ID: 480-42572-3 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 131032**

**Client Sample ID: MW-223D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	5.2	J	100	110		mg/L		104	75 - 125

**Lab Sample ID: 480-42572-3 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 131032**

**Client Sample ID: MW-223D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	5.2	J	6.80	J	mg/L		27	20

**Lab Sample ID: MB 480-131184/3**  
**Matrix: Water**  
**Analysis Batch: 131184**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/29/13 11:36	1

**Lab Sample ID: LCS 480-131184/4**  
**Matrix: Water**  
**Analysis Batch: 131184**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.3		mg/L		101	90 - 110

**Lab Sample ID: MB 480-131386/27**  
**Matrix: Water**  
**Analysis Batch: 131386**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/30/13 10:23	1

**Lab Sample ID: MB 480-131386/3**  
**Matrix: Water**  
**Analysis Batch: 131386**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	5.0	mg/L			07/30/13 10:23	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-131386/28  
 Matrix: Water  
 Analysis Batch: 131386

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.7		mg/L		103	90 - 110

Lab Sample ID: LCS 480-131386/4  
 Matrix: Water  
 Analysis Batch: 131386

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.4		mg/L		98	90 - 110

### Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-130167/3  
 Matrix: Water  
 Analysis Batch: 130167

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/23/13 10:17	1

Lab Sample ID: LCS 480-130167/4  
 Matrix: Water  
 Analysis Batch: 130167

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0500	0.0568		mg/L		114	85 - 115

Lab Sample ID: 480-42430-4 MS  
 Matrix: Ground Water  
 Analysis Batch: 130167

Client Sample ID: MW-303S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		0.0500	0.0559		mg/L		112	85 - 115

Lab Sample ID: 480-42430-3 DU  
 Matrix: Ground Water  
 Analysis Batch: 130167

Client Sample ID: MW-304D  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chromium, hexavalent	0.054		0.0568		mg/L		4	15

Lab Sample ID: MB 480-130465/27  
 Matrix: Water  
 Analysis Batch: 130465

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/24/13 10:05	1

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: 7196A - Chromium, Hexavalent (Continued)

**Lab Sample ID: MB 480-130465/3**  
**Matrix: Water**  
**Analysis Batch: 130465**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/24/13 10:05	1

**Lab Sample ID: LCS 480-130465/28**  
**Matrix: Water**  
**Analysis Batch: 130465**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: LCS 480-130465/4**  
**Matrix: Water**  
**Analysis Batch: 130465**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: 480-42488-3 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 130465**

**Client Sample ID: MW-207D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: 480-42488-5 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 130465**

**Client Sample ID: MW-230S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: MB 480-130645/3**  
**Matrix: Water**  
**Analysis Batch: 130645**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/25/13 09:47	1

**Lab Sample ID: LCS 480-130645/4**  
**Matrix: Water**  
**Analysis Batch: 130645**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: 480-42572-9 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 130645**

**Client Sample ID: MW-245D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Buffalo

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# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: 480-42572-2 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 130645**

**Client Sample ID: MW-221S**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chromium, hexavalent	ND	H	ND		mg/L		NC		15

**Lab Sample ID: 480-42572-4 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 130645**

**Client Sample ID: MW-221D**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chromium, hexavalent	ND		ND		mg/L		NC		15

**Lab Sample ID: MB 480-130872/3**  
**Matrix: Water**  
**Analysis Batch: 130872**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium, hexavalent	ND		0.010	0.0050	mg/L			07/26/13 10:44	1

**Lab Sample ID: LCS 480-130872/4**  
**Matrix: Water**  
**Analysis Batch: 130872**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Chromium, hexavalent	0.0500	0.0551		mg/L		110	85 - 115

**Method: 9012A - Cyanide, Total and/or Amenable**

**Lab Sample ID: MB 480-130244/1-A**  
**Matrix: Water**  
**Analysis Batch: 130378**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 130244**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.010	0.0050	mg/L		07/23/13 16:30	07/24/13 09:47	1

**Lab Sample ID: LCS 480-130244/2-A**  
**Matrix: Water**  
**Analysis Batch: 130378**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 130244**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Cyanide, Total	0.400	0.448	*	mg/L		112	90 - 110

**Lab Sample ID: MB 480-130750/1-A**  
**Matrix: Water**  
**Analysis Batch: 130937**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 130750**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.010	0.0050	mg/L		07/25/13 18:23	07/26/13 13:48	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 9012A - Cyanide, Total and/or Amenable (Continued)

**Lab Sample ID: LCS 480-130750/2-A**  
**Matrix: Water**  
**Analysis Batch: 130937**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 130750**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Cyanide, Total	0.250	0.283	*	mg/L		113	90 - 110	

**Lab Sample ID: 480-42572-3 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 130937**

**Client Sample ID: MW-223D**  
**Prep Type: Total/NA**  
**Prep Batch: 130750**

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cyanide, Total	ND	*	ND	*	mg/L		NC	15

**Lab Sample ID: MB 480-131259/1-A**  
**Matrix: Water**  
**Analysis Batch: 131267**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131259**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 15:35	07/29/13 21:14	1

**Lab Sample ID: LCS 480-131259/2-A**  
**Matrix: Water**  
**Analysis Batch: 131267**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131259**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Cyanide, Total	0.400	0.436		mg/L		109	90 - 110	

**Lab Sample ID: 480-42488-7 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 131267**

**Client Sample ID: MW-223S**  
**Prep Type: Total/NA**  
**Prep Batch: 131259**

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	
Cyanide, Total	ND		0.100	0.0608	F	mg/L		61	90 - 110	

**Lab Sample ID: 480-42488-7 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 131267**

**Client Sample ID: MW-223S**  
**Prep Type: Total/NA**  
**Prep Batch: 131259**

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cyanide, Total	ND		ND		mg/L		NC	15

**Lab Sample ID: MB 480-131292/1-A**  
**Matrix: Water**  
**Analysis Batch: 131414**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131292**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.010	0.0050	mg/L		07/29/13 23:22	07/30/13 11:31	1

**Lab Sample ID: LCS 480-131292/2-A**  
**Matrix: Water**  
**Analysis Batch: 131414**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131292**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Cyanide, Total	0.400	0.435		mg/L		109	90 - 110	

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# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: MB 480-131375/1-A**  
**Matrix: Water**  
**Analysis Batch: 131482**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131375**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 08:21	07/30/13 15:38	1

**Lab Sample ID: LCS 480-131375/2-A**  
**Matrix: Water**  
**Analysis Batch: 131482**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131375**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cyanide, Total	0.400	0.436		mg/L		109	90 - 110

**Lab Sample ID: 480-42430-4 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 131482**

**Client Sample ID: MW-303S**  
**Prep Type: Total/NA**  
**Prep Batch: 131375**

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Cyanide, Total	ND		0.100	0.105		mg/L		105	90 - 110

**Lab Sample ID: MB 480-131376/1-A**  
**Matrix: Water**  
**Analysis Batch: 131482**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131376**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.010	0.0050	mg/L		07/30/13 10:05	07/30/13 15:58	1

**Lab Sample ID: LCS 480-131376/2-A**  
**Matrix: Water**  
**Analysis Batch: 131482**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131376**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cyanide, Total	0.250	0.256		mg/L		102	90 - 110

**Lab Sample ID: 480-42572-8 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 131482**

**Client Sample ID: MW-220**  
**Prep Type: Total/NA**  
**Prep Batch: 131376**

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Cyanide, Total	ND		0.100	0.105		mg/L		105	90 - 110

**Lab Sample ID: 480-42572-9 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 131482**

**Client Sample ID: MW-245D**  
**Prep Type: Total/NA**  
**Prep Batch: 131376**

Analyte	Sample Sample		DU DU	Unit	D	RPD	Limit
	Result	Qualifier					
Cyanide, Total	ND		ND	mg/L		NC	15

**Lab Sample ID: MB 480-131727/1-A**  
**Matrix: Water**  
**Analysis Batch: 131861**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131727**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	ND		0.010	0.0050	mg/L		07/31/13 17:17	08/01/13 11:01	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-131727/2-A  
 Matrix: Water  
 Analysis Batch: 131861

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 131727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.269		mg/L		108	90 - 110

### Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-130776/51  
 Matrix: Water  
 Analysis Batch: 130776

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			07/25/13 12:37	1

Lab Sample ID: LCS 480-130776/52  
 Matrix: Water  
 Analysis Batch: 130776

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	59.7		mg/L		100	90 - 110

Lab Sample ID: MB 480-131106/27  
 Matrix: Water  
 Analysis Batch: 131106

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			07/27/13 01:54	1

Lab Sample ID: LCS 480-131106/28  
 Matrix: Water  
 Analysis Batch: 131106

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.1		mg/L		100	90 - 110

Lab Sample ID: 480-42572-5 MS  
 Matrix: Ground Water  
 Analysis Batch: 131106

Client Sample ID: MW-245S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.2		20.0	23.9		mg/L		109	54 - 131

Lab Sample ID: MB 480-131107/27  
 Matrix: Water  
 Analysis Batch: 131107

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			07/26/13 00:48	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-131107/51  
 Matrix: Water  
 Analysis Batch: 131107

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon			ND		1.0	0.43	mg/L			07/26/13 11:44	1

Lab Sample ID: LCS 480-131107/28  
 Matrix: Water  
 Analysis Batch: 131107

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier						Limits
Total Organic Carbon	60.0	61.0				mg/L		102	90 - 110

Lab Sample ID: LCS 480-131107/52  
 Matrix: Water  
 Analysis Batch: 131107

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier						Limits
Total Organic Carbon	60.0	60.1				mg/L		100	90 - 110

Lab Sample ID: 480-42488-4 MS  
 Matrix: Ground Water  
 Analysis Batch: 131107

Client Sample ID: MW-303D  
 Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Result	Qualifier	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier						Limits
Total Organic Carbon	1.3		20.0	22.1				mg/L		104	54 - 131

Lab Sample ID: 480-42488-5 DU  
 Matrix: Ground Water  
 Analysis Batch: 131107

Client Sample ID: MW-230S  
 Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Result	Qualifier	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier							
Total Organic Carbon	ND		ND				mg/L		NC	NC	20

### Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: 480-42430-2 MS  
 Matrix: Ground Water  
 Analysis Batch: 130469

Client Sample ID: MW-304VS  
 Prep Type: Total/NA  
 Prep Batch: 130382

Analyte	Sample	Sample	Spike	MS	MS	Result	Qualifier	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier						Limits
Phenolics, Total Recoverable	ND		0.100	0.0921				mg/L		92	60 - 143

Lab Sample ID: 480-42430-1 DU  
 Matrix: Ground Water  
 Analysis Batch: 130469

Client Sample ID: MW-304S  
 Prep Type: Total/NA  
 Prep Batch: 130382

Analyte	Sample	Sample	DU	DU	Result	Qualifier	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier							
Phenolics, Total Recoverable	ND		ND				mg/L		NC	NC	20

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: 9066 - Phenolics, Total Recoverable (Continued)

**Lab Sample ID: MB 480-130512/1-A**  
**Matrix: Water**  
**Analysis Batch: 130911**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 130512**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/24/13 20:20	07/26/13 09:58	1

**Lab Sample ID: LCS 480-130512/2-A**  
**Matrix: Water**  
**Analysis Batch: 130911**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 130512**

Analyte	Spike Added	Sample Result	Sample Qualifier	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: 480-42488-9 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 130911**

**Client Sample ID: MW-233S**  
**Prep Type: Total/NA**  
**Prep Batch: 130512**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: 480-42488-7 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 130911**

**Client Sample ID: MW-223S**  
**Prep Type: Total/NA**  
**Prep Batch: 130512**

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	Limit

**Lab Sample ID: MB 480-130760/1-A**  
**Matrix: Water**  
**Analysis Batch: 130911**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 130760**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 06:23	07/26/13 09:58	1

**Lab Sample ID: LCS 480-130760/2-A**  
**Matrix: Water**  
**Analysis Batch: 130911**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 130760**

Analyte	Spike Added	Sample Result	Sample Qualifier	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: MB 480-130920/1-A**  
**Matrix: Water**  
**Analysis Batch: 131034**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 130920**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/26/13 10:30	07/27/13 10:37	1

**Lab Sample ID: LCS 480-130920/2-A**  
**Matrix: Water**  
**Analysis Batch: 131034**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 130920**

Analyte	Spike Added	Sample Result	Sample Qualifier	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: MB 480-131048/1-A**  
**Matrix: Water**  
**Analysis Batch: 131181**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131048**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/27/13 09:30	07/29/13 10:50	1

**Lab Sample ID: LCS 480-131048/2-A**  
**Matrix: Water**  
**Analysis Batch: 131181**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131048**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: MB 480-131174/1-A**  
**Matrix: Water**  
**Analysis Batch: 131412**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131174**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/29/13 09:00	07/30/13 09:06	1

**Lab Sample ID: LCS 480-131174/2-A**  
**Matrix: Water**  
**Analysis Batch: 131412**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131174**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: MB 480-131246/1-A**  
**Matrix: Water**  
**Analysis Batch: 131412**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 131246**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenolics, Total Recoverable	ND		0.010	0.0050	mg/L		07/29/13 15:57	07/30/13 09:06	1

**Lab Sample ID: LCS 480-131246/2-A**  
**Matrix: Water**  
**Analysis Batch: 131412**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 131246**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

### Method: SM 2120B - Color, Colorimetric

**Lab Sample ID: MB 480-130225/3**  
**Matrix: Water**  
**Analysis Batch: 130225**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Color	ND		5.0	5.0	Color Units			07/23/13 16:15	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: SM 2120B - Color, Colorimetric (Continued)

Lab Sample ID: LCS 480-130225/4  
 Matrix: Water  
 Analysis Batch: 130225

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	30.0	30.0		Color Units		100	90 - 110

Lab Sample ID: MB 480-130446/3  
 Matrix: Water  
 Analysis Batch: 130446

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.0	5.0 Color Units			07/24/13 14:00	1

Lab Sample ID: LCS 480-130446/4  
 Matrix: Water  
 Analysis Batch: 130446

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	30.0	30.0		Color Units		100	90 - 110

Lab Sample ID: 480-42488-5 DU  
 Matrix: Ground Water  
 Analysis Batch: 130446

Client Sample ID: MW-230S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Color	10		10.0		Color Units		0	20

Lab Sample ID: MB 480-130715/3  
 Matrix: Water  
 Analysis Batch: 130715

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.0	5.0 Color Units			07/25/13 12:25	1

Lab Sample ID: LCS 480-130715/4  
 Matrix: Water  
 Analysis Batch: 130715

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	30.0	30.0		Color Units		100	90 - 110

Lab Sample ID: 480-42572-2 DU  
 Matrix: Ground Water  
 Analysis Batch: 130715

Client Sample ID: MW-221S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Color	20		20.0		Color Units		0	20

Lab Sample ID: MB 480-130957/3  
 Matrix: Water  
 Analysis Batch: 130957

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.0	5.0 Color Units			07/26/13 15:30	1

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# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: LCS 480-130957/4**  
**Matrix: Water**  
**Analysis Batch: 130957**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	30.0	30.0		Color Units		100	90 - 110

**Method: SM 2340C - Hardness, Total**

**Lab Sample ID: MB 480-130718/27**  
**Matrix: Water**  
**Analysis Batch: 130718**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			07/25/13 08:45	1

**Lab Sample ID: MB 480-130718/51**  
**Matrix: Water**  
**Analysis Batch: 130718**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			07/25/13 08:45	1

**Lab Sample ID: MB 480-130718/75**  
**Matrix: Water**  
**Analysis Batch: 130718**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			07/25/13 08:45	1

**Lab Sample ID: LCS 480-130718/28**  
**Matrix: Water**  
**Analysis Batch: 130718**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	120	116		mg/L		97	90 - 110

**Lab Sample ID: LCS 480-130718/52**  
**Matrix: Water**  
**Analysis Batch: 130718**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	120	120		mg/L		100	90 - 110

**Lab Sample ID: LCS 480-130718/76**  
**Matrix: Water**  
**Analysis Batch: 130718**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	120	128		mg/L		107	90 - 110

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: SM 2340C - Hardness, Total (Continued)

Lab Sample ID: 480-42430-3 DU  
 Matrix: Ground Water  
 Analysis Batch: 130718

Client Sample ID: MW-304D  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Hardness	390		396		mg/L		2	15

Lab Sample ID: MB 480-131471/27  
 Matrix: Water  
 Analysis Batch: 131471

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			07/30/13 07:45	1

Lab Sample ID: MB 480-131471/3  
 Matrix: Water  
 Analysis Batch: 131471

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			07/30/13 07:45	1

Lab Sample ID: MB 480-131471/51  
 Matrix: Water  
 Analysis Batch: 131471

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			07/30/13 07:45	1

Lab Sample ID: MB 480-131471/75  
 Matrix: Water  
 Analysis Batch: 131471

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness	ND		2.0	0.53	mg/L			07/30/13 07:45	1

Lab Sample ID: LCS 480-131471/28  
 Matrix: Water  
 Analysis Batch: 131471

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	120	120		mg/L		100	90 - 110

Lab Sample ID: LCS 480-131471/4  
 Matrix: Water  
 Analysis Batch: 131471

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	120	124		mg/L		103	90 - 110

Lab Sample ID: LCS 480-131471/52  
 Matrix: Water  
 Analysis Batch: 131471

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hardness	120	116		mg/L		97	90 - 110

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Lab Sample ID: LCS 480-131471/76**  
**Matrix: Water**  
**Analysis Batch: 131471**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Hardness	120	116		mg/L		97	90 - 110

**Lab Sample ID: 480-42572-2 MS**  
**Matrix: Ground Water**  
**Analysis Batch: 131471**

**Client Sample ID: MW-221S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Hardness	600		200	800		mg/L		100	74 - 130

**Lab Sample ID: 480-42488-9 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 131471**

**Client Sample ID: MW-233S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Hardness	430		436		mg/L		2	15

**Lab Sample ID: 480-42572-4 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 131471**

**Client Sample ID: MW-221D**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Hardness	330		300		mg/L		10	15

**Lab Sample ID: MB 480-131523/3**  
**Matrix: Water**  
**Analysis Batch: 131523**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hardness	ND		2.0	0.53	mg/L			07/30/13 20:15	1

**Lab Sample ID: LCS 480-131523/4**  
**Matrix: Water**  
**Analysis Batch: 131523**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Hardness	120	124		mg/L		103	90 - 110

### Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 480-130233/1**  
**Matrix: Water**  
**Analysis Batch: 130233**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	ND		10	4.0	mg/L			07/23/13 20:28	1

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID:** LCS 480-130233/2  
**Matrix:** Water  
**Analysis Batch:** 130233

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	465		mg/L		93	85 - 115

**Lab Sample ID:** MB 480-130449/1  
**Matrix:** Water  
**Analysis Batch:** 130449

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.0	mg/L			07/24/13 16:31	1

**Lab Sample ID:** LCS 480-130449/2  
**Matrix:** Water  
**Analysis Batch:** 130449

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	516		mg/L		103	85 - 115

**Lab Sample ID:** MB 480-130728/1  
**Matrix:** Water  
**Analysis Batch:** 130728

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.0	mg/L			07/25/13 18:20	1

**Lab Sample ID:** LCS 480-130728/2  
**Matrix:** Water  
**Analysis Batch:** 130728

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	466		mg/L		93	85 - 115

**Lab Sample ID:** 480-42572-4 DU  
**Matrix:** Ground Water  
**Analysis Batch:** 130728

**Client Sample ID:** MW-221D  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	270		267		mg/L		1	20

**Lab Sample ID:** MB 480-131252/1  
**Matrix:** Water  
**Analysis Batch:** 131252

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.0	mg/L			07/29/13 22:41	1

**Lab Sample ID:** LCS 480-131252/2  
**Matrix:** Water  
**Analysis Batch:** 131252

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	471		mg/L		94	85 - 115

TestAmerica Buffalo

# QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Method: SM 5210B - BOD, 5-Day

**Lab Sample ID: USB 480-130274/1 USB**  
**Matrix: Water**  
**Analysis Batch: 130274**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	USB USB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/23/13 16:36	1

**Lab Sample ID: LCS 480-130274/2**  
**Matrix: Water**  
**Analysis Batch: 130274**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: USB 480-130383/1 USB**  
**Matrix: Water**  
**Analysis Batch: 130383**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	USB USB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 10:01	1

**Lab Sample ID: LCS 480-130383/2**  
**Matrix: Water**  
**Analysis Batch: 130383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: USB 480-130466/1 USB**  
**Matrix: Water**  
**Analysis Batch: 130466**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	USB USB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/24/13 15:33	1

**Lab Sample ID: LCS 480-130466/2**  
**Matrix: Water**  
**Analysis Batch: 130466**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: USB 480-130706/1 USB**  
**Matrix: Water**  
**Analysis Batch: 130706**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	USB USB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/25/13 10:22	1

TestAmerica Buffalo

## QC Sample Results

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Method: SM 5210B - BOD, 5-Day (Continued)

**Lab Sample ID: LCS 480-130706/2**  
**Matrix: Water**  
**Analysis Batch: 130706**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	200		mg/L		101	85 - 115

**Lab Sample ID: USB 480-130759/1 USB**  
**Matrix: Water**  
**Analysis Batch: 130759**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 01:31	1

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**Lab Sample ID: LCS 480-130759/2**  
**Matrix: Water**  
**Analysis Batch: 130759**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	197		mg/L		100	85 - 115

**Lab Sample ID: USB 480-130993/1 USB**  
**Matrix: Water**  
**Analysis Batch: 130993**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			07/26/13 18:53	1

**Lab Sample ID: LCS 480-130993/2**  
**Matrix: Water**  
**Analysis Batch: 130993**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	227		mg/L		115	85 - 115

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### GC/MS VOA

#### Analysis Batch: 130203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	624	
480-42430-2	MW-304VS	Total/NA	Ground Water	624	
480-42430-3	MW-304D	Total/NA	Ground Water	624	
480-42430-4	MW-303S	Total/NA	Ground Water	624	
480-42430-5	Trip Blank	Total/NA	Water	624	
LCS 480-130203/4	Lab Control Sample	Total/NA	Water	624	
MB 480-130203/5	Method Blank	Total/NA	Water	624	

#### Analysis Batch: 130518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	624	
480-42488-2	MW-234D	Total/NA	Ground Water	624	
480-42488-3	MW-207D	Total/NA	Ground Water	624	
480-42488-4	MW-303D	Total/NA	Ground Water	624	
480-42488-5	MW-230S	Total/NA	Ground Water	624	
480-42488-6	MW-312S	Total/NA	Ground Water	624	
480-42488-7	MW-223S	Total/NA	Ground Water	624	
480-42488-8	MW-232S	Total/NA	Ground Water	624	
480-42488-9	MW-233S	Total/NA	Ground Water	624	
480-42488-10	Trip Blank	Total/NA	Water	624	
480-42572-1	MW-3B	Total/NA	Ground Water	624	
480-42572-2	MW-221S	Total/NA	Ground Water	624	
480-42572-3	MW-223D	Total/NA	Ground Water	624	
480-42572-4	MW-221D	Total/NA	Ground Water	624	
480-42572-5	MW-245S	Total/NA	Ground Water	624	
480-42572-7	MW-222	Total/NA	Ground Water	624	
480-42572-8	MW-220	Total/NA	Ground Water	624	
480-42572-9	MW-245D	Total/NA	Ground Water	624	
480-42572-10	Trip Blank	Total/NA	Water	624	
LCS 480-130518/5	Lab Control Sample	Total/NA	Water	624	
MB 480-130518/6	Method Blank	Total/NA	Water	624	

#### Analysis Batch: 130852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	624	
480-42659-2	PZ-1A	Total/NA	Ground Water	624	
LCS 480-130852/4	Lab Control Sample	Total/NA	Water	624	
MB 480-130852/5	Method Blank	Total/NA	Water	624	

#### Analysis Batch: 131135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-4	PZ-4	Total/NA	Ground Water	624	
480-42659-5	Trip Blank	Total/NA	Water	624	
LCS 480-131135/5	Lab Control Sample	Total/NA	Water	624	
MB 480-131135/6	Method Blank	Total/NA	Water	624	

TestAmerica Buffalo

# QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## Metals

### Filtration Batch: 129753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-129753/18-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-129753/30-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 480-129753/21-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
LCSD 480-129753/31-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
MB 480-129753/17-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-129753/29-B	Method Blank	Dissolved	Water	FILTRATION	

### Prep Batch: 130037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-129753/31-B	Lab Control Sample Dup	Dissolved	Water	3005A	129753

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### Prep Batch: 130253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	3005A	
480-42430-2	MW-304VS	Total/NA	Ground Water	3005A	
480-42430-3	MW-304D	Total/NA	Ground Water	3005A	
480-42430-4	MW-303S	Total/NA	Ground Water	3005A	
LCS 480-130253/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-130253/1-A	Method Blank	Total/NA	Water	3005A	

### Prep Batch: 130254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Dissolved	Ground Water	3005A	
480-42430-2	MW-304VS	Dissolved	Ground Water	3005A	
480-42430-3	MW-304D	Dissolved	Ground Water	3005A	
480-42430-3 MS	MW-304D	Dissolved	Ground Water	3005A	
480-42430-3 MSD	MW-304D	Dissolved	Ground Water	3005A	
480-42430-4	MW-303S	Dissolved	Ground Water	3005A	
LCS 480-129753/18-B	Lab Control Sample	Dissolved	Water	3005A	129753
MB 480-129753/17-B	Method Blank	Dissolved	Water	3005A	129753

### Prep Batch: 130292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	7470A	
480-42430-2	MW-304VS	Total/NA	Ground Water	7470A	
480-42430-3	MW-304D	Total/NA	Ground Water	7470A	
480-42430-4	MW-303S	Total/NA	Ground Water	7470A	
LCS 480-130292/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-130292/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 480-130292/1-A	Method Blank	Total/NA	Water	7470A	

### Prep Batch: 130302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Dissolved	Ground Water	7470A	
480-42430-1 MS	MW-304S	Dissolved	Ground Water	7470A	
480-42430-1 MSD	MW-304S	Dissolved	Ground Water	7470A	
480-42430-2	MW-304VS	Dissolved	Ground Water	7470A	
480-42430-3	MW-304D	Dissolved	Ground Water	7470A	
480-42430-4	MW-303S	Dissolved	Ground Water	7470A	
LCS 480-129753/30-B	Lab Control Sample	Dissolved	Water	7470A	129753
LCSD 480-129753/21-B	Lab Control Sample Dup	Dissolved	Water	7470A	129753

TestAmerica Buffalo



## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Prep Batch: 130302 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-129753/29-B	Method Blank	Dissolved	Water	7470A	129753

#### Analysis Batch: 130375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS D 480-129753/31-B	Lab Control Sample Dup	Dissolved	Water	6010B	130037

#### Analysis Batch: 130424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	7470A	130292
480-42430-2	MW-304VS	Total/NA	Ground Water	7470A	130292
480-42430-3	MW-304D	Total/NA	Ground Water	7470A	130292
480-42430-4	MW-303S	Total/NA	Ground Water	7470A	130292
LCS 480-130292/2-A	Lab Control Sample	Total/NA	Water	7470A	130292
LCS D 480-130292/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	130292
MB 480-130292/1-A	Method Blank	Total/NA	Water	7470A	130292

#### Filtration Batch: 130429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-130429/2-D	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 480-130429/1-D	Method Blank	Dissolved	Water	FILTRATION	

#### Analysis Batch: 130445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Dissolved	Ground Water	7470A	130302
480-42430-1 MS	MW-304S	Dissolved	Ground Water	7470A	130302
480-42430-1 MSD	MW-304S	Dissolved	Ground Water	7470A	130302
480-42430-2	MW-304VS	Dissolved	Ground Water	7470A	130302
480-42430-3	MW-304D	Dissolved	Ground Water	7470A	130302
480-42430-4	MW-303S	Dissolved	Ground Water	7470A	130302
LCS 480-129753/30-B	Lab Control Sample	Dissolved	Water	7470A	130302
LCS D 480-129753/21-B	Lab Control Sample Dup	Dissolved	Water	7470A	130302
MB 480-129753/29-B	Method Blank	Dissolved	Water	7470A	130302

