WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
PHASE III APPENDIX I DETECTION MONITORING
APRIL 2009 SAMPLING EVENT

S&ME Project No.1584-98-081

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1. EXECUTIVE SUMMARY

Twelve monitoring wells and three stream locations at the lined Subtitle D White Street Landfill were sampled on April 15, 2009, and April 16, 2009. Ten wells (MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, and MW-25B) comprise the groundwater monitoring system for the lined Subtitle D solid waste disposal area of the landfill, also known as Phase III. Monitoring wells MW-15 and MW-16 serve as background wells for Phase III. The collected samples were submitted to a North Carolina certified laboratory for analysis using the federal Appendix I list of volatile organic and inorganic constituents for detection monitoring. Samples from surface water locations SW-1, SW-2 and SW-3 were analyzed for federal Appendix I detection monitoring constituents.

Analytical results from the 12 Phase III monitoring wells detected no Appendix I volatile organic compound at the sampled locations during this monitoring event. No Appendix I metal was detected at a concentration which exceeds the corresponding NCAC 2L groundwater quality standard. Currently, there is no established North Carolina Groundwater Quality Standard for vanadium. However, North Carolina has published a Public Health Goal (NCPHG) for vanadium, which is set at 3.5 µg/L. During this event, vanadium was detected in the groundwater samples collected from monitoring wells MW-19, MW-20 and MW-24, and the reported concentrations of 4.7 µg/L, 5.7 µg/L and 3.8 µg/L are estimated "J" flagged values. These concentrations are above the NCPHG for vanadium.

S&ME previously completed an Alternate Source Demonstration (ASD) for metals in the adjoining Phase II portion of the White Street Landfill Facility. The North Carolina Department of Environment and Natural Resources (NC DENR) approved the findings presented in ASD. The results of the ASD show that the exceedance of vanadium above it's respective GPS value is not likely due to a release by the Facility, but instead may be attributed to the natural occurrence of vanadium in the native, residual soil at concentrations sufficient to influence the concentrations of vanadium in groundwater samples. Although the ASD was undertaken in the Phase II portion of the Facility, the soils at the Facility appear to be relatively homogeneous in composition. Therefore the results of the ASD are likely applicable to the Phase III portion of the Landfill, as such the detected vanadium concentrations may not be indicative of a metals release from the Facility.

The laboratory analytical results were examined for evidence of statistically significant increases (SSIs) over background values. The statistical analyses suggest that there were no exceedances of the corresponding Statistical Upper Limit in any of the inorganic parameters detected at quantifiable values during this monitoring event.

No Appendix I volatile organic compounds were detected at the surface water sample locations. No Appendix I metals were detected at concentrations exceeding the corresponding NCAC 2B surface water standard except for the estimated detection of 4.2 ug/L silver at sample locations SW-2. Sample location SW-2 is located up stream of the facility, and not influence by surface waters stemming from Phase III. As such it does not represent conditions associated with Phase III.

2. INTRODUCTION

White Street Landfill Phase III is a Solid Waste Management Facility (SWMF) located at the north end of White Street in northeastern Greensboro. The City of Greensboro operates this lined Subtitle D landfill under Solid Waste Permit #41-12. **Figure 1** is a map showing the monitor well locations. S&ME, Inc. (S&ME) was contracted by the City of Greensboro to conduct this bi-annual water quality monitoring event. Two upgradient and 10 downgradient monitoring wells are located along the perimeter of the Phase III disposal area. Surface water samples were collected in accordance with the approved site Sampling and Analysis Plan.

The Phase III monitoring well samples were analyzed for the full RCRA Subtitle D Appendix I parameters. The surface water samples were also analyzed for the Appendix I list of constituents. This report discusses the field procedures, summarizes the field measurements and analytical results, and presents the statistical evaluation results for the April 2009 water quality monitoring event.

3. SCOPE OF WORK

S&ME completed the following tasks as part of this monitoring event:

- Sampled the 12 monitoring wells and three surface water locations.
- Obtained field values for pH, temperature, dissolved oxygen (DO), turbidity, oxidation-reduction potential (ORP), and conductivity at each sample location.
- Collected depth to water measurements during well purging to monitor drawdown.
- Had the samples analyzed for Appendix I constituents by a North Carolina certified laboratory using State approved methods.
- Determined groundwater flow rates and directions at the Phase III area monitoring well locations.
- Collected a sample of landfill leachate from the wet well for laboratory analyses.
- Prepared and submitted reports to the City of Greensboro and the State of North Carolina.

4. METHODS EMPLOYED

4.1 Monitoring Well Sampling

Groundwater monitoring well sampling took place on April 15 and 16, 2009. The monitoring well locations are shown on **Figure 1**. A representative from S&ME opened each well and measured the static water level from the top edge of the PVC casing. Since dedicated MicroPurge pumps were previously installed in each groundwater monitoring well as described in the monitoring well construction details reported in the "Baseline Groundwater Monitoring Report, Phase III" prepared by G.N. Richardson and Associates, dated May 1998, micro purge sampling techniques were used for groundwater sample collection. Monitoring well construction details from the same report were used to determine the volume of water in the monitoring wells. The groundwater elevation data are summarized in **Table 1**.

At each well, the purge rate and the drawdown of the water table were monitored as an indicator of how much stress the purging placed on the aquifer. The purge rates were calculated by recording the time required to fill a graduated cylinder. The purging flow rate was approximately 100 milliliters/minute (ml/min.). During purging, the depth to water was periodically monitored and recorded on the groundwater sampling field data sheets.

For the Phase III sampling event, the measured drawdown in the sampled wells is generally less than 2 feet. The field data sheets are included in **Appendix A**. **Table 2** summarizes the results of the field measurements.

Groundwater samples were collected from the dedicated Teflon tubing at each of the pumped wells. Immediately upon collection, each sample was placed into laboratory supplied containers, packed on ice, and placed under chain-of-custody. The sampling technician wore nitrile gloves, which were changed between wells to reduce the possibility of cross contamination. All samples collected from Phase III monitoring wells were analyzed for Appendix I volatile organic and inorganic constituents. Analyses were conducted by Environmental Conservation Laboratories, a North Carolina certified laboratory.

4.2 Statistical Analysis of Data

4.2.1 Software

All data were analyzed using *ChemStat 6.2* software package. The *ChemPoint 4.4* database management system was used to input and create the Data files based on the recent and historic laboratory data. The *ChemPoint* database is then converted to an ASCII tab delimited file for use by the *ChemStat* software. The following procedures were used to carry out temporal and spatial analyses of the data for each constituent.

4.2.2 Statistical Methods-Groundwater Analyses

In accordance with the DENR-Solid Waste Management Rules 15A NCAC 13B, Section 1632 (dated 1/7/97), several rounds of samples were collected from groundwater monitoring wells that comprise the Subtitle D monitoring well system and the analytical results were used to create a statistical baseline for statistically significant increases in constituent concentrations. This sampling round (April 2009) will be incorporated into the baseline for the next round of sampling.

The following procedure is used to analyze each new data set:
A descriptive statistics program is run to provide the following information about the data.

- mean
- standard deviation
- variance
- percentage non-detects
- Time versus concentration graphs were prepared for each detected parameter and

used to evaluate data trends and to identify potential data outliers.

- The detected parameter data sets were analyzed using non-parametric Upper Tolerance Limits (Inter-Well Comparisons) due to the large number of non-detects and the lack of normality. These methods have been proven to be reliable for large databases with a high portion of non-detect results.

4.3 Stream Sampling

Surface water sampling took place on April 13, 2009. Three stream samples (SW-1, SW-2 and SW-3) were collected in accordance with the approved site Sampling and Analysis Plan. The stream sample locations are indicated on **Figure 2**. The surface water samples were collected by immersing laboratory-supplied containers in the water to be sampled. After collection, the surface water samples were packed on ice and placed under chain-of-custody. All stream samples were analyzed for Appendix I inorganic and volatile organic constituents by Environmental Conservation Laboratories; a North Carolina certified laboratory.

5. RESULTS

5.1 Groundwater Analytical Results

The results of the laboratory analyses for Appendix I constituents in the Phase III area groundwater monitoring wells are summarized in **Table 3** and **Table 4**, with the complete laboratory reports included in **Appendix B**.

- No Appendix I volatile organic compound were detected at the sampled groundwater locations during this monitoring event.
- The Appendix I metals, arsenic, barium, cadmium, chromium, cobalt, copper, lead, nickel, silver, vanadium and zinc were detected at one or more of the 12 wells sampled in Phase III. Many of the reported concentrations of these metals were values between the Method Detection Limit (MDL) and the North Carolina Solid Waste Section Limit (SWSL) for the respective constituent and are therefore flagged as a "J" value and considered only estimated values.
- Barium was quantified (reported at a concentration greater than the SWSL) in three monitoring wells; however, the reported concentrations were below the corresponding NCAC 2L groundwater quality standard for Class GA groundwater.
- Currently, there is no established 15A NCAC 2L groundwater standard for beryllium, cobalt or vanadium. However, North Carolina has published a Groundwater Protection Standard (GPS) for beryllium, cobalt and vanadium, which is set at 4 μg/L, 70 μg/L and 3.5 μg/L, respectively. The GPS values have been established by toxicologists and are considered safe levels for the constituent of concern in private drinking water wells over a lifetime of consumption. Beryllium was only detected in the groundwater samples collected from monitoring well MW-19 during the current event at an estimated "J" flagged reported concentration. The estimated beryllium concentration is below the GPS for beryllium. Cobalt was only detected in the groundwater samples collected from monitoring wells MW-18 and MW-24 during the current event at estimated "J" flagged reported concentrations. The estimated cobalt concentrations are below the GPS for cobalt. Vanadium was detected in the

groundwater samples collected from monitoring wells MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-24, MW-25 and MW-25B during the current event at estimated "J" flagged reported concentrations. The reported estimated concentrations in monitoring wells MW-15, MW-16, MW-17, MW-18, MW-21, MW-22, MW-25 and MW-25B are below the GPS for vanadium. The estimated concentrations reported in the groundwater samples from monitoring wells MW-19, MW-20, and MW-24 are above the GPS for vanadium. S&ME previously prepared an Alternate Source Demonstration (ASD) for metals at the Facility. The ASD demonstrated that vanadium is naturally occurring in the in-situ soil at the Facility and is at sufficient concentrations within the soil to influence groundwater quality. Therefore, the exceedance of vanadium above the GPS should not reflect impact stemming from the Facility.

No other Appendix I metal was detected in any of the remaining Phase III monitoring wells sampled, on the dates the samples were collected.

5.2 Statistical Results

5.2.1 Overview of Database

The "Baseline Groundwater Monitoring Report, Phase III Cell, White Street Sanitary Landfill," prepared by G.N. Richardson & Associated, dated June 1998, summarizes the baseline monitoring data. The baseline monitoring samples were collected using the hand bailing procedures outlined in the approved Water Quality Monitoring Plan. Prior to the October 1998 monitoring event, but subsequent to the Baseline Groundwater Monitoring Report, the facility's approved Water Quality Monitoring Plan was modified to permit the use of dedicated MicroPurge pumps for monitoring well sample collection. This modification was approved by the North Carolina Department of Environment and Natural Resources (NCDENR) Solid Waste Section prior to conducting the monitoring event. Therefore, this monitoring event represents the eighteenth monitoring event using the MicroPurge pumps for sample acquisition.

In our statistical evaluation, non-detects are assigned values equal to their respective quantitation limits. This method of handling non-detects was used as part of the statistical analyses completed as part of the baseline water quality monitoring evaluations as set forth in the NC Solid Waste Section memo dated January 18, 1995.

5.2.2 Statistical Analyses

5.2.2.1 Descriptive Statistics

The descriptive statistics program calculates the pooled mean, background mean, pooled standard deviation, background standard deviation, rank sum, rank mean, and variance for each constituent detected in each well. The percentages of all sample analyses for which the concentrations are below the quantitation limits (non-detects) are also calculated by constituent for each well. The descriptive statistic report is included in **Appendix C**.

5.2.2.2 Time vs. Concentration Graphs

This graph displays a plot of the concentration of one parameter for a single well over time. The concentration is plotted along the vertical axis and the sample dates are plotted along the horizontal axis. The graphs are used to visually examine changes in concentration over time for a parameter at a given well. The graphs can be found in **Appendix D**.

The time vs. concentration graph for barium at wells MW-16, MW-22, and MW-24 indicate that the first detection of barium in these wells occurred during the 2007 groundwater monitoring year and appear to be only be the result of the promulgation of the new North Carolina SWSL levels which are lower than the former Practical Quantitation Limits (PQLs) which the SWSLs replaced. No meaningful data trends can be inferred from the data sets regarding projected future trends in monitoring wells MW-16 and MW-22. However, the time vs. concentration graph of the barium data set in monitoring well MW-24 shows a slight increasing trend in the concentration of barium in this well.

The time vs. concentration graphs for vanadium at wells MW-19, MW-20, and MW-24 do not show a clear trend in the monitoring data. As with barium, the detections of vanadium in the above listed wells appears to coincide with the promulgation of the new North Carolina SWSL levels in 2006 which are lower than the former Practical Quantitation Limits (PQLs) which the SWSLs replaced.

The time series plots discussed above are included in **Appendix D**.

Analytical data from future monitoring events will be used to re-evaluate the trends interpreted from the time series plots.

5.2.2.3 Interwell Statistical Comparisons

Non-parametric Upper Tolerance Intervals were calculated from the background data set to determine if any detected individual compliance parameter concentration represents a statistically significant increase over the historic background concentrations. This test method compares the analytical data from each compliance well during the current sampling event to Upper Limits computed from the pooled background data set.

5.2.2.4 Non-Parametric Tolerance Limits Test

In order to analyze the laboratory analytical results for evidence of statistically significant increases (SSIs) over background values, the data distribution of all of the detected monitored constituents was first analyzed. Due to the large size of the pooled historical results database, the Shapiro-Francia Test of Normality was utilized. This statistical test of data distribution can effectively determine if large data sets are parametrically or non-parametrically distributed.

For all of the analyzed data sets, the data distribution tests indicated a non-parametric distribution likely due to a relatively high percentage of non-detects in the analyzed database even at the 95% Confidence Level. As a result, Non-Parametric Upper Limits Computations were employed in order to calculate the appropriate Statistical Upper Limit

for each of the detected monitored parameters. Non-parametric Tolerance Limits were selected for use in calculation of the statistical Upper Limits. In order to determine if any individual parameter concentration detected during this monitoring event represent a statistically significant increase over the historic background concentrations, once the respective Upper Limit was obtained, the compliance data were compared via an Inter-Well Comparison to the Statistical Upper Limit to determine if an SSI may have occurred.