#### Filtration Batch: 130497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-130497/10-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-130497/14-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-130497/18-C	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-130497/20-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-130497/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 480-130497/13-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-130497/17-C	Method Blank	Dissolved	Water	FILTRATION	
MB 480-130497/19-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-130497/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-130497/9-B	Method Blank	Dissolved	Water	FILTRATION	

#### Prep Batch: 130498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Dissolved	Ground Water	3005A	
480-42488-2	MW-234D	Dissolved	Ground Water	3005A	
480-42488-3	MW-207D	Dissolved	Ground Water	3005A	

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Prep Batch: 130498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-3 MS	MW-207D	Dissolved	Ground Water	3005A	
480-42488-3 MSD	MW-207D	Dissolved	Ground Water	3005A	
480-42488-4	MW-303D	Dissolved	Ground Water	3005A	
480-42488-5	MW-230S	Dissolved	Ground Water	3005A	
480-42488-6	MW-312S	Dissolved	Ground Water	3005A	
480-42488-7	MW-223S	Dissolved	Ground Water	3005A	
480-42488-8	MW-232S	Dissolved	Ground Water	3005A	
480-42488-9	MW-233S	Dissolved	Ground Water	3005A	
LCS 480-130497/2-B	Lab Control Sample	Dissolved	Water	3005A	130497
MB 480-130497/1-B	Method Blank	Dissolved	Water	3005A	130497

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#### Prep Batch: 130499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	3005A	
480-42488-2	MW-234D	Total/NA	Ground Water	3005A	
480-42488-3	MW-207D	Total/NA	Ground Water	3005A	
480-42488-3 MS	MW-207D	Total/NA	Ground Water	3005A	
480-42488-3 MSD	MW-207D	Total/NA	Ground Water	3005A	
480-42488-4	MW-303D	Total/NA	Ground Water	3005A	
480-42488-5	MW-230S	Total/NA	Ground Water	3005A	
480-42488-6	MW-312S	Total/NA	Ground Water	3005A	
480-42488-7	MW-223S	Total/NA	Ground Water	3005A	
480-42488-8	MW-232S	Total/NA	Ground Water	3005A	
480-42488-9	MW-233S	Total/NA	Ground Water	3005A	
LCS 480-130499/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-130499/1-A	Method Blank	Total/NA	Water	3005A	

#### Prep Batch: 130535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	7470A	
480-42488-1 MS	MS-207SA	Total/NA	Ground Water	7470A	
480-42488-1 MSD	MS-207SA	Total/NA	Ground Water	7470A	
480-42488-2	MW-234D	Total/NA	Ground Water	7470A	
480-42488-3	MW-207D	Total/NA	Ground Water	7470A	
480-42488-4	MW-303D	Total/NA	Ground Water	7470A	
480-42488-5	MW-230S	Total/NA	Ground Water	7470A	
480-42488-6	MW-312S	Total/NA	Ground Water	7470A	
480-42488-7	MW-223S	Total/NA	Ground Water	7470A	
480-42488-8	MW-232S	Total/NA	Ground Water	7470A	
480-42488-9	MW-233S	Total/NA	Ground Water	7470A	
LCS 480-130535/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-130535/1-A	Method Blank	Total/NA	Water	7470A	

#### Prep Batch: 130537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Dissolved	Ground Water	7470A	
480-42488-1 MS	MS-207SA	Dissolved	Ground Water	7470A	
480-42488-1 MSD	MS-207SA	Dissolved	Ground Water	7470A	
480-42488-2	MW-234D	Dissolved	Ground Water	7470A	
480-42488-3	MW-207D	Dissolved	Ground Water	7470A	
480-42488-4	MW-303D	Dissolved	Ground Water	7470A	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Prep Batch: 130537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-5	MW-230S	Dissolved	Ground Water	7470A	
480-42488-6	MW-312S	Dissolved	Ground Water	7470A	
480-42488-7	MW-223S	Dissolved	Ground Water	7470A	
480-42488-8	MW-232S	Dissolved	Ground Water	7470A	
480-42488-9	MW-233S	Dissolved	Ground Water	7470A	
LCS 480-130429/2-D	Lab Control Sample	Dissolved	Water	7470A	130429
MB 480-130429/1-D	Method Blank	Dissolved	Water	7470A	130429

#### Analysis Batch: 130549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Dissolved	Ground Water	6010B	130254
480-42430-2	MW-304VS	Dissolved	Ground Water	6010B	130254
480-42430-3	MW-304D	Dissolved	Ground Water	6010B	130254
480-42430-3 MS	MW-304D	Dissolved	Ground Water	6010B	130254
480-42430-3 MSD	MW-304D	Dissolved	Ground Water	6010B	130254
480-42430-4	MW-303S	Dissolved	Ground Water	6010B	130254
LCS 480-129753/18-B	Lab Control Sample	Dissolved	Water	6010B	130254
MB 480-129753/17-B	Method Blank	Dissolved	Water	6010B	130254

#### Analysis Batch: 130559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	6010B	130253
480-42430-2	MW-304VS	Total/NA	Ground Water	6010B	130253
480-42430-3	MW-304D	Total/NA	Ground Water	6010B	130253
480-42430-4	MW-303S	Total/NA	Ground Water	6010B	130253
LCS 480-130253/2-A	Lab Control Sample	Total/NA	Water	6010B	130253
MB 480-130253/1-A	Method Blank	Total/NA	Water	6010B	130253

#### Analysis Batch: 130676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	7470A	130535
480-42488-1 MS	MS-207SA	Total/NA	Ground Water	7470A	130535
480-42488-1 MSD	MS-207SA	Total/NA	Ground Water	7470A	130535
480-42488-2	MW-234D	Total/NA	Ground Water	7470A	130535
480-42488-3	MW-207D	Total/NA	Ground Water	7470A	130535
480-42488-4	MW-303D	Total/NA	Ground Water	7470A	130535
480-42488-5	MW-230S	Total/NA	Ground Water	7470A	130535
480-42488-6	MW-312S	Total/NA	Ground Water	7470A	130535
480-42488-7	MW-223S	Total/NA	Ground Water	7470A	130535
480-42488-8	MW-232S	Total/NA	Ground Water	7470A	130535
480-42488-9	MW-233S	Total/NA	Ground Water	7470A	130535
LCS 480-130535/2-A	Lab Control Sample	Total/NA	Water	7470A	130535
MB 480-130535/1-A	Method Blank	Total/NA	Water	7470A	130535

#### Prep Batch: 130695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Dissolved	Ground Water	3005A	
480-42572-1 MS	MW-3B	Dissolved	Ground Water	3005A	
480-42572-1 MSD	MW-3B	Dissolved	Ground Water	3005A	
480-42572-2	MW-221S	Dissolved	Ground Water	3005A	
480-42572-3	MW-223D	Dissolved	Ground Water	3005A	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Prep Batch: 130695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-4	MW-221D	Dissolved	Ground Water	3005A	
480-42572-5	MW-245S	Dissolved	Ground Water	3005A	
480-42572-7	MW-222	Dissolved	Ground Water	3005A	
480-42572-8	MW-220	Dissolved	Ground Water	3005A	
480-42572-9	MW-245D	Dissolved	Ground Water	3005A	
LCS 480-130497/10-B	Lab Control Sample	Dissolved	Water	3005A	130497
MB 480-130497/9-B	Method Blank	Dissolved	Water	3005A	130497

#### Prep Batch: 130733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	3005A	
480-42572-2	MW-221S	Total/NA	Ground Water	3005A	
480-42572-3	MW-223D	Total/NA	Ground Water	3005A	
480-42572-4	MW-221D	Total/NA	Ground Water	3005A	
480-42572-5	MW-245S	Total/NA	Ground Water	3005A	
480-42572-7	MW-222	Total/NA	Ground Water	3005A	
480-42572-8	MW-220	Total/NA	Ground Water	3005A	
480-42572-9	MW-245D	Total/NA	Ground Water	3005A	
LCS 480-130733/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-130733/1-A	Method Blank	Total/NA	Water	3005A	

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#### Analysis Batch: 130764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Dissolved	Ground Water	7470A	130537
480-42488-1 MS	MS-207SA	Dissolved	Ground Water	7470A	130537
480-42488-1 MSD	MS-207SA	Dissolved	Ground Water	7470A	130537
480-42488-2	MW-234D	Dissolved	Ground Water	7470A	130537
480-42488-3	MW-207D	Dissolved	Ground Water	7470A	130537
480-42488-4	MW-303D	Dissolved	Ground Water	7470A	130537
480-42488-5	MW-230S	Dissolved	Ground Water	7470A	130537
480-42488-6	MW-312S	Dissolved	Ground Water	7470A	130537
480-42488-7	MW-223S	Dissolved	Ground Water	7470A	130537
480-42488-8	MW-232S	Dissolved	Ground Water	7470A	130537
480-42488-9	MW-233S	Dissolved	Ground Water	7470A	130537
LCS 480-130429/2-D	Lab Control Sample	Dissolved	Water	7470A	130537
MB 480-130429/1-D	Method Blank	Dissolved	Water	7470A	130537

#### Prep Batch: 130790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	7470A	
480-42572-2	MW-221S	Total/NA	Ground Water	7470A	
480-42572-3	MW-223D	Total/NA	Ground Water	7470A	
480-42572-4	MW-221D	Total/NA	Ground Water	7470A	
480-42572-5	MW-245S	Total/NA	Ground Water	7470A	
480-42572-7	MW-222	Total/NA	Ground Water	7470A	
480-42572-8	MW-220	Total/NA	Ground Water	7470A	
480-42572-9	MW-245D	Total/NA	Ground Water	7470A	
LCS 480-130790/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-130790/1-A	Method Blank	Total/NA	Water	7470A	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Analysis Batch: 130810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-130253/2-A	Lab Control Sample	Total/NA	Water	6010B	130253
MB 480-130253/1-A	Method Blank	Total/NA	Water	6010B	130253

#### Analysis Batch: 130814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Dissolved	Ground Water	6010B	130498
480-42488-2	MW-234D	Dissolved	Ground Water	6010B	130498
480-42488-3	MW-207D	Dissolved	Ground Water	6010B	130498
480-42488-3 MS	MW-207D	Dissolved	Ground Water	6010B	130498
480-42488-3 MSD	MW-207D	Dissolved	Ground Water	6010B	130498
480-42488-4	MW-303D	Dissolved	Ground Water	6010B	130498
480-42488-5	MW-230S	Dissolved	Ground Water	6010B	130498
480-42488-6	MW-312S	Dissolved	Ground Water	6010B	130498
480-42488-7	MW-223S	Dissolved	Ground Water	6010B	130498
480-42488-8	MW-232S	Dissolved	Ground Water	6010B	130498
480-42488-9	MW-233S	Dissolved	Ground Water	6010B	130498
LCS 480-130497/2-B	Lab Control Sample	Dissolved	Water	6010B	130498
MB 480-130497/1-B	Method Blank	Dissolved	Water	6010B	130498

#### Prep Batch: 130826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Dissolved	Ground Water	7470A	
480-42572-2	MW-221S	Dissolved	Ground Water	7470A	
480-42572-3	MW-223D	Dissolved	Ground Water	7470A	
480-42572-4	MW-221D	Dissolved	Ground Water	7470A	
480-42572-5	MW-245S	Dissolved	Ground Water	7470A	
480-42572-7	MW-222	Dissolved	Ground Water	7470A	
480-42572-8	MW-220	Dissolved	Ground Water	7470A	
480-42572-9	MW-245D	Dissolved	Ground Water	7470A	
LCS 480-130497/14-B	Lab Control Sample	Dissolved	Water	7470A	130497
MB 480-130497/13-B	Method Blank	Dissolved	Water	7470A	130497

#### Analysis Batch: 130930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	7470A	130790
480-42572-2	MW-221S	Total/NA	Ground Water	7470A	130790
480-42572-3	MW-223D	Total/NA	Ground Water	7470A	130790
480-42572-4	MW-221D	Total/NA	Ground Water	7470A	130790
480-42572-5	MW-245S	Total/NA	Ground Water	7470A	130790
480-42572-7	MW-222	Total/NA	Ground Water	7470A	130790
480-42572-8	MW-220	Total/NA	Ground Water	7470A	130790
480-42572-9	MW-245D	Total/NA	Ground Water	7470A	130790
LCS 480-130790/2-A	Lab Control Sample	Total/NA	Water	7470A	130790
MB 480-130790/1-A	Method Blank	Total/NA	Water	7470A	130790

#### Analysis Batch: 130946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Dissolved	Ground Water	7470A	130826
480-42572-2	MW-221S	Dissolved	Ground Water	7470A	130826
480-42572-3	MW-223D	Dissolved	Ground Water	7470A	130826
480-42572-4	MW-221D	Dissolved	Ground Water	7470A	130826

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Analysis Batch: 130946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-5	MW-245S	Dissolved	Ground Water	7470A	130826
480-42572-7	MW-222	Dissolved	Ground Water	7470A	130826
480-42572-8	MW-220	Dissolved	Ground Water	7470A	130826
480-42572-9	MW-245D	Dissolved	Ground Water	7470A	130826
LCS 480-130497/14-B	Lab Control Sample	Dissolved	Water	7470A	130826
MB 480-130497/13-B	Method Blank	Dissolved	Water	7470A	130826

#### Analysis Batch: 130950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Dissolved	Ground Water	6010B	130498
MB 480-130497/1-B	Method Blank	Dissolved	Water	6010B	130498

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#### Analysis Batch: 130952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	6010B	130499
480-42488-2	MW-234D	Total/NA	Ground Water	6010B	130499
480-42488-3	MW-207D	Total/NA	Ground Water	6010B	130499
480-42488-3 MS	MW-207D	Total/NA	Ground Water	6010B	130499
480-42488-3 MSD	MW-207D	Total/NA	Ground Water	6010B	130499
480-42488-4	MW-303D	Total/NA	Ground Water	6010B	130499
480-42488-5	MW-230S	Total/NA	Ground Water	6010B	130499
480-42488-6	MW-312S	Total/NA	Ground Water	6010B	130499
480-42488-7	MW-223S	Total/NA	Ground Water	6010B	130499
480-42488-8	MW-232S	Total/NA	Ground Water	6010B	130499
480-42488-9	MW-233S	Total/NA	Ground Water	6010B	130499
LCS 480-130499/2-A	Lab Control Sample	Total/NA	Water	6010B	130499
MB 480-130499/1-A	Method Blank	Total/NA	Water	6010B	130499

#### Analysis Batch: 131018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Dissolved	Ground Water	6010B	130695
480-42572-1 MS	MW-3B	Dissolved	Ground Water	6010B	130695
480-42572-1 MSD	MW-3B	Dissolved	Ground Water	6010B	130695
480-42572-2	MW-221S	Dissolved	Ground Water	6010B	130695
480-42572-3	MW-223D	Dissolved	Ground Water	6010B	130695
480-42572-4	MW-221D	Dissolved	Ground Water	6010B	130695
480-42572-5	MW-245S	Dissolved	Ground Water	6010B	130695
480-42572-7	MW-222	Dissolved	Ground Water	6010B	130695
480-42572-8	MW-220	Dissolved	Ground Water	6010B	130695
480-42572-9	MW-245D	Dissolved	Ground Water	6010B	130695
LCS 480-130497/10-B	Lab Control Sample	Dissolved	Water	6010B	130695
MB 480-130497/9-B	Method Blank	Dissolved	Water	6010B	130695

#### Analysis Batch: 131020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	6010B	130733
480-42572-2	MW-221S	Total/NA	Ground Water	6010B	130733
480-42572-3	MW-223D	Total/NA	Ground Water	6010B	130733
480-42572-4	MW-221D	Total/NA	Ground Water	6010B	130733
480-42572-5	MW-245S	Total/NA	Ground Water	6010B	130733
480-42572-7	MW-222	Total/NA	Ground Water	6010B	130733

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Analysis Batch: 131020 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-8	MW-220	Total/NA	Ground Water	6010B	130733
480-42572-9	MW-245D	Total/NA	Ground Water	6010B	130733
LCS 480-130733/2-A	Lab Control Sample	Total/NA	Water	6010B	130733
MB 480-130733/1-A	Method Blank	Total/NA	Water	6010B	130733

#### Prep Batch: 131069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	3005A	
480-42659-2	PZ-1A	Total/NA	Ground Water	3005A	
480-42659-4	PZ-4	Total/NA	Ground Water	3005A	
LCS 480-131069/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-131069/1-A	Method Blank	Total/NA	Water	3005A	

#### Prep Batch: 131070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Dissolved	Ground Water	3005A	
480-42659-2	PZ-1A	Dissolved	Ground Water	3005A	
480-42659-4	PZ-4	Dissolved	Ground Water	3005A	
LCS 480-130497/18-C	Lab Control Sample	Dissolved	Water	3005A	130497
MB 480-130497/17-C	Method Blank	Dissolved	Water	3005A	130497

#### Prep Batch: 131111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	7470A	
480-42659-2	PZ-1A	Total/NA	Ground Water	7470A	
480-42659-4	PZ-4	Total/NA	Ground Water	7470A	
LCS 480-131111/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-131111/1-A	Method Blank	Total/NA	Water	7470A	

#### Prep Batch: 131128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Dissolved	Ground Water	7470A	
480-42659-2	PZ-1A	Dissolved	Ground Water	7470A	
480-42659-4	PZ-4	Dissolved	Ground Water	7470A	
LCS 480-130497/20-B	Lab Control Sample	Dissolved	Water	7470A	130497
MB 480-130497/19-B	Method Blank	Dissolved	Water	7470A	130497

#### Analysis Batch: 131224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	7470A	131111
480-42659-2	PZ-1A	Total/NA	Ground Water	7470A	131111
480-42659-4	PZ-4	Total/NA	Ground Water	7470A	131111
LCS 480-131111/2-A	Lab Control Sample	Total/NA	Water	7470A	131111
MB 480-131111/1-A	Method Blank	Total/NA	Water	7470A	131111

#### Analysis Batch: 131231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Dissolved	Ground Water	7470A	131128
480-42659-2	PZ-1A	Dissolved	Ground Water	7470A	131128
480-42659-4	PZ-4	Dissolved	Ground Water	7470A	131128
LCS 480-130497/20-B	Lab Control Sample	Dissolved	Water	7470A	131128

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Analysis Batch: 131231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-130497/19-B	Method Blank	Dissolved	Water	7470A	131128

#### Analysis Batch: 131310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	6010B	131069
480-42659-2	PZ-1A	Total/NA	Ground Water	6010B	131069
480-42659-4	PZ-4	Total/NA	Ground Water	6010B	131069
LCS 480-131069/2-A	Lab Control Sample	Total/NA	Water	6010B	131069
MB 480-131069/1-A	Method Blank	Total/NA	Water	6010B	131069

#### Analysis Batch: 131320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Dissolved	Ground Water	6010B	131070
480-42659-2	PZ-1A	Dissolved	Ground Water	6010B	131070
480-42659-4	PZ-4	Dissolved	Ground Water	6010B	131070
LCS 480-130497/18-C	Lab Control Sample	Dissolved	Water	6010B	131070
MB 480-130497/17-C	Method Blank	Dissolved	Water	6010B	131070

#### Analysis Batch: 131452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-2	PZ-1A	Total/NA	Ground Water	6010B	131069
480-42659-4	PZ-4	Total/NA	Ground Water	6010B	131069
LCS 480-131069/2-A	Lab Control Sample	Total/NA	Water	6010B	131069
MB 480-131069/1-A	Method Blank	Total/NA	Water	6010B	131069

#### Prep Batch: 131608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	3005A	
480-42488-2	MW-234D	Total/NA	Ground Water	3005A	
480-42488-3	MW-207D	Total/NA	Ground Water	3005A	
480-42488-4	MW-303D	Total/NA	Ground Water	3005A	
480-42488-5	MW-230S	Total/NA	Ground Water	3005A	
480-42488-6	MW-312S	Total/NA	Ground Water	3005A	
480-42488-7	MW-223S	Total/NA	Ground Water	3005A	
480-42488-8	MW-232S	Total/NA	Ground Water	3005A	
480-42488-9	MW-233S	Total/NA	Ground Water	3005A	
LCS 480-131608/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-131608/1-A	Method Blank	Total/NA	Water	3005A	

#### Analysis Batch: 131787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	6010B	131608
480-42488-2	MW-234D	Total/NA	Ground Water	6010B	131608
480-42488-3	MW-207D	Total/NA	Ground Water	6010B	131608
480-42488-4	MW-303D	Total/NA	Ground Water	6010B	131608
480-42488-5	MW-230S	Total/NA	Ground Water	6010B	131608
480-42488-6	MW-312S	Total/NA	Ground Water	6010B	131608
480-42488-7	MW-223S	Total/NA	Ground Water	6010B	131608
480-42488-8	MW-232S	Total/NA	Ground Water	6010B	131608
480-42488-9	MW-233S	Total/NA	Ground Water	6010B	131608

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Metals (Continued)

#### Analysis Batch: 131989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-131608/2-A	Lab Control Sample	Total/NA	Water	6010B	131608
MB 480-131608/1-A	Method Blank	Total/NA	Water	6010B	131608

### General Chemistry

#### Analysis Batch: 130167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	7196A	
480-42430-2	MW-304VS	Total/NA	Ground Water	7196A	
480-42430-3	MW-304D	Total/NA	Ground Water	7196A	
480-42430-3 DU	MW-304D	Total/NA	Ground Water	7196A	
480-42430-4	MW-303S	Total/NA	Ground Water	7196A	
480-42430-4 MS	MW-303S	Total/NA	Ground Water	7196A	
LCS 480-130167/4	Lab Control Sample	Total/NA	Water	7196A	
MB 480-130167/3	Method Blank	Total/NA	Water	7196A	

#### Analysis Batch: 130190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	300.0	
480-42430-2	MW-304VS	Total/NA	Ground Water	300.0	
480-42430-2 MS	MW-304VS	Total/NA	Ground Water	300.0	
480-42430-2 MSD	MW-304VS	Total/NA	Ground Water	300.0	
LCS 480-130190/51	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130190/52	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-3	MW-304D	Total/NA	Ground Water	300.0	
480-42430-4	MW-303S	Total/NA	Ground Water	300.0	
LCS 480-130192/75	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130192/76	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	180.1	
480-42430-2	MW-304VS	Total/NA	Ground Water	180.1	
480-42430-3	MW-304D	Total/NA	Ground Water	180.1	
480-42430-3 DU	MW-304D	Total/NA	Ground Water	180.1	
480-42430-4	MW-303S	Total/NA	Ground Water	180.1	
LCS 480-130218/4	Lab Control Sample	Total/NA	Water	180.1	
MB 480-130218/3	Method Blank	Total/NA	Water	180.1	

#### Analysis Batch: 130225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	SM 2120B	
480-42430-2	MW-304VS	Total/NA	Ground Water	SM 2120B	
480-42430-3	MW-304D	Total/NA	Ground Water	SM 2120B	
480-42430-4	MW-303S	Total/NA	Ground Water	SM 2120B	
LCS 480-130225/4	Lab Control Sample	Total/NA	Water	SM 2120B	
MB 480-130225/3	Method Blank	Total/NA	Water	SM 2120B	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	SM 2540C	
480-42430-2	MW-304VS	Total/NA	Ground Water	SM 2540C	
480-42430-3	MW-304D	Total/NA	Ground Water	SM 2540C	
480-42430-4	MW-303S	Total/NA	Ground Water	SM 2540C	
LCS 480-130233/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-130233/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 130236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	353.2	
480-42430-2	MW-304VS	Total/NA	Ground Water	353.2	
480-42430-3	MW-304D	Total/NA	Ground Water	353.2	
480-42430-4	MW-303S	Total/NA	Ground Water	353.2	

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#### Prep Batch: 130244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-2	MW-304VS	Total/NA	Ground Water	9012A	
LCS 480-130244/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-130244/1-A	Method Blank	Total/NA	Water	9012A	

#### Analysis Batch: 130261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	410.4	
480-42430-2	MW-304VS	Total/NA	Ground Water	410.4	
480-42430-3	MW-304D	Total/NA	Ground Water	410.4	
480-42430-4	MW-303S	Total/NA	Ground Water	410.4	
LCS 480-130261/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-130261/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-130261/52	Lab Control Sample	Total/NA	Water	410.4	
MB 480-130261/27	Method Blank	Total/NA	Water	410.4	
MB 480-130261/3	Method Blank	Total/NA	Water	410.4	
MB 480-130261/51	Method Blank	Total/NA	Water	410.4	

#### Prep Batch: 130270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	351.2	
480-42430-2	MW-304VS	Total/NA	Ground Water	351.2	
480-42430-3	MW-304D	Total/NA	Ground Water	351.2	
480-42430-4	MW-303S	Total/NA	Ground Water	351.2	
LCS 480-130270/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-130270/1-A	Method Blank	Total/NA	Water	351.2	

#### Analysis Batch: 130274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	SM 5210B	
480-42430-2	MW-304VS	Total/NA	Ground Water	SM 5210B	
480-42430-3	MW-304D	Total/NA	Ground Water	SM 5210B	
480-42430-4	MW-303S	Total/NA	Ground Water	SM 5210B	
LCS 480-130274/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 480-130274/1 USB	Method Blank	Total/NA	Water	SM 5210B	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-2	MW-304VS	Total/NA	Ground Water	9012A	130244
LCS 480-130244/2-A	Lab Control Sample	Total/NA	Water	9012A	130244
MB 480-130244/1-A	Method Blank	Total/NA	Water	9012A	130244

#### Prep Batch: 130382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	Distill/Phenol	
480-42430-1 DU	MW-304S	Total/NA	Ground Water	Distill/Phenol	
480-42430-2	MW-304VS	Total/NA	Ground Water	Distill/Phenol	
480-42430-2 MS	MW-304VS	Total/NA	Ground Water	Distill/Phenol	
480-42430-3	MW-304D	Total/NA	Ground Water	Distill/Phenol	
480-42430-4	MW-303S	Total/NA	Ground Water	Distill/Phenol	

#### Analysis Batch: 130383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	SM 5210B	
480-42488-2	MW-234D	Total/NA	Ground Water	SM 5210B	
480-42488-3	MW-207D	Total/NA	Ground Water	SM 5210B	
LCS 480-130383/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 480-130383/1 USB	Method Blank	Total/NA	Water	SM 5210B	

#### Analysis Batch: 130414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-2	MW-304VS	Total/NA	Ground Water	300.0	
LCS 480-130414/51	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130414/52	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	300.0	
480-42488-2	MW-234D	Total/NA	Ground Water	300.0	
480-42488-3	MW-207D	Total/NA	Ground Water	300.0	
480-42488-5	MW-230S	Total/NA	Ground Water	300.0	
480-42488-5 MS	MW-230S	Total/NA	Ground Water	300.0	
480-42488-6	MW-312S	Total/NA	Ground Water	300.0	
480-42488-7	MW-223S	Total/NA	Ground Water	300.0	
480-42488-8	MW-232S	Total/NA	Ground Water	300.0	
480-42488-9	MW-233S	Total/NA	Ground Water	300.0	
LCS 480-130418/99	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130418/100	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	351.2	130270
480-42430-2	MW-304VS	Total/NA	Ground Water	351.2	130270
480-42430-3	MW-304D	Total/NA	Ground Water	351.2	130270
480-42430-4	MW-303S	Total/NA	Ground Water	351.2	130270
LCS 480-130270/2-A	Lab Control Sample	Total/NA	Water	351.2	130270
MB 480-130270/1-A	Method Blank	Total/NA	Water	351.2	130270

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	SM 2120B	
480-42488-2	MW-234D	Total/NA	Ground Water	SM 2120B	
480-42488-3	MW-207D	Total/NA	Ground Water	SM 2120B	
480-42488-4	MW-303D	Total/NA	Ground Water	SM 2120B	
480-42488-5	MW-230S	Total/NA	Ground Water	SM 2120B	
480-42488-5 DU	MW-230S	Total/NA	Ground Water	SM 2120B	
480-42488-6	MW-312S	Total/NA	Ground Water	SM 2120B	
480-42488-7	MW-223S	Total/NA	Ground Water	SM 2120B	
480-42488-8	MW-232S	Total/NA	Ground Water	SM 2120B	
480-42488-9	MW-233S	Total/NA	Ground Water	SM 2120B	
LCS 480-130446/4	Lab Control Sample	Total/NA	Water	SM 2120B	
MB 480-130446/3	Method Blank	Total/NA	Water	SM 2120B	

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#### Analysis Batch: 130449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	SM 2540C	
480-42488-2	MW-234D	Total/NA	Ground Water	SM 2540C	
480-42488-3	MW-207D	Total/NA	Ground Water	SM 2540C	
480-42488-4	MW-303D	Total/NA	Ground Water	SM 2540C	
480-42488-5	MW-230S	Total/NA	Ground Water	SM 2540C	
480-42488-6	MW-312S	Total/NA	Ground Water	SM 2540C	
480-42488-7	MW-223S	Total/NA	Ground Water	SM 2540C	
480-42488-8	MW-232S	Total/NA	Ground Water	SM 2540C	
480-42488-9	MW-233S	Total/NA	Ground Water	SM 2540C	
LCS 480-130449/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-130449/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 130464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	180.1	
480-42488-2	MW-234D	Total/NA	Ground Water	180.1	
480-42488-3	MW-207D	Total/NA	Ground Water	180.1	
480-42488-4	MW-303D	Total/NA	Ground Water	180.1	
480-42488-5	MW-230S	Total/NA	Ground Water	180.1	
480-42488-6	MW-312S	Total/NA	Ground Water	180.1	
480-42488-7	MW-223S	Total/NA	Ground Water	180.1	
480-42488-8	MW-232S	Total/NA	Ground Water	180.1	
480-42488-9	MW-233S	Total/NA	Ground Water	180.1	
480-42488-9 DU	MW-233S	Total/NA	Ground Water	180.1	
LCS 480-130464/4	Lab Control Sample	Total/NA	Water	180.1	
MB 480-130464/3	Method Blank	Total/NA	Water	180.1	

#### Analysis Batch: 130465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	7196A	
480-42488-2	MW-234D	Total/NA	Ground Water	7196A	
480-42488-3	MW-207D	Total/NA	Ground Water	7196A	
480-42488-3 MS	MW-207D	Total/NA	Ground Water	7196A	
480-42488-4	MW-303D	Total/NA	Ground Water	7196A	
480-42488-5	MW-230S	Total/NA	Ground Water	7196A	
480-42488-5 MS	MW-230S	Total/NA	Ground Water	7196A	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-6	MW-312S	Total/NA	Ground Water	7196A	
480-42488-7	MW-223S	Total/NA	Ground Water	7196A	
480-42488-8	MW-232S	Total/NA	Ground Water	7196A	
480-42488-9	MW-233S	Total/NA	Ground Water	7196A	
LCS 480-130465/28	Lab Control Sample	Total/NA	Water	7196A	
LCS 480-130465/4	Lab Control Sample	Total/NA	Water	7196A	
MB 480-130465/27	Method Blank	Total/NA	Water	7196A	
MB 480-130465/3	Method Blank	Total/NA	Water	7196A	

#### Analysis Batch: 130466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-4	MW-303D	Total/NA	Ground Water	SM 5210B	
480-42488-5	MW-230S	Total/NA	Ground Water	SM 5210B	
480-42488-6	MW-312S	Total/NA	Ground Water	SM 5210B	
480-42488-7	MW-223S	Total/NA	Ground Water	SM 5210B	
480-42488-8	MW-232S	Total/NA	Ground Water	SM 5210B	
480-42488-9	MW-233S	Total/NA	Ground Water	SM 5210B	
LCS 480-130466/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 480-130466/1 USB	Method Blank	Total/NA	Water	SM 5210B	

#### Analysis Batch: 130469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	9066	130382
480-42430-1 DU	MW-304S	Total/NA	Ground Water	9066	130382
480-42430-2	MW-304VS	Total/NA	Ground Water	9066	130382
480-42430-2 MS	MW-304VS	Total/NA	Ground Water	9066	130382
480-42430-3	MW-304D	Total/NA	Ground Water	9066	130382
480-42430-4	MW-303S	Total/NA	Ground Water	9066	130382

#### Analysis Batch: 130481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	353.2	
480-42488-2	MW-234D	Total/NA	Ground Water	353.2	
480-42488-3	MW-207D	Total/NA	Ground Water	353.2	
480-42488-4	MW-303D	Total/NA	Ground Water	353.2	
480-42488-5	MW-230S	Total/NA	Ground Water	353.2	
480-42488-6	MW-312S	Total/NA	Ground Water	353.2	
480-42488-7	MW-223S	Total/NA	Ground Water	353.2	
480-42488-8	MW-232S	Total/NA	Ground Water	353.2	
480-42488-9	MW-233S	Total/NA	Ground Water	353.2	

#### Prep Batch: 130512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	Distill/Phenol	
480-42488-2	MW-234D	Total/NA	Ground Water	Distill/Phenol	
480-42488-3	MW-207D	Total/NA	Ground Water	Distill/Phenol	
480-42488-4	MW-303D	Total/NA	Ground Water	Distill/Phenol	
480-42488-5	MW-230S	Total/NA	Ground Water	Distill/Phenol	
480-42488-6	MW-312S	Total/NA	Ground Water	Distill/Phenol	
480-42488-7	MW-223S	Total/NA	Ground Water	Distill/Phenol	
480-42488-7 DU	MW-223S	Total/NA	Ground Water	Distill/Phenol	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Prep Batch: 130512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-8	MW-232S	Total/NA	Ground Water	Distill/Phenol	
480-42488-9	MW-233S	Total/NA	Ground Water	Distill/Phenol	
480-42488-9 MS	MW-233S	Total/NA	Ground Water	Distill/Phenol	
LCS 480-130512/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-130512/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

#### Prep Batch: 130516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	351.2	
480-42488-2	MW-234D	Total/NA	Ground Water	351.2	
480-42488-3	MW-207D	Total/NA	Ground Water	351.2	
480-42488-4	MW-303D	Total/NA	Ground Water	351.2	
480-42488-5	MW-230S	Total/NA	Ground Water	351.2	
480-42488-6	MW-312S	Total/NA	Ground Water	351.2	
480-42488-7	MW-223S	Total/NA	Ground Water	351.2	
480-42488-8	MW-232S	Total/NA	Ground Water	351.2	
LCS 480-130516/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-130516/1-A	Method Blank	Total/NA	Water	351.2	

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#### Analysis Batch: 130624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	410.4	
480-42488-2	MW-234D	Total/NA	Ground Water	410.4	
480-42488-3	MW-207D	Total/NA	Ground Water	410.4	
480-42488-4	MW-303D	Total/NA	Ground Water	410.4	
480-42488-5	MW-230S	Total/NA	Ground Water	410.4	
480-42488-6	MW-312S	Total/NA	Ground Water	410.4	
480-42488-7	MW-223S	Total/NA	Ground Water	410.4	
480-42488-8	MW-232S	Total/NA	Ground Water	410.4	
480-42488-9	MW-233S	Total/NA	Ground Water	410.4	
LCS 480-130624/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-130624/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-130624/27	Method Blank	Total/NA	Water	410.4	
MB 480-130624/3	Method Blank	Total/NA	Water	410.4	

#### Analysis Batch: 130634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	310.2	
480-42430-2	MW-304VS	Total/NA	Ground Water	310.2	
480-42430-3	MW-304D	Total/NA	Ground Water	310.2	
480-42430-4	MW-303S	Total/NA	Ground Water	310.2	
LCS 480-130634/33	Lab Control Sample	Total/NA	Water	310.2	
MB 480-130634/34	Method Blank	Total/NA	Water	310.2	

#### Analysis Batch: 130645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	7196A	
480-42572-2	MW-221S	Total/NA	Ground Water	7196A	
480-42572-2 DU	MW-221S	Total/NA	Ground Water	7196A	
480-42572-3	MW-223D	Total/NA	Ground Water	7196A	
480-42572-4	MW-221D	Total/NA	Ground Water	7196A	

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-4 DU	MW-221D	Total/NA	Ground Water	7196A	
480-42572-5	MW-245S	Total/NA	Ground Water	7196A	
480-42572-7	MW-222	Total/NA	Ground Water	7196A	
480-42572-8	MW-220	Total/NA	Ground Water	7196A	
480-42572-9	MW-245D	Total/NA	Ground Water	7196A	
480-42572-9 MS	MW-245D	Total/NA	Ground Water	7196A	
LCS 480-130645/4	Lab Control Sample	Total/NA	Water	7196A	
MB 480-130645/3	Method Blank	Total/NA	Water	7196A	

#### Analysis Batch: 130650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-4	MW-303D	Total/NA	Ground Water	300.0	

#### Analysis Batch: 130651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	300.0	
480-42572-2	MW-221S	Total/NA	Ground Water	300.0	
480-42572-3	MW-223D	Total/NA	Ground Water	300.0	
480-42572-4	MW-221D	Total/NA	Ground Water	300.0	
480-42572-5	MW-245S	Total/NA	Ground Water	300.0	
480-42572-5 MS	MW-245S	Total/NA	Ground Water	300.0	
480-42572-5 MSD	MW-245S	Total/NA	Ground Water	300.0	
LCS 480-130651/27	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130651/28	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-7	MW-222	Total/NA	Ground Water	300.0	
480-42572-8	MW-220	Total/NA	Ground Water	300.0	
480-42572-9	MW-245D	Total/NA	Ground Water	300.0	

#### Analysis Batch: 130663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	351.2	130516
480-42488-2	MW-234D	Total/NA	Ground Water	351.2	130516
480-42488-3	MW-207D	Total/NA	Ground Water	351.2	130516
480-42488-4	MW-303D	Total/NA	Ground Water	351.2	130516
480-42488-5	MW-230S	Total/NA	Ground Water	351.2	130516
480-42488-6	MW-312S	Total/NA	Ground Water	351.2	130516
480-42488-7	MW-223S	Total/NA	Ground Water	351.2	130516
480-42488-8	MW-232S	Total/NA	Ground Water	351.2	130516
LCS 480-130516/2-A	Lab Control Sample	Total/NA	Water	351.2	130516
MB 480-130516/1-A	Method Blank	Total/NA	Water	351.2	130516

#### Analysis Batch: 130679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	353.2	
480-42572-2	MW-221S	Total/NA	Ground Water	353.2	
480-42572-3	MW-223D	Total/NA	Ground Water	353.2	
480-42572-4	MW-221D	Total/NA	Ground Water	353.2	
480-42572-5	MW-245S	Total/NA	Ground Water	353.2	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-7	MW-222	Total/NA	Ground Water	353.2	
480-42572-8	MW-220	Total/NA	Ground Water	353.2	
480-42572-9	MW-245D	Total/NA	Ground Water	353.2	

#### Analysis Batch: 130698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	350.1	
480-42430-2	MW-304VS	Total/NA	Ground Water	350.1	
480-42430-3	MW-304D	Total/NA	Ground Water	350.1	
480-42430-4	MW-303S	Total/NA	Ground Water	350.1	
480-42488-1	MS-207SA	Total/NA	Ground Water	350.1	
480-42488-2	MW-234D	Total/NA	Ground Water	350.1	
480-42488-3	MW-207D	Total/NA	Ground Water	350.1	
480-42488-4	MW-303D	Total/NA	Ground Water	350.1	
480-42488-5	MW-230S	Total/NA	Ground Water	350.1	
480-42488-6	MW-312S	Total/NA	Ground Water	350.1	
480-42488-7	MW-223S	Total/NA	Ground Water	350.1	
480-42488-8	MW-232S	Total/NA	Ground Water	350.1	
480-42488-9	MW-233S	Total/NA	Ground Water	350.1	
LCS 480-130698/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-130698/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-130698/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-130698/76	Lab Control Sample	Total/NA	Water	350.1	
MB 480-130698/27	Method Blank	Total/NA	Water	350.1	
MB 480-130698/3	Method Blank	Total/NA	Water	350.1	
MB 480-130698/51	Method Blank	Total/NA	Water	350.1	
MB 480-130698/75	Method Blank	Total/NA	Water	350.1	

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#### Analysis Batch: 130706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-2	MW-221S	Total/NA	Ground Water	SM 5210B	
480-42572-3	MW-223D	Total/NA	Ground Water	SM 5210B	
480-42572-4	MW-221D	Total/NA	Ground Water	SM 5210B	
480-42572-8	MW-220	Total/NA	Ground Water	SM 5210B	
LCS 480-130706/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 480-130706/1 USB	Method Blank	Total/NA	Water	SM 5210B	

#### Analysis Batch: 130712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	180.1	
480-42572-1 DU	MW-3B	Total/NA	Ground Water	180.1	
480-42572-2	MW-221S	Total/NA	Ground Water	180.1	
480-42572-3	MW-223D	Total/NA	Ground Water	180.1	
480-42572-4	MW-221D	Total/NA	Ground Water	180.1	
480-42572-5	MW-245S	Total/NA	Ground Water	180.1	
480-42572-7	MW-222	Total/NA	Ground Water	180.1	
480-42572-8	MW-220	Total/NA	Ground Water	180.1	
480-42572-9	MW-245D	Total/NA	Ground Water	180.1	
LCS 480-130712/4	Lab Control Sample	Total/NA	Water	180.1	
MB 480-130712/3	Method Blank	Total/NA	Water	180.1	

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# QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

## General Chemistry (Continued)

### Analysis Batch: 130715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	SM 2120B	
480-42572-2	MW-221S	Total/NA	Ground Water	SM 2120B	
480-42572-2 DU	MW-221S	Total/NA	Ground Water	SM 2120B	
480-42572-3	MW-223D	Total/NA	Ground Water	SM 2120B	
480-42572-4	MW-221D	Total/NA	Ground Water	SM 2120B	
480-42572-5	MW-245S	Total/NA	Ground Water	SM 2120B	
480-42572-7	MW-222	Total/NA	Ground Water	SM 2120B	
480-42572-8	MW-220	Total/NA	Ground Water	SM 2120B	
480-42572-9	MW-245D	Total/NA	Ground Water	SM 2120B	
LCS 480-130715/4	Lab Control Sample	Total/NA	Water	SM 2120B	
MB 480-130715/3	Method Blank	Total/NA	Water	SM 2120B	

### Analysis Batch: 130718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	SM 2340C	
480-42430-2	MW-304VS	Total/NA	Ground Water	SM 2340C	
480-42430-3	MW-304D	Total/NA	Ground Water	SM 2340C	
480-42430-3 DU	MW-304D	Total/NA	Ground Water	SM 2340C	
480-42430-4	MW-303S	Total/NA	Ground Water	SM 2340C	
480-42488-1	MS-207SA	Total/NA	Ground Water	SM 2340C	
480-42488-2	MW-234D	Total/NA	Ground Water	SM 2340C	
480-42488-3	MW-207D	Total/NA	Ground Water	SM 2340C	
480-42488-4	MW-303D	Total/NA	Ground Water	SM 2340C	
LCS 480-130718/28	Lab Control Sample	Total/NA	Water	SM 2340C	
LCS 480-130718/52	Lab Control Sample	Total/NA	Water	SM 2340C	
LCS 480-130718/76	Lab Control Sample	Total/NA	Water	SM 2340C	
MB 480-130718/27	Method Blank	Total/NA	Water	SM 2340C	
MB 480-130718/51	Method Blank	Total/NA	Water	SM 2340C	
MB 480-130718/75	Method Blank	Total/NA	Water	SM 2340C	

### Analysis Batch: 130728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	SM 2540C	
480-42572-2	MW-221S	Total/NA	Ground Water	SM 2540C	
480-42572-3	MW-223D	Total/NA	Ground Water	SM 2540C	
480-42572-4	MW-221D	Total/NA	Ground Water	SM 2540C	
480-42572-4 DU	MW-221D	Total/NA	Ground Water	SM 2540C	
480-42572-5	MW-245S	Total/NA	Ground Water	SM 2540C	
480-42572-7	MW-222	Total/NA	Ground Water	SM 2540C	
480-42572-8	MW-220	Total/NA	Ground Water	SM 2540C	
480-42572-9	MW-245D	Total/NA	Ground Water	SM 2540C	
LCS 480-130728/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-130728/1	Method Blank	Total/NA	Water	SM 2540C	

### Analysis Batch: 130741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	310.2	
480-42488-2	MW-234D	Total/NA	Ground Water	310.2	
480-42488-3	MW-207D	Total/NA	Ground Water	310.2	
480-42488-4	MW-303D	Total/NA	Ground Water	310.2	
480-42488-5	MW-230S	Total/NA	Ground Water	310.2	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130741 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-6	MW-312S	Total/NA	Ground Water	310.2	
480-42488-7	MW-223S	Total/NA	Ground Water	310.2	
480-42488-8	MW-232S	Total/NA	Ground Water	310.2	
480-42488-9	MW-233S	Total/NA	Ground Water	310.2	
480-42572-1	MW-3B	Total/NA	Ground Water	310.2	
480-42572-2	MW-221S	Total/NA	Ground Water	310.2	
480-42572-3	MW-223D	Total/NA	Ground Water	310.2	
480-42572-4	MW-221D	Total/NA	Ground Water	310.2	
480-42572-5	MW-245S	Total/NA	Ground Water	310.2	
480-42572-7	MW-222	Total/NA	Ground Water	310.2	
480-42572-8	MW-220	Total/NA	Ground Water	310.2	
480-42572-9	MW-245D	Total/NA	Ground Water	310.2	
LCS 480-130741/12	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-130741/38	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-130741/66	Lab Control Sample	Total/NA	Water	310.2	
MB 480-130741/13	Method Blank	Total/NA	Water	310.2	
MB 480-130741/39	Method Blank	Total/NA	Water	310.2	
MB 480-130741/67	Method Blank	Total/NA	Water	310.2	

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#### Prep Batch: 130750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	9012A	
480-42572-2	MW-221S	Total/NA	Ground Water	9012A	
480-42572-3	MW-223D	Total/NA	Ground Water	9012A	
480-42572-3 DU	MW-223D	Total/NA	Ground Water	9012A	
480-42572-4	MW-221D	Total/NA	Ground Water	9012A	
480-42572-5	MW-245S	Total/NA	Ground Water	9012A	
LCS 480-130750/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-130750/1-A	Method Blank	Total/NA	Water	9012A	

#### Analysis Batch: 130759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	SM 5210B	
480-42572-5	MW-245S	Total/NA	Ground Water	SM 5210B	
480-42572-7	MW-222	Total/NA	Ground Water	SM 5210B	
LCS 480-130759/2	Lab Control Sample	Total/NA	Water	SM 5210B	
USB 480-130759/1 USB	Method Blank	Total/NA	Water	SM 5210B	

#### Prep Batch: 130760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-5	MW-245S	Total/NA	Ground Water	Distill/Phenol	
LCS 480-130760/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-130760/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

#### Prep Batch: 130762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-9	MW-233S	Total/NA	Ground Water	351.2	
480-42572-1	MW-3B	Total/NA	Ground Water	351.2	
480-42572-2	MW-221S	Total/NA	Ground Water	351.2	
480-42572-3	MW-223D	Total/NA	Ground Water	351.2	
480-42572-4	MW-221D	Total/NA	Ground Water	351.2	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Prep Batch: 130762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-5	MW-245S	Total/NA	Ground Water	351.2	
480-42572-7	MW-222	Total/NA	Ground Water	351.2	
480-42572-8	MW-220	Total/NA	Ground Water	351.2	
480-42572-9	MW-245D	Total/NA	Ground Water	351.2	
LCS 480-130762/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 480-130762/1-A	Method Blank	Total/NA	Water	351.2	

#### Analysis Batch: 130776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	9060	
480-42430-2	MW-304VS	Total/NA	Ground Water	9060	
480-42430-3	MW-304D	Total/NA	Ground Water	9060	
480-42430-4	MW-303S	Total/NA	Ground Water	9060	
LCS 480-130776/52	Lab Control Sample	Total/NA	Water	9060	
MB 480-130776/51	Method Blank	Total/NA	Water	9060	

#### Analysis Batch: 130872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	7196A	
480-42659-2	PZ-1A	Total/NA	Ground Water	7196A	
480-42659-4	PZ-4	Total/NA	Ground Water	7196A	
LCS 480-130872/4	Lab Control Sample	Total/NA	Water	7196A	
MB 480-130872/3	Method Blank	Total/NA	Water	7196A	

#### Analysis Batch: 130882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-5	MW-245S	Total/NA	Ground Water	300.0	
480-42572-8	MW-220	Total/NA	Ground Water	300.0	
480-42572-9	MW-245D	Total/NA	Ground Water	300.0	
LCS 480-130882/27	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130882/28	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	300.0	
480-42659-2	PZ-1A	Total/NA	Ground Water	300.0	
480-42659-4	PZ-4	Total/NA	Ground Water	300.0	
LCS 480-130894/147	Lab Control Sample	Total/NA	Water	300.0	
MB 480-130894/148	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 130911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	9066	130512
480-42488-2	MW-234D	Total/NA	Ground Water	9066	130512
480-42488-3	MW-207D	Total/NA	Ground Water	9066	130512
480-42488-4	MW-303D	Total/NA	Ground Water	9066	130512
480-42488-5	MW-230S	Total/NA	Ground Water	9066	130512
480-42488-6	MW-312S	Total/NA	Ground Water	9066	130512
480-42488-7	MW-223S	Total/NA	Ground Water	9066	130512
480-42488-7 DU	MW-223S	Total/NA	Ground Water	9066	130512
480-42488-8	MW-232S	Total/NA	Ground Water	9066	130512

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-9	MW-233S	Total/NA	Ground Water	9066	130512
480-42488-9 MS	MW-233S	Total/NA	Ground Water	9066	130512
480-42572-5	MW-245S	Total/NA	Ground Water	9066	130760
LCS 480-130512/2-A	Lab Control Sample	Total/NA	Water	9066	130512
LCS 480-130760/2-A	Lab Control Sample	Total/NA	Water	9066	130760
MB 480-130512/1-A	Method Blank	Total/NA	Water	9066	130512
MB 480-130760/1-A	Method Blank	Total/NA	Water	9066	130760

#### Prep Batch: 130920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	Distill/Phenol	
480-42572-2	MW-221S	Total/NA	Ground Water	Distill/Phenol	
480-42572-3	MW-223D	Total/NA	Ground Water	Distill/Phenol	
480-42572-4	MW-221D	Total/NA	Ground Water	Distill/Phenol	
480-42572-7	MW-222	Total/NA	Ground Water	Distill/Phenol	
480-42572-8	MW-220	Total/NA	Ground Water	Distill/Phenol	
LCS 480-130920/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-130920/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

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#### Analysis Batch: 130932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	353.2	
480-42659-2	PZ-1A	Total/NA	Ground Water	353.2	
480-42659-4	PZ-4	Total/NA	Ground Water	353.2	

#### Analysis Batch: 130937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	9012A	130750
480-42572-2	MW-221S	Total/NA	Ground Water	9012A	130750
480-42572-3	MW-223D	Total/NA	Ground Water	9012A	130750
480-42572-3 DU	MW-223D	Total/NA	Ground Water	9012A	130750
480-42572-4	MW-221D	Total/NA	Ground Water	9012A	130750
480-42572-5	MW-245S	Total/NA	Ground Water	9012A	130750
LCS 480-130750/2-A	Lab Control Sample	Total/NA	Water	9012A	130750
MB 480-130750/1-A	Method Blank	Total/NA	Water	9012A	130750

#### Analysis Batch: 130939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	180.1	
480-42659-2	PZ-1A	Total/NA	Ground Water	180.1	
480-42659-4	PZ-4	Total/NA	Ground Water	180.1	
LCS 480-130939/4	Lab Control Sample	Total/NA	Water	180.1	
MB 480-130939/3	Method Blank	Total/NA	Water	180.1	

#### Analysis Batch: 130957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	SM 2120B	
480-42659-2	PZ-1A	Total/NA	Ground Water	SM 2120B	
480-42659-4	PZ-4	Total/NA	Ground Water	SM 2120B	
LCS 480-130957/4	Lab Control Sample	Total/NA	Water	SM 2120B	
MB 480-130957/3	Method Blank	Total/NA	Water	SM 2120B	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	350.1	
480-42572-2	MW-221S	Total/NA	Ground Water	350.1	
480-42572-3	MW-223D	Total/NA	Ground Water	350.1	
480-42572-4	MW-221D	Total/NA	Ground Water	350.1	
480-42572-5	MW-245S	Total/NA	Ground Water	350.1	
480-42572-7	MW-222	Total/NA	Ground Water	350.1	
480-42572-8	MW-220	Total/NA	Ground Water	350.1	
480-42572-9	MW-245D	Total/NA	Ground Water	350.1	
480-42659-1	PZ-11	Total/NA	Ground Water	350.1	
480-42659-2	PZ-1A	Total/NA	Ground Water	350.1	
480-42659-4	PZ-4	Total/NA	Ground Water	350.1	
LCS 480-130960/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-130960/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-130960/172	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-130960/4	Lab Control Sample	Total/NA	Water	350.1	
MB 480-130960/123	Method Blank	Total/NA	Water	350.1	
MB 480-130960/171	Method Blank	Total/NA	Water	350.1	
MB 480-130960/3	Method Blank	Total/NA	Water	350.1	
MB 480-130960/99	Method Blank	Total/NA	Water	350.1	

#### Analysis Batch: 130966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-9	MW-233S	Total/NA	Ground Water	351.2	130762
480-42572-1	MW-3B	Total/NA	Ground Water	351.2	130762
480-42572-2	MW-221S	Total/NA	Ground Water	351.2	130762
480-42572-3	MW-223D	Total/NA	Ground Water	351.2	130762
480-42572-4	MW-221D	Total/NA	Ground Water	351.2	130762
480-42572-5	MW-245S	Total/NA	Ground Water	351.2	130762
480-42572-7	MW-222	Total/NA	Ground Water	351.2	130762
480-42572-8	MW-220	Total/NA	Ground Water	351.2	130762
480-42572-9	MW-245D	Total/NA	Ground Water	351.2	130762
LCS 480-130762/2-A	Lab Control Sample	Total/NA	Water	351.2	130762
MB 480-130762/1-A	Method Blank	Total/NA	Water	351.2	130762

#### Analysis Batch: 130980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	310.2	
480-42659-2	PZ-1A	Total/NA	Ground Water	310.2	
480-42659-4	PZ-4	Total/NA	Ground Water	310.2	
LCS 480-130980/29	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-130980/60	Lab Control Sample	Total/NA	Water	310.2	
MB 480-130980/30	Method Blank	Total/NA	Water	310.2	
MB 480-130980/61	Method Blank	Total/NA	Water	310.2	

#### Analysis Batch: 130993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	SM 5210B	
480-42659-2	PZ-1A	Total/NA	Ground Water	SM 5210B	
480-42659-3	MW-245D	Total/NA	Ground Water	SM 5210B	
480-42659-4	PZ-4	Total/NA	Ground Water	SM 5210B	
LCS 480-130993/2	Lab Control Sample	Total/NA	Water	SM 5210B	

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 130993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
USB 480-130993/1 USB	Method Blank	Total/NA	Water	SM 5210B	

#### Analysis Batch: 131032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	410.4	
480-42572-2	MW-221S	Total/NA	Ground Water	410.4	
480-42572-3	MW-223D	Total/NA	Ground Water	410.4	
480-42572-3 DU	MW-223D	Total/NA	Ground Water	410.4	
480-42572-3 MS	MW-223D	Total/NA	Ground Water	410.4	
480-42572-4	MW-221D	Total/NA	Ground Water	410.4	
480-42572-5	MW-245S	Total/NA	Ground Water	410.4	
480-42572-7	MW-222	Total/NA	Ground Water	410.4	
480-42572-8	MW-220	Total/NA	Ground Water	410.4	
480-42572-9	MW-245D	Total/NA	Ground Water	410.4	
LCS 480-131032/4	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-131032/52	Lab Control Sample	Total/NA	Water	410.4	
MB 480-131032/3	Method Blank	Total/NA	Water	410.4	
MB 480-131032/51	Method Blank	Total/NA	Water	410.4	