The Tolerance Limit Test results suggest that there were no statistically significant increases over the historic background concentrations for metals during the current monitoring event.

There were no volatile organic constituents detected in any of the Phase III groundwater monitoring wells during the current April 2009 groundwater monitoring event.

The computations used to calculate the normality of the data distribution are included in **Appendix E**. The Non-Parametric Upper Tolerance Limits are included in **Appendix F**.

5.3 Hydraulic Conductivity

In-situ hydraulic conductivity tests were performed by G.N. Richardson and Associates, Inc. (GNRA) on wells MW-16, MW-17, MW-18, MW-20, MW-21, MW-23, MW-25, during January 1998. The in-situ hydraulic conductivity tests were performed by GNRA on monitoring wells MW-15, MW-19, MW-22, MW-24, and MW-25d during March 1998. The data from these tests yielded hydraulic conductivity values ranging from 0.090 feet/day (in MW-24) to 3.269 feet/day (in MW-18). A complete discussion of the test methods and calculations was presented in the "Baseline Groundwater Monitoring Report, Phase III" prepared by G.N. Richardson and Associates, dated May 1998. This data is summarized on **Table 5** and was used to calculate groundwater flow velocities across the site.

5.4 Groundwater Flow Direction and Rate

The static water levels in the Phase III monitoring wells were measured in April 2009. The depth to the water table ranged from 2.40 feet to 26.99 feet below the top of well casing on these dates. Groundwater and well casing elevation data are presented in **Table 1** and summarized on **Figure 1**. A groundwater contour map was constructed using the data collected in April 2009 and is presented as **Figure 1**. Based on our field data, groundwater appears to be flowing north-northwest beneath the west half of Phase III and generally to the north-northeast in the eastern half of Phase III. The groundwater gradient at each well was calculated assuming a constant groundwater gradient along the flow line between adjacent groundwater elevation contours or between the compliance well and the upgradient well.

Based on a variation of Darcy's Law, the rate of groundwater movement within the regolith aquifer was calculated at each monitoring well using the following equation:

$$V = \frac{Ki}{n}$$

Where **V** = velocity (ft/day)
K = hydraulic conductivity (ft/ft)
i = groundwater gradient (ft/ft)
n =effective porosity (dimensionless)

Calculated hydraulic conductivity and gradient values and estimated effective porosity values for each well were used in the velocity calculations. The 20 percent effective porosity value is based on porosity and specific yield versus grain size distribution relationships presented in Fetter (1988), and is typical of the types of soils (predominantly silts and sandy silts with some clays) comprising the regolith at the landfill. The calculated groundwater velocities ranged from 0.009 ft/day at monitoring well MW-24 to 0.375 ft/day at monitoring well MW-18 and are summarized in **Table 5**.

5.5 Surface Water

The results of the laboratory analyses for Appendix I constituents in the surface water samples are summarized in **Table 6** and **Table 7**. The complete laboratory reports are included in **Appendix B**.

- No Appendix I volatile organic compounds were detected at the surface sample locations.
- Appendix I metals barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, and vanadium were detected at one or more of the surface water sample locations. The reported concentrations of these metals during the current surface water monitoring event were values between the Method Detection Limit (MDL) and the North Carolina Solid Waste Section Limit (SWSL) for the respective constituent and are therefore flagged as a "J" value and considered only estimated values. The reported estimated concentrations for zinc are less than the corresponding NCAC 2B surface water standards. Silver was detected solely at sample location SW-2 at a concentration greater than the corresponding NCAC 2B surface water standards. Sample location SW-2 is up stream of the White Street Landfill Facility and therefore not influenced by runoff and/or impacted groundwater from the Facility.

5.6 Leachate Sample Analytical Results

On April 13, 2008, a sample of leachate was collected from the wet well in Phase III. The collected sample was submitted for laboratory analyses for Appendix I Volatile Organic Compounds, Appendix I Metals, Nitrate, Sulfur, Sulfate, Phosphate, Biological Oxygen Demand and Chemical Oxygen Demand. **Table 8** provides a summary of the associated analytical results. The leachate analytical data is being collected to establish a database of common leachate constituents. The leachate analyses data from this event will be compared with subsequent events.

5.7 Quality Assurance

A duplicate sample was collected from monitoring well MW-19 and submitted for analysis as "Duplicate #3." This sample was analyzed for Appendix I inorganics and volatile organics. Except for the relatively low estimated concentrations of arsenic and beryllium, the detected constituents in MW-19 were consistent with those of "Duplicate #3," suggesting a good correlation between the sample analytical results. Trip blank

samples accompanied the sample bottles from the time they left the laboratory until they returned. These samples were analyzed for Appendix I volatile organic constituents. No volatile organic constituents were present in the trip blank samples at detectable levels. Laboratory QC samples were analyzed for all constituents included in this sampling event. The results of the duplicate, trip blank, and laboratory QC sample analyses are included in **Appendix B**. The NCDENR Environmental Monitoring Reporting Form is included in **Appendix G**.

6. REFERENCES

Fetter, C. W., 1988, Applied Hydrogeology, New York; Macmillan Publishing Company, 1988, 592 pp.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2L, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, Sections .0100, .0200, and .0300 (November 8, 1993); from the Environmental Management Commission Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2B, Classifications and Water Quality Standards Applicable to the Surface Waters of North Carolina, Section .0200 (April 1, 1991); from the Environmental Management Commission, Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Solid Waste Management, subchapter 13B, Solid Waste Management, Section .1600 (January 1, 1997).

TABLES

Table 1
Groundwater Elevation Data Summary (4/09)
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Well No.	Elevation TOC (feet)	Depth of Well (feet)	Static Water Levels			
			Apr-09		Dec-08	
			DTGW (feet)	Elevation (feet)	DTGW (feet)	Elevation (feet)
MW-15	794.81	60.0	26.99	767.82	28.57	766.24
MW-16	758.02	28.5	18.74	739.28	22.79	735.23
MW-17	755.05	31.5	9.36	745.69	14.07	740.98
MW-18	742.70	17.5	9.35	733.35	10.5	732.2
MW-19	740.70	35.0	12.18	728.52	20.18	720.52
MW-20	748.87	25.0	13.55	735.32	15.95	732.92
MW-21	743.32	18.5	3.85	739.47	7.41	735.91
MW-22	744.43	30.0	7.59	736.84	10.11	734.32
MW-23	744.25	33.5	8.28	735.97	13.00	731.25
MW-24	752.52	12.0	2.40	750.12	3.45	749.07
MW-25	746.47	17.0	11.46	735.01	13.84	732.63
MW-25B	746.19	32.0	12.03	734.16	13.79	732.4

TOC = Top of Casing. Elevations determined by survey: HDR Engineering, Inc.
Depth of well data as reported by HDR Engineering Inc. and G.N. Richardson & Associates
DTGW = Depth to Groundwater
Elevation = calculated groundwater elevation

Table 2
Groundwater & Surface Water Field Data Summary (4/09)
Phase III - White Street Landfill
White Street Landfill
S&ME Project No. 1584-98-081

Location: MW-15

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1550	15-Apr-09	15.42	59.8	7.02	0.482	-182	2.29	3.9	28.07
1555	15-Apr-09	15.15	59.3	7.89	0.438	-194	2.51	3.89	28.62
1600	15-Apr-09	15.04	59.1	7.9	0.432	-189	2.76	4.28	29.07
1605	15-Apr-09	14.96	58.9	7.88	0.432	-192	2.63	4.32	29.42

Location: MW-16

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1650	15-Apr-09	14.50	58.1	6.67	0.317	5	2.30	20.30	19.54
1655	15-Apr-09	14.19	57.5	6.61	0.317	47	2.13	20.20	19.79
1700	15-Apr-09	14.06	57.3	6.59	0.316	66	1.93	20.20	19.98
1705	15-Apr-09	13.93	57.1	6.59	0.316	93	1.81	14.48	20.25
1710	15-Apr-09	13.91	57.0	6.59	0.316	104	1.69	11.90	20.48
1715	15-Apr-09	13.90	57.0	6.59	0.316	114	1.76	10.78	20.69
1720	15-Apr-09	13.96	57.1	6.59	0.316	126	2.22	10.78	20.98
1725	15-Apr-09	13.94	57.1	6.59	0.316	132	2.01	11.01	21.29
1730	15-Apr-09	13.93	57.1	6.59	0.316	134	2.09	10.79	21.43
1735	15-Apr-09	13.93	57.1	6.59	0.317	134	2.33	10.60	21.59

Location: MW-17

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0735	16-Apr-09	11.56	52.8	6.54	0.190	136	3.96	8.03	9.95
0740	16-Apr-09	11.50	52.7	6.53	0.185	141	4.58	8.84	10.18
0745	16-Apr-09	11.34	52.4	6.52	0.185	144	4.26	8.36	10.37
0750	16-Apr-09	11.30	52.3	6.52	0.185	146	3.80	8.41	10.31
0755	16-Apr-09	11.30	52.3	6.51	0.184	147	3.45	8.44	10.38
0800	16-Apr-09	11.31	52.4	6.51	0.184	148	3.26	8.13	

Location: MW-18

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0835	16-Apr-09	10.52	50.9	7.48	0.285	54	7.10	10.85	9.57
0840	16-Apr-09	10.43	50.8	7.00	0.294	42	2.96	487	9.58
0845	16-Apr-09	10.53	51.0	6.88	0.285	56	2.47	654	
0850	16-Apr-09	11.05	51.9	6.84	0.277	61	3.35	418	
0855	16-Apr-09	11.09	52.0	6.67	0.260	49	2.38	46.6	10.10
0900	16-Apr-09	11.17	52.1	6.69	0.259	49	3.39	21.3	9.95
0905	16-Apr-09	11.30	52.3	6.72	0.262	38	2.06	23.1	
0910	16-Apr-09	11.26	52.3	6.70	0.260	37	2.55	17.84	9.73
0915	16-Apr-09	11.38	52.5	6.68	0.258	39	2.04	19.67	
0920	16-Apr-09	11.50	52.7	6.67	0.255	43	2.01	19.01	
0925	16-Apr-09	11.31	52.4	6.64	0.252	47	2.09	17.36	

Location: MW-19

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0815	15-Apr-09	13.03	55.5	6.53	0.312	73	7.17	7.99	12.28
0820	15-Apr-09	13.22	55.8	6.46	0.302	76	6.42	8.01	12.30
0825	15-Apr-09	13.59	56.5	6.52	0.298	80	5.24	9.4	12.31
0830	15-Apr-09	13.89	57.0	6.52	0.295	84	4.92	9.16	12.30
0835	15-Apr-09	13.96	57.1	6.53	0.294	88	4.92	8.04	--
0840	15-Apr-09	13.98	57.2	6.55	0.296	90	4.96	8.5	--

Location: MW-20

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1050	15-Apr-09	13.53	56.4	6.99	0.654	64	3.51	5.11	13.71
1055	15-Apr-09	13.45	56.2	6.97	0.691	64	1.69	5.3	13.69
1100	15-Apr-09	13.70	56.7	6.97	0.684	70	1.09	5.38	13.78
1105	15-Apr-09	13.80	56.8	6.97	0.677	72	0.95	4.57	13.79
1110	15-Apr-09	13.95	57.1	6.96	0.670	74	0.87	4.07	13.75
1115	15-Apr-09	13.90	57.0	6.96	0.664	75	0.82	4.64	

Table 2
Groundwater & Surface Water Field Data Summary (4/09)
Phase III - White Street Landfill
White Street Landfill
S&ME Project No. 1584-98-081

Location: MW-21

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1135	15-Apr-09	15.64	60.2	6.68	0.215	74	4.88	5.70	4.19
1140	15-Apr-09	15.09	59.2	6.54	0.176	95	2.82	5.47	4.24
1145	15-Apr-09	14.92	58.9	6.53	0.177	96	3.19	5.31	4.23
1150	15-Apr-09	14.69	58.4	6.52	0.168	101	2.50	4.80	4.24
1155	15-Apr-09	14.76	58.6	6.52	0.161	103	2.35	4.96	

Location: MW-22

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1230	15-Apr-09	15.26	59.5	7.78	0.465	-183	5.64	7.05	8.48
1235	15-Apr-09	15.27	59.5	7.43	0.514	-182	2.72	32	8.85
1240	15-Apr-09	15.23	59.4	7.40	0.516	-176	2.04	66.7	9.14
1245	15-Apr-09	15.55	60.0	7.14	0.520	-173	1.73	73.2	9.39
1250	15-Apr-09	15.68	60.2	7.41	0.522	-168	1.56	75.1	9.58
1255	15-Apr-09	16.15	61.1	7.42	0.525	-168	1.43	79.9	

Location: MW-23

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1320	15-Apr-09	15.44	59.8	8.04	0.568	-39	3.45	14.08	9.11
1325	15-Apr-09	15.56	60.0	7.96	0.568	-109	3.05	7.07	9.52
1330	15-Apr-09	15.55	60.0	7.95	0.569	-125	3.23	5.07	9.69
1335	15-Apr-09	15.38	59.7	7.95	0.568	-128	3.33	3.98	9.91
1340	15-Apr-09	15.21	59.4	7.96	0.566	-122	3.70	3.72	10.08

Location: MW-24

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1415	15-Apr-09	14.48	58.1	7.25	1.137	46	4.40	4.57	3.11
1420	15-Apr-09	14.42	58.0	7.17	1.178	58	3.39	4.53	3.41
1425	15-Apr-09	14.34	57.8	7.15	1.181	64	3.11	3.41	3.63
1430	15-Apr-09	14.39	57.9	7.14	1.182	72	3.83	3.93	3.80
1435	15-Apr-09	14.59	58.3	7.14	1.182	77	4.25	3.5	3.83
1440	15-Apr-09	14.79	58.6	7.14	1.182	80	4.53	3.68	3.84
1445	15-Apr-09	14.99	59.0	7.15	1.182	84	4.91	3.72	3.85
1450	15-Apr-09	15.45	59.8	7.17	1.182	90	5.57	3.06	
1455	15-Apr-09	15.38	59.7	7.17	1.180	94	4.65	3.89	
1500	15-Apr-09	14.60	58.3	7.16	1.181	95	3.55	4.53	
1505	15-Apr-09	14.27	57.7	7.25	1.181	103	3.94	3.66	
1510	15-Apr-09	14.02	57.2	7.30	1.181	107	4.36	3.28	
1515	15-Apr-09	13.99	57.2	7.30	1.181	110	4.55	3.03	
1520	15-Apr-09	13.94	57.1	7.30	1.181	111	4.55	2.98	

MW-25

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0910	15-Apr-09	13.56	56.4	6.42	0.151	67	8.62	6.59	11.80
0915	15-Apr-09	14.01	57.2	6.39	0.149	78	8.50	5.34	11.89
0920	15-Apr-09	14.24	57.6	6.42	0.149	87	8.80	5.40	11.94
0925	15-Apr-09	14.11	57.4	6.44	0.150	94	8.86	6.70	12.03
0930	15-Apr-09	13.46	56.2	6.41	0.151	100	8.89	5.88	12.01
0935	15-Apr-09	13.74	56.7	6.74	0.151	95	8.91	5.42	12.04

MW-25B

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0955	15-Apr-09	14.82	58.7	7.24	0.141	29	7.60	6.51	12.45
1000	15-Apr-09	14.41	57.9	6.87	0.158	63	8.28	5.48	12.40
1005	15-Apr-09	14.12	57.4	6.84	0.161	76	8.09	6.42	12.35
1010	15-Apr-09	14.47	58.0	6.81	0.163	84	7.44	6.38	
1015	15-Apr-09	14.37	57.9	6.80	0.165	90	7.89	5.77	
1020	15-Apr-09	14.18	57.5	6.79	0.166	93	7.34	5.87	
1025	15-Apr-09	14.14	57.5	6.79	0.166	94	7.31	6.01	

Table 3

Groundwater Analytical Results Summary (4/09)
Appendix I - Volatile Organic Compounds
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Compound	Sample Locations													NC SWSL	NCAC 2L
	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-25B	DUP#3	(µg/l)	stds.
All Target Compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	700

NC SWSL= North Carolina Solid Waste Section Limit
J = Parameters are estimated values between the detection limit and the NC SWSL.
ND = Compound not detected in sample
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in yellow were detected above the NC SWSL
Quantities highlighted in orange were detected above the 2L standards

Table 4
Groundwater Analytical Results Summary (4/09)
Appendix I - Metals
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Compound	Sample Locations													NC SWSL (µg/l)	NCAC 2L stds.	NCPHG or GPS
	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-25B	DUP#3			
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5 J	3.0 J	10	50	
Barium	27.9 J	148	57.6 J	34.3 J	32.7 J	62.7 J	30.2 J	207	59.4 J	447	22.8 J	19.1 J	42.4 J	100	2000	
Beryllium	ND	ND	ND	ND	0.09 J	ND	ND	ND	ND	ND	ND	ND	ND	1	ns	4
Cadmium	0.12 J	ND	0.13 J	0.10 J	0.26 J	0.15 J	0.15 J	0.09 J	0.21 J	0.28 J	ND	ND	0.11 J	1	1.75	
Chromium	ND	ND	2.6 J	ND	1.6 J	0.8 J	1.2 J	0.9 J	0.7 J	0.8 J	1.0 J	2.1 J	1.8 J	10	50	
Cobalt	ND	ND	ND	8.7 J	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND	10	ns	70
Copper	ND	0.99 J	ND	ND	ND	ND	ND	1.62 J	ND	ND	0.98 J	ND	ND	10	1000	
Lead	2.3 J	ND	ND	ND	3.0 J	ND	ND	2.2 J	ND	2.6 J	ND	ND	3.3 J	10	15	
Nickel	ND	2.4 J	1.2 J	0.7 J	1.4 J	3.6 J	1.4 J	ND	0.6 J	3.9 J	1.4 J	ND	1.5 J	50	100	
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5 J	ND	ND	ND	10	17.5	
Vanadium	0.8 J	2.1 J	3.0 J	2.5 J	4.7 J	5.7 J	0.7 J	1.0 J	ND	3.8 J	0.8 J	3.2 J	5.3 J	25	ns	3.5
Zinc	4.2 J	6.2 J	6.4 J	ND	5.1 J	ND	ND	3.5 J	ND	5.8 J	4.1 J	3.6 J	11.3	10	1050	

NC SWSL= North Carolina Solid Waste Section Limit
ND = Compound not detected in sample
NA = compound not analyzed due to well being dry
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
If a NCAC 2L is not established the Groundwater Protection Standard is used
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
all concentrations reported in micrograms per liter (ug/L)
Quantities highlighted in yellow were detected above the NC SWSL
Quantities highlighted in orange were detected above the 2L standards
Blue highlights indicate a measurement higher than the North Carolina Public Health Goal Standard or Groundwater Protection Standard

Table 5
Groundwater Velocity Data (4/09)
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Well No.	Hydraulic Conductivity (K = feet/day)	Porosity (n = %)	Gradient (I = feet/feet)	Groundwater Velocity (V= feet/day)
MW-15	0.265	0.20	0.017	0.022
MW-16	0.331	0.20	0.019	0.031
MW-17	0.160	0.20	0.016	0.013
MW-18	3.269	0.20	0.023	0.375
MW-19	0.716	0.20	0.016	0.056
MW-20	1.336	0.20	0.018	0.123
MW-21	0.681	0.20	0.018	0.060
MW-22	0.325	0.20	0.018	0.029
MW-23	0.173	0.20	0.032	0.028
MW-24	0.090	0.20	0.020	0.009
MW-25	2.088	0.20	0.026	0.277
MW-25d	0.827	0.20	NA	NA

Notes: Hydraulic Conductivity's from slug test data: G.N. Richardson & Associates
Porosity values from published literature, based on soil types
Velocity calculated using V = KI/n
NA = Not Applicable, deeper aquifer monitoring well

TABLE 6
SURFACE WATER ANALYTICAL RESULTS SUMMARY (4/09)
APPENDIX I - VOLATILE ORGANIC COMPOUNDS
PHASE III - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations			15A NCAC 2B Standards*	NC SWSL
	SW-1	SW-2	SW-3		
all target compounds	ND	ND	ND	ns	100

NC SWSL = North Carolina Solid Waste Section Limit
ND = Parameter not detected
** = Title 15A NCAC 2B Standards for Class B, C surface water*
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = Title 15A NCAC 2B provides no established standard for these constituents
Yellow highlights indicate a measurement higher than the NC SWSL.
Orange highlights indicate a measurement higher than 2B standards.

TABLE 7
SURFACE WATER ANALYTICAL RESULTS SUMMARY (4/09)
APPENDIX I - METALS
PHASE III - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations			15A NCAC 2B	NC SWSL
	SW-1	SW-2	SW-3	Standards*	(µg/l)
Barium	**48.1 J**	**53.4 J**	**44.8 J**	ns	100
Beryllium	**0.10 J**	ND	ND	6.5	1
Cadmium	**0.19 J**	**0.14 J**	**0.17 J**	0.4	1
Chromium	**1.5 J**	**1.4 J**	**1.6 J**	50	10
Cobalt	ND	**1.8 J**	**0.7 J**	ns	10
Copper	**1.06 J**	**1.93 J**	**2.56 J**	7	10
Lead	**2.2 J**	**2.3 J**	**2.5 J**	25	10
Nickel	**1.0 J**	**2.3 J**	**1.5 J**	88	50
Silver	ND	**4.2 J**	ND	0.06	10
Vanadium	**1.7 J**	ND	**2.1 J**	ns	25
Zinc	**14.5**	24.9	21.4	50	10

NC SWSL = North Carolina Solid Waste Section Limit
ND = Parameter not detected
** = Title 15A NCAC 2B Standards for Class B, C surface water*
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = Title 15A NCAC 2B provides no established standard for these constituents
Yellow highlights indicate a measurement higher than the NC SWSL.
Orange highlights indicate a measurement higher than 2B standards.

Table 8

Leachate Sample Analytical Results Summary
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Appendix I Volatile Organic Compounds

Parameter	"Leachate" September-00 (µg/L)	"Wet Well" March-01 (µg/L)	"Leachate" Septebmer-01 (µg/L)	"Leachate" March-02 (µg/L)	"Leachate" September-02 (µg/L)	"Leachate" April-03 (µg/L)	"Leachate" October-03 (µg/L)	"Leachate" March-04 (µg/L)	"Leachate" October-04 (µg/L)	"Leachate" May-05 (µg/L)	"Leachate" October-05 (µg/L)	"Leachate" April-06 (µg/L)	"Leachate" April-07 (µg/L)	"Leachate" April-08 (µg/L)	"Leachate" December-08 (µg/L)	"Leachate" April-09 (µg/L)	NC SWSL (µg/L)
Chloroethane	BQL*	BQL*	BQL**	17	BQL*	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL*	BQL*	BQL	BQL*	BQL*	10
Trichlorofluoromethane	BQL*	BQL*	BQL**	7.0	BQL*	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL*	BQL*	BQL	BQL*	BQL*	1
Acetone	BQL*	BQL*	1400	BQL	BQL*	490*	830*	BQL*	BQL*	BQL*	BQL*	1780**	6800*	1400	11000*	4100*	100
Methylene Chloride	97	120	BQL**	37	BQL*	BQL*	13	BQL*	BQL*	BQL*	BQL*	BQL*	BQL*	BQL	BQL*	BQL*	1
1,1-Dichloroethane	46	BQL*	BQL**	30	28	27*	5.2	BQL*	BQL*	BQL*	BQL*	BQL*	BQL*	BQL	BQL*	BQL*	5
cis 1,2-dichloroethene	BQL*	BQL*	BQL**	6.4	BQL*	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL*	BQL*	BQL	BQL*	BQL*	5
4-Methyl-2-pentanone	BQL*	BQL*	BQL**	BQL	BQL*	BQL	BQL	BQL*	BQL*	BQL	BQL*	BQL*	BQL	140	580*	220*	100
2-Hexanone	BQL*	BQL*	BQL**	BQL	BQL*	BQL	BQL	BQL*	BQL*	BQL	BQL*	BQL*	BQL	6.0	BQL*	BQL*	50
2-Butanone	BQL*	BQL*	2600	BQL	BQL*	1100*	1200*	BQL*	BQL*	BQL*	BQL*	1650*	7500*	2000	12000*	5100*	100
1,1,1-Trichloroethane	BQL*	BQL*	BQL**	8.2	BQL*	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL*	BQL*	BQL	BQL*	BQL*	1
Benzene	BQL*	BQL*	BQL**	10	BQL*	BQL*	8.1	BQL*	BQL*	BQL*	BQL*	BQL*	BQL*	8.4	BQL*	BQL*	1
Trichloroethene	BQL*	BQL*	BQL**	7.5	BQL*	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL*	BQL*	BQL	BQL*	BQL*	1
Toluene	350	220	390	190*	220*	220*	240*	400	BQL*	73	55	12.8*	150*	41	310*	86*	1
Ethylbenzene	49	BQL*	BQL**	60	48*	56*	40	46	BQL*	31	BQL*	18.2*	87 J	48	120*	120*	1
Total Xylenes	154	65	110	186	127	157	116	142	38	69	56	48.8	240	120	440*	280*	5
1,4-Dichlorobenzene	BQL*	BQL*	BQL**	6.0	BQL*	BQL*	5.4	BQL*	BQL*	BQL*	BQL*	BQL*	BQL	13	BQL*	31*	1

Appendix I Metals

Compound	"Leachate" September-00 (ug/L)	"Wet Well" March-01 (ug/L)	"Leachate" September-01 (ug/L)	"Leachate" March-02 (ug/L)	"Leachate" September-02 (ug/L)	"Leachate" April-03 (ug/L)	"Leachate" October-03 (ug/L)	"Leachate" March-04 (µg/L)	"Leachate" October-04 (µg/L)	"Leachate" May-05 (µg/L)	"Leachate" October-05 (µg/L)	"Leachate" April-06 (µg/L)	"Leachate" April-07 (µg/L)	"Leachate" April-08 (mg/L)	"Leachate" December-08 (mg/L)	"Leachate" April-09 (µg/L)	NC SWSL (ug/L)
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	56.1	19.2	19.6	76.9	6
Arsenic	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	23.4	23.4	2.5 J	26.4	282	10
Barium	580	BQL	550	580	740	590	BQL	BQL	570	BQL	BQL	678	609	762	577	544	100
Cadmium	5	21	9.7	13	16	1.6	2.2	2.3	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.32J	1
Chromium	10	BQL	13	23	27	15	BQL	16	BQL	BQL	BQL	14.7	35	BQL	7 JB	54.7	10
Cobalt	BQL	BQL	13	25	23	BQL	BQL	18	BQL	BQL	BQL	26.6	25.8	25.8	25.1	22.3	10
Lead	BQL	BQL	BQL	BQL	13	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4.9 J	3.1 J	2.1 J	5.8 J	10
Nickel	BQL	BQL	BQL	110	99	75	BQL	BQL	61	300	BQL	1189	164	189	177	137	50
Silver	BQL	BQL	BQL	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.9 J	1.2 J	10
Vanadium	BQL	BQL	58	45	89	41	BQL	BQL	BQL	BQL	BQL	54	36.2	12.5 J	25	43.1	25
Zinc	120	BQL	50	80	290	100	BQL	BQL	BQL	250	BQL	97.2	87.8	54.8	29.3	51.1	10

Miscellaneous Parameters

Compound	"Leachate" September-00 (mg/L)	"Wet Well" March-01 (mg/L)	"Leachate" September-01 (mg/L)	"Leachate" March-02 (mg/L)	"Leachate" September-02 (mg/L)	"Leachate" April-03 (mg/L)	"Leachate" October-03 (mg/L)	"Leachate" March-04 (mg/L)	"Leachate" October-04 (mg/L)	"Leachate" May-05 (mg/L)	"Leachate" October-05 (mg/L)	"Leachate" April-06 (mg/L)	"Leachate" April-07 (mg/L)	"Leachate" April-08 (mg/L)	"Leachate" December-08 (mg/L)	"Leachate" April-09 (µg/L)	NC SWSL (mg/L)
Nitrate	BQL	BQL	BQL	400	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2	0.46	no data	BQL	0.054 J	10
Nitrite	BQL	BQL	50	BQL	BQL	no data	no data	ND	<0.10	no data	no data	2	0.032 J	no data	0.013 J	0.015 J	1
Sulfate	BQL	BQL	2 J	BQL	BQL	11	2.9	4.2	2.3	11.3	2.2	5	3.1 J	3.1 J	3.3 J	2.5 J	250
Phosphorous	5.43	260	1	330	0.83	2.5	0.28	0.78	0.93	4.3	1.2	3	3.6	2.3	1.7	1.8	NE
pH	ND	6.4	6.5	6.6	6.4	7 Q	6.9 Q	6.5 Q	6.6 Q	7.2 Q	6.9 Q	7.09	6.6	7	7.1	6.8	NE
BOD	22.6	300	83	44	19	59J	330	56	34	119J	27.7	200	3400	960	1900	1100	NE
COD	166	580	330	200	210	690	390	220	240	1,810	425	1340	5400	1900	4300	2500	NE

J = Analyte detected; value is between the Method Detection Limit (MDL) and PQL

Parameters highlighted in yellow exceed the NC SWSL.