#### Analysis Batch: 131034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	9066	130920
480-42572-2	MW-221S	Total/NA	Ground Water	9066	130920
480-42572-3	MW-223D	Total/NA	Ground Water	9066	130920
480-42572-4	MW-221D	Total/NA	Ground Water	9066	130920
480-42572-7	MW-222	Total/NA	Ground Water	9066	130920
480-42572-8	MW-220	Total/NA	Ground Water	9066	130920
LCS 480-130920/2-A	Lab Control Sample	Total/NA	Water	9066	130920
MB 480-130920/1-A	Method Blank	Total/NA	Water	9066	130920

#### Prep Batch: 131048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-9	MW-245D	Total/NA	Ground Water	Distill/Phenol	
LCS 480-131048/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-131048/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

#### Analysis Batch: 131106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-1	MW-3B	Total/NA	Ground Water	9060	
480-42572-2	MW-221S	Total/NA	Ground Water	9060	
480-42572-3	MW-223D	Total/NA	Ground Water	9060	
480-42572-4	MW-221D	Total/NA	Ground Water	9060	
480-42572-5	MW-245S	Total/NA	Ground Water	9060	
480-42572-5 MS	MW-245S	Total/NA	Ground Water	9060	
480-42572-7	MW-222	Total/NA	Ground Water	9060	
480-42572-8	MW-220	Total/NA	Ground Water	9060	
480-42572-9	MW-245D	Total/NA	Ground Water	9060	
LCS 480-131106/28	Lab Control Sample	Total/NA	Water	9060	
MB 480-131106/27	Method Blank	Total/NA	Water	9060	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 131107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	9060	
480-42488-2	MW-234D	Total/NA	Ground Water	9060	
480-42488-3	MW-207D	Total/NA	Ground Water	9060	
480-42488-4	MW-303D	Total/NA	Ground Water	9060	
480-42488-4 MS	MW-303D	Total/NA	Ground Water	9060	
480-42488-5	MW-230S	Total/NA	Ground Water	9060	
480-42488-5 DU	MW-230S	Total/NA	Ground Water	9060	
480-42488-6	MW-312S	Total/NA	Ground Water	9060	
480-42488-7	MW-223S	Total/NA	Ground Water	9060	
480-42488-8	MW-232S	Total/NA	Ground Water	9060	
480-42488-9	MW-233S	Total/NA	Ground Water	9060	
LCS 480-131107/28	Lab Control Sample	Total/NA	Water	9060	
LCS 480-131107/52	Lab Control Sample	Total/NA	Water	9060	
MB 480-131107/27	Method Blank	Total/NA	Water	9060	
MB 480-131107/51	Method Blank	Total/NA	Water	9060	

#### Prep Batch: 131174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	Distill/Phenol	
480-42659-2	PZ-1A	Total/NA	Ground Water	Distill/Phenol	
LCS 480-131174/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-131174/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

#### Analysis Batch: 131181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-9	MW-245D	Total/NA	Ground Water	9066	131048
LCS 480-131048/2-A	Lab Control Sample	Total/NA	Water	9066	131048
MB 480-131048/1-A	Method Blank	Total/NA	Water	9066	131048

#### Analysis Batch: 131184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-2	PZ-1A	Total/NA	Ground Water	410.4	
480-42659-4	PZ-4	Total/NA	Ground Water	410.4	
LCS 480-131184/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-131184/3	Method Blank	Total/NA	Water	410.4	

#### Analysis Batch: 131185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-2	PZ-1A	Total/NA	Ground Water	300.0	
480-42659-4	PZ-4	Total/NA	Ground Water	300.0	
LCS 480-131185/21	Lab Control Sample	Total/NA	Water	300.0	
MB 480-131185/22	Method Blank	Total/NA	Water	300.0	

#### Prep Batch: 131246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-4	PZ-4	Total/NA	Ground Water	Distill/Phenol	
LCS 480-131246/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
MB 480-131246/1-A	Method Blank	Total/NA	Water	Distill/Phenol	

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 131252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	SM 2540C	
480-42659-2	PZ-1A	Total/NA	Ground Water	SM 2540C	
480-42659-4	PZ-4	Total/NA	Ground Water	SM 2540C	
LCS 480-131252/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 480-131252/1	Method Blank	Total/NA	Water	SM 2540C	

#### Prep Batch: 131259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	9012A	
480-42488-2	MW-234D	Total/NA	Ground Water	9012A	
480-42488-3	MW-207D	Total/NA	Ground Water	9012A	
480-42488-4	MW-303D	Total/NA	Ground Water	9012A	
480-42488-5	MW-230S	Total/NA	Ground Water	9012A	
480-42488-6	MW-312S	Total/NA	Ground Water	9012A	
480-42488-7	MW-223S	Total/NA	Ground Water	9012A	
480-42488-7 DU	MW-223S	Total/NA	Ground Water	9012A	
480-42488-7 MS	MW-223S	Total/NA	Ground Water	9012A	
LCS 480-131259/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-131259/1-A	Method Blank	Total/NA	Water	9012A	

#### Analysis Batch: 131267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-1	MS-207SA	Total/NA	Ground Water	9012A	131259
480-42488-2	MW-234D	Total/NA	Ground Water	9012A	131259
480-42488-3	MW-207D	Total/NA	Ground Water	9012A	131259
480-42488-4	MW-303D	Total/NA	Ground Water	9012A	131259
480-42488-5	MW-230S	Total/NA	Ground Water	9012A	131259
480-42488-6	MW-312S	Total/NA	Ground Water	9012A	131259
480-42488-7	MW-223S	Total/NA	Ground Water	9012A	131259
480-42488-7 DU	MW-223S	Total/NA	Ground Water	9012A	131259
480-42488-7 MS	MW-223S	Total/NA	Ground Water	9012A	131259
LCS 480-131267/2-A	Lab Control Sample	Total/NA	Water	9012A	131259
MB 480-131267/1-A	Method Blank	Total/NA	Water	9012A	131259

#### Prep Batch: 131281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	351.2	
480-42659-2	PZ-1A	Total/NA	Ground Water	351.2	
480-42659-4	PZ-4	Total/NA	Ground Water	351.2	

#### Prep Batch: 131292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-7	MW-222	Total/NA	Ground Water	9012A	
LCS 480-131292/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-131292/1-A	Method Blank	Total/NA	Water	9012A	

#### Prep Batch: 131375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	9012A	
480-42430-3	MW-304D	Total/NA	Ground Water	9012A	
480-42430-4	MW-303S	Total/NA	Ground Water	9012A	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Prep Batch: 131375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-4 MS	MW-303S	Total/NA	Ground Water	9012A	
480-42488-8	MW-232S	Total/NA	Ground Water	9012A	
LCS 480-131375/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-131375/1-A	Method Blank	Total/NA	Water	9012A	

#### Prep Batch: 131376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-9	MW-233S	Total/NA	Ground Water	9012A	
480-42572-8	MW-220	Total/NA	Ground Water	9012A	
480-42572-8 MS	MW-220	Total/NA	Ground Water	9012A	
480-42572-9	MW-245D	Total/NA	Ground Water	9012A	
480-42572-9 DU	MW-245D	Total/NA	Ground Water	9012A	
LCS 480-131376/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-131376/1-A	Method Blank	Total/NA	Water	9012A	

#### Analysis Batch: 131386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	410.4	
LCS 480-131386/28	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-131386/4	Lab Control Sample	Total/NA	Water	410.4	
MB 480-131386/27	Method Blank	Total/NA	Water	410.4	
MB 480-131386/3	Method Blank	Total/NA	Water	410.4	

#### Analysis Batch: 131412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	9066	131174
480-42659-2	PZ-1A	Total/NA	Ground Water	9066	131174
480-42659-4	PZ-4	Total/NA	Ground Water	9066	131246
LCS 480-131174/2-A	Lab Control Sample	Total/NA	Water	9066	131174
LCS 480-131246/2-A	Lab Control Sample	Total/NA	Water	9066	131246
MB 480-131174/1-A	Method Blank	Total/NA	Water	9066	131174
MB 480-131246/1-A	Method Blank	Total/NA	Water	9066	131246

#### Analysis Batch: 131414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42572-7	MW-222	Total/NA	Ground Water	9012A	131292
LCS 480-131292/2-A	Lab Control Sample	Total/NA	Water	9012A	131292
MB 480-131292/1-A	Method Blank	Total/NA	Water	9012A	131292

#### Analysis Batch: 131418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	351.2	131281
480-42659-2	PZ-1A	Total/NA	Ground Water	351.2	131281
480-42659-4	PZ-4	Total/NA	Ground Water	351.2	131281

#### Analysis Batch: 131471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-5	MW-230S	Total/NA	Ground Water	SM 2340C	
480-42488-6	MW-312S	Total/NA	Ground Water	SM 2340C	
480-42488-7	MW-223S	Total/NA	Ground Water	SM 2340C	
480-42488-8	MW-232S	Total/NA	Ground Water	SM 2340C	

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## QC Association Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Analysis Batch: 131471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42488-9	MW-233S	Total/NA	Ground Water	SM 2340C	
480-42488-9 DU	MW-233S	Total/NA	Ground Water	SM 2340C	
480-42572-1	MW-3B	Total/NA	Ground Water	SM 2340C	
480-42572-2	MW-221S	Total/NA	Ground Water	SM 2340C	
480-42572-2 MS	MW-221S	Total/NA	Ground Water	SM 2340C	
480-42572-3	MW-223D	Total/NA	Ground Water	SM 2340C	
480-42572-4	MW-221D	Total/NA	Ground Water	SM 2340C	
480-42572-4 DU	MW-221D	Total/NA	Ground Water	SM 2340C	
480-42572-5	MW-245S	Total/NA	Ground Water	SM 2340C	
480-42572-7	MW-222	Total/NA	Ground Water	SM 2340C	
480-42572-8	MW-220	Total/NA	Ground Water	SM 2340C	
480-42572-9	MW-245D	Total/NA	Ground Water	SM 2340C	
480-42659-1	PZ-11	Total/NA	Ground Water	SM 2340C	
480-42659-2	PZ-1A	Total/NA	Ground Water	SM 2340C	
LCS 480-131471/28	Lab Control Sample	Total/NA	Water	SM 2340C	
LCS 480-131471/4	Lab Control Sample	Total/NA	Water	SM 2340C	
LCS 480-131471/52	Lab Control Sample	Total/NA	Water	SM 2340C	
LCS 480-131471/76	Lab Control Sample	Total/NA	Water	SM 2340C	
MB 480-131471/27	Method Blank	Total/NA	Water	SM 2340C	
MB 480-131471/3	Method Blank	Total/NA	Water	SM 2340C	
MB 480-131471/51	Method Blank	Total/NA	Water	SM 2340C	
MB 480-131471/75	Method Blank	Total/NA	Water	SM 2340C	

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#### Analysis Batch: 131482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42430-1	MW-304S	Total/NA	Ground Water	9012A	131375
480-42430-3	MW-304D	Total/NA	Ground Water	9012A	131375
480-42430-4	MW-303S	Total/NA	Ground Water	9012A	131375
480-42430-4 MS	MW-303S	Total/NA	Ground Water	9012A	131375
480-42488-8	MW-232S	Total/NA	Ground Water	9012A	131375
480-42488-9	MW-233S	Total/NA	Ground Water	9012A	131376
480-42572-8	MW-220	Total/NA	Ground Water	9012A	131376
480-42572-8 MS	MW-220	Total/NA	Ground Water	9012A	131376
480-42572-9	MW-245D	Total/NA	Ground Water	9012A	131376
480-42572-9 DU	MW-245D	Total/NA	Ground Water	9012A	131376
LCS 480-131375/2-A	Lab Control Sample	Total/NA	Water	9012A	131375
LCS 480-131376/2-A	Lab Control Sample	Total/NA	Water	9012A	131376
MB 480-131375/1-A	Method Blank	Total/NA	Water	9012A	131375
MB 480-131376/1-A	Method Blank	Total/NA	Water	9012A	131376

#### Analysis Batch: 131523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-4	PZ-4	Total/NA	Ground Water	SM 2340C	
LCS 480-131523/4	Lab Control Sample	Total/NA	Water	SM 2340C	
MB 480-131523/3	Method Blank	Total/NA	Water	SM 2340C	

#### Analysis Batch: 131580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	9060	
480-42659-2	PZ-1A	Total/NA	Ground Water	9060	
480-42659-4	PZ-4	Total/NA	Ground Water	9060	

TestAmerica Buffalo

## QC Association Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### General Chemistry (Continued)

#### Prep Batch: 131727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	9012A	
480-42659-2	PZ-1A	Total/NA	Ground Water	9012A	
480-42659-4	PZ-4	Total/NA	Ground Water	9012A	
LCS 480-131727/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 480-131727/1-A	Method Blank	Total/NA	Water	9012A	

#### Analysis Batch: 131861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42659-1	PZ-11	Total/NA	Ground Water	9012A	131727
480-42659-2	PZ-1A	Total/NA	Ground Water	9012A	131727
480-42659-4	PZ-4	Total/NA	Ground Water	9012A	131727
LCS 480-131727/2-A	Lab Control Sample	Total/NA	Water	9012A	131727
MB 480-131727/1-A	Method Blank	Total/NA	Water	9012A	131727

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304S**

**Lab Sample ID: 480-42430-1**

Date Collected: 07/22/13 12:30

Matrix: Ground Water

Date Received: 07/23/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130203	07/23/13 18:39	TRB	TAL BUF
Total/NA	Prep	7470A			130292	07/24/13 07:30	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130424	07/24/13 11:47	JRK	TAL BUF
Dissolved	Prep	7470A			130302	07/24/13 08:00	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130445	07/24/13 13:43	JRK	TAL BUF
Dissolved	Prep	3005A			130254	07/24/13 08:20	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130549	07/25/13 01:58	LMH	TAL BUF
Total/NA	Prep	3005A			130253	07/24/13 08:20	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130559	07/25/13 00:03	AMH	TAL BUF
Total/NA	Analysis	7196A		2	130167	07/23/13 10:17	KJ1	TAL BUF
Total/NA	Analysis	300.0		1	130190	07/24/13 09:50	KRC	TAL BUF
Total/NA	Analysis	180.1		1	130218	07/23/13 15:00	SAB	TAL BUF
Total/NA	Analysis	SM 2120B		1	130225	07/23/13 16:15	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130233	07/23/13 20:35	KS	TAL BUF
Total/NA	Analysis	353.2		1	130236	07/23/13 16:34	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130261	07/23/13 17:56	JMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130274	07/23/13 16:36	KS	TAL BUF
Total/NA	Prep	351.2			130270	07/23/13 23:29	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130434	07/24/13 12:36	EGN	TAL BUF
Total/NA	Prep	Distill/Phenol			130382	07/24/13 09:30	SAB	TAL BUF
Total/NA	Analysis	9066		1	130469	07/24/13 15:52	RMB	TAL BUF
Total/NA	Analysis	310.2		10	130634	07/24/13 14:49	KWJ	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 11:32	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	9060		1	130776	07/25/13 19:02	KRC	TAL BUF
Total/NA	Prep	9012A			131375	07/30/13 08:21	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	131482	07/30/13 15:51	KMF	TAL BUF



**Client Sample ID: MW-304VS**

**Lab Sample ID: 480-42430-2**

Date Collected: 07/22/13 12:55

Matrix: Ground Water

Date Received: 07/23/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130203	07/23/13 19:02	TRB	TAL BUF
Total/NA	Prep	7470A			130292	07/24/13 07:30	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130424	07/24/13 11:48	JRK	TAL BUF
Dissolved	Prep	7470A			130302	07/24/13 08:00	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130445	07/24/13 13:50	JRK	TAL BUF
Dissolved	Prep	3005A			130254	07/24/13 08:20	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130549	07/25/13 02:01	LMH	TAL BUF
Total/NA	Prep	3005A			130253	07/24/13 08:20	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130559	07/25/13 00:05	AMH	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304VS**

**Lab Sample ID: 480-42430-2**

Date Collected: 07/22/13 12:55

Matrix: Ground Water

Date Received: 07/23/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	130167	07/23/13 10:17	KJ1	TAL BUF
Total/NA	Analysis	300.0		1	130190	07/24/13 10:03	KRC	TAL BUF
Total/NA	Analysis	180.1		1	130218	07/23/13 15:00	SAB	TAL BUF
Total/NA	Analysis	SM 2120B		2	130225	07/23/13 16:15	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130233	07/23/13 20:37	KS	TAL BUF
Total/NA	Analysis	353.2		1	130236	07/23/13 16:37	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130261	07/23/13 17:56	JMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130274	07/23/13 16:36	KS	TAL BUF
Total/NA	Prep	9012A			130244	07/23/13 16:30	JMB	TAL BUF
Total/NA	Analysis	9012A		1	130378	07/24/13 10:05	KWJ	TAL BUF
Total/NA	Analysis	300.0		5	130414	07/25/13 00:28	KRC	TAL BUF
Total/NA	Prep	351.2			130270	07/23/13 23:29	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130434	07/24/13 12:36	EGN	TAL BUF
Total/NA	Prep	Distill/Phenol			130382	07/24/13 09:30	SAB	TAL BUF
Total/NA	Analysis	9066		1	130469	07/24/13 15:52	RMB	TAL BUF
Total/NA	Analysis	310.2		10	130634	07/24/13 14:49	KWJ	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 11:33	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	9060		1	130776	07/25/13 19:32	KRC	TAL BUF

**Client Sample ID: MW-304D**

**Lab Sample ID: 480-42430-3**

Date Collected: 07/22/13 11:30

Matrix: Ground Water

Date Received: 07/23/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130203	07/23/13 19:25	TRB	TAL BUF
Total/NA	Prep	7470A			130292	07/24/13 07:30	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130424	07/24/13 11:54	JRK	TAL BUF
Dissolved	Prep	7470A			130302	07/24/13 08:00	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130445	07/24/13 13:52	JRK	TAL BUF
Dissolved	Prep	3005A			130254	07/24/13 08:20	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130549	07/25/13 02:04	LMH	TAL BUF
Total/NA	Prep	3005A			130253	07/24/13 08:20	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130559	07/25/13 00:08	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130167	07/23/13 10:17	KJ1	TAL BUF
Total/NA	Analysis	300.0		1	130192	07/24/13 11:35	KRC	TAL BUF
Total/NA	Analysis	180.1		1	130218	07/23/13 15:00	SAB	TAL BUF
Total/NA	Analysis	SM 2120B		1	130225	07/23/13 16:15	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130233	07/23/13 20:38	KS	TAL BUF
Total/NA	Analysis	353.2		1	130236	07/23/13 16:38	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130261	07/23/13 17:56	JMB	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-304D**

Date Collected: 07/22/13 11:30

Date Received: 07/23/13 09:00

**Lab Sample ID: 480-42430-3**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	130274	07/23/13 16:36	KS	TAL BUF
Total/NA	Prep	351.2			130270	07/23/13 23:29	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130434	07/24/13 12:36	EGN	TAL BUF
Total/NA	Prep	Distill/Phenol			130382	07/24/13 09:30	SAB	TAL BUF
Total/NA	Analysis	9066		1	130469	07/24/13 15:52	RMB	TAL BUF
Total/NA	Analysis	310.2		5	130634	07/25/13 07:30	KWJ	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 11:38	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	9060		1	130776	07/25/13 20:02	KRC	TAL BUF
Total/NA	Prep	9012A			131375	07/30/13 08:21	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	131482	07/30/13 15:51	KMF	TAL BUF



**Client Sample ID: MW-303S**

Date Collected: 07/22/13 13:45

Date Received: 07/23/13 09:00

**Lab Sample ID: 480-42430-4**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130203	07/23/13 19:49	TRB	TAL BUF
Total/NA	Prep	7470A			130292	07/24/13 07:30	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130424	07/24/13 11:55	JRK	TAL BUF
Dissolved	Prep	7470A			130302	07/24/13 08:00	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130445	07/24/13 13:54	JRK	TAL BUF
Dissolved	Prep	3005A			130254	07/24/13 08:20	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130549	07/25/13 02:21	LMH	TAL BUF
Total/NA	Prep	3005A			130253	07/24/13 08:20	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130559	07/25/13 00:11	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130167	07/23/13 10:17	KJ1	TAL BUF
Total/NA	Analysis	300.0		1	130192	07/24/13 11:48	KRC	TAL BUF
Total/NA	Analysis	180.1		1	130218	07/23/13 15:00	SAB	TAL BUF
Total/NA	Analysis	SM 2120B		1	130225	07/23/13 16:15	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130233	07/23/13 20:39	KS	TAL BUF
Total/NA	Analysis	353.2		1	130236	07/23/13 16:39	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130261	07/23/13 17:56	JMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130274	07/23/13 16:36	KS	TAL BUF
Total/NA	Prep	351.2			130270	07/23/13 23:29	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130434	07/24/13 12:36	EGN	TAL BUF
Total/NA	Prep	Distill/Phenol			130382	07/24/13 09:30	SAB	TAL BUF
Total/NA	Analysis	9066		1	130469	07/24/13 15:53	RMB	TAL BUF
Total/NA	Analysis	310.2		5	130634	07/25/13 07:30	KWJ	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 11:39	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	9060		1	130776	07/25/13 20:32	KRC	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-303S**

Date Collected: 07/22/13 13:45  
 Date Received: 07/23/13 09:00

**Lab Sample ID: 480-42430-4**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			131375	07/30/13 08:21	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	131482	07/30/13 15:52	KMF	TAL BUF

**Client Sample ID: Trip Blank**

Date Collected: 07/22/13 00:00  
 Date Received: 07/23/13 09:00

**Lab Sample ID: 480-42430-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130203	07/23/13 20:12	TRB	TAL BUF

**Client Sample ID: MS-207SA**

Date Collected: 07/23/13 08:50  
 Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-1**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 10:35	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:15	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 13:50	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:06	MDM	TAL BUF
Dissolved	Analysis	6010B		1	130950	07/26/13 10:46	MDM	TAL BUF
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 11:27	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 21:37	LMH	TAL BUF
Total/NA	Analysis	SM 5210B		1	130383	07/24/13 10:01	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130418	07/25/13 08:04	KRC	TAL BUF
Total/NA	Analysis	SM 2120B		1	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:36	KS	TAL BUF
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		1	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 12:37	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:37	KJ1	TAL BUF
Total/NA	Prep	351.2			130516	07/24/13 23:43	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:56	EGN	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 12:12	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 18:44	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 10:53	KWJ	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MS-207SA**

Date Collected: 07/23/13 08:50

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-1**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060		1	131107	07/26/13 13:06	KRC	TAL BUF
Total/NA	Prep	9012A			131259	07/29/13 15:35	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131267	07/29/13 21:25	JME	TAL BUF

**Client Sample ID: MW-234D**

Date Collected: 07/23/13 13:30

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-2**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 10:59	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:22	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 14:35	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:14	MDM	TAL BUF
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 11:30	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 21:40	LMH	TAL BUF
Total/NA	Analysis	SM 5210B		1	130383	07/24/13 10:01	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130418	07/25/13 08:14	KRC	TAL BUF
Total/NA	Analysis	SM 2120B		1	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:37	KS	TAL BUF
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		1	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 12:38	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:33	KJ1	TAL BUF
Total/NA	Prep	351.2			130516	07/24/13 23:43	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:49	EGN	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 12:13	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 17:40	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 10:53	KWJ	TAL BUF
Total/NA	Analysis	9060		1	131107	07/26/13 13:33	KRC	TAL BUF
Total/NA	Prep	9012A			131259	07/29/13 15:35	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131267	07/29/13 21:26	JME	TAL BUF

TestAmerica Buffalo



# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-207D**

**Lab Sample ID: 480-42488-3**

Date Collected: 07/23/13 08:20

Matrix: Ground Water

Date Received: 07/24/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 11:22	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:23	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 14:38	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:16	MDM	TAL BUF
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 11:32	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 21:43	LMH	TAL BUF
Total/NA	Analysis	SM 5210B		1	130383	07/24/13 10:01	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130418	07/25/13 08:24	KRC	TAL BUF
Total/NA	Analysis	SM 2120B		4	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:38	KS	TAL BUF
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		1	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 14:49	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:39	KJ1	TAL BUF
Total/NA	Prep	351.2			130516	07/24/13 23:43	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:49	EGN	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 12:14	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 17:40	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 10:54	KWJ	TAL BUF
Total/NA	Analysis	9060		1	131107	07/26/13 14:02	KRC	TAL BUF
Total/NA	Prep	9012A			131259	07/29/13 15:35	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131267	07/29/13 21:27	JME	TAL BUF

**Client Sample ID: MW-303D**

**Lab Sample ID: 480-42488-4**

Date Collected: 07/23/13 07:30

Matrix: Ground Water

Date Received: 07/24/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 11:45	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:25	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 14:39	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:29	MDM	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-303D**

Date Collected: 07/23/13 07:30

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-4**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 11:50	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 21:50	LMH	TAL BUF
Total/NA	Analysis	SM 2120B		1	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:39	KS	TAL BUF
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		1	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130466	07/24/13 15:33	KMF	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 14:50	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:44	KJ1	TAL BUF
Total/NA	Analysis	300.0		5	130650	07/25/13 19:46	KAC	TAL BUF
Total/NA	Prep	351.2			130516	07/24/13 23:43	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:49	EGN	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 12:15	SAB	TAL BUF
Total/NA	Analysis	SM 2340C		1	130718	07/25/13 08:45	MDL	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 17:27	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 10:54	KWJ	TAL BUF
Total/NA	Analysis	9060		1	131107	07/26/13 14:29	KRC	TAL BUF
Total/NA	Prep	9012A			131259	07/29/13 15:35	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131267	07/29/13 21:28	JME	TAL BUF

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**Client Sample ID: MW-230S**

Date Collected: 07/23/13 09:30

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-5**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 12:08	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:27	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 14:41	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:31	MDM	TAL BUF
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 11:52	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 21:53	LMH	TAL BUF
Total/NA	Analysis	300.0		1	130418	07/25/13 08:44	KRC	TAL BUF
Total/NA	Analysis	SM 2120B		1	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:40	KS	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-230S**

Date Collected: 07/23/13 09:30

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-5**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		1	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130466	07/24/13 15:33	KMF	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 14:51	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:45	KJ1	TAL BUF
Total/NA	Prep	351.2			130516	07/24/13 23:43	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:49	EGN	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 12:16	SAB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 17:27	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 10:54	KWJ	TAL BUF
Total/NA	Analysis	9060		1	131107	07/26/13 14:56	KRC	TAL BUF
Total/NA	Prep	9012A			131259	07/29/13 15:35	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131267	07/29/13 21:29	JME	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

**Client Sample ID: MW-312S**

Date Collected: 07/23/13 11:10

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-6**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 12:32	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:29	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 14:43	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:34	MDM	TAL BUF
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 11:55	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 21:55	LMH	TAL BUF
Total/NA	Analysis	300.0		1	130418	07/25/13 09:25	KRC	TAL BUF
Total/NA	Analysis	SM 2120B		4	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:41	KS	TAL BUF
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		5	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130466	07/24/13 15:33	KMF	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 14:52	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:46	KJ1	TAL BUF
Total/NA	Prep	351.2			130516	07/24/13 23:43	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:43	EGN	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-312S**

Date Collected: 07/23/13 11:10

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-6**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	130698	07/25/13 12:17	SAB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 12:51	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 10:54	KWJ	TAL BUF
Total/NA	Analysis	9060		1	131107	07/26/13 17:12	KRC	TAL BUF
Total/NA	Prep	9012A			131259	07/29/13 15:35	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131267	07/29/13 21:30	JME	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

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**Client Sample ID: MW-223S**

Date Collected: 07/23/13 15:50

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-7**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 12:55	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:31	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 14:46	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:36	MDM	TAL BUF
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 11:57	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 21:58	LMH	TAL BUF
Total/NA	Analysis	300.0		1	130418	07/25/13 09:35	KRC	TAL BUF
Total/NA	Analysis	SM 2120B		2	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:42	KS	TAL BUF
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		1	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130466	07/24/13 15:33	KMF	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 14:53	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:47	KJ1	TAL BUF
Total/NA	Prep	351.2			130516	07/24/13 23:43	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:43	EGN	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 12:18	SAB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 12:51	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 10:54	KWJ	TAL BUF
Total/NA	Analysis	9060		1	131107	07/26/13 17:40	KRC	TAL BUF
Total/NA	Prep	9012A			131259	07/29/13 15:35	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131267	07/29/13 21:31	JME	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-223S**