NE = Not Established

BQL = Analytical results is less than the corresponding PQL/SWSL

BQL* = Analyte Value Determined with sample dilution

NC SWSL=North Carolina Solid Waste Section Limit

FIGURES

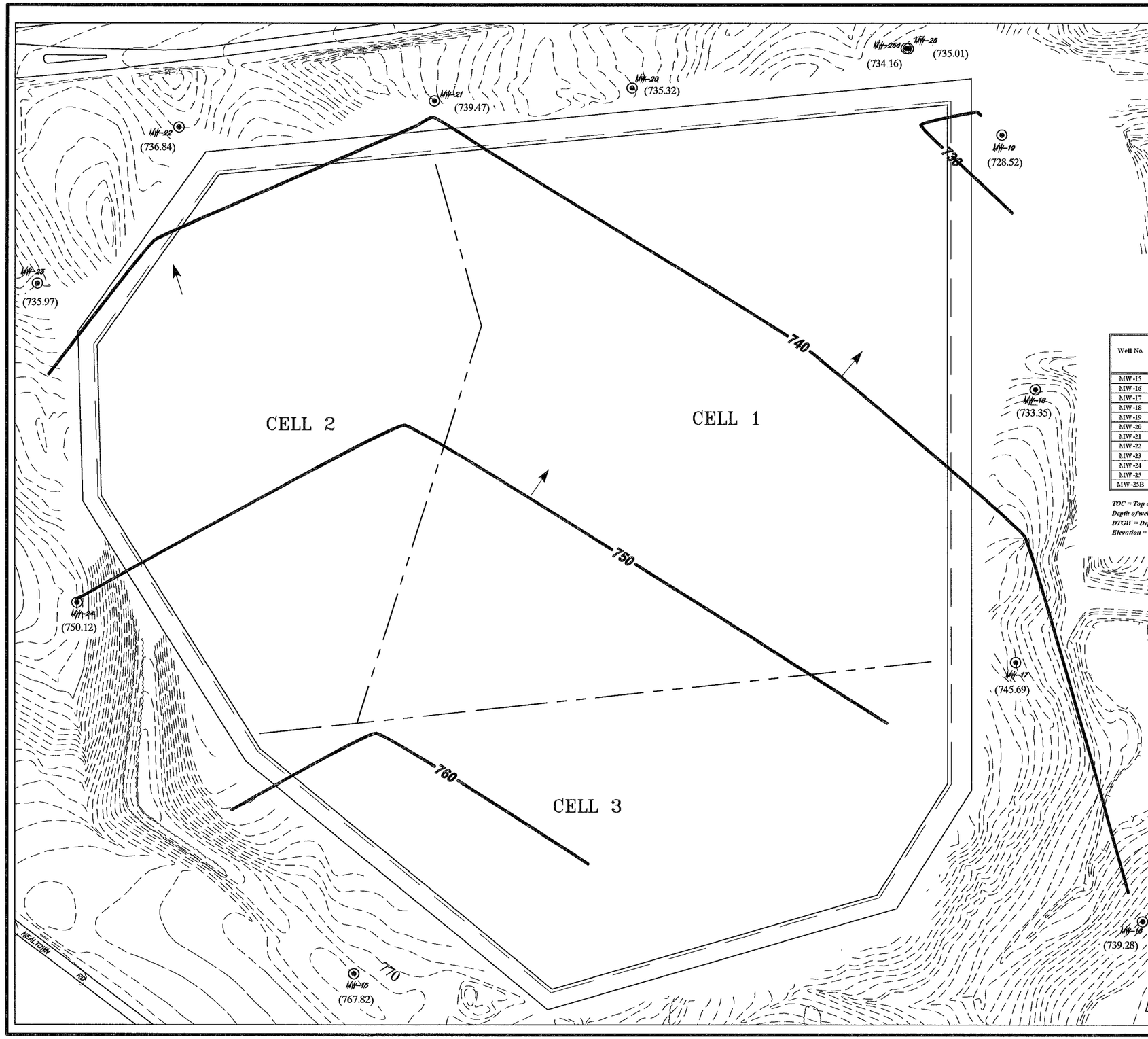

Table 1
Groundwater Elevation Data Summary (4/09)
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Well No.	Elevation TOC (feet)	Depth of Well (feet)	Static Water Levels			
			Apr-09		Dec-08	
			DTGW (feet)	Elevation (feet)	DTGW (feet)	Elevation (feet)
MW-15	794.81	60.0	26.99	767.82	28.57	766.24
MW-16	758.02	28.5	18.74	739.28	22.79	735.23
MW-17	755.05	31.5	9.36	745.69	14.07	740.98
MW-18	742.70	17.5	9.35	733.35	10.5	732.2
MW-19	740.70	35.0	12.18	728.52	20.18	720.52
MW-20	748.87	25.0	13.55	735.32	15.95	732.92
MW-21	743.32	18.5	3.85	739.47	7.41	735.91
MW-22	744.43	30.0	7.59	736.84	10.11	734.32
MW-23	741.25	33.5	5.28	735.97	13.00	731.25
MW-24	752.52	12.0	2.40	750.12	3.45	749.07
MW-25	746.47	17.0	11.46	735.01	13.84	732.63
MW-25B	746.19	32.0	12.03	734.16	13.79	732.4

TOC = Top of Casing. Elevations determined by survey: HDR Engineering, Inc.
Depth of well data as reported by HDR Engineering Inc. and G.N. Richardson & Associates
DTGW = Depth to Groundwater
Elevation = calculated groundwater elevation

LEGEND

- MONITOR WELL LOCATION
- ESTIMATED GROUNDWATER ELEVATION (MARCH 2000)
- PROPERTY LINE
- CELL LIMITS
- APROXIMATE GROUNDWATER FLOW DIRECTION
- (734.88) GROUNDWATER ELEVATION AS CALCULATED FOR THE 5/06 EVENT

NOTES:

1. TOPOGRAPHY PROVIDED BY BRADY SURVEYING CO. FROM AERIAL PHOTOGRAPHY DATED NOVEMBER 9, 1994 FACILITY AREA UPDATED MAY 18, 1996.
2. PLANIMETRIC FEATURES PROVIDED BY GUILFORD COUNTY MAPS DATED 1991.
3. BOUNDARY SURVEY PROVIDED BY CITY OF GREENSBORO DATED DECEMBER 27, 1994

-100 0 50 100 200

SCALE: 1"=200'

GROUNDWATER FLOW MAP
PHASE III
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

CHECKED BY:	ALB
FIGURE NO.	1
DRAWN BY:	CLD/RDM
DATE:	MAY 2009
SCALE:	AS SHOWN
JOB NO.	1584-98-081

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING · TESTING

STREAM SAMPLE LOCATION
PHASE III
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: DSB/RDM	CHECKED BY: LE	
JOB NO. 1584-98-081	DATE: NOVEMBER 2007	FIGURE NO. 2	

S&ME
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ENGINEERING · TESTING

APPENDIX A

Field Sampling Data Sheets

NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES
SOLID WASTE LANDFILL ANALYTICAL REPORTING FORM
WHITE STREET LANDFILL - PHASE III
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Monitoring Well Samples

FACILITY PERMIT	WELL ID	SWS ID	CAS Number	PARAMETER	RESULT	UNITS	COLLECT DATE	Time of Sampling	Sampler(s)
41-12	MW-15	318	318	DTW	26.99	feet	04/15/2009	1610	G. Simcox
41-12	MW-15	320	320	pH	7.88	stu	04/15/2009	1610	G. Simcox
41-12	MW-15	323	323	Specific Cond.	0.432	umhos/cm	04/15/2009	1610	G. Simcox
41-12	MW-15	325	325	Temperature	14.96	oC	04/15/2009	1610	G. Simcox
41-12	MW-16	318	318	DTW	18.74	feet	04/15/2009	1740	G. Simcox
41-12	MW-16	320	320	pH	6.59	stu	04/15/2009	1740	G. Simcox
41-12	MW-16	323	323	Specific Cond.	0.317	umhos/cm	04/15/2009	1740	G. Simcox
41-12	MW-16	325	325	Temperature	13.93	oC	04/15/2009	1740	G. Simcox
41-12	MW-17	318	318	DTW	9.36	feet	04/16/2009	0805	G. Simcox
41-12	MW-17	320	320	pH	6.51	stu	04/16/2009	0805	G. Simcox
41-12	MW-17	323	323	Specific Cond.	0.184	umhos/cm	04/16/2009	0805	G. Simcox
41-12	MW-17	325	325	Temperature	11.31	oC	04/16/2009	0805	G. Simcox
41-12	MW-18	318	318	DTW	9.35	feet	04/16/2009	930	G. Simcox
41-12	MW-18	320	320	pH	6.64	stu	04/16/2009	930	G. Simcox
41-12	MW-18	323	323	Specific Cond.	0.252	umhos/cm	04/16/2009	930	G. Simcox
41-12	MW-18	325	325	Temperature	11.31	oC	04/16/2009	930	G. Simcox
41-12	MW-19	318	318	DTW	12.18	feet	04/15/2009	845	G. Simcox
41-12	MW-19	320	320	pH	6.55	stu	04/15/2009	845	G. Simcox
41-12	MW-19	323	323	Specific Cond.	0.296	umhos/cm	04/15/2009	845	G. Simcox
41-12	MW-19	325	325	Temperature	13.98	oC	04/15/2009	845	G. Simcox
41-12	MW-20	318	318	DTW	13.55	feet	04/15/2009	1120	G. Simcox
41-12	MW-20	320	320	pH	6.96	stu	04/15/2009	1120	G. Simcox
41-12	MW-20	323	323	Specific Cond.	0.664	umhos/cm	04/15/2009	1120	G. Simcox
41-12	MW-20	325	325	Temperature	13.9	oC	04/15/2009	1120	G. Simcox
41-12	MW-21	318	318	DTW	3.85	feet	04/15/2009	1200	G. Simcox
41-12	MW-21	320	320	pH	6.52	stu	04/15/2009	1200	G. Simcox
41-12	MW-21	323	323	Specific Cond.	0.161	umhos/cm	04/15/2009	1200	G. Simcox
41-12	MW-21	325	325	Temperature	14.76	oC	04/15/2009	1200	G. Simcox
41-12	MW-22	318	318	DTW	7.59	feet	04/15/2009	1300	G. Simcox
41-12	MW-22	320	320	pH	7.42	stu	04/15/2009	1300	G. Simcox
41-12	MW-22	323	323	Specific Cond.	0.525	umhos/cm	04/15/2009	1300	G. Simcox
41-12	MW-22	325	325	Temperature	16.15	oC	04/15/2009	1300	G. Simcox

NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES
SOLID WASTE LANDFILL ANALYTICAL REPORTING FORM
WHITE STREET LANDFILL - PHASE III
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Monitoring Well Samples

FACILITY PERMIT	WELL ID	SWS ID	CAS Number	PARAMETER	RESULT	UNITS	COLLECT DATE	Time of Sampling	Sampler(s)
41-12	MW-23	318	318	DTW	8.28	feet	04/15/2009	1345	G. Simcox
41-12	MW-23	320	320	pH	7.96	stu	04/15/2009	1345	G. Simcox
41-12	MW-23	323	323	Specific Cond.	0.566	umhos/cm	04/15/2009	1345	G. Simcox
41-12	MW-23	325	325	Temperature	15.21	oC	04/15/2009	1345	G. Simcox
41-12	MW-24	318	318	DTW	2.4	feet	04/15/2009	1525	G. Simcox
41-12	MW-24	320	320	pH	7.3	stu	04/15/2009	1525	G. Simcox
41-12	MW-24	323	323	Specific Cond.	1.181	umhos/cm	04/15/2009	1525	G. Simcox
41-12	MW-24	325	325	Temperature	13.93	oC	04/15/2009	1525	G. Simcox
41-12	MW-25	318	318	DTW	11.46	feet	04/15/2009	0940	G. Simcox
41-12	MW-25	320	320	pH	6.42	stu	04/15/2009	0940	G. Simcox
41-12	MW-25	323	323	Specific Cond.	0.151	umhos/cm	04/15/2009	0940	G. Simcox
41-12	MW-25	325	325	Temperature	13.74	oC	04/15/2009	0940	G. Simcox
41-12	MW-25b	318	318	DTW	12.03	feet	04/15/2009	1030	G. Simcox
41-12	MW-25b	320	320	pH	6.79	stu	04/15/2009	1030	G. Simcox
41-12	MW-25b	323	323	Specific Cond.	0.166	umhos/cm	04/15/2009	1030	G. Simcox
41-12	MW-25b	325	325	Temperature	14.14	oC	04/15/2009	1030	G. Simcox

Surface Water Samples

FACILITY PERMIT	WELL ID	SWS ID	CAS Number	PARAMETER	RESULT	UNITS	COLLECT DATE	Time of Sampling	Sampler(s)
41-12	SW-2	318	318	DTW	NA	feet	04/13/2009	1130	G. Simcox
41-12	SW-2	320	320	pH	8.01	stu	04/13/2009	1130	G. Simcox
41-12	SW-2	323	323	Specific Cond.	19.8	umhos/cm	04/13/2009	1130	G. Simcox
41-12	SW-2	325	325	Temperature	12.2	oC	04/13/2009	1130	G. Simcox
41-12	SW-3	318	318	DTW	NA	feet	04/13/2009	1205	G. Simcox
41-12	SW-3	320	320	pH	8.13	stu	04/13/2009	1205	G. Simcox
41-12	SW-3	323	323	Specific Cond.	23.8	umhos/cm	04/13/2009	1205	G. Simcox
41-12	SW-3	325	325	Temperature	14.3	oC	04/13/2009	1205	G. Simcox

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-15
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 1610
(PVC) Steel Stainless
Weather: Cloudy
Sampled By: GWS
Air Temp: 60°

Water Level and Well Data

Depth to water from measuring point: 26.99 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: Pump