Date Collected: 07/23/13 15:50  
 Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-7**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

**Client Sample ID: MW-232S**

Date Collected: 07/23/13 14:45  
 Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-8**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 13:19	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:36	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 14:48	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:44	MDM	TAL BUF
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 12:00	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 22:00	LMH	TAL BUF
Total/NA	Analysis	300.0		1	130418	07/25/13 09:49	KRC	TAL BUF
Total/NA	Analysis	SM 2120B		4	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:43	KS	TAL BUF
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		1	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130466	07/24/13 15:33	KMF	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 14:54	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:49	KJ1	TAL BUF
Total/NA	Prep	351.2			130516	07/24/13 23:43	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130663	07/25/13 11:43	EGN	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 12:19	SAB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 12:44	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 10:54	KWJ	TAL BUF
Total/NA	Analysis	9060		1	131107	07/26/13 18:07	KRC	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF
Total/NA	Prep	9012A			131375	07/30/13 08:21	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	131482	07/30/13 15:55	KMF	TAL BUF

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-233S**

Date Collected: 07/23/13 12:10

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-9**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 13:42	TRB	TAL BUF
Total/NA	Prep	7470A			130535	07/25/13 07:10	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130676	07/25/13 12:38	JRK	TAL BUF
Dissolved	Prep	7470A			130537	07/25/13 07:30	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130764	07/25/13 14:49	JRK	TAL BUF
Dissolved	Prep	3005A			130498	07/25/13 08:30	SS1	TAL BUF
Dissolved	Analysis	6010B		1	130814	07/25/13 22:46	MDM	TAL BUF
Total/NA	Prep	3005A			130499	07/25/13 08:30	SS1	TAL BUF
Total/NA	Analysis	6010B		1	130952	07/26/13 12:02	AMH	TAL BUF
Total/NA	Prep	3005A			131608	07/31/13 11:10	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	131787	07/31/13 22:03	LMH	TAL BUF
Total/NA	Analysis	300.0		1	130418	07/25/13 09:59	KRC	TAL BUF
Total/NA	Analysis	SM 2120B		1	130446	07/24/13 14:00	RMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	130449	07/24/13 16:44	KS	TAL BUF
Total/NA	Analysis	180.1		1	130464	07/24/13 12:20	SAB	TAL BUF
Total/NA	Analysis	7196A		1	130465	07/24/13 10:05	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130466	07/24/13 15:33	KMF	TAL BUF
Total/NA	Analysis	353.2		1	130481	07/24/13 14:56	CLT	TAL BUF
Total/NA	Analysis	410.4		1	130624	07/25/13 09:50	KJ1	TAL BUF
Total/NA	Analysis	350.1		1	130698	07/25/13 12:24	SAB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 12:44	NCH	TAL BUF
Total/NA	Prep	Distill/Phenol			130512	07/24/13 20:20	JMB	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 11:02	KWJ	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130966	07/26/13 12:25	NCH	TAL BUF
Total/NA	Analysis	9060		1	131107	07/26/13 18:35	KRC	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF
Total/NA	Prep	9012A			131376	07/30/13 10:05	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	131482	07/30/13 16:10	KMF	TAL BUF



**Client Sample ID: Trip Blank**

Date Collected: 07/23/13 00:00

Date Received: 07/24/13 09:00

**Lab Sample ID: 480-42488-10**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 14:05	TRB	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-3B**

Date Collected: 07/24/13 15:05

Date Received: 07/25/13 09:00

**Lab Sample ID: 480-42572-1**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 19:33	TRB	TAL BUF
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 12:50	JRK	TAL BUF
Dissolved	Prep	7470A			130826	07/26/13 10:10	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130946	07/26/13 15:15	JRK	TAL BUF
Dissolved	Prep	3005A			130695	07/26/13 08:50	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131018	07/26/13 18:49	LMH	TAL BUF
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:20	LMH	TAL BUF
Total/NA	Analysis	7196A		1	130645	07/25/13 09:47	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130651	07/26/13 00:23	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 12:54	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		1	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 17:47	NCH	TAL BUF
Total/NA	Analysis	SM 5210B		1	130759	07/26/13 01:31	LMK	TAL BUF
Total/NA	Prep	9012A			130750	07/25/13 18:23	JMB	TAL BUF
Total/NA	Analysis	9012A		1	130937	07/26/13 13:54	KWJ	TAL BUF
Total/NA	Analysis	350.1		5	130960	07/26/13 15:48	KMF	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130966	07/26/13 12:25	NCH	TAL BUF
Total/NA	Analysis	410.4		1	131032	07/27/13 10:55	KMF	TAL BUF
Total/NA	Prep	Distill/Phenol			130920	07/26/13 10:30	KJ1	TAL BUF
Total/NA	Analysis	9066		1	131034	07/27/13 11:26	RMB	TAL BUF
Total/NA	Analysis	9060		1	131106	07/27/13 02:53	KRC	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

**Client Sample ID: MW-221S**

Date Collected: 07/24/13 09:30

Date Received: 07/25/13 09:00

**Lab Sample ID: 480-42572-2**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 19:56	TRB	TAL BUF
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 12:51	JRK	TAL BUF
Dissolved	Prep	7470A			130826	07/26/13 10:10	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130946	07/26/13 15:21	JRK	TAL BUF
Dissolved	Prep	3005A			130695	07/26/13 08:50	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131018	07/26/13 19:02	LMH	TAL BUF
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:23	LMH	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-221S**

**Lab Sample ID: 480-42572-2**

Date Collected: 07/24/13 09:30

Matrix: Ground Water

Date Received: 07/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	130645	07/25/13 09:47	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130651	07/26/13 00:36	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 12:49	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130706	07/25/13 10:22	KMF	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		1	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 18:44	NCH	TAL BUF
Total/NA	Prep	9012A			130750	07/25/13 18:23	JMB	TAL BUF
Total/NA	Analysis	9012A		1	130937	07/26/13 13:54	KWJ	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 13:49	KMF	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130966	07/26/13 12:13	NCH	TAL BUF
Total/NA	Analysis	410.4		1	131032	07/27/13 10:55	KMF	TAL BUF
Total/NA	Prep	Distill/Phenol			130920	07/26/13 10:30	KJ1	TAL BUF
Total/NA	Analysis	9066		1	131034	07/27/13 11:26	RMB	TAL BUF
Total/NA	Analysis	9060		1	131106	07/27/13 03:23	KRC	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

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**Client Sample ID: MW-223D**

**Lab Sample ID: 480-42572-3**

Date Collected: 07/24/13 08:00

Matrix: Ground Water

Date Received: 07/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 20:19	TRB	TAL BUF
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 12:56	JRK	TAL BUF
Dissolved	Prep	7470A			130826	07/26/13 10:10	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130946	07/26/13 15:22	JRK	TAL BUF
Dissolved	Prep	3005A			130695	07/26/13 08:50	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131018	07/26/13 19:04	LMH	TAL BUF
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:25	LMH	TAL BUF
Total/NA	Analysis	7196A		1	130645	07/25/13 09:47	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130651	07/26/13 00:49	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 12:01	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130706	07/25/13 10:22	KMF	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		1	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 18:46	NCH	TAL BUF

TestAmerica Buffalo



## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-223D**

Date Collected: 07/24/13 08:00

Date Received: 07/25/13 09:00

**Lab Sample ID: 480-42572-3**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			130750	07/25/13 18:23	JMB	TAL BUF
Total/NA	Analysis	9012A		1	130937	07/26/13 13:52	KWJ	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 13:50	KMF	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130966	07/26/13 12:13	NCH	TAL BUF
Total/NA	Analysis	410.4		1	131032	07/27/13 10:55	KMF	TAL BUF
Total/NA	Prep	Distill/Phenol			130920	07/26/13 10:30	KJ1	TAL BUF
Total/NA	Analysis	9066		1	131034	07/27/13 11:18	RMB	TAL BUF
Total/NA	Analysis	9060		1	131106	07/27/13 03:52	KRC	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

**Client Sample ID: MW-221D**

Date Collected: 07/24/13 13:45

Date Received: 07/25/13 09:00

**Lab Sample ID: 480-42572-4**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 20:43	TRB	TAL BUF
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 12:58	JRK	TAL BUF
Dissolved	Prep	7470A			130826	07/26/13 10:10	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130946	07/26/13 15:24	JRK	TAL BUF
Dissolved	Prep	3005A			130695	07/26/13 08:50	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131018	07/26/13 19:07	LMH	TAL BUF
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:28	LMH	TAL BUF
Total/NA	Analysis	7196A		1	130645	07/25/13 09:47	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130651	07/26/13 01:02	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 12:53	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130706	07/25/13 10:22	KMF	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		1	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 17:47	NCH	TAL BUF
Total/NA	Prep	9012A			130750	07/25/13 18:23	JMB	TAL BUF
Total/NA	Analysis	9012A		1	130937	07/26/13 13:50	KWJ	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 13:51	KMF	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130966	07/26/13 12:13	NCH	TAL BUF
Total/NA	Analysis	410.4		1	131032	07/27/13 10:55	KMF	TAL BUF
Total/NA	Prep	Distill/Phenol			130920	07/26/13 10:30	KJ1	TAL BUF
Total/NA	Analysis	9066		1	131034	07/27/13 11:18	RMB	TAL BUF
Total/NA	Analysis	9060		1	131106	07/27/13 04:22	KRC	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-221D

Date Collected: 07/24/13 13:45

Date Received: 07/25/13 09:00

### Lab Sample ID: 480-42572-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

### Client Sample ID: MW-245S

Date Collected: 07/24/13 13:40

Date Received: 07/25/13 09:00

### Lab Sample ID: 480-42572-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 21:06	TRB	TAL BUF
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 13:00	JRK	TAL BUF
Dissolved	Prep	7470A			130826	07/26/13 10:10	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130946	07/26/13 15:26	JRK	TAL BUF
Dissolved	Prep	3005A			130695	07/26/13 08:50	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131018	07/26/13 19:14	LMH	TAL BUF
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:30	LMH	TAL BUF
Total/NA	Analysis	7196A		1	130645	07/25/13 09:47	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130651	07/26/13 01:15	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 12:17	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		1	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 17:27	NCH	TAL BUF
Total/NA	Analysis	SM 5210B		1	130759	07/26/13 01:31	LMK	TAL BUF
Total/NA	Analysis	300.0		5	130882	07/26/13 18:18	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			130760	07/26/13 06:23	LMK	TAL BUF
Total/NA	Analysis	9066		1	130911	07/26/13 11:11	KWJ	TAL BUF
Total/NA	Prep	9012A			130750	07/25/13 18:23	JMB	TAL BUF
Total/NA	Analysis	9012A		1	130937	07/26/13 13:51	KWJ	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 13:52	KMF	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130966	07/26/13 12:13	NCH	TAL BUF
Total/NA	Analysis	410.4		1	131032	07/27/13 10:55	KMF	TAL BUF
Total/NA	Analysis	9060		1	131106	07/27/13 04:51	KRC	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

### Client Sample ID: MW-222

Date Collected: 07/24/13 14:20

Date Received: 07/25/13 09:00

### Lab Sample ID: 480-42572-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 21:53	TRB	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-222**

**Lab Sample ID: 480-42572-7**

Date Collected: 07/24/13 14:20

Matrix: Ground Water

Date Received: 07/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 13:03	JRK	TAL BUF
Dissolved	Prep	7470A			130826	07/26/13 10:10	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130946	07/26/13 15:27	JRK	TAL BUF
Dissolved	Prep	3005A			130695	07/26/13 08:50	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131018	07/26/13 19:17	LMH	TAL BUF
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:35	LMH	TAL BUF
Total/NA	Analysis	7196A		1	130645	07/25/13 09:47	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130652	07/26/13 03:01	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 12:25	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		1	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 18:44	NCH	TAL BUF
Total/NA	Analysis	SM 5210B		1	130759	07/26/13 01:31	LMK	TAL BUF
Total/NA	Analysis	350.1		10	130960	07/26/13 16:35	KMF	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		5	130966	07/26/13 15:00	NCH	TAL BUF
Total/NA	Analysis	410.4		1	131032	07/27/13 10:55	KMF	TAL BUF
Total/NA	Prep	Distill/Phenol			130920	07/26/13 10:30	KJ1	TAL BUF
Total/NA	Analysis	9066		1	131034	07/27/13 11:18	RMB	TAL BUF
Total/NA	Analysis	9060		1	131106	07/27/13 07:48	KRC	TAL BUF
Total/NA	Prep	9012A			131292	07/29/13 23:22	LMK	TAL BUF
Total/NA	Analysis	9012A		1	131414	07/30/13 11:45	KMF	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF

**Client Sample ID: MW-220**

**Lab Sample ID: 480-42572-8**

Date Collected: 07/24/13 10:30

Matrix: Ground Water

Date Received: 07/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 22:16	TRB	TAL BUF
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 13:06	JRK	TAL BUF
Dissolved	Prep	7470A			130826	07/26/13 10:10	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130946	07/26/13 15:29	JRK	TAL BUF
Dissolved	Prep	3005A			130695	07/26/13 08:50	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131018	07/26/13 19:20	LMH	TAL BUF
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:38	LMH	TAL BUF
Total/NA	Analysis	7196A		1	130645	07/25/13 09:47	KMF	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: MW-220**

Date Collected: 07/24/13 10:30

Date Received: 07/25/13 09:00

**Lab Sample ID: 480-42572-8**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	130652	07/26/13 03:14	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 12:09	CLT	TAL BUF
Total/NA	Analysis	SM 5210B		1	130706	07/25/13 10:22	KMF	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		1	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 17:40	NCH	TAL BUF
Total/NA	Analysis	300.0		5	130882	07/26/13 18:38	KRC	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 15:51	KMF	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		1	130966	07/26/13 12:25	NCH	TAL BUF
Total/NA	Analysis	410.4		1	131032	07/27/13 10:55	KMF	TAL BUF
Total/NA	Prep	Distill/Phenol			130920	07/26/13 10:30	KJ1	TAL BUF
Total/NA	Analysis	9066		1	131034	07/27/13 11:18	RMB	TAL BUF
Total/NA	Analysis	9060		1	131106	07/27/13 08:18	KRC	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF
Total/NA	Prep	9012A			131376	07/30/13 10:05	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	131482	07/30/13 16:00	KMF	TAL BUF



**Client Sample ID: MW-245D**

Date Collected: 07/24/13 15:55

Date Received: 07/25/13 09:00

**Lab Sample ID: 480-42572-9**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 22:39	TRB	TAL BUF
Total/NA	Prep	7470A			130790	07/26/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	130930	07/26/13 13:07	JRK	TAL BUF
Dissolved	Prep	7470A			130826	07/26/13 10:10	JRK	TAL BUF
Dissolved	Analysis	7470A		1	130946	07/26/13 15:31	JRK	TAL BUF
Dissolved	Prep	3005A			130695	07/26/13 08:50	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131018	07/26/13 19:22	LMH	TAL BUF
Total/NA	Prep	3005A			130733	07/26/13 08:50	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131020	07/26/13 21:45	LMH	TAL BUF
Total/NA	Analysis	7196A		1	130645	07/25/13 09:47	KMF	TAL BUF
Total/NA	Analysis	300.0		1	130652	07/26/13 03:27	KRC	TAL BUF
Total/NA	Analysis	353.2		1	130679	07/25/13 13:01	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130712	07/25/13 12:00	MDL	TAL BUF
Total/NA	Analysis	SM 2120B		1	130715	07/25/13 12:25	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	130728	07/25/13 18:20	JMB	TAL BUF
Total/NA	Analysis	310.2		10	130741	07/25/13 18:46	NCH	TAL BUF
Total/NA	Analysis	300.0		5	130882	07/26/13 18:43	KRC	TAL BUF

TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: MW-245D

Date Collected: 07/24/13 15:55

Date Received: 07/25/13 09:00

### Lab Sample ID: 480-42572-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		5	130960	07/26/13 15:52	KMF	TAL BUF
Total/NA	Prep	351.2			130762	07/26/13 06:33	LMK	TAL BUF
Total/NA	Analysis	351.2		2	130966	07/26/13 14:34	NCH	TAL BUF
Total/NA	Analysis	410.4		1	131032	07/27/13 10:55	KMF	TAL BUF
Total/NA	Analysis	9060		1	131106	07/27/13 08:47	KRC	TAL BUF
Total/NA	Prep	Distill/Phenol			131048	07/27/13 09:30	KJ1	TAL BUF
Total/NA	Analysis	9066		1	131181	07/29/13 12:21	RMB	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF
Total/NA	Prep	9012A			131376	07/30/13 10:05	KWJ	TAL BUF
Total/NA	Analysis	9012A		1	131482	07/30/13 16:01	KMF	TAL BUF

### Client Sample ID: Trip Blank

Date Collected: 07/24/13 00:00

Date Received: 07/25/13 09:00

### Lab Sample ID: 480-42572-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130518	07/25/13 23:03	TRB	TAL BUF

### Client Sample ID: PZ-11

Date Collected: 07/25/13 10:15

Date Received: 07/26/13 08:45

### Lab Sample ID: 480-42659-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130852	07/26/13 19:10	TRB	TAL BUF
Total/NA	Prep	7470A			131111	07/29/13 08:40	JRK	TAL BUF
Total/NA	Analysis	7470A		1	131224	07/29/13 12:47	JRK	TAL BUF
Dissolved	Prep	7470A			131128	07/29/13 08:50	JRK	TAL BUF
Dissolved	Analysis	7470A		1	131231	07/29/13 14:27	JRK	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131310	07/30/13 01:38	AMH	TAL BUF
Dissolved	Prep	3005A			131070	07/29/13 08:15	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131320	07/29/13 23:25	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130872	07/26/13 10:44	EGN	TAL BUF
Total/NA	Analysis	300.0		1	130894	07/27/13 14:13	KAC	TAL BUF
Total/NA	Analysis	353.2		1	130932	07/26/13 13:39	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130939	07/26/13 14:50	EGN	TAL BUF
Total/NA	Analysis	SM 2120B		2	130957	07/26/13 15:43	KS	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 16:39	KMF	TAL BUF
Total/NA	Analysis	310.2		10	130980	07/26/13 17:46	RMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130993	07/26/13 18:53	KS	TAL BUF
Total/NA	Analysis	SM 2540C		1	131252	07/29/13 23:01	KS	TAL BUF
Total/NA	Analysis	410.4		1	131386	07/30/13 10:23	SAB	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: PZ-11**

Date Collected: 07/25/13 10:15

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42659-1**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			131174	07/29/13 09:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	131412	07/30/13 11:24	RMB	TAL BUF
Total/NA	Prep	351.2			131281	07/30/13 01:30	LMK	TAL BUF
Total/NA	Analysis	351.2		1	131418	07/30/13 10:56	EGN	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF
Total/NA	Analysis	9060		1	131580	07/29/13 22:15	KRC	TAL BUF
Total/NA	Prep	9012A			131727	07/31/13 17:17	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131861	08/01/13 11:12	KMF	TAL BUF

**Client Sample ID: PZ-1A**

Date Collected: 07/25/13 09:00

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42659-2**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	130852	07/26/13 19:34	TRB	TAL BUF
Total/NA	Prep	7470A			131111	07/29/13 08:40	JRK	TAL BUF
Total/NA	Analysis	7470A		1	131224	07/29/13 12:49	JRK	TAL BUF
Dissolved	Prep	7470A			131128	07/29/13 08:50	JRK	TAL BUF
Dissolved	Analysis	7470A		1	131231	07/29/13 14:33	JRK	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131310	07/30/13 01:46	AMH	TAL BUF
Dissolved	Prep	3005A			131070	07/29/13 08:15	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131320	07/29/13 23:29	AMH	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131452	07/30/13 10:50	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130872	07/26/13 10:44	EGN	TAL BUF
Total/NA	Analysis	300.0		1	130894	07/27/13 14:23	KAC	TAL BUF
Total/NA	Analysis	353.2		1	130932	07/26/13 13:42	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130939	07/26/13 14:50	EGN	TAL BUF
Total/NA	Analysis	SM 2120B		1	130957	07/26/13 15:44	KS	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 16:40	KMF	TAL BUF
Total/NA	Analysis	310.2		10	130980	07/26/13 17:46	RMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130993	07/26/13 18:53	KS	TAL BUF
Total/NA	Analysis	410.4		1	131184	07/29/13 11:36	CLT	TAL BUF
Total/NA	Analysis	300.0		5	131185	07/29/13 22:02	KRC	TAL BUF
Total/NA	Analysis	SM 2540C		1	131252	07/29/13 23:02	KS	TAL BUF
Total/NA	Prep	Distill/Phenol			131174	07/29/13 09:00	CLT	TAL BUF
Total/NA	Analysis	9066		1	131412	07/30/13 11:24	RMB	TAL BUF
Total/NA	Prep	351.2			131281	07/30/13 01:30	LMK	TAL BUF
Total/NA	Analysis	351.2		1	131418	07/30/13 10:56	EGN	TAL BUF
Total/NA	Analysis	SM 2340C		1	131471	07/30/13 07:45	MDL	TAL BUF
Total/NA	Analysis	9060		1	131580	07/29/13 22:44	KRC	TAL BUF

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TestAmerica Buffalo

## Lab Chronicle

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Client Sample ID: PZ-1A

Date Collected: 07/25/13 09:00

Date Received: 07/26/13 08:45

### Lab Sample ID: 480-42659-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			131727	07/31/13 17:17	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131861	08/01/13 11:13	KMF	TAL BUF

### Client Sample ID: MW-245D

Date Collected: 07/25/13 06:45

Date Received: 07/26/13 08:45

### Lab Sample ID: 480-42659-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	130993	07/26/13 18:53	KS	TAL BUF

### Client Sample ID: PZ-4

Date Collected: 07/25/13 08:00

Date Received: 07/26/13 08:45

### Lab Sample ID: 480-42659-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	131135	07/29/13 13:39	TRB	TAL BUF
Total/NA	Prep	7470A			131111	07/29/13 08:40	JRK	TAL BUF
Total/NA	Analysis	7470A		1	131224	07/29/13 12:54	JRK	TAL BUF
Dissolved	Prep	7470A			131128	07/29/13 08:50	JRK	TAL BUF
Dissolved	Analysis	7470A		1	131231	07/29/13 14:35	JRK	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131310	07/30/13 01:48	AMH	TAL BUF
Dissolved	Prep	3005A			131070	07/29/13 08:15	SS1	TAL BUF
Dissolved	Analysis	6010B		1	131320	07/29/13 23:33	AMH	TAL BUF
Total/NA	Prep	3005A			131069	07/29/13 08:15	SS1	TAL BUF
Total/NA	Analysis	6010B		1	131452	07/30/13 10:52	AMH	TAL BUF
Total/NA	Analysis	7196A		1	130872	07/26/13 10:44	EGN	TAL BUF
Total/NA	Analysis	300.0		1	130894	07/27/13 14:33	KAC	TAL BUF
Total/NA	Analysis	353.2		1	130932	07/26/13 13:45	CLT	TAL BUF
Total/NA	Analysis	180.1		1	130939	07/26/13 14:50	EGN	TAL BUF
Total/NA	Analysis	SM 2120B		1	130957	07/26/13 15:49	KS	TAL BUF
Total/NA	Analysis	350.1		1	130960	07/26/13 16:41	KMF	TAL BUF
Total/NA	Analysis	310.2		10	130980	07/26/13 17:46	RMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	130993	07/26/13 18:53	KS	TAL BUF
Total/NA	Analysis	410.4		1	131184	07/29/13 11:36	CLT	TAL BUF
Total/NA	Analysis	300.0		2	131185	07/29/13 22:12	KRC	TAL BUF
Total/NA	Analysis	SM 2540C		1	131252	07/29/13 23:04	KS	TAL BUF
Total/NA	Prep	Distill/Phenol			131246	07/29/13 15:57	JMB	TAL BUF
Total/NA	Analysis	9066		1	131412	07/30/13 11:50	RMB	TAL BUF
Total/NA	Prep	351.2			131281	07/30/13 01:30	LMK	TAL BUF
Total/NA	Analysis	351.2		1	131418	07/30/13 10:56	EGN	TAL BUF
Total/NA	Analysis	SM 2340C		1	131523	07/30/13 20:15	JME	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

**Client Sample ID: PZ-4**

Date Collected: 07/25/13 08:00

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42659-4**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060		1	131580	07/29/13 23:14	KRC	TAL BUF
Total/NA	Prep	9012A			131727	07/31/13 17:17	JMB	TAL BUF
Total/NA	Analysis	9012A		1	131861	08/01/13 11:11	KMF	TAL BUF

**Client Sample ID: Trip Blank**

Date Collected: 07/25/13 00:00

Date Received: 07/26/13 08:45

**Lab Sample ID: 480-42659-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	131135	07/29/13 14:02	TRB	TAL BUF



**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



## Certification Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	04-01-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Ground Water	1,1,1-Trichloroethane
624		Ground Water	1,1,2,2-Tetrachloroethane
624		Ground Water	1,1,2-Trichloroethane
624		Ground Water	1,1-Dichloroethane
624		Ground Water	1,1-Dichloroethene
624		Ground Water	1,2-Dichlorobenzene
624		Ground Water	1,2-Dichloroethane
624		Ground Water	1,2-Dichloropropane
624		Ground Water	1,3-Dichlorobenzene
624		Ground Water	1,4-Dichlorobenzene
624		Ground Water	2-Chloroethyl vinyl ether
624		Ground Water	Benzene
624		Ground Water	Bromodichloromethane
624		Ground Water	Bromoform
624		Ground Water	Bromomethane
624		Ground Water	Carbon tetrachloride
624		Ground Water	Chlorobenzene
624		Ground Water	Chloroethane
624		Ground Water	Chloroform
624		Ground Water	Chloromethane
624		Ground Water	cis-1,2-Dichloroethene
624		Ground Water	cis-1,3-Dichloropropene
624		Ground Water	Dibromochloromethane
624		Ground Water	Dichlorodifluoromethane
624		Ground Water	Ethylbenzene
624		Ground Water	Methylene Chloride
624		Ground Water	m-Xylene & p-Xylene
624		Ground Water	o-Xylene
624		Ground Water	Tetrachloroethene
624		Ground Water	Toluene
624		Ground Water	trans-1,2-Dichloroethene
624		Ground Water	trans-1,3-Dichloropropene
624		Ground Water	Trichloroethene
624		Ground Water	Trichlorofluoromethane
624		Ground Water	Vinyl chloride
624		Ground Water	Xylenes, Total
624		Water	1,1,1-Trichloroethane
624		Water	1,1,2,2-Tetrachloroethane
624		Water	1,1,2-Trichloroethane
624		Water	1,1-Dichloroethane
624		Water	1,1-Dichloroethene
624		Water	1,2-Dichlorobenzene
624		Water	1,2-Dichloroethane
624		Water	1,2-Dichloropropane
624		Water	1,3-Dichlorobenzene
624		Water	1,4-Dichlorobenzene

TestAmerica Buffalo

## Certification Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

### Laboratory: TestAmerica Buffalo (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	04-01-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Water	2-Chloroethyl vinyl ether
624		Water	Benzene
624		Water	Bromodichloromethane
624		Water	Bromoform
624		Water	Bromomethane
624		Water	Carbon tetrachloride
624		Water	Chlorobenzene
624		Water	Chloroethane
624		Water	Chloroform
624		Water	Chloromethane
624		Water	cis-1,2-Dichloroethene
624		Water	cis-1,3-Dichloropropene
624		Water	Dibromochloromethane
624		Water	Dichlorodifluoromethane
624		Water	Ethylbenzene
624		Water	Methylene Chloride
624		Water	m-Xylene & p-Xylene
624		Water	o-Xylene
624		Water	Tetrachloroethene
624		Water	Toluene
624		Water	trans-1,2-Dichloroethene
624		Water	trans-1,3-Dichloropropene
624		Water	Trichloroethene
624		Water	Trichlorofluoromethane
624		Water	Vinyl chloride
624		Water	Xylenes, Total
9012A	9012A	Ground Water	Cyanide, Total
9012A	9012A	Water	Cyanide, Total