Sample Method: Pump

Sample Collection Time
Start _____ Stop _____

Purge Rate: <100 ml liter/min

Purge Time
Start 1545 Stop 1605

control settings changes? 3 on 27 off @ 36 psi

cycles _____

duration _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 3 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	1550	1555	1600	1605				
Temp	15.42	15.15	15.04	14.96				
pH	7.82	7.89	7.90	7.88				
Conductivity	.482	.438	.432	.432				
ORP*	-182	-194	-189	-192				
D.O.*	2.29	2.51	2.76	2.63				
Turbidity*	3.90	3.89	4.28	4.32				
Water Level	28.07	28.62	29.07	29.42				

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-16
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 1740
(PVC) Steel Stainless
Weather: CLOUDY 55°
Sampled By: GWS
Air Temp:

Water Level and Well Data

Depth to water from measuring point: 18.84 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 1645 Stop 1735

Purge Rate: <100 mliter/min

control settings changes?: 2.5 on 27 off @ 24 psi

cycles: _____

duration: _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed _____ gallon (liters)

Was well purged dry Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	1650	1655	1700	1705	1710	1715	1720	1725	1730	173
Temp	14.50	14.19	14.06	13.93	13.91	13.90	13.96	13.94	1393	13.9
pH	6.67	6.61	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.5
Conductivity	.317	.317	.316	.316	.316	.316	.316	.316	.316	.317
ORP*	5	47	66	93	104	114	126	132	134	134
D.O.*	2.30	2.13	1.93	1.81	1.69	1.76	2.22	2.01	2.09	2.3
Turbidity*	20.3	20.2	20.2	14.48	11.9	10.78	10.78	11.01	10.79	10.6
Water Level	19.54	19.79	19.98	20.25	20.48	20.69	20.98	21.29	21.43	21.8

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/16/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-17
Sample Date: 4/16/09
Locked? (Yes) No
Sample Time: 0805
(PVC) Steel Stainless
Weather: CLEAR / COOL
Sampled By: GWS
Air Temp: 45°

Water Level and Well Data

Depth to water from measuring point: 9.36 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 0730 Stop 0800

Purge Rate: <100 ml liter/min

control settings changes?: 3 on 27 off @ 24 psi

cycles: _____

duration: _____

Volume of Water in well
2" well (volume = 0.163 x h): _____
4" well (volume = 0.651 x h): _____

Volume of water removed: 4 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	0735	0740	0745	0750	0755	0800		
Temp	11.56	11.50	11.34	11.30	11.30	11.31		
pH	6.54	6.53	6.52	6.52	6.51	6.51		
Conductivity	.190	.185	.185	.185	.184	.189		
ORP*	136	141	144	146	147	148		
D.O.*	3.96	4.58	4.26	3.80	3.45	.326		
Turbidity*	8.03	8.84	8.36	8.41	8.44	8.13		
Water Level	9.95	10.18	10.37	10.31	10.38	—		

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/16/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-18
Sample Date: 4/16/09
Locked? (Yes) No
Sample Time: 0930
(PVC) Steel Stainless
Weather: CLEAR/ 50°
Sampled By: GWS
Air Temp:

Water Level and Well Data

Depth to water from measuring point: 9.35 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Purge Rate: <100 mliter/min
Start 0830 Stop 0925

control settings changes? _____
cycles _____
duration _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed _____ gallon (liters)

Was well purged dry Yes (No)

Field Analyses

NOTE: ORANGE BACTERIA @ APPROX. 1 LITER PURGED
100 ml/MIN.

* Stabilization Parameters

Time	0835	0840	0845	* 0850	* 0855	0900	0905	0910	0915	0920	0925
Temp	10.52	10.43	10.53	11.05	11.09	11.17	11.30	11.26	11.38	11.50	11.3
pH	7.48	7.0	6.88	6.84	6.67	6.69	6.72	6.70	6.68	6.67	6.6
Conductivity	.285	.294	.285	.277	.260	.259	.262	.260	.258	.255	.25
ORP*	54	42	56	61	49	49	38	37	39	43	47
D.O.*	7.10	2.96	2.47	3.35	2.38	3.39	2.06	2.55	2.04	2.01	2.0
Turbidity*	10.85	487	654	418	46.6	21.3	23.1	17.84	19.67	19.01	17.3
Water Level	9.57	9.58			10.16	9.95		9.73			

* NOTES: → OVER

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-19
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 0845
(PVC) Steel Stainless
Weather: P/CLOUDY
Sampled By: GWS
Air Temp: 50°

Water Level and Well Data

Depth to water from measuring point: 12.18 feet
DUP III TAKEN @ THIS LOCATION
Depth to well bottom from measuring point: feet
Height of water column: feet
0700 HRS
Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: Pump
Sample Method: pump
Sample Collection Time: Start Stop
Purge Rate: < 100 mliter/min
Purge Time: Start 0810 Stop 0840
control settings changes?: 3 on 27 off @ 28 psi
cycles:
duration:

Volume of Water in well
2" well (volume = 0.163 x h)
4" well (volume = 0.651 x h)

Volume of water removed: 4 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	0815	0820	0825	0830	0835	0840		
Temp	13.03	13.22	1359	1389	13.96	13.98		
pH	6.53	6.46	6.52	6.52	6.53	6.55		
Conductivity	.312	.302	.298	.295	.294	.296		
ORP*	73	76	80	84	88	90		
D.O.*	7.17	6.42	5.24	4.92	4.92	4.86		
Turbidity*	7.99	8.01	9.40	9.16	8.09	8.50		
Water Level	12.28	12.30	12.31	12.30	–	–		

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-20
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 1120
(PVC) Steel Stainless
Weather: P/cloudy windy
Sampled By: GWS
Air Temp: 55°

Water Level and Well Data

Depth to water from measuring point: 13.55 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Purge Rate: < 100 ml liter/min
Start 1045 Stop 1115

control settings changes?: 2.3 on 27.4 off @ 22psi
cycles: _____
duration: _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 4 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	1050	1055	1100	1105	1110	1115		
Temp	13.54	13.45	13.70	13.80	13.95	13.90		
pH	6.99	6.97	6.97	6.97	6.96	6.96		
Conductivity	.654	.691	.684	.677	.670	.664		
ORP*	64	64	70	72	74	75		
D.O.*	3.51	1.69	1.09	.95	.87	.82		
Turbidity*	5.11	5.30	5.38	4.57	4.07	4.64		
Water Level	13.71	13.69	13.78	13.79	13.75	–		

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-21
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 1200
(PVC) Steel Stainless
Weather: P/CLOUDY WINDY
Sampled By: GWS
Air Temp: 58°

Water Level and Well Data

Depth to water from measuring point: 3.85 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 1130 Stop 1155

Purge Rate: < 100 (liter/min)

control settings changes?: 2.5 on 27 off 16 psi

cycles: _____

duration: _____

Volume of Water in well
2" well (volume = 0.163 x h): _____
4" well (volume = 0.651 x h): _____

Volume of water removed: 3.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	1135	1140	1145	1150	1155			
Temp	15.64	15.09	14.82	14.69	14.76			
pH	6.68	6.54	6.53	6.52	6.52			
Conductivity	.215	.176	.177	.168	.161			
ORP*	74	95	96	101	103			
D.O.*	4.88	2.82	3.19	2.50	2.35			
Turbidity*	5.70	5.47	5.31	4.80	4.96			
Water Level	4.19	4.24	4.23	4.24	-			

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-22
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 1300
(PVC) Steel Stainless
Weather: CLOUDY / WINDY
Sampled By: GWS
Air Temp: 55°

Water Level and Well Data

Depth to water from measuring point: 7.59 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 1225 Stop 1255

Purge Rate: <100 ml liter/min

control settings changes?: 3 on 27 off @ 20 psi

cycles: _____

duration: _____

Volume of Water in well
2" well (volume = 0.163 x h): _____
4" well (volume = 0.651 x h): _____

Volume of water removed: 4 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	1230	1235	1240	1245	1250	1255		
Temp	15.26	15.27	15.23	15.55	15.68	16.15		
pH	7.78	7.43	7.40	7.14	7.41	7.42		
Conductivity	.465	.514	.516	.520	.522	.525		
ORP*	-183	-182	-176	-173	-168	-168		
D.O.*	5.64	2.72	2.04	1.73	1.56	1.43		
Turbidity*	7.05	32.0	66.7	73.2	75.1	79.9		
Water Level	8.48	8.85	9.14	9.39	9.58	--		

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-23
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 1345
(PVC) Steel Stainless
Weather: CLOUDY/WINDY
Sampled By: GWS
Air Temp: 58°

Water Level and Well Data

Depth to water from measuring point: 8.28 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 1315 Stop 1340

Purge Rate: < 100 m liter/min

control settings changes?: 8 ON 27 OFF @ 22 PSI

cycles: _____

duration: _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 3.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	1320	1325	1330	1335	1340			
Temp	15.44	15.56	15.55	15.38	15.21			
pH	8.04	7.96	7.95	7.95	7.96			
Conductivity	.568	.568	.569	.568	.566			
ORP*	-39	-109	-125	-128	-122			
D.O.*	3.45	3.05	3.23	3.33	3.70			
Turbidity*	14.08	7.07	5.07	3.98	3.72			
Water Level	9.11	9.52	9.69	9.91	10.08			

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09

Project No.: 1584-98-081
Purge Time:

Source Well: MW-24
Sample Date: 4/15/09

Locked? (Yes) No
Sample Time: 1525

(PVC) Steel Stainless
Weather: CLOUDY / WINDY

Sampled By: GWS
Air Temp: 58°

Water Level and Well Data

Depth to water from measuring point: 2.40 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 1410 Stop 1520

Purge Rate: <100 ml liter/min

control settings: 3 on 27 off @ 11 psi
changes? _____

cycles _____
duration _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 8 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	1415	1420	1425	1430	1435	1440	1445	1450	1455	15[illegible]
Temp	14.48	14.42	14.34	14.39	14.59	14.79	14.99	15.45	15.38	1[illegible]
pH	7.25	7.17	7.15	7.14	7.14	7.14	7.15	7.17	7.17	7.[illegible]
Conductivity	1.137	1.178	1.181	1.182	1.182	1.182	1.182	1.182	1.180	1.[illegible]
ORP*	46	58	64	72	77	80	84	90	94	[illegible]
D.O.*	4.40	3.39	3.11	3.83	4.25	4.53	4.91	5.57	4.65	3.[illegible]
Turbidity*	4.57	4.53	3.41	3.93	3.50	3.68	3.72	3.06	3.89	4[illegible]
Water Level	3.11	3.41	3.63	3.80	3.83	3.84	3.85	3		

→ OVER

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-25
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 0940
(PVC) Steel Stainless
Weather: Sunny
Sampled By: GWS
Air Temp: 55°

Water Level and Well Data

Depth to water from measuring point: 11.46 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Purge Rate: < 100 mliter/min
Start 0905 Stop 0935

control settings changes?: 2.5 on 27.5 off @ 17 psi
cycles: _____
duration: _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 4 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	0910	0915	0920	0925	0930	0935		
Temp	13.56	14.01	14.24	14.11	13.46	13.74		
pH	6.42	6.39	6.42	6.44	6.41	6.42		
Conductivity	.151	.149	.149	.150	.151	.151		
ORP*	67	78	87	94	100	95		
D.O.*	8.62	8.50	8.80	8.86	8.89	8.91		
Turbidity*	6.59	5.34	5.40	6.70	5.88	5.42		
Water Level	11.80	11.89	11.94	12.03	12.01	12.04		

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 4/15/09
Project No.: 1584-98-081
Purge Time:
Source Well: MW-25B
Sample Date: 4/15/09
Locked? (Yes) No
Sample Time: 1030
(PVC) Steel Stainless
Weather: SUNNY/ WINDY
Sampled By: GWS
Air Temp: 60°

Water Level and Well Data

Depth to water from measuring point: 12.03 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 0950 Stop 1025

Purge Rate: ≈100 mliter/min

control settings: 2.2 on 27.8 off @ 214 cycles

changes? _____ duration _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 4.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	0955	1000	1005	1010	1015	1020	1025	
Temp	14.82	14.41	14.12	14.47	14.37	14.18	14.14	
pH	7.24	6.87	6.84	6.81	6.80	6.79	6.79	
Conductivity	.141	.158	.161	.163	.165	.166	.166	
ORP*	29	63	76	84	90	93	94	
D.O.*	7.60	8.28	8.09	7.44	7.89	7.34	7.31	
Turbidity*	6.51	5.48	6.42	6.38	5.77	5.87	6.01	
Water Level	12.45	12.40	12.35	-	-	-	-	

S&ME
ENVIRONMENTAL SERVICES · ENGINEERING · TESTING

SURFACE WATER SAMPLING FIELD DATA

SITE NAME: White Street Landfill

Date: 4/13/09

S&ME PROJECT NO. 1584-98-081

Time: 1235

SAMPLE LOCATION: SW-1

Weather: CLOUDY 60°

SAMPLED BY: GWS

FIELD ANALYSES

Temperature 13.9°c

Specific Conductance 20.3 m S/m

pH 7.65

Physical Appearance and Odor CLEAR / NONE

Comments/Observations:

Samplers Initials: SP

S&ME
ENVIRONMENTAL SERVICES · ENGINEERING · TESTING

SURFACE WATER SAMPLING FIELD DATA

SITE NAME: White Street Landfill

Date: 4/13/09

S&ME PROJECT NO. 1584-98-081

Time 1130

SAMPLE LOCATION: SW-2

Weather: CLOUDY / DRIZZLE

SAMPLED BY: GWS

FIELD ANALYSES

Temperature 12.2°C

Specific Conductance 19.8 m S/m

pH 8.01

Physical Appearance and Odor CLEAR / NONE

Comments/Observations:

Samplers Initials: SG

S&ME
ENVIRONMENTAL SERVICES · ENGINEERING · TESTING

SURFACE WATER SAMPLING FIELD DATA

SITE NAME: White Street Landfill

Date: 4/13/09

S&ME PROJECT NO. 1584-98-081

Time : 1205

SAMPLE LOCATION: SW-3

Weather: CLOUDY / 55°

SAMPLED BY: GWS

FIELD ANALYSES

Temperature 14.3° c

Specific Conductance 23.8 m s/m

pH 8.13

Physical Appearance and Odor CLEAR/NONE

Comments/Observations:

Samplers Initials: SA

APPENDIX B

Laboratory Analytical Report – April 2009 Monitoring Event

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, April 23, 2009

S&ME, Inc. (SM004)

Attn: Edmund Henriques

3718 Old Battleground Rd.

Greensboro, NC 27410

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill AppI (Phase III)
ENCO Workorder: C904553