## Method Summary

Client: Sterling Environmental Engineering PC  
Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
180.1	Turbidity, Nephelometric	MCAWW	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9012A	Cyanide, Total and/or Amenable	SW846	TAL BUF
9060	Organic Carbon, Total (TOC)	SW846	TAL BUF
9066	Phenolics, Total Recoverable	SW846	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2340C	Hardness, Total	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF

### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

## Sample Summary

Client: Sterling Environmental Engineering PC  
 Project/Site: Orange County Landfill

TestAmerica Job ID: 480-42430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42430-1	MW-304S	Ground Water	07/22/13 12:30	07/23/13 09:00
480-42430-2	MW-304VS	Ground Water	07/22/13 12:55	07/23/13 09:00
480-42430-3	MW-304D	Ground Water	07/22/13 11:30	07/23/13 09:00
480-42430-4	MW-303S	Ground Water	07/22/13 13:45	07/23/13 09:00
480-42430-5	Trip Blank	Water	07/22/13 00:00	07/23/13 09:00
480-42488-1	MS-207SA	Ground Water	07/23/13 08:50	07/24/13 09:00
480-42488-2	MW-234D	Ground Water	07/23/13 13:30	07/24/13 09:00
480-42488-3	MW-207D	Ground Water	07/23/13 08:20	07/24/13 09:00
480-42488-4	MW-303D	Ground Water	07/23/13 07:30	07/24/13 09:00
480-42488-5	MW-230S	Ground Water	07/23/13 09:30	07/24/13 09:00
480-42488-6	MW-312S	Ground Water	07/23/13 11:10	07/24/13 09:00
480-42488-7	MW-223S	Ground Water	07/23/13 15:50	07/24/13 09:00
480-42488-8	MW-232S	Ground Water	07/23/13 14:45	07/24/13 09:00
480-42488-9	MW-233S	Ground Water	07/23/13 12:10	07/24/13 09:00
480-42488-10	Trip Blank	Water	07/23/13 00:00	07/24/13 09:00
480-42572-1	MW-3B	Ground Water	07/24/13 15:05	07/25/13 09:00
480-42572-2	MW-221S	Ground Water	07/24/13 09:30	07/25/13 09:00
480-42572-3	MW-223D	Ground Water	07/24/13 08:00	07/25/13 09:00
480-42572-4	MW-221D	Ground Water	07/24/13 13:45	07/25/13 09:00
480-42572-5	MW-245S	Ground Water	07/24/13 13:40	07/25/13 09:00
480-42572-7	MW-222	Ground Water	07/24/13 14:20	07/25/13 09:00
480-42572-8	MW-220	Ground Water	07/24/13 10:30	07/25/13 09:00
480-42572-9	MW-245D	Ground Water	07/24/13 15:55	07/25/13 09:00
480-42572-10	Trip Blank	Water	07/24/13 00:00	07/25/13 09:00
480-42659-1	PZ-11	Ground Water	07/25/13 10:15	07/26/13 08:45
480-42659-2	PZ-1A	Ground Water	07/25/13 09:00	07/26/13 08:45
480-42659-3	MW-245D	Ground Water	07/25/13 06:45	07/26/13 08:45
480-42659-4	PZ-4	Ground Water	07/25/13 08:00	07/26/13 08:45
480-42659-5	Trip Blank	Water	07/25/13 00:00	07/26/13 08:45

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**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>STERLING ENV. ENG. P.C.</b>		Project Manager <b>M. Millspaugh</b>		Date <b>7/23/13</b>	Chain of Custody Number <b>227886</b>
Address <b>24 Wade Road</b>		Telephone Number (Area Code)/Fax Number <b>518 456 4900</b>		Lab Number	Page <b>3</b> of <b>3</b>

City <b>Latham</b>	State <b>NY</b>	Zip Code <b>12110</b>	Site Contact <b>C. Verhoef</b>	Lab Contact <b>L. Shaffer</b>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <b>Orange C.</b>			Carrier/Waybill Number		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives							Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH				
MW-303D	7/23/13	730		X												EDD Tables
MW-303S	↓	930		↓												
MW-312S	↓	1110		↓												

NYCRR Part 360 Baseline Parameters (SSTs) Spec. of metals

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab  Archive For **1** Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>STD TAT</b>		QC Requirements (Specify)	
1. Relinquished By <b>C. Verhoef</b>	Date <b>7/23/13</b>	Time <b>16:50</b>	1. Received By <b>[Signature]</b>
2. Relinquished By	Date	Time	2. Received By
3. Relinquished By	Date	Time	3. Received By

Comments: **3.1, 2.8, 2.7 # 2**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy





**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>STERLING ENV. ENG. P.C.</b>		Project Manager <b>M. Millsbaugh</b>		Date <b>7/24/2013</b>	Chain of Custody Number <b>227899</b>
Address <b>24 Wade Road</b>		Telephone Number (Area Code)/Fax Number <b>518 456 4900</b>		Lab Number	
City <b>Latham</b>	State <b>NY</b>	Zip Code <b>12110</b>	Site Contact <b>C. Verhoef</b>	Lab Contact <b>Lisa Shaffer</b>	

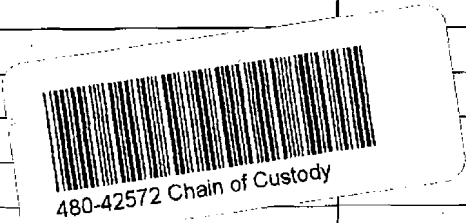
Page **7** of **3**

Project Name and Location (State) <b>Orange Co</b>		Carrier/Waybill Number		Analysis (Attach list if more space is needed)	
Contract/Purchase Order/Quote No. <b>2010-15</b>		Matrix		Containers & Preservatives	

Special Instructions/  
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2/NaOH			
MW-3B	7/24/13	1505		X											EPD Tables
MW-2215	↓	930		↓											
MW-223D	↓	800		↓											

NY RR PA  
 300 Base Line  
 Puma Falls  
 Disposed metal



Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <b>1</b> Months	

Turn Around Time Required	QC Requirements (Specify)
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>STD TAT</b>	
1. Relinquished By <b>M. Verhoef</b>	1. Received By <b>[Signature]</b>
Date <b>7/24/13</b>	Date <b>7-25-13</b>
Time <b>16:50</b>	Time <b>0900</b>
2. Relinquished By	2. Received By
Date	Date
Time	Time
3. Relinquished By	3. Received By
Date	Date
Time	Time

Comments

**3.2, 3.9, 3.1 #1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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8/7/2013

**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>STERLING ENV. ENG. P.C.</b>	Project Manager <b>Mo Millspaugh</b>	Date <b>7/24/13</b>	Chain of Custody Number <b>227898</b>
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Address <b>24 Wade Road</b>	Telephone Number (Area Code)/Fax Number <b>518 456-4900</b>	Lab Number	Page <b>2</b> of <b>3</b>
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City <b>Lathrop</b>	State <b>NY</b>	Zip Code <b>12110</b>	Site Contact <b>C. Verhoef</b>	Lab Contact <b>Lisa Shaffer</b>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <b>Orange Co.</b>			Carrier/Waybill Number		

Contract/Purchase Order/Quote No. <b>2010-15</b>	Matrix	Containers & Preservatives	Special Instructions/ Conditions of Receipt
---	--------	----------------------------	---

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Analysis	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	H2O2	ZnAc/NaOH			
MW-221D	7/24/13	1345	X												FAP Tables
MW-245S	↓	1340													
MH-7	↓	1530			X										
Trip Blanks					X										

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <b>1</b> Months	(A fee may be assessed if samples are retained longer than 1 month)
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Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>STD TAP</b>	QC Requirements (Specify)
---	---------------------------

1. Relinquished By <b>C. Verhoef</b>	Date <b>7/24/13</b>	Time <b>16:50</b>	1. Received By <b>[Signature]</b>	Date <b>7-25-13</b>	Time <b>0900</b>
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

3.7, 3.8, 3.1 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>STERLING ENV. ENG. PC</b>	Project Manager <b>M. Millspaugh</b>	Date <b>7/24/13</b>	Chain of Custody Number <b>227900</b>
Address <b>24 Wade Road</b>	Telephone Number (Area Code)/Fax Number <b>518 456-4900</b>	Lab Number	Page <b>3</b> of <b>3</b>

City <b>Latham</b>	State <b>NY</b>	Zip Code <b>12110</b>	Site Contact <b>C. Verhoef</b>	Lab Contact <b>Lisa Shaffer</b>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <b>Orange Co.</b>			Carrier/Waybill Number		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives						Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2/NaOH			
MW-222	7/24/13	14:20		X				102	321						# missing 1 liter BOD jar - will sample on 7/25/13.  EDD Tables
MW-220	↓	10:30						102	321						
MW-245 D *	↓	15:55						92	321						

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab  Archive For **7** Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other **STAT**

QC Requirements (Specify)

1. Relinquished By <b>C. Verhoef</b>	Date <b>7/24/13</b>	Time <b>16:50</b>	1. Received By <b>[Signature]</b>	Date <b>7-25-13</b>	Time <b>0900</b>
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: **3.7, 3.9, 2.1 # 1**



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8/7/2013





## Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-42430-1

Login Number: 42430  
 List Number: 1  
 Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Sterling
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	Ok

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## Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-42430-1

**Login Number: 42488**  
**List Number: 1**  
**Creator: Janish, Carl M**

**List Source: TestAmerica Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Sterling
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	Ok

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## Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-42430-1

Login Number: 42572

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Sterling
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	Ok

## Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-42430-1

**Login Number: 42659**  
**List Number: 1**  
**Creator: Janish, Carl M**

**List Source: TestAmerica Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Sterling
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	Ok

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APPENDIX B

GROUNDWATER SAMPLING FIELD LOGS

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**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-245 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 24, 2013

Well Depth: 47 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 8 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 31.4 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Grey, some visible sediment

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
13:00	2	31.40	7.27	13.84	1.027	-41.5	368
13:02	4	31.40	7.32	13.32	1.096	-38.6	261
13:07	6	31.35	7.27	12.94	1.119	-35.4	166
13:14	8	31.40	7.24	12.93	1.125	-33.4	119
13:16	10	31.39	7.29	13.19	1.125	-37.1	132

### Well Development Table

Project No.: 2010-15  
 Well No.: MW-245 D

Site: Orange County Landfill, Goshen, New York  
 Date: July 24, 2013

Well Depth: 84 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 25 gallons but purged dry at 8 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 36.45 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Clear light sediment.

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
12:27	2	46.75	7.14	13.46	0.887	-89.9	35.8
12:37	4	57.11	7.45	13.13	0.934	-106.3	21.0
12:44	6	67.79	7.50	12.94	0.938	-96.3	32.6
12:49	8	76.55	7.52	12.91	0.943	-100.0	33.0

### Well Development Table

Project No.: 2010-15  
Well No.: MW-220

Site: Orange County Landfill, Goshen, New York  
Date: July 24, 2013

Well Depth: 30 feet  
Well Diameter: 2 inches

Total Estimated  
Volume to be Purged: 5 gallons  
Initial PID (ppm): 0.0

Static Water Level: 19.5 feet from top of casing (TOC)  
Sampling Device: Bailer

Explosive Gas (LEL %): 0  
Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Murky with heavy red sediment

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
10:06	1	19.50	7.20	13.26	1.105	-1.0	144
10:09	2	19.50	7.27	13.09	1.128	2.7	102
10:13	3	19.45	7.32	13.13	1.142	0.1	65.1
10:15	4	19.45	7.31	12.92	1.151	-7.0	51.4
10:17	5	19.45	7.32	12.86	1.144	0.8	61.3

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-222

Site: Orange County Landfill, Goshen, New York  
 Date: July 24, 2013

Well Depth: 32 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 7 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 17.26 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Cloudy

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
14:00	2	17.30	7.46	14.18	1.452	-81.0	36.2
14:02	4	17.30	7.51	13.05	1.442	-81.7	47.1
14:08	6	17.30	7.45	13.11	1.463	-72.4	34.1

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-221 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 24, 2013

Well Depth: 25 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 5 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 14.85 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Cloudy: grey

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
9:13	1	15.10	6.50	14.61	1.022	31.8	121
9:15	2	15.10	6.49	14.50	1.077	32.0	153
9:16	3	15.20	6.36	13.75	1.148	36.7	123
9:18	4	15.20	6.81	13.91	1.155	26.0	128
9:20	5	15.15	6.95	13.98	1.152	23.3	139



**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-221 D

Site: Orange County Landfill, Goshen, New York  
 Date: July 24, 2013

Well Depth: 54 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 20 gallons, but purged dry at 11 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 14.5 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Clear, no sediment

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
8:50	2.5	26.75	7.21	12.94	0.493	-16.2	8.02
8:53	5	35.30	6.92	13.13	0.487	-14.7	12.9
8:59	7.5	44.85	6.98	12.96	0.491	-19.8	11.7
9:04	9.5	49.53	7.06	13.05	0.485	-36.2	9.85

### Well Development Table

Project No.: 2010-15  
Well No.: MW-304 VS

Site: Orange County Landfill, Goshen, New York  
Date: July 22, 2013

Well Depth: 10.16 feet  
Well Diameter: 2 inches

Total Estimated  
Volume to be Purged: 1.3 gallons, purged dry at 1 gallon  
Initial PID (ppm): 0.0

Static Water Level: 7.61 feet from top of casing (TOC)  
Sampling Device: Bailer

Explosive Gas (LEL %): 0  
Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Turbid, heavy sediment.

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
10:05	0.5	8.20	7.07	17.02	1.884	-44.9	209

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-304 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 22, 2012

Well Depth: 32.59 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 3.9 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 24.85 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Turbid, heavy sediment

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
12:00	1.5	24.85	7.24	13.44	0.780	-68.7	117
12:05	3	24.85	7.22	12.96	0.775	-70.0	157

### Well Development Table

Project No.: 2010-15  
 Well No.: MW-304 D

Site: Orange County Landfill, Goshen, New York  
 Date: July 22, 2013

Well Depth: 62.32 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 18.8 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 25.72 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Fairly clear

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
10:35	1.5	29.11	7.43	12.92	0.612	11.2	19.0
10:45	5	41.3	7.43	13.09	0.585	9.8	18.9
11:00	7.5	45.2	7.14	13.11	0.730	-28.8	12.1
11:05	10	48.8	7.12	12.62	0.766	-43.1	23.2
11:10	12.5	52.0	7.11	14.03	0.729	-49.3	5.38
11:20	15	53.9	6.97	12.60	0.849	-45.6	10.39

**Well Development Table**

Project: 2010-15  
 Well No.: MW-207 SA

Site: Orange County Landfill, Goshen, New York  
 Date: July 23, 2013

Well Depth: 25 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 4 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 16.74 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Very turbid

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
8:32	1	16.71	6.70	12.88	0.854	-81.9	42.2
8:36	2	16.72	6.58	12.56	0.849	-76.3	45.5
8:40	3	16.72	6.60	12.45	0.846	-75.1	32.2
8:43	4	16.70	6.59	12.78	0.863	-70.2	31.1

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-207 D

Site: Orange County Landfill, Goshen, New York  
 Date: July 23, 2013

Well Depth: 59 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 20.5 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 17.91 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Brownish color

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
8:00	5	17.91	6.81	12.97	0.758	-56.7	53.9
8:05	10	17.91	6.73	12.42	0.734	-46.8	54.5
8:10	15	17.91	6.73	12.35	0.730	-47.5	48.8
8:15	20	17.91	6.74	12.01	0.739	-40.2	38.2

### Well Development Table

Project No.: 2010-15  
 Well No.: MW-312 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 23, 2013

Well Depth: 26.25 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 5.35 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 15.55 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Heavy sediment with grey color

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
10:55	1	15.55	7.27	14.76	0.433	1.6	589
10:58	2	15.60	7.35	14.26	0.430	2.8	781
11:00	3	15.60	7.38	14.07	0.427	1.7	681
11:02	4	15.55	7.44	14.15	0.425	-1.9	681
11:04	5	15.65	7.42	13.98	0.426	-3.0	593

### Well Development Table

Project No.: 2010-15  
 Well No.: MW-234 D

Site: Orange County Landfill, Goshen, New York  
 Date: July 23, 2013

Well Depth: 86 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 34.5 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 17.20 feet from top of casing (TOC)  
 Sampling Device: 2-Stage Pump

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Fairly clear

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
12:55	10	17.19	7.62	14.86	0.638	119.3	9.36
13:03	20	17.10	7.48	13.61	0.657	-91.1	3.15
13:15	30	17.10	7.42	13.10	0.658	-70.0	2.17
13:17	35	17.20	7.35	13.50	0.656	-62.3	1.42



### Well Development Table

Project No.: 2010-15  
 Well No.: MW-233 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 23, 2013

Well Depth: 19 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 4.15 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 10.7 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Fairly clear

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
11:52	1	10.81	7.07	12.64	0.819	24.0	16.4
11:56	2	10.81	7.08	11.75	0.814	25.7	6.88
11:58	3	10.81	7.15	11.75	0.790	17.3	2.94
12:00	4	10.81	7.19	11.75	0.785	18.0	2.89

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-232 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 23, 2013

Well Depth: 25.5 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 6.5 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 12.18 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Fairly clear

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
14:15	1.5	12.70	7.21	16.36	0.602	-113.3	16.9
14:18	3	12.66	7.17	13.02	0.640	-102.5	16.8
14:21	4.5	12.72	7.23	12.28	0.629	-97.3	11.0
14:25	6	12.48	7.34	12.20	0.616	-93.1	10.41

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-230 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 23, 2013

Well Depth: 68.6 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 28.5 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 11.28 feet from top of casing (TOC)  
 Sampling Device: 2-Stage pump

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Very turbid with gray color

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
9:30	5	12.15	7.15	13.12	0.476	-104.4	106.5
9:33	10	12.35	7.00	12.51	0.516	-64.8	309
9:38	15	12.50	7.28	12.07	0.528	-58.9	125
9:43	20	12.45	7.39	12.05	0.531	-56.3	56.2
9:48	25	12.45	7.38	12.02	0.533	-53.9	39.9
9:51	28.5	12.55	7.40	12.04	0.535	-50.9	36.7

### Well Development Table

Project No.: 2010-15  
 Well No.: PZ-11

Site: Orange County Landfill, Goshen, New York  
 Date: July 25, 2013

Well Depth: 30 feet  
 Well Diameter: 1 ¼ inches

Total Estimated  
 Volume to be Purged: 3.3 gallons  
 Initial PID (ppm): 0.1

Static Water Level: 17.2 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Fairly clear, sediment

Time	Gallon Number	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
10:08	1	17.2	7.37	13.32	1.032	-97.5	15.3
10:11	2	17.2	7.27	12.41	1.033	-87.2	8.37
10:15	3	17.2	7.14	12.32	1.032	-84.1	9.37

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-223 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 23, 2013

Well Depth: 66.2 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 25 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 16.2 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Murky

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
15:25	10	16.15	7.12	12.18	0.657	-92.2	46.6
15:30	15	16.10	7.18	12.32	0.655	-92.2	57.3
15:35	20	16.20	6.98	12.62	0.839	-82.3	56.55
15:40	25	16.30	7.01	12.57	0.848	-75.9	52.0

**Well Development Table**

Project: 2010-15  
 Well No.: MW-223 D

Site: Orange County Landfill, Goshen, New York  
 Date: July 24, 2013

Well Depth: 88.5 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 36 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 16.7 feet from top of PVC casing  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Fairly clear.

Time	Gallon	Depth to Water (To nearest 0.01 foot)	pH (10%)	Temp. (10%)	SC (10%)	Eh (10%)	Turbidity (10%)
7:30	10	16.52	7.71	12.61	0.909	-60.2	15.1
7:40	20	16.58	6.87	11.69	0.935	-52.8	28.5
7:50	30	16.35	6.80	11.71	0.957	-51.1	35.3
7:55	35	16.36	6.80	11.90	0.953	-49.7	61.6

### Well Development Table

Project No.: 2010-15  
 Well No.: MW-303 S

Site: Orange County Landfill, Goshen, New York  
 Date: July 22, 2013

Well Depth: 27.2 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 4.9 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 17.6 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Fairly clear, Hydrogen Sulfur Odor

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
13:25	1.5	17.7	7.09	14.05	0.770	-52.0	80.9
13:30	3	17.6	7.09	13.01	0.756	-43.8	79.6
13:35	4.5	17.7	7.02	12.70	0.755	-35.8	111

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-303 D

Site: Orange County Landfill , Goshen, New York  
 Date: July 22, 2013

Well Depth: 74.54 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 28.5 gallons but purged dry at 17 gallon  
 Initial PID (ppm): 0.0

Static Water Level: 17.7 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Very clear

Time	Gallon	Depth to Water From TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
14:00	3	31.5	7.60	12.46	1.200	1.1	18.4
14:05	6	42.75	7.49	12.25	1.198	12.6	10.09
14:20	9	53.30	7.13	12.73	1.163	-34.0	10.08
14:25	12	60.70	7.61	12.54	1.125	-53.3	9.40
14:40	15	66.3	7.55	13.08	1.148	-52.1	29.7



### Well Development Table

Project No.: 2010-15  
 Well No.: PZ-1 A

Site: Orange County Landfill . Goshen, New York  
 Date: July 25, 2013

Well Depth: 78.25feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 33 gallons  
 Initial PID (ppm): 2.5

Static Water Level: 12.49 feet from top of casing (TOC)  
 Sampling Device: Monsoon pump (submersible)

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Fairly clear

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
8:27	5	15.75	7.39	11.43	0.830	-55.2	7.75
8:41	10	15.84	7.25	11.26	0.826	-59.4	6.86
8:44	15	15.70	7.17	11.27	0.825	-60.7	3.14
8:49	20	15.63	7.17	11.26	0.824	-63.6	4.58
8:53	25	15.55	7.18	11.29	0.822	-63.1	3.68
8:57	30	15.57	7.17	11.29	0.821	-60.7	3.50
8:59	33	15.56	7.20	11.26	0.818	-62.8	2.17

**Well Development Table**

Project No.: 2010-15  
 Well No.: PZ-4

Site: Orange County Landfill, Goshen, New York  
 Date: July 25, 2013

Well Depth: 60 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 23 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 13.8 feet from top of casing (TOC)  
 Sampling Device: 2 stage submersible pump

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Grey, very turbid

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
7:40	5	17.00	6.79	12.87	1.256	-74.3	793
7:44	10	17.31	6.81	12.86	1.264	-68.6	240
7:47	15	17.43	6.78	12.77	1.267	-65.1	182
7:51	20	17.54	6.75	12.79	1.267	-65.4	183
7:53	23	16.41	6.70	12.76	1.268	-64.3	180

**Well Development Table**

Project No.: 2010-15  
 Well No.: MW-3 B

Site: Orange County Landfill, Goshen, New York  
 Date: July 24, 2013

Well Depth: 54 feet  
 Well Diameter: 2 inches

Total Estimated  
 Volume to be Purged: 13 gallons  
 Initial PID (ppm): 0.0

Static Water Level: 27.43 feet from top of casing (TOC)  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Clear

Time	Gallon	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
14:37	3	27.50	7.49	15.20	0.877	-54.1	51.00
14:43	6	27.45	7.55	14.55	1.165	-57.0	46.99
14:47	9	27.50	7.49	14.37	1.271	-55.6	22.10
14:54	12	27.50	7.59	14.56	1.279	-63.1	33.10

**Well Development Table**

Project No.: 2010-15  
 Well No.: SW-3

Site: Orange County Landfill, Goshen, New York  
 Date: July 25, 2013

Well Depth: Not Applicable  
 Well Diameter: Not Applicable

Total Estimated  
 Volume to be Purged: Not Applicable  
 Initial PID (ppm): Not Applicable

Static Water Level: Not Applicable  
 Sampling Device: Not Applicable

Explosive Gas (LEL %): Not Applicable  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Clear

Time	Gallon	Depth to Water (To nearest 0.01 foot)	pH (10%)	Temp. (10%)	SC (10%)	Eh (10%)	Turbidity (10%)
9:20	Not Applicable	Not Applicable	8.06	22.75	0.456	14.4	20.9

**Notes:**

Not Applicable = Not a monitoring well. This location is a manhole/leachate tank.

### Well Development Table

Project:	<u>2010-15</u>	Site:	<u>Orange County Landfill, Goshen, New York</u>
Well No.:	<u>SW-5</u>	Date:	<u>July 25, 2013</u>
Well Depth:	<u>Not Applicable</u>	Total Estimated Volume to be Purged:	<u>Not Applicable</u>
Well Diameter:	<u>Not Applicable</u>	Initial PID (ppm):	<u>Not Applicable</u>
Static Water Level:	<u>Not Applicable</u>	Explosive Gas (LEL %):	<u>Not Applicable</u>
Sampling Device:	<u>Not Applicable</u>	Sampling Personnel:	<u>Charlotte Verhoef &amp; Cody Sargood</u> <u>Sterling Environmental Engineering, P.C.</u>
Physical Appearance of Water:	<u>Clear</u>		

Time	Gallon	Depth to Water (To nearest 0.01 foot)	pH (10%)	Temp. (10%)	SC (10%)	Eh (10%)	Turbidity (10%)
8:10	Not Applicable	Not Applicable	8.04	23.79	0.463	-23.6	32.6

**Notes:**

Not Applicable = Not a monitoring well. This location is a manhole/leachate tank.

### Well Development Table

Project No.:	<u>2010-15</u>	Site:	<u>Orange County Landfill, Goshen, New York</u>
Well No.:	<u>SW-8</u>	Date:	<u>July 25, 2013</u>
Well Depth:	<u>Not Applicable</u>	Total Estimated	
Well Diameter:	<u>Not Applicable</u>	Volume to be Purged:	<u>Not Applicable</u>
		Initial PID (ppm):	<u>Not Applicable</u>
Static Water Level:	<u>Not Applicable</u>	Explosive Gas (LEL %):	<u>Not Applicable</u>
Sampling Device:	<u>Not Applicable</u>	Sampling Personnel:	<u>Charlotte Verhoef &amp; Cody Sargood</u> <u>Sterling Environmental Engineering, P.C.</u>

Physical Appearance of Water: Brown, murky.

Time	Gallon	Depth to Water (To nearest 0.01 foot)	pH (10%)	Temp. (10%)	SC (10%)	Eh (10%)	Turbidity (10%)
7:00	Not Applicable	Not Applicable	7.91	23.79	0.457	-11.2	19.1

**Notes:**

Not Applicable = Not a monitoring well. This location is a manhole/leachate tank.

**Well Development Table**

Project: 2010-15  
 Well No.: MH-15 (L-1)

Site: Orange County Landfill, Goshen, New York  
 Date: July 22, 2013

Well Depth: Not Applicable  
 Well Diameter: Not Applicable

Total Estimated  
 Volume to be Purged: Not Applicable  
 Initial PID (ppm): 0.0

Static Water Level: Not Applicable  
 Sampling Device: Bailer

Explosive Gas (LEL %): 0  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Clear, organic matter

Time	Gallon Number	Depth to Water from TOC	pH (10%)	Temp. (10%)	SC (10%)	ORP (10%)	Turbidity (10%)
15:10	Not Applicable	Not Applicable	7.15	15.64	2.108	-130.1	34.1

**Notes:**

Not Applicable = Not a monitoring well. This location is a manhole/leachate tank.

**Well Development Table**

Project No.: 2010-15  
 Well No.: SW-8

Site: Orange County Landfill , Goshen, New York  
 Date: July 25, 2013

Well Depth: Not Applicable  
 Well Diameter: Not Applicable

Total Estimated  
 Volume to be Purged: Not Applicable  
 Initial PID (ppm): Not Applicable

Static Water Level: Not Applicable  
 Sampling Device: Not Applicable

Explosive Gas (LEL %): Not Applicable  
 Sampling Personnel: Charlotte Verhoef & Cody Sargood  
Sterling Environmental Engineering, P.C.

Physical Appearance of Water: Brown, murky.

Time	Gallon	Depth to Water (To nearest 0.01 foot)	pH (10%)	Temp. (10%)	SC (10%)	Eh (10%)	Turbidity (10%)
7:00	Not Applicable	Not Applicable	7.91	23.79	0.457	-11.2	19.1

**Notes:**

Not Applicable = Not a monitoring well. This location is a manhole/leachate tank.