Dear Edmund Henriques,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, April 17, 2009.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 55.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4112 MW-15	Lab ID: C904553-01	Sampled: 04/15/09 16:10	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 12:43
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 12:23
EPA 8260B	04/29/09	04/18/09 10:22	4/18/2009 20:48

Client ID: 4112 MW-16	Lab ID: C904553-02	Sampled: 04/15/09 17:40	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 12:46
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 12:40
EPA 8260B	04/29/09	04/18/09 10:22	4/18/2009 21:18

Client ID: 4112 MW-17	Lab ID: C904553-03	Sampled: 04/16/09 08:05	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/13/09	04/20/09 10:04	4/21/2009 12:54
EPA 6020	10/13/09	04/20/09 09:57	4/23/2009 12:43
EPA 8260B	04/30/09	04/18/09 10:22	4/18/2009 21:48

Client ID: 4112 MW-18	Lab ID: C904553-04	Sampled: 04/16/09 09:30	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/13/09	04/20/09 10:04	4/21/2009 12:56
EPA 6020	10/13/09	04/20/09 09:57	4/23/2009 12:47
EPA 8260B	04/30/09	04/18/09 10:22	4/18/2009 22:18

Client ID: 4112 MW-19	Lab ID: C904553-05	Sampled: 04/15/09 08:45	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 12:08
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 12:50
EPA 8260B	04/29/09	04/18/09 10:22	4/18/2009 22:48

Client ID: 4112 MW-20	Lab ID: C904553-06	Sampled: 04/15/09 11:20	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 12:59
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 13:01
EPA 8260B	04/29/09	04/21/09 08:52	4/21/2009 16:34

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Client ID: 4112 MW-21	Lab ID: C904553-07	Sampled: 04/15/09 12:00	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 13:01
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 13:04
EPA 8260B	04/29/09	04/21/09 08:52	4/21/2009 17:04

Client ID: 4112 MW-22	Lab ID: C904553-08	Sampled: 04/15/09 13:00	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 13:03
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 13:07
EPA 8260B	04/29/09	04/21/09 08:52	4/21/2009 17:34

Client ID: 4112 MW-23	Lab ID: C904553-09	Sampled: 04/15/09 13:45	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 13:06
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 13:11
EPA 8260B	04/29/09	04/21/09 08:52	4/21/2009 18:04

Client ID: 4112 MW-24	Lab ID: C904553-10	Sampled: 04/15/09 15:25	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 13:08
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 13:14
EPA 8260B	04/29/09	04/21/09 08:52	4/21/2009 18:34

Client ID: 4112 MW-25	Lab ID: C904553-11	Sampled: 04/15/09 09:40	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 13:10
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 13:18
EPA 8260B	04/29/09	04/21/09 08:52	4/21/2009 19:04

Client ID: 4112 MW-25B	Lab ID: C904553-12	Sampled: 04/15/09 10:30	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 13:13
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 13:21
EPA 8260B	04/29/09	04/21/09 08:52	4/21/2009 19:34

Client ID: 4112 DUPLICATE-III	Lab ID: C904553-13	Sampled: 04/15/09 07:00	Received: 04/17/09 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/12/09	04/20/09 10:04	4/21/2009 13:15
EPA 6020	10/12/09	04/20/09 09:57	4/23/2009 13:24
EPA 8260B	04/29/09	04/21/09 08:52	4/21/2009 20:04

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4112 MW-15 **Lab ID:** C904553-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	27.9	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.12	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Lead - Total	2.3	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	0.8	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	4.2	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-16 **Lab ID:** C904553-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	148		1	4.20	10.0	100	ug/L	EPA 6010B	
Copper - Total	0.99	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Nickel - Total	2.4	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	2.1	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	6.2	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-17 **Lab ID:** C904553-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	57.6	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.13	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	2.6	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.2	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	3.0	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	6.4	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-18 **Lab ID:** C904553-04

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	34.3	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.10	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Cobalt - Total	8.7	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	0.7	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	2.5	J	1	0.7	10.0	25	ug/L	EPA 6010B	

Client ID: 4112 MW-19 **Lab ID:** C904553-05

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	32.7	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.09	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.26	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	1.6	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Lead - Total	3.0	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.4	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	4.7	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	5.1	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-20 **Lab ID:** C904553-06

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	62.7	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.15	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	0.8	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Nickel - Total	3.6	J	1	0.6	10.0	50	ug/L	EPA 6010B	

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Client ID: 4112 MW-20 **Lab ID:** C904553-06

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Vanadium - Total	5.7	J	1	0.7	10.0	25	ug/L	EPA 6010B	

Client ID: 4112 MW-21 **Lab ID:** C904553-07

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	30.2	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.15	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	1.2	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.4	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	0.7	J	1	0.7	10.0	25	ug/L	EPA 6010B	

Client ID: 4112 MW-22 **Lab ID:** C904553-08

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	207		1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.09	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	0.9	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Copper - Total	1.62	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Lead - Total	2.2	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	1.0	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	3.5	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-23 **Lab ID:** C904553-09

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	59.4	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.21	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	0.7	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Nickel - Total	0.6	J	1	0.6	10.0	50	ug/L	EPA 6010B	

Client ID: 4112 MW-24 **Lab ID:** C904553-10

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	447		1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.28	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	0.8	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	1.4	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Lead - Total	2.6	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	3.9	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Silver - Total	1.5	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	3.8	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	5.8	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-25 **Lab ID:** C904553-11

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	22.8	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Chromium - Total	1.0	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Copper - Total	0.98	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.4	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	0.8	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	4.1	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-25B **Lab ID:** C904553-12

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	5.5	J	1	2.8	10.0	10	ug/L	EPA 6010B	

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Client ID: 4112 MW-25B									Lab ID: C904553-12
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	19.1	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Chromium - Total	2.1	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Vanadium - Total	3.2	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	3.6	J	1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 DUPLICATE-III									Lab ID: C904553-13
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Arsenic - Total	3.0	J	1	2.8	10.0	10	ug/L	EPA 6010B	
Barium - Total	42.4	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.11	JB	1	0.09	1.00	1	ug/L	EPA 6010B	J-01
Chromium - Total	1.8	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Lead - Total	3.3	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.5	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	5.3	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	11.3		1	3.4	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: 4112 MW-15
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-01
Sampled: 04/15/09 16:10
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 20:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/18/09 20:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/18/09 20:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/18/09 20:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/18/09 20:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/18/09 20:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/18/09 20:48	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/18/09 20:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/18/09 20:48	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/18/09 20:48	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/18/09 20:48	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/18/09 20:48	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/18/09 20:48	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/18/09 20:48	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/18/09 20:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/18/09 20:48	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/18/09 20:48	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/18/09 20:48	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/18/09 20:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/18/09 20:48	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/18/09 20:48	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/18/09 20:48	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/18/09 20:48	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/18/09 20:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/18/09 20:48	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 20:48	JKG	

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Description: 4112 MW-15
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-01
Sampled: 04/15/09 16:10
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/18/09 20:48	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/18/09 20:48	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 20:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*51-122*	*9D18002*	*EPA 8260B*	*04/18/09 20:48*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9D18002*	*EPA 8260B*	*04/18/09 20:48*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D18002*	*EPA 8260B*	*04/18/09 20:48*	*JKG*	

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Description: 4112 MW-15
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-01
Sampled: 04/15/09 16:10
Sampled By: Gary Simcox

Received: 04/17/09 13.30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 12:23	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 12:43	JDH	
Barium [7440-39-3] ^	**27.9**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 12:43	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 12:43	JDH	
Cadmium [7440-43-9] ^	**0.12**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 12:43	JDH	J-01
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 12:43	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 12:43	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 12:43	JDH	
Lead [7439-92-1] ^	**2.3**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 12:43	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 12:43	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:43	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 12:43	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 12:23	VLO	
Vanadium [7440-62-2] ^	**0.8**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 12:43	JDH	
Zinc [7440-66-6] ^	**4.2**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:43	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-16
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-02
Sampled: 04/15/09 17:40
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 21:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/18/09 21:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/18/09 21:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/18/09 21:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/18/09 21:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/18/09 21:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/18/09 21:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/18/09 21:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/18/09 21:18	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/18/09 21:18	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/18/09 21:18	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/18/09 21:18	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/18/09 21:18	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/18/09 21:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/18/09 21:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/18/09 21:18	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/18/09 21:18	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/18/09 21:18	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/18/09 21:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/18/09 21:18	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/18/09 21:18	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/18/09 21:18	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/18/09 21:18	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/18/09 21:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/18/09 21:18	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 21:18	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/18/09 21:18	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/18/09 21:18	JKG	

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Description: 4112 MW-16
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-02
Sampled: 04/15/09 17:40
Sampled By: Gary Simcox

Received: 04/17/09 13.30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 21:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D18002*	*EPA 8260B*	*04/18/09 21:18*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*9D18002*	*EPA 8260B*	*04/18/09 21:18*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*9D18002*	*EPA 8260B*	*04/18/09 21:18*	*JKG*	

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Description: 4112 MW-16
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-02
Sampled: 04/15/09 17:40
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 12:40	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 12:46	JDH	
Barium [7440-39-3] ^	**148**		ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 12:46	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 12:46	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 12:46	JDH	
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 12:46	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 12:46	JDH	
Copper [7440-50-8] ^	**0.99**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 12:46	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 12:46	JDH	
Nickel [7440-02-0] ^	**2.4**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 12:46	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:46	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 12:46	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 12:40	VLO	
Vanadium [7440-62-2] ^	**2.1**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 12:46	JDH	
Zinc [7440-66-6] ^	**6.2**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:46	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-17
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-03
Sampled: 04/16/09 08:05
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 21:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/18/09 21:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/18/09 21:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/18/09 21:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/18/09 21:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/18/09 21:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/18/09 21:48	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/18/09 21:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/18/09 21:48	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/18/09 21:48	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/18/09 21:48	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/18/09 21:48	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/18/09 21:48	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/18/09 21:48	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/18/09 21:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/18/09 21:48	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/18/09 21:48	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/18/09 21:48	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/18/09 21:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/18/09 21:48	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/18/09 21:48	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/18/09 21:48	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/18/09 21:48	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/18/09 21:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/18/09 21:48	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 21:48	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/18/09 21:48	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/18/09 21:48	JKG	

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Description: 4112 MW-17
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-03
Sampled: 04/16/09 08:05
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 21:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D18002*	*EPA 8260B*	*04/18/09 21:48*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*9D18002*	*EPA 8260B*	*04/18/09 21:48*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D18002*	*EPA 8260B*	*04/18/09 21:48*	*JKG*	

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Description: 4112 MW-17
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-03
Sampled: 04/16/09 08:05
Sampled By: Gary Simcox

Received: 04/17/09 13.30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 12:43	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 12:54	JDH	
Barium [7440-39-3] ^	**57.6**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 12:54	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 12:54	JDH	
Cadmium [7440-43-9] ^	**0.13**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 12:54	JDH	J-01
Chromium [7440-47-3] ^	**2.6**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 12:54	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 12:54	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 12:54	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 12:54	JDH	
Nickel [7440-02-0] ^	**1.2**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 12:54	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:54	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 12:54	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 12:43	VLO	
Vanadium [7440-62-2] ^	**3.0**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 12:54	JDH	
Zinc [7440-66-6] ^	**6.4**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:54	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-18
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-04
Sampled: 04/16/09 09:30
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 22:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/18/09 22:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/18/09 22:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/18/09 22:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/18/09 22:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/18/09 22:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/18/09 22:18	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/18/09 22:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/18/09 22:18	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/18/09 22:18	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/18/09 22:18	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/18/09 22:18	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/18/09 22:18	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/18/09 22:18	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/18/09 22:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/18/09 22:18	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/18/09 22:18	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/18/09 22:18	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/18/09 22:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/18/09 22:18	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/18/09 22:18	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/18/09 22:18	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/18/09 22:18	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/18/09 22:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/18/09 22:18	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 22:18	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/18/09 22:18	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/18/09 22:18	JKG	

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Description: 4112 MW-18
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-04
Sampled: 04/16/09 09:30
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ *ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 22:18	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D18002*	*EPA 8260B*	*04/18/09 22:18*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9D18002*	*EPA 8260B*	*04/18/09 22:18*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*9D18002*	*EPA 8260B*	*04/18/09 22:18*	*JKG*	

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Description: 4112 MW-18
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-04
Sampled: 04/16/09 09:30
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 12:47	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 12:56	JDH	
Barium [7440-39-3] ^	**34.3**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 12:56	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 12:56	JDH	
Cadmium [7440-43-9] ^	**0.10**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 12:56	JDH	J-01
Chromium [7440-47-3] ^	0.7	U	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 12:56	JDH	
Cobalt [7440-48-4] ^	**8.7**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 12:56	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 12:56	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 12:56	JDH	
Nickel [7440-02-0] ^	**0.7**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 12:56	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:56	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 12:56	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 12:47	VLO	
Vanadium [7440-62-2] ^	**2.5**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 12:56	JDH	
Zinc [7440-66-6] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:56	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-19
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-05
Sampled: 04/15/09 08:45
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 22:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/18/09 22:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/18/09 22:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/18/09 22:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/18/09 22:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/18/09 22:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/18/09 22:48	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/18/09 22:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/18/09 22:48	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/18/09 22:48	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/18/09 22:48	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/18/09 22:48	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/18/09 22:48	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/18/09 22:48	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/18/09 22:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/18/09 22:48	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/18/09 22:48	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/18/09 22:48	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/18/09 22:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/18/09 22:48	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/18/09 22:48	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/18/09 22:48	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/18/09 22:48	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/18/09 22:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/18/09 22:48	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/18/09 22:48	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/18/09 22:48	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/18/09 22:48	JKG	

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Description: 4112 MW-19
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-05
Sampled: 04/15/09 08:45
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/18/09 22:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D18002*	*EPA 8260B*	*04/18/09 22:48*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*9D18002*	*EPA 8260B*	*04/18/09 22:48*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D18002*	*EPA 8260B*	*04/18/09 22:48*	*JKG*	