### Well Development Table

Project No.:	<u>2010-15</u>	Site:	<u>Orange County Landfill, Goshen, New York</u>
Well No.:	<u>SW-13</u>	Date:	<u>July 25, 2013</u>
Well Depth:	<u>Not Applicable</u>	Total Estimated	
Well Diameter:	<u>Not Applicable</u>	Volume to be Purged:	<u>Not Applicable</u>
		Initial PID (ppm):	<u>Not Applicable</u>
Static Water Level:	<u>Not Applicable</u>	Explosive Gas (LEL %):	<u>Not Applicable</u>
Sampling Device:	<u>Not Applicable</u>	Sampling Personnel:	<u>Charlotte Verhoef &amp; Cody Sargood</u> <u>Sterling Environmental Engineering, P.C.</u>
Physical Appearance of Water: <u>Clear</u>			

Time	Gallon	Depth to Water (To nearest 0.01 foot)	pH (10%)	Temp. (10%)	SC (10%)	Eh (10%)	Turbidity (10%)
9:30	Not Applicable	Not Applicable	8.09	23.88	6.459	-16.0	23.2

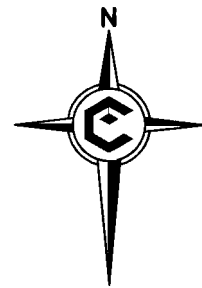
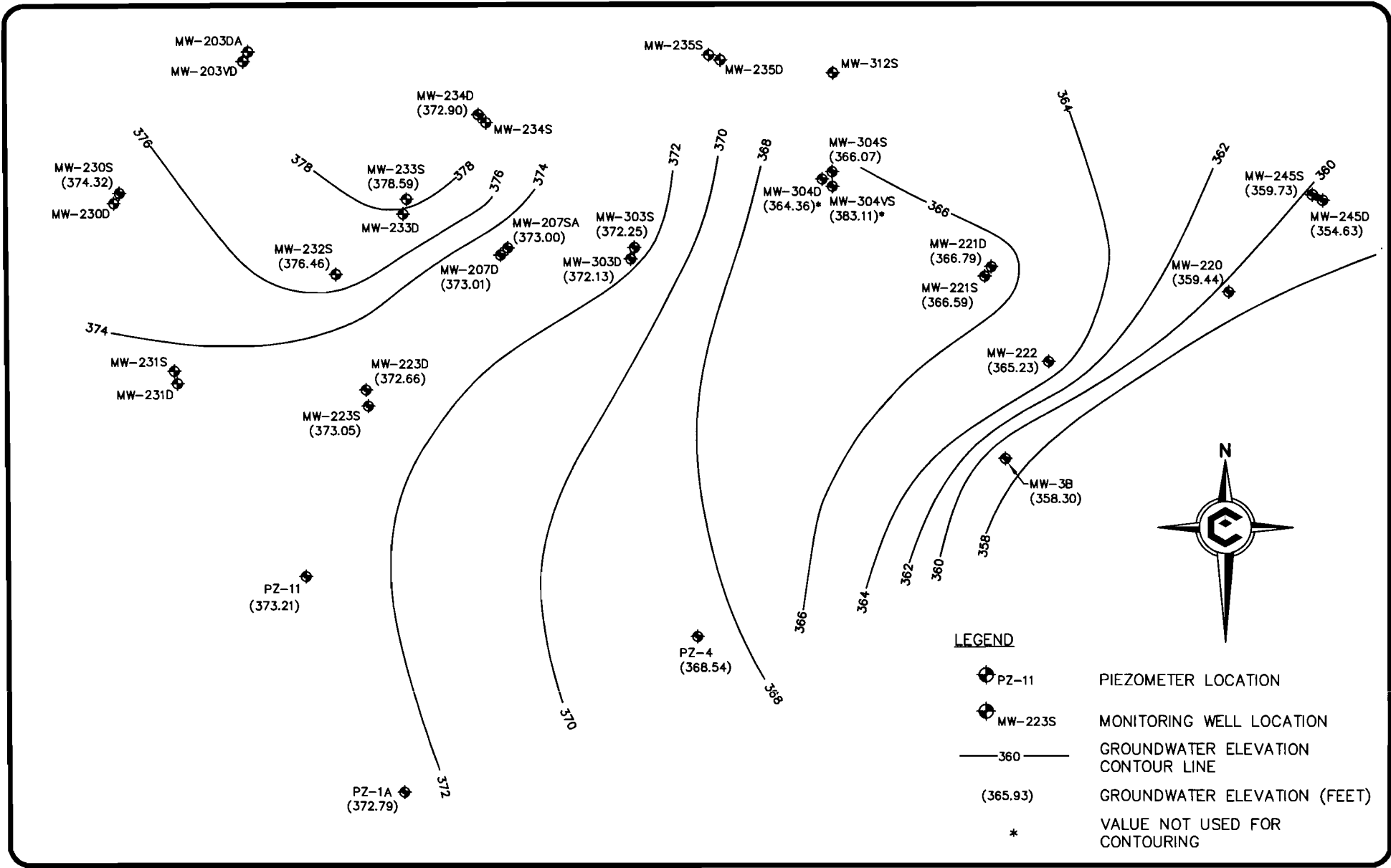
**Notes:**

Not Applicable = Not a monitoring well. This location is a manhole/leachate tank.

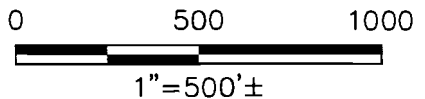
**APPENDIX C**

**GROUNDWATER CONTOUR AND ISOPLETH CONCENTRATION MAPS**

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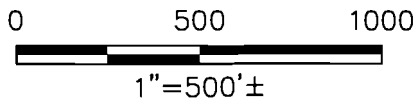
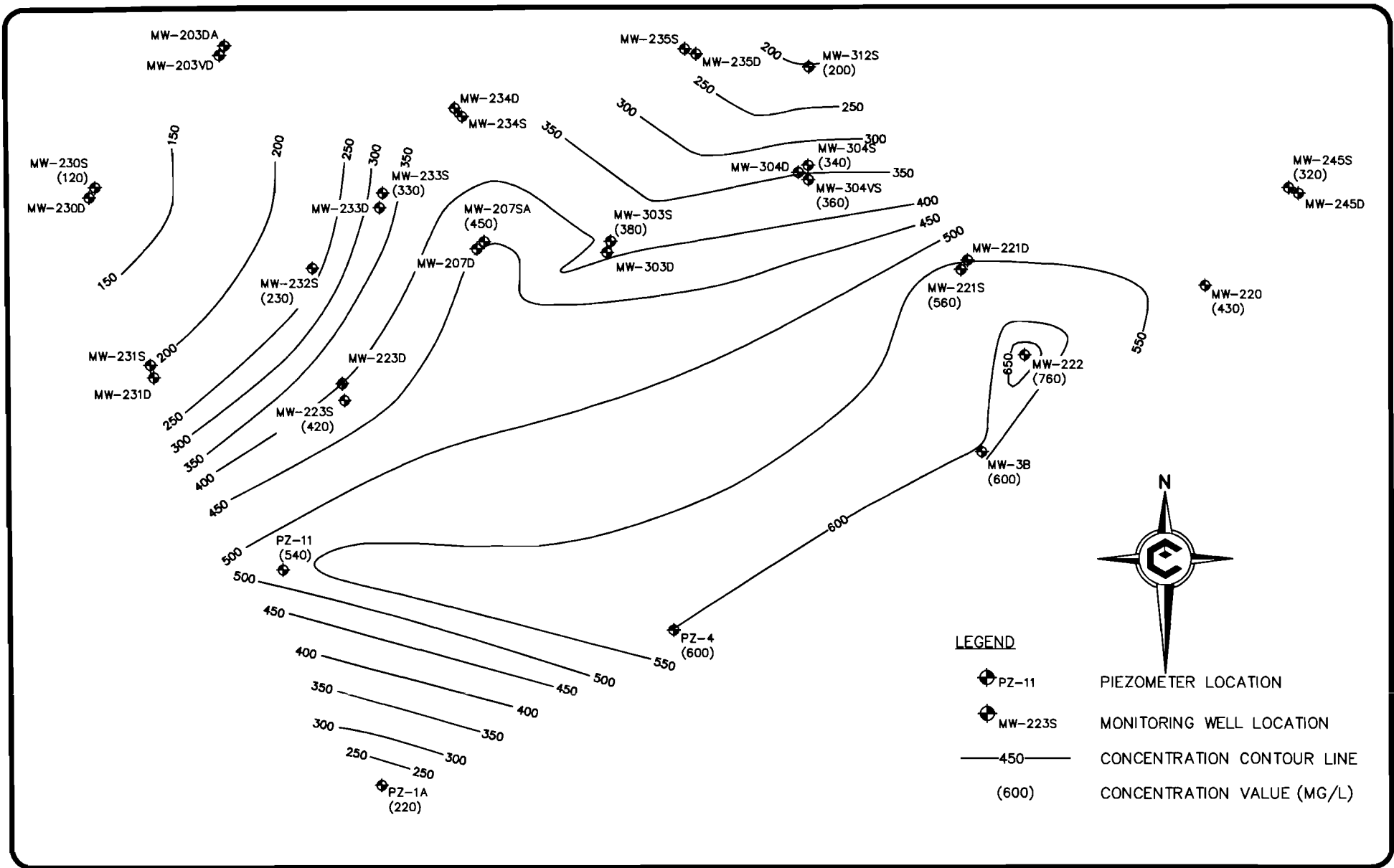
- LEGEND**
- PZ-11      PIEZOMETER LOCATION
  - MW-223S      MONITORING WELL LOCATION
  - 360      GROUNDWATER ELEVATION CONTOUR LINE
  - (365.93)      GROUNDWATER ELEVATION (FEET)
  - \*      VALUE NOT USED FOR CONTOURING



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ORANGE COUNTY LANDFILL  
 COUNTY OF ORANGE – GOSHEN, NY  
**GROUNDWATER CONTOUR MAP**  
 JULY 2013

FIGURE NO.  
**1**  
 PROJECT NO.  
 130614



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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY

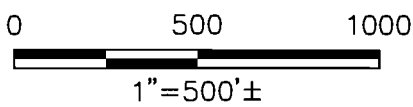
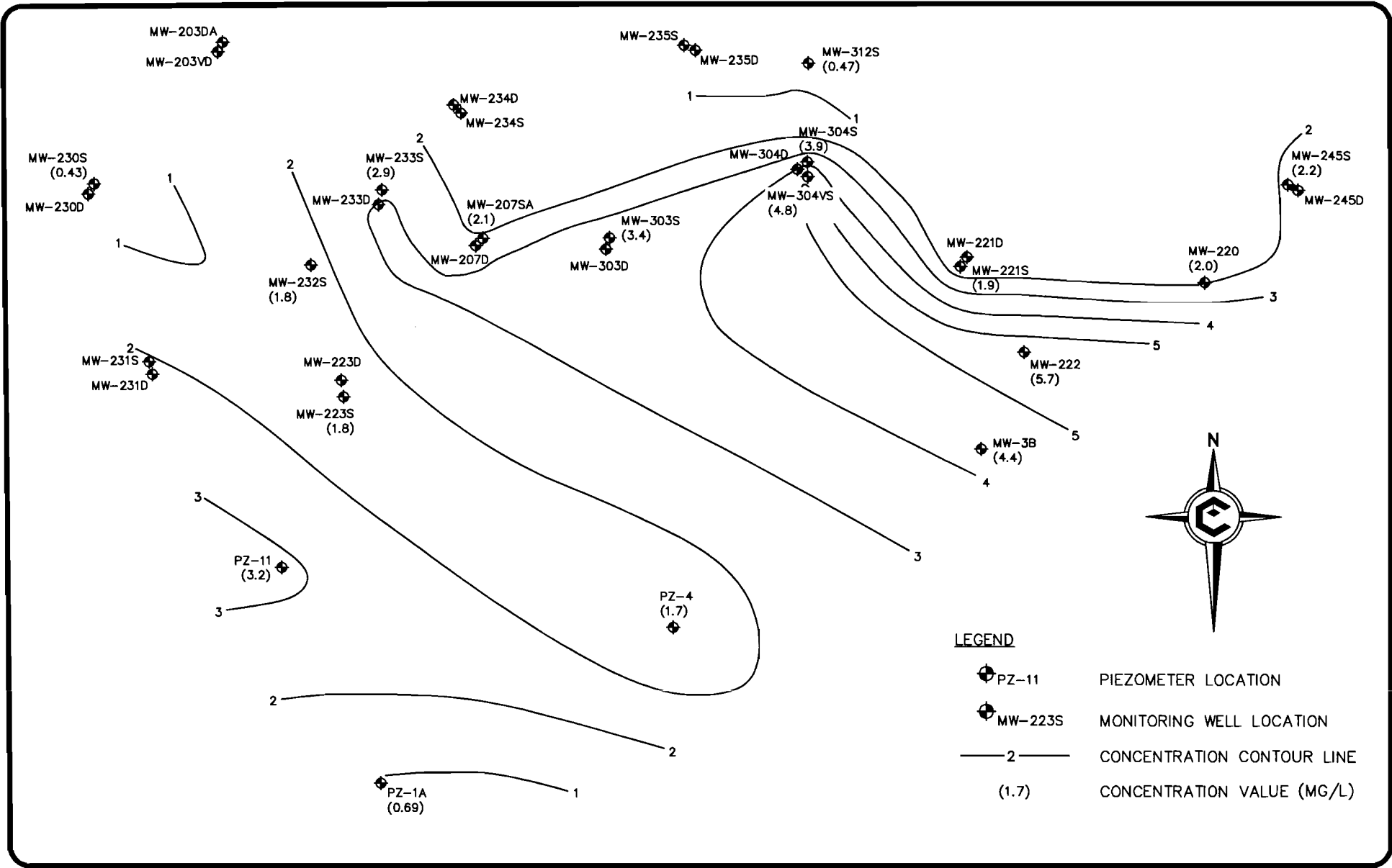

**ALKALINITY ISOPLETH MAP**

**JULY 2013**

FIGURE NO.

**2**

PROJECT NO.  
130614

**CORNERSTONE**  
Environmental Group, LLC

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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY



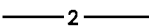
**TOC ISOPLETH MAP**

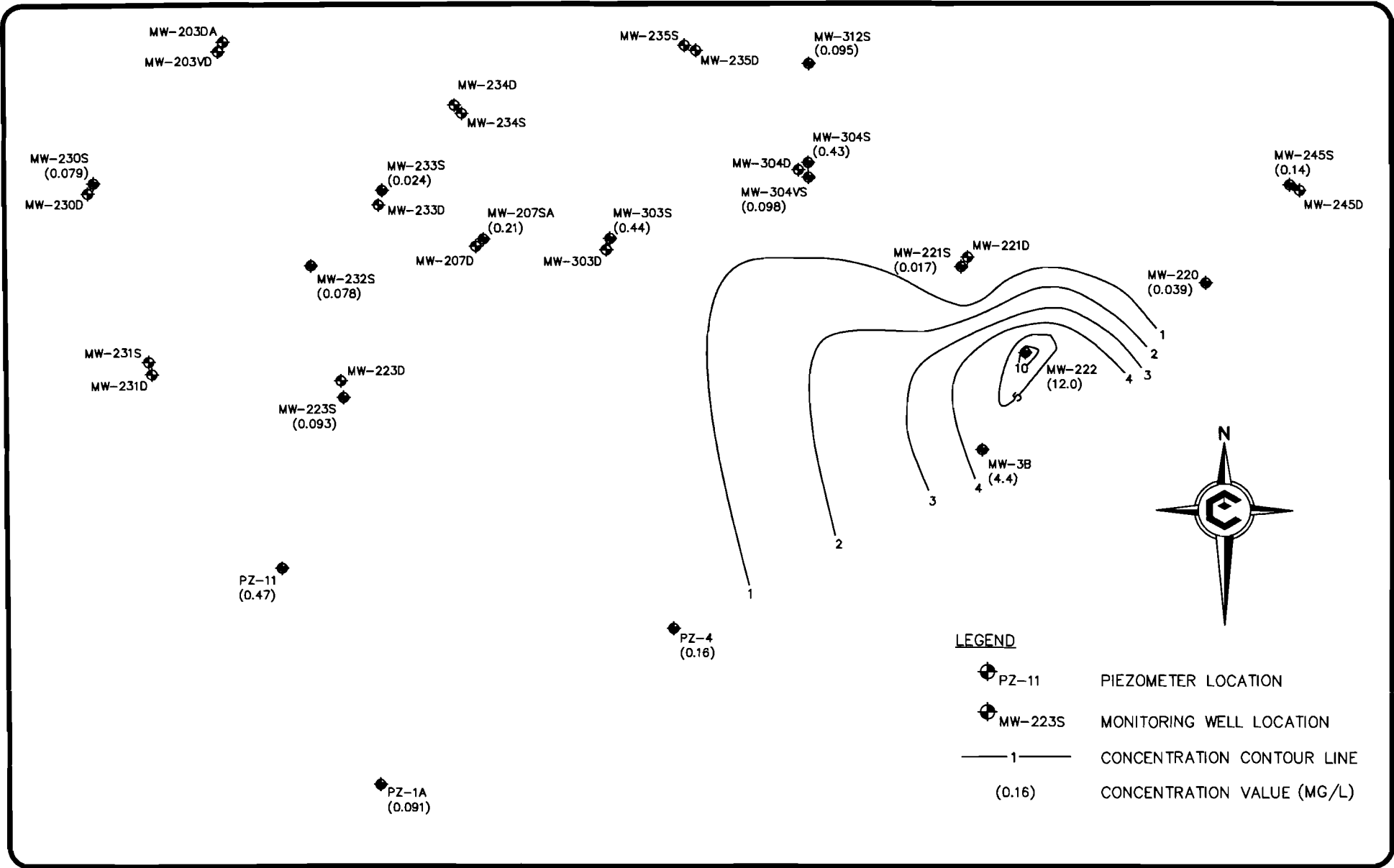
**JULY 2013**



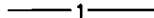

FIGURE NO.

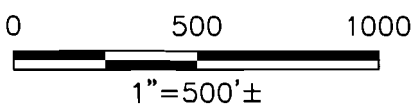
**3**

PROJECT NO.  
130614

- LEGEND**
-  PZ-11      PIEZOMETER LOCATION
  -  MW-223S      MONITORING WELL LOCATION
  -  2      CONCENTRATION CONTOUR LINE
  - (1.7)      CONCENTRATION VALUE (MG/L)



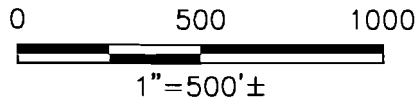
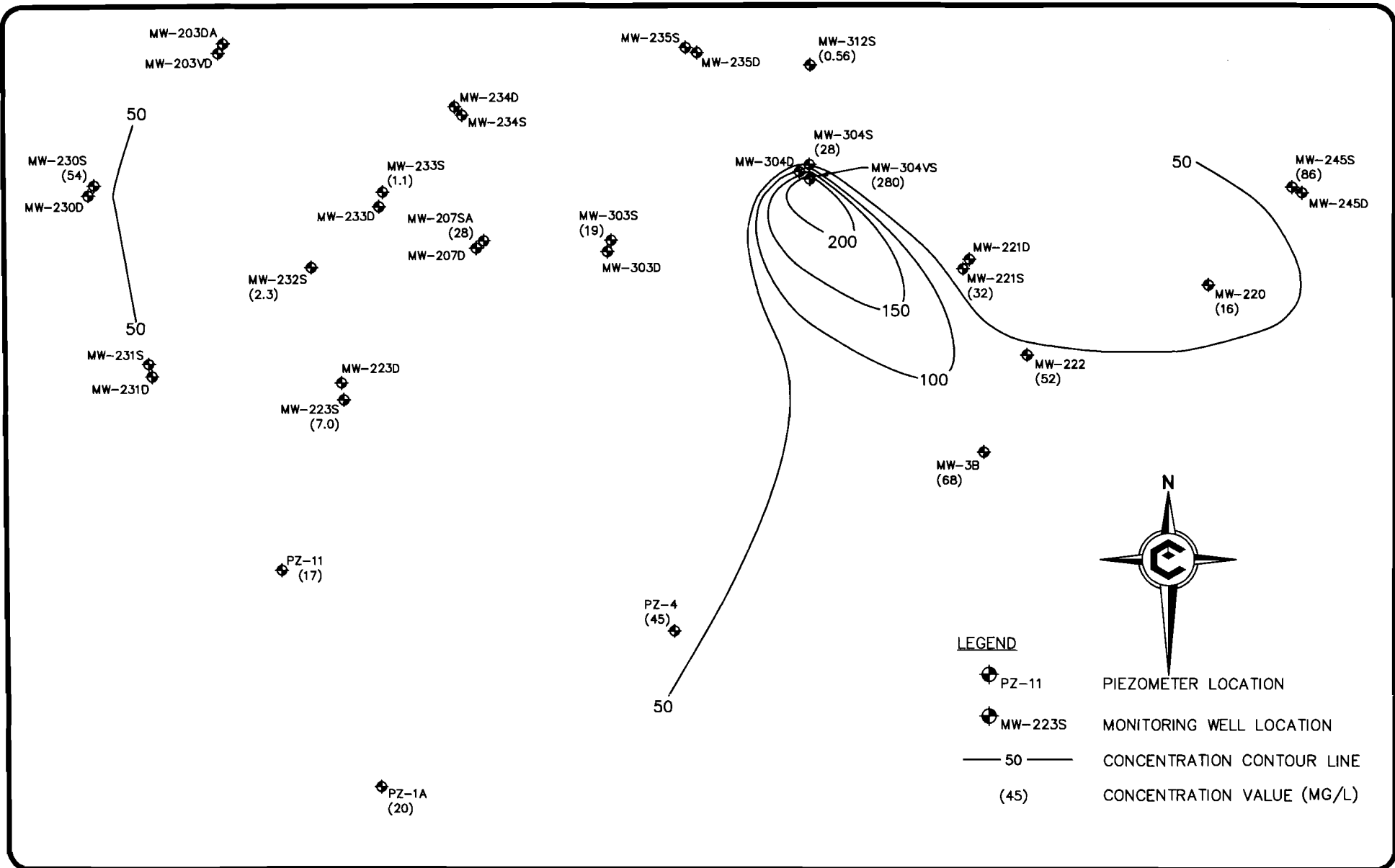
- LEGEND**
-  PZ-11      PIEZOMETER LOCATION
  -  MW-223S      MONITORING WELL LOCATION
  -  1      CONCENTRATION CONTOUR LINE
  -  (0.16)      CONCENTRATION VALUE (MG/L)



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**ORANGE COUNTY LANDFILL**  
**COUNTY OF ORANGE – GOSHEN, NY**  
**AMMONIA ISOPLETH MAP**  
**JULY 2013**

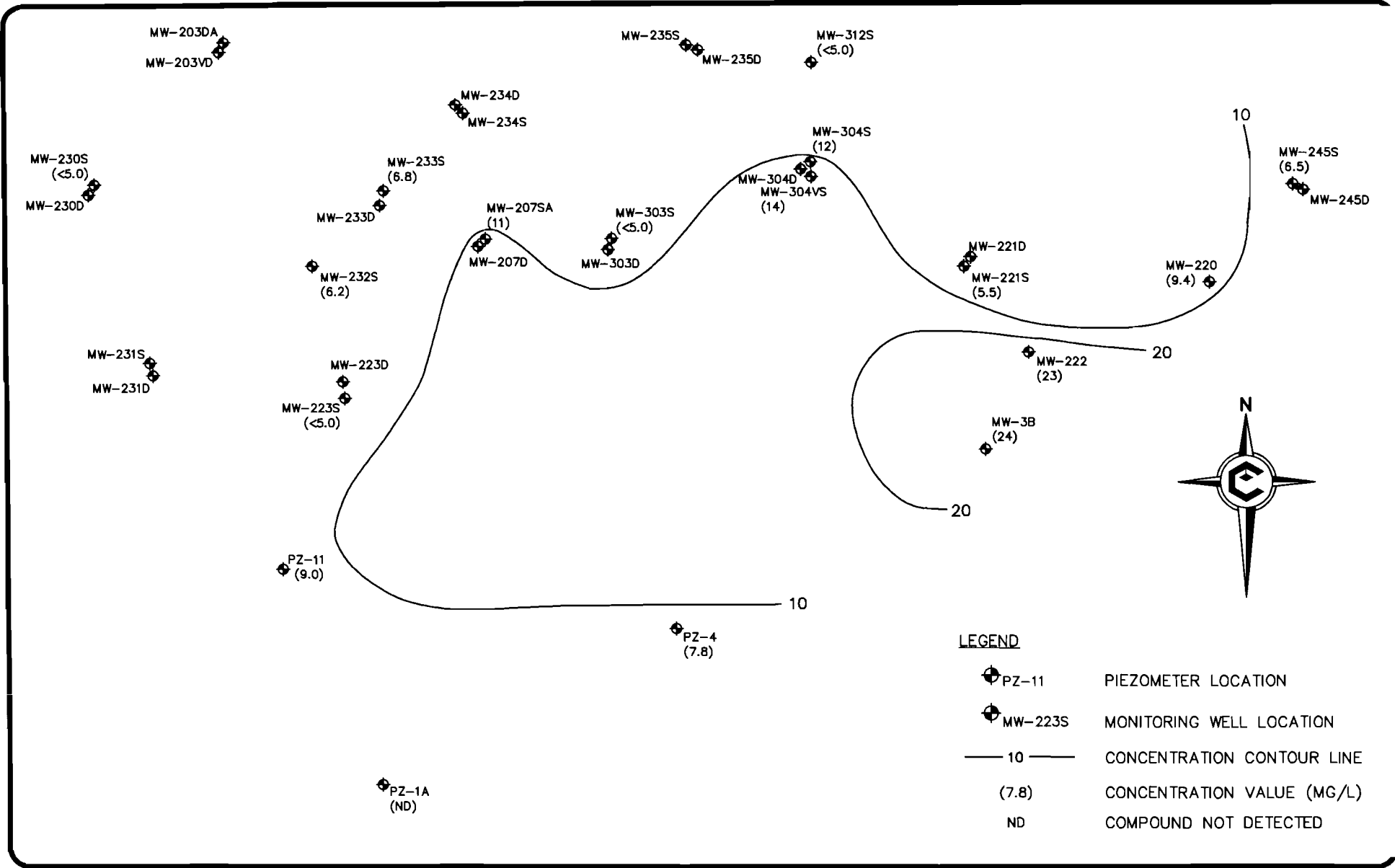
**FIGURE NO.**  
**4**  
**PROJECT NO.**  
**130614**



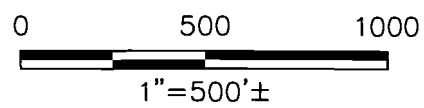
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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY  
**CHLORIDE ISOPLETH MAP**  
JULY 2013

FIGURE NO.  
**5**  
PROJECT NO.  
130614



- LEGEND**
- PZ-11      PIEZOMETER LOCATION
  - MW-223S      MONITORING WELL LOCATION
  - 10      CONCENTRATION CONTOUR LINE
  - (7.8)      CONCENTRATION VALUE (MG/L)
  - ND      COMPOUND NOT DETECTED



**CORNERSTONE**  
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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY

**COD ISOPLETH MAP**

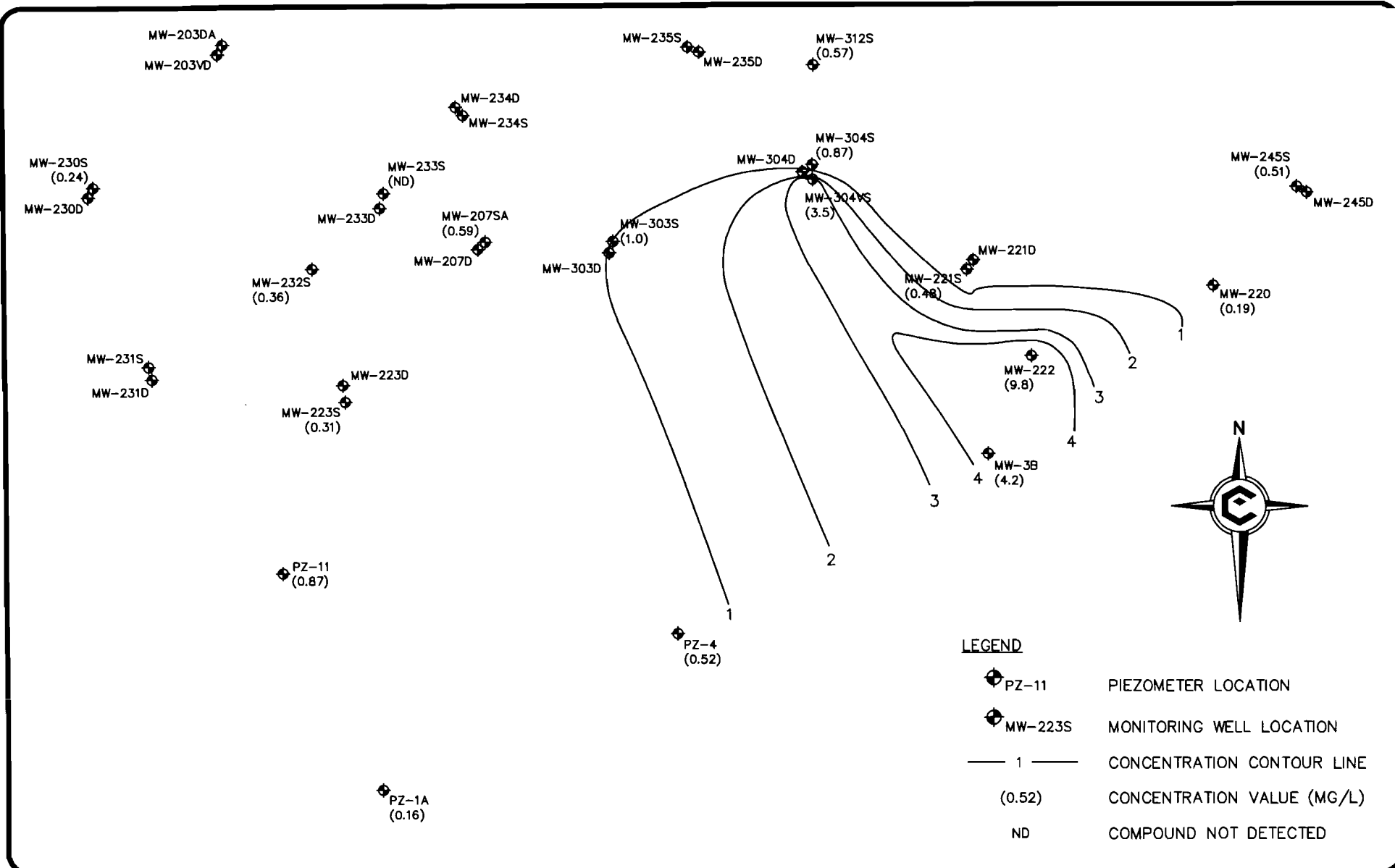
**JULY 2013**

FIGURE NO.

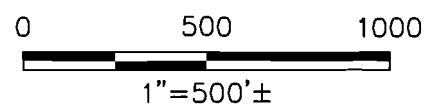
**6**

PROJECT NO.  
130614





- LEGEND**
- PZ-11      PIEZOMETER LOCATION
  - MW-223S      MONITORING WELL LOCATION
  - 1      CONCENTRATION CONTOUR LINE
  - (0.52)      CONCENTRATION VALUE (MG/L)
  - ND      COMPOUND NOT DETECTED



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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY

**TKN ISOPLETH MAP**

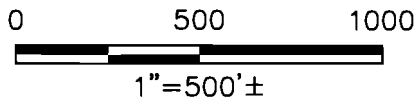
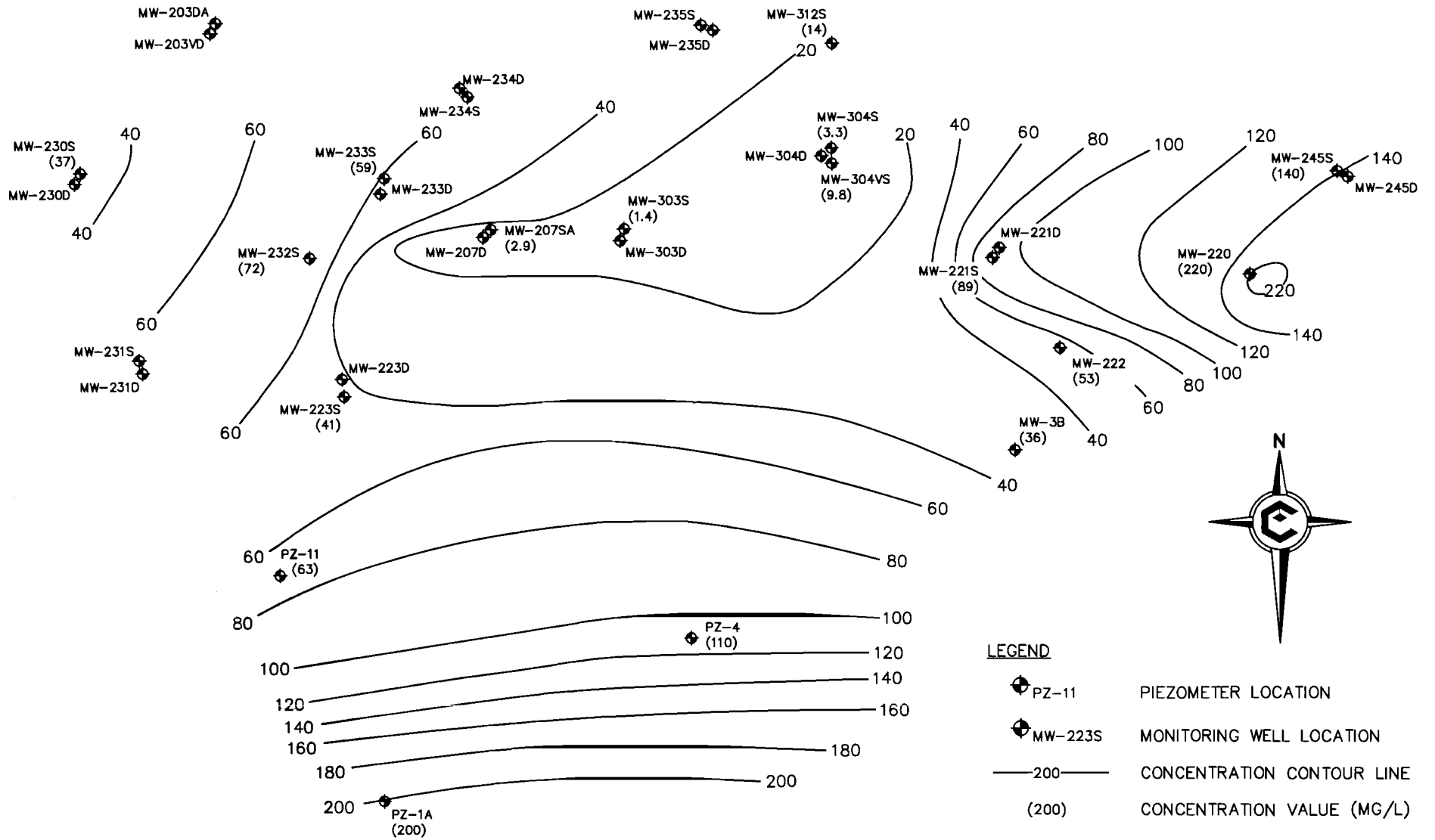
**JULY 2013**

FIGURE NO.

**7**

PROJECT NO.  
130614

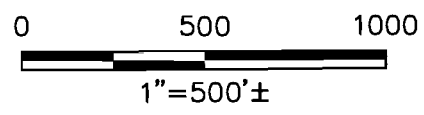
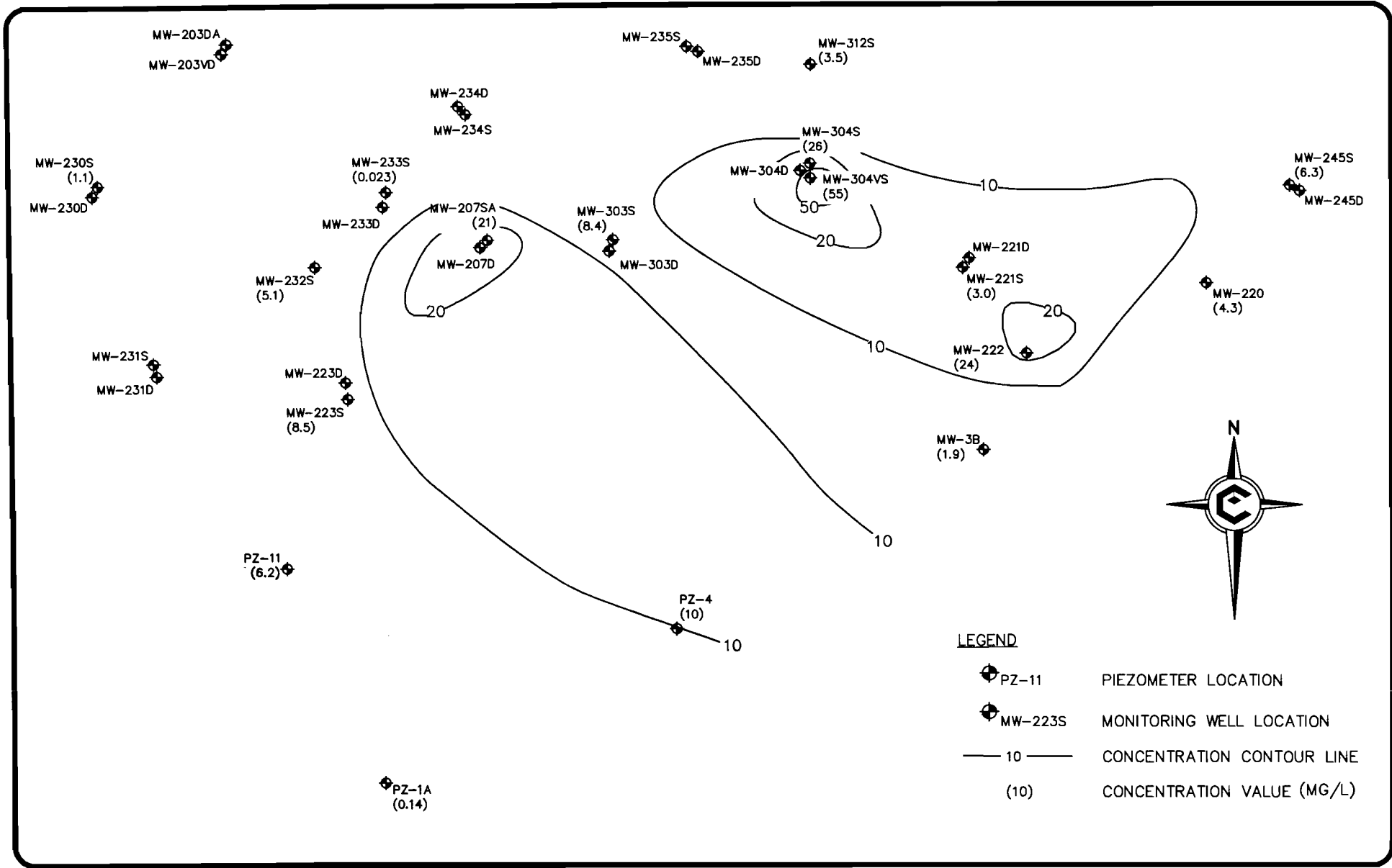




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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY  
**SULFATE ISOPLETH MAP**  
JULY 2013

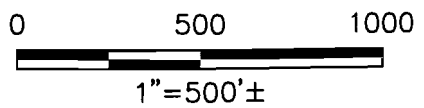
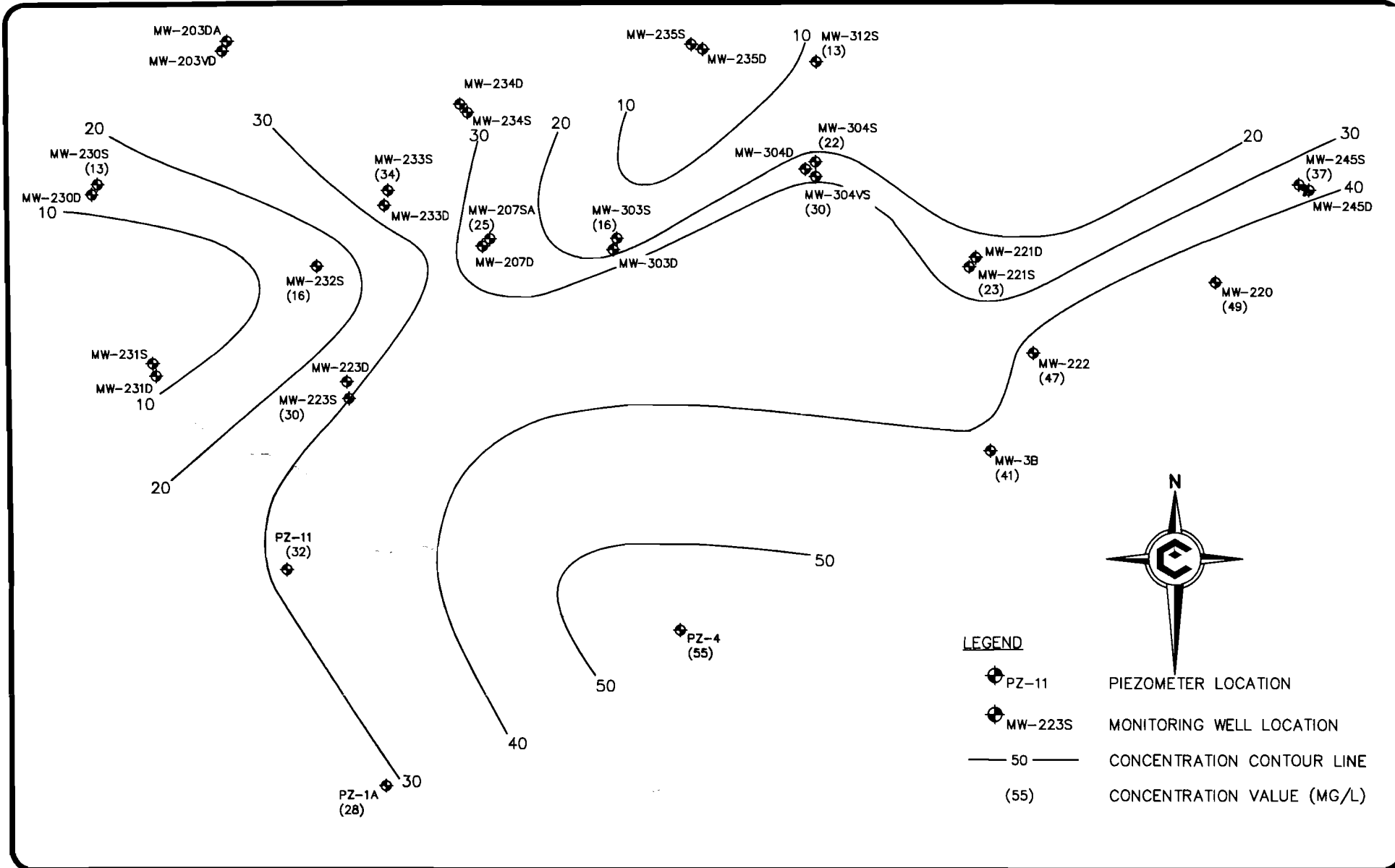
FIGURE NO.  
**9**  
PROJECT NO.  
130614



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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY  
**IRON ISOPLETH MAP**  
JULY 2013

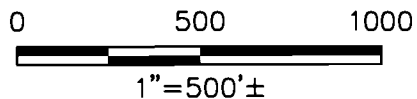
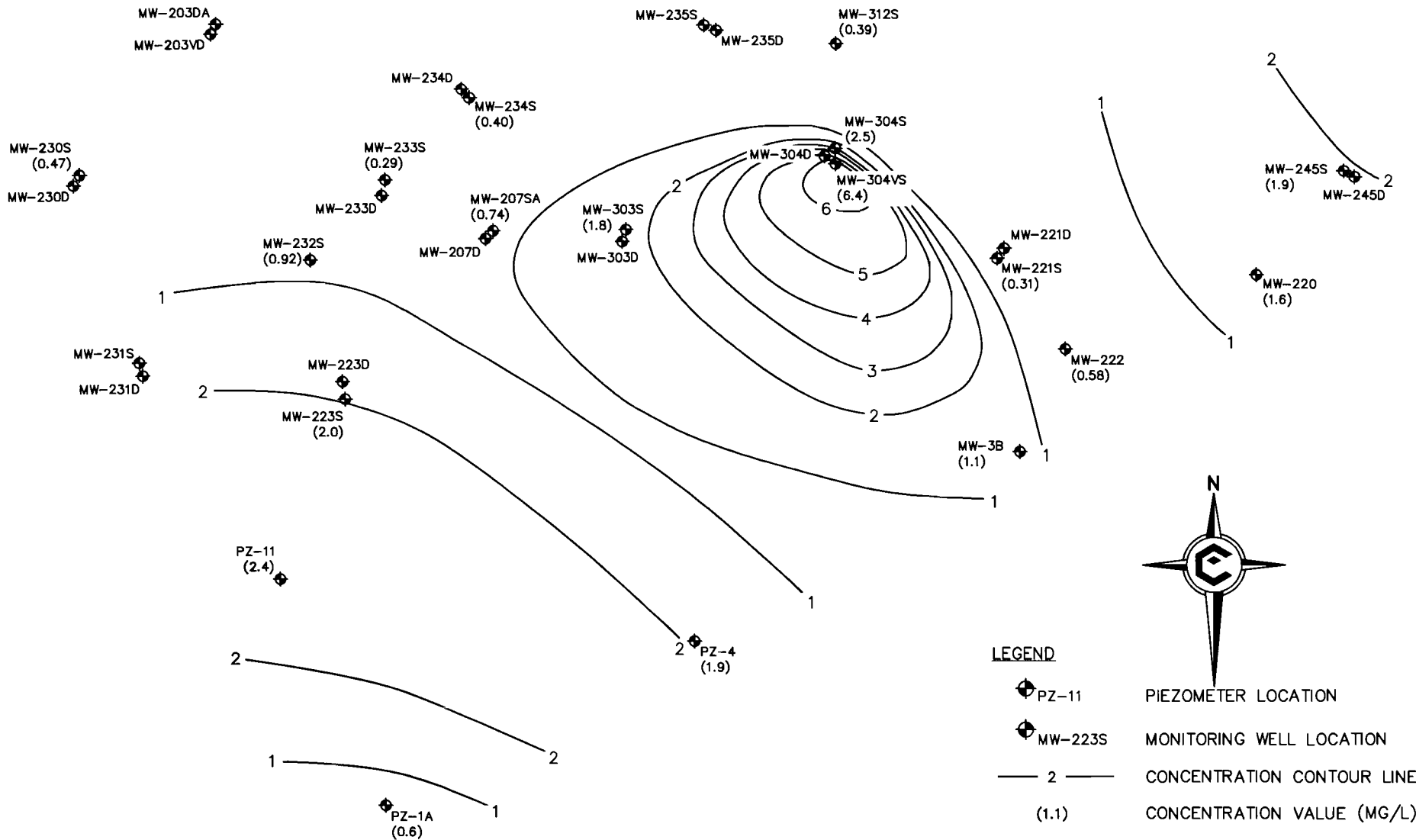
FIGURE NO.  
**10**  
PROJECT NO.  
130614



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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY  
**MAGNESIUM ISOPLETH MAP**  
JULY 2013

FIGURE NO.  
**11**  
PROJECT NO.  
130614



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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY

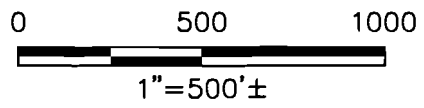
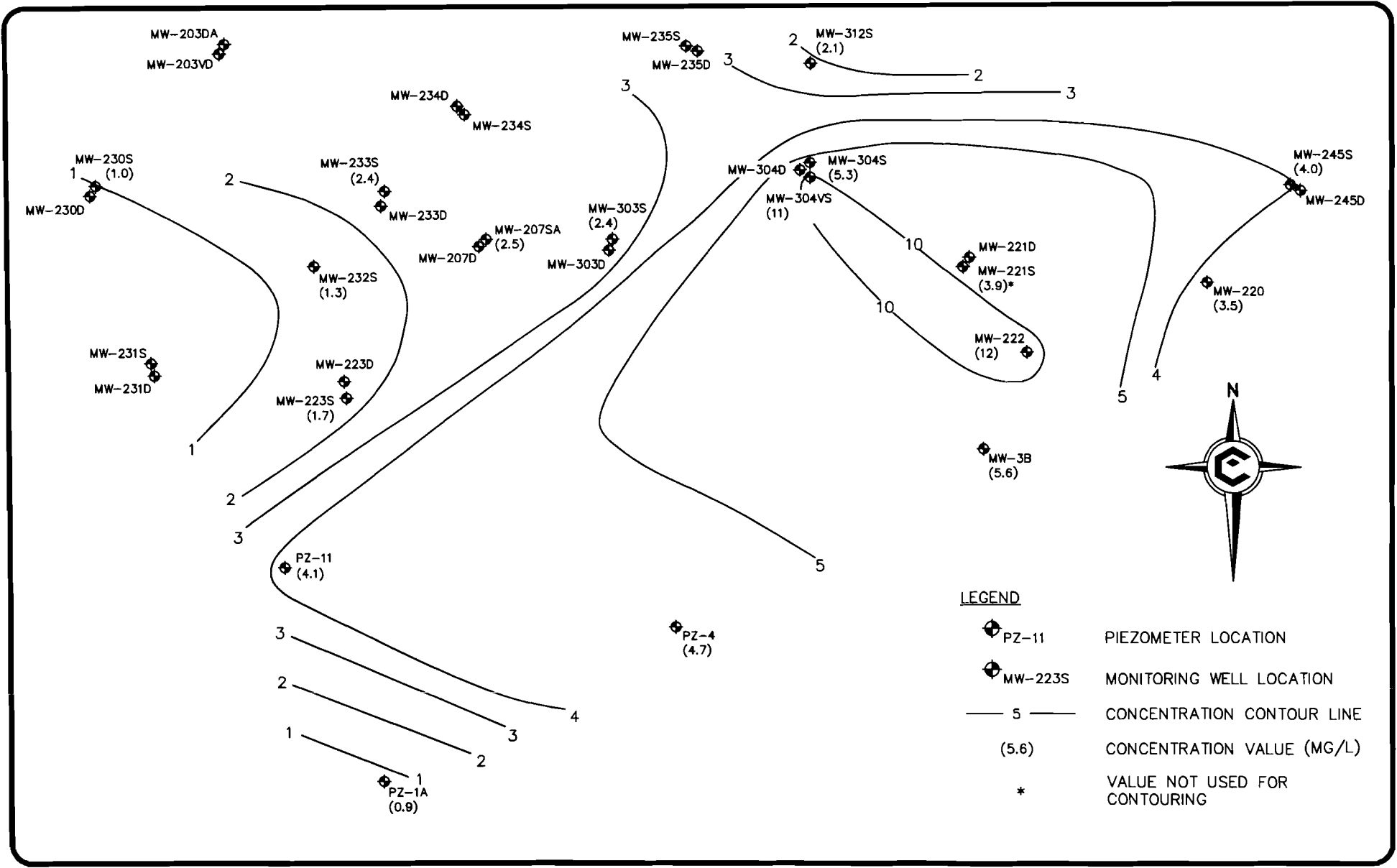
**MANGANESE ISOPLETH MAP**

JULY 2013

FIGURE NO.

**12**

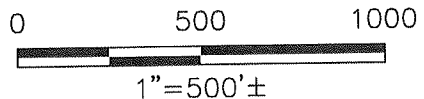
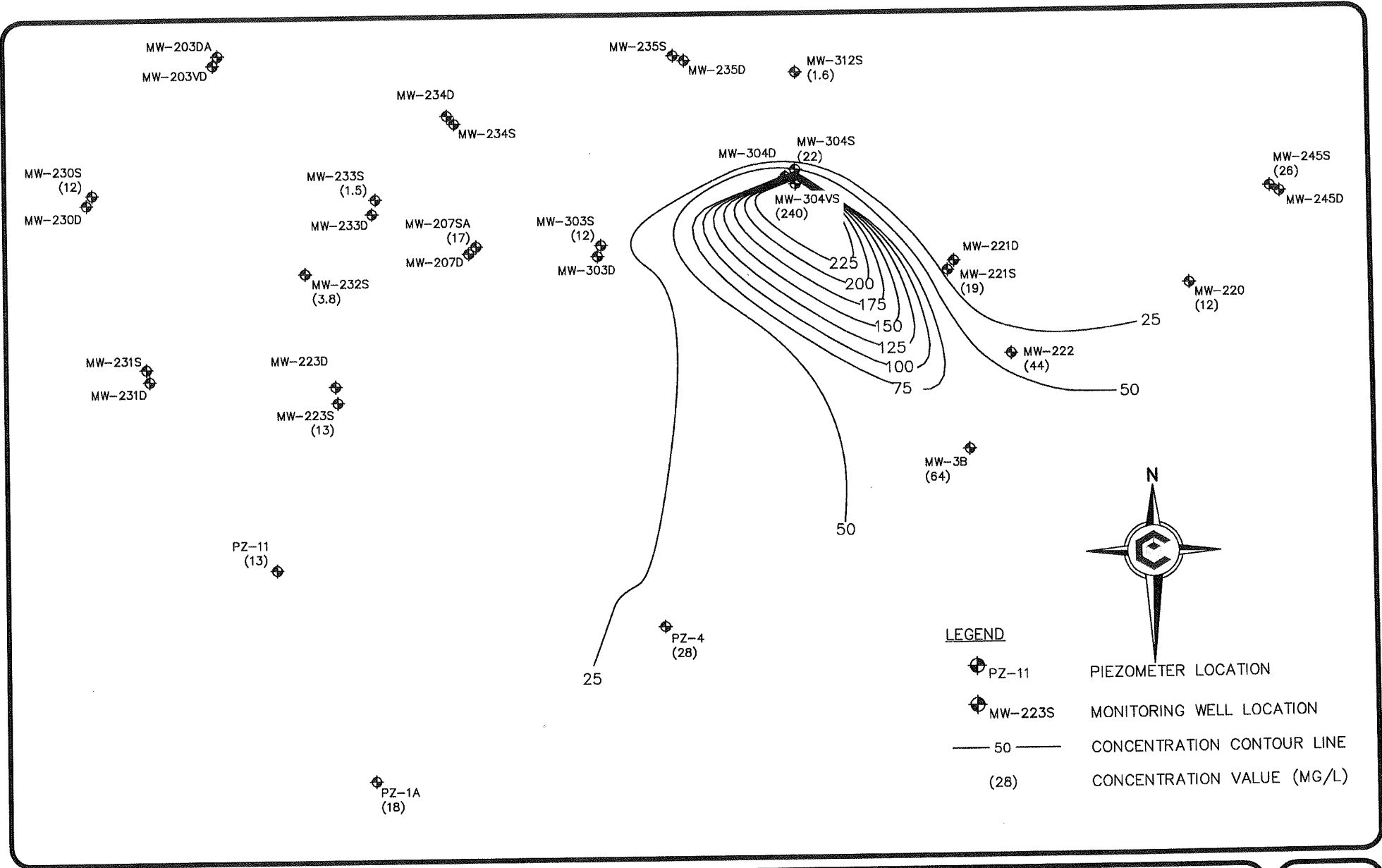
PROJECT NO.  
130614



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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY  
**POTASSIUM ISOPLETH MAP**  
JULY 2013

FIGURE NO.  
**13**  
PROJECT NO.  
130614



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ORANGE COUNTY LANDFILL  
COUNTY OF ORANGE – GOSHEN, NY  
**SODIUM ISOPLETH MAP**  
JULY 2013

FIGURE NO.  
**14**  
PROJECT NO.  
130614