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Description: 4112 MW-19
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-05
Sampled: 04/15/09 08:45
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 12:50	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 12:08	JDH	
Barium [7440-39-3] ^	**32.7**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 12:08	JDH	
Beryllium [7440-41-7] ^	**0.09**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 12:08	JDH	
Cadmium [7440-43-9] ^	**0.26**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 12:08	JDH	J-01
Chromium [7440-47-3] ^	**1.6**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 12:08	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 12:08	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 12:08	JDH	
Lead [7439-92-1] ^	**3.0**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 12:08	JDH	
Nickel [7440-02-0] ^	**1.4**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 12:08	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:08	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 12:08	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 12:50	VLO	
Vanadium [7440-62-2] ^	**4.7**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 12:08	JDH	
Zinc [7440-66-6] ^	**5.1**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:08	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-20
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-06
Sampled: 04/15/09 11:20
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 16:34	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/21/09 16:34	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/21/09 16:34	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/21/09 16:34	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/21/09 16:34	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/21/09 16:34	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/21/09 16:34	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/21/09 16:34	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/21/09 16:34	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/21/09 16:34	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/21/09 16:34	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/21/09 16:34	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/21/09 16:34	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/21/09 16:34	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/21/09 16:34	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/21/09 16:34	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/21/09 16:34	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/21/09 16:34	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/21/09 16:34	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/21/09 16:34	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/21/09 16:34	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/21/09 16:34	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/21/09 16:34	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/21/09 16:34	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/21/09 16:34	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 16:34	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/21/09 16:34	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/21/09 16:34	JKG	

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Description: 4112 MW-20
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-06
Sampled: 04/15/09 11:20
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 16:34	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*9D21004*	*EPA 8260B*	*04/21/09 16:34*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*9D21004*	*EPA 8260B*	*04/21/09 16.34*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*69-110*	*9D21004*	*EPA 8260B*	*04/21/09 16.34*	*JKG*	

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Description: 4112 MW-20
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-06
Sampled: 04/15/09 11:20
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 13:01	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 12:59	JDH	
Barium [7440-39-3] ^	**62.7**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 12:59	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 12:59	JDH	
Cadmium [7440-43-9] ^	**0.15**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 12:59	JDH	J-01
Chromium [7440-47-3] ^	**0.8**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 12:59	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 12:59	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 12:59	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 12:59	JDH	
Nickel [7440-02-0] ^	**3.6**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 12:59	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:59	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 12:59	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 13:01	VLO	
Vanadium [7440-62-2] ^	**5.7**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 12:59	JDH	
Zinc [7440-66-6] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 12:59	JDH	

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Description: 4112 MW-21
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-07
Sampled: 04/15/09 12:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 17:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/21/09 17:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/21/09 17:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/21/09 17:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/21/09 17:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/21/09 17:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/21/09 17:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/21/09 17:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/21/09 17:04	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/21/09 17:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/21/09 17:04	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/21/09 17:04	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/21/09 17:04	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/21/09 17:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/21/09 17:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/21/09 17:04	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/21/09 17:04	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/21/09 17:04	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/21/09 17:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/21/09 17:04	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/21/09 17:04	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/21/09 17:04	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/21/09 17:04	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/21/09 17:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/21/09 17:04	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 17:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/21/09 17:04	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/21/09 17:04	JKG	

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Description: 4112 MW-21
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-07
Sampled: 04/15/09 12:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 17:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*51-122*	*9D21004*	*EPA 8260B*	*04/21/09 17:04*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*89 %*	*68-117*	*9D21004*	*EPA 8260B*	*04/21/09 17:04*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*9D21004*	*EPA 8260B*	*04/21/09 17:04*	*JKG*	

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Description: 4112 MW-21
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-07
Sampled: 04/15/09 12:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 13:04	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 13:01	JDH	
Barium [7440-39-3] ^	**30.2**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 13:01	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 13:01	JDH	
Cadmium [7440-43-9] ^	**0.15**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 13:01	JDH	J-01
Chromium [7440-47-3] ^	**1.2**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 13:01	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 13:01	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 13:01	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 13:01	JDH	
Nickel [7440-02-0] ^	**1.4**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 13:01	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:01	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 13:01	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 13:04	VLO	
Vanadium [7440-62-2] ^	**0.7**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 13:01	JDH	
Zinc [7440-66-6] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:01	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-22
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-08
Sampled: 04/15/09 13:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 17:34	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/21/09 17:34	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/21/09 17:34	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/21/09 17:34	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/21/09 17:34	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/21/09 17:34	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/21/09 17:34	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/21/09 17:34	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/21/09 17:34	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/21/09 17:34	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/21/09 17:34	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/21/09 17:34	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/21/09 17:34	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/21/09 17:34	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/21/09 17:34	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/21/09 17:34	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/21/09 17:34	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/21/09 17:34	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/21/09 17:34	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/21/09 17:34	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/21/09 17:34	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/21/09 17:34	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/21/09 17:34	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/21/09 17:34	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/21/09 17:34	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 17:34	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/21/09 17:34	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/21/09 17:34	JKG	

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Description: 4112 MW-22
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-08
Sampled: 04/15/09 13:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 17:34	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D21004*	*EPA 8260B*	*04/21/09 17:34*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*87 %*	*68-117*	*9D21004*	*EPA 8260B*	*04/21/09 17:34*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*9D21004*	*EPA 8260B*	*04/21/09 17:34*	*JKG*	

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Description: 4112 MW-22
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-08
Sampled: 04/15/09 13:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 13:07	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 13:03	JDH	
Barium [7440-39-3] ^	**207**		ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 13:03	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 13:03	JDH	
Cadmium [7440-43-9] ^	**0.09**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 13:03	JDH	J-01
Chromium [7440-47-3] ^	**0.9**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 13:03	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 13:03	JDH	
Copper [7440-50-8] ^	**1.62**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 13:03	JDH	
Lead [7439-92-1] ^	**2.2**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 13:03	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 13:03	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:03	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 13:03	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 13:07	VLO	
Vanadium [7440-62-2] ^	**1.0**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 13:03	JDH	
Zinc [7440-66-6] ^	**3.5**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:03	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-23
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-09
Sampled: 04/15/09 13:45
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 18:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/21/09 18:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/21/09 18:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/21/09 18:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/21/09 18:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/21/09 18:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/21/09 18:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/21/09 18:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/21/09 18:04	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/21/09 18:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/21/09 18:04	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/21/09 18:04	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/21/09 18:04	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/21/09 18:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/21/09 18:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/21/09 18:04	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/21/09 18:04	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/21/09 18:04	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/21/09 18:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/21/09 18:04	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/21/09 18:04	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/21/09 18:04	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/21/09 18:04	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/21/09 18:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/21/09 18:04	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 18:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/21/09 18:04	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/21/09 18:04	JKG	

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Description:	4112 MW-23	**Lab Sample ID:**	C904553-09	**Received:**	04/17/09 13:30
Matrix:	Ground Water	**Sampled:**	04/15/09 13:45	**Work Order:**	C904553
Project:	White Street Landfill AppI (Phase III)	**Sampled By:**	Gary Simcox		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 18:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*51-122*	*9D21004*	*EPA 8260B*	*04/21/09 18:04*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*89 %*	*68-117*	*9D21004*	*EPA 8260B*	*04/21/09 18:04*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D21004*	*EPA 8260B*	*04/21/09 18:04*	*JKG*	

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Description: 4112 MW-23
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-09
Sampled: 04/15/09 13:45
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 13:11	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 13:06	JDH	
Barium [7440-39-3] ^	**59.4**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 13:06	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 13:06	JDH	
Cadmium [7440-43-9] ^	**0.21**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 13:06	JDH	J-01
Chromium [7440-47-3] ^	**0.7**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 13:06	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 13:06	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 13:06	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 13:06	JDH	
Nickel [7440-02-0] ^	**0.6**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 13:06	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:06	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 13:06	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 13:11	VLO	
Vanadium [7440-62-2] ^	0.7	U	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 13:06	JDH	
Zinc [7440-66-6] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:06	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-24
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-10
Sampled: 04/15/09 15:25
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 18:34	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/21/09 18:34	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/21/09 18:34	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/21/09 18:34	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/21/09 18:34	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/21/09 18:34	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/21/09 18:34	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/21/09 18:34	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/21/09 18:34	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/21/09 18:34	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/21/09 18:34	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/21/09 18:34	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/21/09 18:34	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/21/09 18:34	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/21/09 18:34	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/21/09 18:34	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/21/09 18:34	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/21/09 18:34	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/21/09 18:34	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/21/09 18:34	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/21/09 18:34	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/21/09 18:34	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/21/09 18:34	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/21/09 18:34	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/21/09 18:34	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 18:34	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/21/09 18:34	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/21/09 18:34	JKG	

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Description: 4112 MW-24
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-10
Sampled: 04/15/09 15:25
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 18:34	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*9D21004*	*EPA 8260B*	*04/21/09 18:34*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*89 %*	*68-117*	*9D21004*	*EPA 8260B*	*04/21/09 18:34*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*69-110*	*9D21004*	*EPA 8260B*	*04/21/09 18:34*	*JKG*	

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Description: 4112 MW-24
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-10
Sampled: 04/15/09 15:25
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 13:14	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 13:08	JDH	
Barium [7440-39-3] ^	**447**		ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 13:08	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 13:08	JDH	
Cadmium [7440-43-9] ^	**0.28**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 13:08	JDH	J-01
Chromium [7440-47-3] ^	**0.8**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 13:08	JDH	
Cobalt [7440-48-4] ^	**1.4**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 13:08	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 13:08	JDH	
Lead [7439-92-1] ^	**2.6**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 13:08	JDH	
Nickel [7440-02-0] ^	**3.9**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 13:08	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:08	JDH	
Silver [7440-22-4] ^	**1.5**	J	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 13:08	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 13:14	VLO	
Vanadium [7440-62-2] ^	**3.8**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 13:08	JDH	
Zinc [7440-66-6] ^	**5.8**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:08	JDH	

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Description: 4112 MW-25
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-11
Sampled: 04/15/09 09:40
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 19:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/21/09 19:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/21/09 19:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/21/09 19:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/21/09 19:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/21/09 19:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/21/09 19:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/21/09 19:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/21/09 19:04	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/21/09 19:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/21/09 19:04	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/21/09 19:04	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/21/09 19:04	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/21/09 19:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/21/09 19:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/21/09 19:04	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/21/09 19:04	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/21/09 19:04	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/21/09 19:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/21/09 19:04	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/21/09 19:04	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/21/09 19:04	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/21/09 19:04	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/21/09 19:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/21/09 19:04	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 19:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/21/09 19:04	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/21/09 19:04	JKG	

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Description: 4112 MW-25
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-11
Sampled: 04/15/09 09:40
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 19:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*9D21004*	*EPA 8260B*	*04/21/09 19:04*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9D21004*	*EPA 8260B*	*04/21/09 19:04*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*9D21004*	*EPA 8260B*	*04/21/09 19:04*	*JKG*	

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Description: 4112 MW-25
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-11
Sampled: 04/15/09 09:40
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 13:18	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 13:10	JDH	
Barium [7440-39-3] ^	**22.8**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 13:10	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 13:10	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 13:10	JDH	
Chromium [7440-47-3] ^	**1.0**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 13:10	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 13:10	JDH	
Copper [7440-50-8] ^	**0.98**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 13:10	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 13:10	JDH	
Nickel [7440-02-0] ^	**1.4**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 13:10	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:10	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 13:10	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 13:18	VLO	
Vanadium [7440-62-2] ^	**0.8**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 13:10	JDH	
Zinc [7440-66-6] ^	**4.1**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:10	JDH	

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Description: 4112 MW-25B
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-12
Sampled: 04/15/09 10:30
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 19:34	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/21/09 19:34	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/21/09 19:34	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/21/09 19:34	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/21/09 19:34	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/21/09 19:34	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/21/09 19:34	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/21/09 19:34	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/21/09 19:34	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/21/09 19:34	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/21/09 19:34	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/21/09 19:34	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/21/09 19:34	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/21/09 19:34	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/21/09 19:34	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/21/09 19:34	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/21/09 19:34	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/21/09 19:34	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/21/09 19:34	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/21/09 19:34	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/21/09 19:34	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/21/09 19:34	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/21/09 19:34	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/21/09 19:34	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/21/09 19:34	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 19:34	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/21/09 19:34	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/21/09 19:34	JKG	

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Description: 4112 MW-25B
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-12
Sampled: 04/15/09 10:30
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 19:34	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*51-122*	*9D21004*	*EPA 8260B*	*04/21/09 19:34*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*9D21004*	*EPA 8260B*	*04/21/09 19:34*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*9D21004*	*EPA 8260B*	*04/21/09 19:34*	*JKG*	

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Description: 4112 MW-25B
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-12
Sampled: 04/15/09 10:30
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ · ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 13:21	VLO	
Arsenic [7440-38-2] ^	**5.5**	J	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 13:13	JDH	
Barium [7440-39-3] ^	**19.1**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 13:13	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 13:13	JDH	
Cadmium [7440-43-9] ^	0.09	U	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 13:13	JDH	
Chromium [7440-47-3] ^	**2.1**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 13:13	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 13:13	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 13:13	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 13:13	JDH	
Nickel [7440-02-0] ^	0.6	U	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 13:13	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:13	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 13:13	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 13:21	VLO	
Vanadium [7440-62-2] ^	**3.2**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 13:13	JDH	
Zinc [7440-66-6] ^	**3.6**	J	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:13	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 DUPLICATE-III
Matrix: Ground Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904553-13
Sampled: 04/15/09 07:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 20:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/21/09 20:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/21/09 20:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/21/09 20:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/21/09 20:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/21/09 20:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/21/09 20:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/21/09 20:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/21/09 20:04	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/21/09 20:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/21/09 20:04	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/21/09 20:04	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/21/09 20:04	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/21/09 20:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/21/09 20:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/21/09 20:04	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/21/09 20:04	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/21/09 20:04	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/21/09 20:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/21/09 20:04	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/21/09 20:04	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/21/09 20:04	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/21/09 20:04	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/21/09 20:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/21/09 20:04	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/21/09 20:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/21/09 20:04	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/21/09 20:04	JKG	

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Description: 4112 DUPLICATE-III
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-13
Sampled: 04/15/09 07:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/21/09 20:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*87 %*	*51-122*	*9D21004*	*EPA 8260B*	*04/21/09 20:04*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*89 %*	*68-117*	*9D21004*	*EPA 8260B*	*04/21/09 20:04*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*9D21004*	*EPA 8260B*	*04/21/09 20:04*	*JKG*	

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Description: 4112 DUPLICATE-III
Matrix: Ground Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904553-13
Sampled: 04/15/09 07:00
Sampled By: Gary Simcox

Received: 04/17/09 13:30
Work Order: C904553

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/23/09 13:24	VLO	
Arsenic [7440-38-2] ^	**3.0**	J	ug/L	1	2.8	10.0	10	EPA 6010B	04/21/09 13:15	JDH	
Barium [7440-39-3] ^	**42.4**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/21/09 13:15	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/21/09 13:15	JDH	
Cadmium [7440-43-9] ^	**0.11**	JB	ug/L	1	0.09	1.00	1	EPA 6010B	04/21/09 13:15	JDH	J-01
Chromium [7440-47-3] ^	**1.8**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/21/09 13:15	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/21/09 13:15	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	10	EPA 6010B	04/21/09 13:15	JDH	
Lead [7439-92-1] ^	**3.3**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/21/09 13:15	JDH	
Nickel [7440-02-0] ^	**1.5**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/21/09 13:15	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:15	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/21/09 13:15	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/23/09 13:24	VLO	
Vanadium [7440-62-2] ^	**5.3**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/21/09 13:15	JDH	
Zinc [7440-66-6] ^	**11.3**		ug/L	1	3.4	10.0	10	EPA 6010B	04/21/09 13:15	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D18002 - EPA 5030B_MS

Blank (9D18002-BLK1) Prepared: 04/18/2009 10:22 Analyzed: 04/18/2009 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D18002 - EPA 5030B_MS

Blank (9D18002-BLK1) Continued Prepared: 04/18/2009 10:22 Analyzed: 04/18/2009 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*69-110*			

LCS (9D18002-BS1) Prepared: 04/18/2009 10:22 Analyzed: 04/18/2009 13:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		96	75-133			
Benzene	22		1.0	ug/L	20.0		108	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			

Matrix Spike (9D18002-MS1) Prepared: 04/18/2009 10:22 Analyzed: 04/18/2009 13:49

Source: C904513-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.24 U	115	75-133			
Benzene	25		1.0	ug/L	20.0	0.20 U	124	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.27 U	116	83-117			
Toluene	23		1.0	ug/L	20.0	0.27 U	117	71-118			
Trichloroethene	23		1.0	ug/L	20.0	0.38 U	116	75-115			QM-07

Matrix Spike Dup (9D18002-MSD1) Prepared: 04/18/2009 10:22 Analyzed: 04/18/2009 14:19

Source: C904513-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.24 U	113	75-133	2	20	
Benzene	26		1.0	ug/L	20.0	0.20 U	128	81-134	4	17	
Chlorobenzene	23		1.0	ug/L	20.0	0.27 U	116	83-117	0.2	16	
Toluene	23		1.0	ug/L	20.0	0.27 U	113	71-118	3	17	
Trichloroethene	23		1.0	ug/L	20.0	0.38 U	116	75-115	0.5	18	QM-07

Batch 9D21004 - EPA 5030B_MS

Blank (9D21004-BLK1) Prepared: 04/21/2009 08:52 Analyzed: 04/21/2009 12:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D21004 · EPA 5030B_MS

Blank (9D21004-BLK1) Continued Prepared: 04/21/2009 08:52 Analyzed: 04/21/2009 12:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

LCS (9D21004-BS1) Prepared: 04/21/2009 08:52 Analyzed: 04/21/2009 14:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		111	75-133			
Benzene	24		1.0	ug/L	20.0		118	81-134			
Chlorobenzene	23		1.0	ug/L	20.0		115	83-117			
Toluene	23		1.0	ug/L	20.0		115	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D21004 - EPA 5030B_MS

LCS (9D21004-BS1) Continued Prepared: 04/21/2009 08:52 Analyzed: 04/21/2009 14:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	22		1.0	ug/L	20.0		108	75-115			

Matrix Spike (9D21004-MS1) Prepared: 04/21/2009 08:52 Analyzed: 04/21/2009 15:03

Source: C904594-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	111	75-133			
Benzene	24		1.0	ug/L	20.0	0.20 U	119	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.27 U	113	83-117			
Toluene	22		1.0	ug/L	20.0	0.27 U	112	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	108	75-115			

Matrix Spike Dup (9D21004-MSD1) Prepared: 04/21/2009 08:52 Analyzed: 04/21/2009 15:34

Source: C904594-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	107	75-133	3	20	
Benzene	23		1.0	ug/L	20.0	0.20 U	116	81-134	3	17	
Chlorobenzene	22		1.0	ug/L	20.0	0.27 U	112	83-117	1	16	
Toluene	22		1.0	ug/L	20.0	0.27 U	109	71-118	3	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	105	75-115	3	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D20012 - EPA 3005A

Blank (9D20012-BLK1) Prepared: 04/20/2009 09:57 Analyzed: 04/23/2009 12:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	1.00	ug/L							

LCS (9D20012-BS1) Prepared: 04/20/2009 09:57 Analyzed: 04/23/2009 12:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.6		2.00	ug/L	25.0		111	85-115			
Thallium	26.8		1.00	ug/L	25.0		107	85-115			

Matrix Spike (9D20012-MS1) Prepared: 04/20/2009 09:57 Analyzed: 04/23/2009 12:26

Source: C904553-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.9		2.00	ug/L	25.0	0.68 U	112	85-115			
Thallium	26.0		1.00	ug/L	25.0	0.036 U	104	85-115			

Matrix Spike Dup (9D20012-MSD1) Prepared: 04/20/2009 09:57 Analyzed: 04/23/2009 12:29

Source: C904553-01

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D20012 - EPA 3005A

Matrix Spike Dup (9D20012-MSD1) Continued Prepared: 04/20/2009 09:57 Analyzed: 04/23/2009 12:29

Source: C904553-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.4		2.00	ug/L	25.0	0.68 U	109	85-115	2	20	
Thallium	25.6		1.00	ug/L	25.0	0.036 U	103	85-115	1	20	

Post Spike (9D20012-PS1) Prepared: 04/20/2009 09:57 Analyzed: 04/23/2009 12:33

Source: C904553-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	-0.000004	110	75-125			
Thallium	0.026		0.001	mg/L	0.0250	-0.00001	103	75-125			

Batch 9D20015 EPA 3005A

Blank (9D20015-BLK1) Prepared: 04/20/2009 10:04 Analyzed: 04/21/2009 12:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.08	U	1.00	ug/L							
Cadmium	**0.11**	**J**	1.00	ug/L							
Chromium	0.7	U	10.0	ug/L							
Cobalt	0.6	U	10.0	ug/L							
Copper	0.81	U	10.0	ug/L							
Lead	1.6	U	10.0	ug/L							
Nickel	0.6	U	10.0	ug/L							
Selenium	3.4	U	10.0	ug/L							
Silver	1.0	U	10.0	ug/L							
Vanadium	0.7	U	10.0	ug/L							
Zinc	3.4	U	10.0	ug/L							

LCS (9D20015-BS1) Prepared: 04/20/2009 10:04 Analyzed: 04/21/2009 12:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1110		10.0	ug/L	1000		111	80-120			
Barium	1090		10.0	ug/L	1000		109	80-120			
Beryllium	562		1.00	ug/L	500		112	80-120			
Cadmium	531	B	1.00	ug/L	500		106	80-120			
Chromium	1090		10.0	ug/L	1000		109	80-120			
Cobalt	1060		10.0	ug/L	1000		106	80-120			
Copper	544		10.0	ug/L	500		109	80-120			
Lead	1120		10.0	ug/L	1000		112	80-120			
Nickel	1110		10.0	ug/L	1000		111	80-120			
Selenium	1140		10.0	ug/L	1000		114	80-120			
Silver	112		10.0	ug/L	100		112	80-120			
Vanadium	554		10.0	ug/L	500		111	80-120			
Zinc	1110		10.0	ug/L	1000		111	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D20015 - EPA 3005A

Matrix Spike (9D20015-MS1) Prepared: 04/20/2009 10:04 Analyzed: 04/21/2009 12:11

Source: C904553-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1070		10.0	ug/L	1000	2.8 U	107	75-125			
Barium	1090		10.0	ug/L	1000	32.7	106	75-125			
Beryllium	547		1.00	ug/L	500	0.09	109	75-125			
Cadmium	508	B	1.00	ug/L	500	0.26	102	75-125			
Chromium	1060		10.0	ug/L	1000	1.6	105	75-125			
Cobalt	1060		10.0	ug/L	1000	0.6 U	106	75-125			
Copper	524		10.0	ug/L	500	0.81 U	105	75-125			
Lead	1070		10.0	ug/L	1000	3.0	106	75-125			
Nickel	1060		10.0	ug/L	1000	1.4	106	75-125			
Selenium	1110		10.0	ug/L	1000	3.4 U	111	75-125			
Silver	108		10.0	ug/L	100	1.0 U	108	75-125			
Vanadium	541		10.0	ug/L	500	4.7	107	75-125			
Zinc	1070		10.0	ug/L	1000	5.1	106	75-125			

Matrix Spike Dup (9D20015-MSD1) Prepared: 04/20/2009 10:04 Analyzed: 04/21/2009 12:12

Source: C904553-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1030		10.0	ug/L	1000	2.8 U	103	75-125	3	25	
Barium	1070		10.0	ug/L	1000	32.7	103	75-125	2	25	
Beryllium	535		1.00	ug/L	500	0.09	107	75-125	2	25	
Cadmium	497	B	1.00	ug/L	500	0.26	99	75-125	2	25	
Chromium	1030		10.0	ug/L	1000	1.6	103	75-125	2	25	
Cobalt	1030		10.0	ug/L	1000	0.6 U	103	75-125	4	25	
Copper	512		10.0	ug/L	500	0.81 U	102	75-125	2	25	
Lead	1030		10.0	ug/L	1000	3.0	103	75-125	4	25	
Nickel	1040		10.0	ug/L	1000	1.4	103	75-125	2	25	
Selenium	1070		10.0	ug/L	1000	3.4 U	107	75-125	4	25	
Silver	106		10.0	ug/L	100	1.0 U	106	75-125	2	25	
Vanadium	529		10.0	ug/L	500	4.7	105	75-125	2	25	
Zinc	1050		10.0	ug/L	1000	5.1	104	75-125	2	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6059
(904) 296-3007 Fax (904) 296-6210

100-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: S&ME, Inc. (SM004)	Project Number: [none]
Address: 3718 Old Battleground Rd.	Project Name/Desc: White Street Landfill Appl (Phase III)
City/ST/Zip: Greensboro, NC 27410	PO #/Billing Info:
Tel: (336) 288-7180 Fax: (336) 288-8980	Reporting Contact: Edmund Henriques
Sampler(s) Name, Affiliation (Print):	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility #(If Required):

Requested Analyses: 8260B Appendix 1; Ag/Al/As/Ba/Be/Cd/Co/Cr/Cu/Mn/Pb/Sb/Se/Tl/V/Zn

Preservation (See Codes) (Combine as Necessary)

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: ~~C904081~~

Item #	Sample ID (Field Identifier)	Collection Date	Collection Time	Comp / Grab	Matrix (See codes)	Total # of Containers											Sample Comments
✓	4112 MW-15	4/15/09	16:10		GW	4	X	X									C904553
✓	4112 MW-16	↓	17:40		GW	4	X	X									
✓	4112 MW-17	4/16/09	08:05		GW	4	X	X									
✓	4112 MW-18	↓	9:30		GW	4	X	X									
✓	4112 MW-19	4/15/09	08:45		GW	4	X	X									
✓	4112 MW-20		11:20		GW	4	X	X									
✓	4112 MW-21		12:00		GW	4	X	X									
✓	4112 MW-22		13:00		GW	4	X	X									
✓	4112 MW-23		13:45		GW	4	X	X									
✓	4112 MW-24		15:25		GW	4	X	X									
✓	4112 MW-25		09:40		GW	4	X	X									
✓	4112 MW-25B	↓	10:30		GW	4	X	X									

← Total # of Containers

Sample(s) Prepared By:	Date/Time:	Relinquished By:	Date/Time:	Received By: Birna Gregory	Date/Time: 4/17/09 12:30
Comments: All information taken from bottles BIG 4/17/09		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: 2.6°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (add in comments)

Preservation: Hcl: N-HCl NaOH: S-NaOH NO: N-HNO3 S-H2SO4 O-Other (add in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6940

4306 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102 A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3580 Fax (919) 467-3515

Page ____ of ____

Client Name: S&ME, Inc. (SM004)	Project Number: [none]
Address: 3718 Old Battleground Rd	Project Name/Site: White Street Landfill Appt (Phase III)
City/State/Zip: Greensboro, NC 27410	PO # / Billing Info
Tel: (336) 288-7160 Fax: (336) 288-8980	Reporting Contact: Edmund Henriques
Sampler(s) Name, Affiliation (Firm)	Billing Contact: Accounts Payable
Sampler(s) Signature	Facility # (if applicable)

Requested Analyses: 8260B Appendix 1; As, Ba, Be, Cd, Cr, Cu, Ni, Pb, Sb, Se, Tl, V, Zn

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: ~~C904081~~ C904553

Preservation (See Codes) (Contains as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers											Sample Comments
	4112 SW-1				SW	4	X	X									Not Received
	4112 SW-2				SW	4	X	X									
	4112 SW-3				SW	4	X	X									
	4112 SW-4				SW	4	X	X									
	4112 SW-5				SW	4	X	X									
/	4112 DUPLICATE-III	4/15/09	07:00		WA	4	X	X									
	4112 Trip Blank#3				WA	2	X										Not Received
																	BJG 4/17/09

<- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By: Bruce Gregory	Date/Time: 4/17/09 13:30
Comments: All information taken from bottles. BJG 4/17/09		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler Temp. & Temperature Method: 3.6°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice N-HNO3 N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

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ENVIRONMENTAL CONSERVATION LABORATORIES, INC.

Sample preservation verification

☑ Cary ☐ Jacksonville ☐ Orlando

Work order: C904553 G9C0031 Page: 1 of 1 Initials: BJG Date: 4/13/09

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	TPH	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-9	>9	<2	
01	✓														
02	✓														
03	✓														
04	✓														
05	✓														
06	✓														
07	✓														
08	✓														
09	✓														
10	✓														
11	✓														
12	✓														
13	✓														
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26															
27															
28															
29															
30															

	Reagent name	ID		Reagent name	ID		Reagent name	ID
1			3			5		
2			4			6		

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Thursday, April 23, 2009

S&ME, Inc. (SM004)

Attn: Edmund Henriques

3718 Old Battleground Rd.

Greensboro, NC 27410

Done 5/14/09

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill AppI (Phase III)
ENCO Workorder: C904081

SW

Dear Edmund Henriques,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, April 14, 2009.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 28.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4112 SW-1 | Lab ID: C904081-01 | Sampled: 04/13/09 12:35 | Received: 04/14/09 15:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/09	04/15/09 08:49	4/17/2009 12:03
EPA 6020	10/10/09	04/15/09 08:53	4/20/2009 15:52
EPA 8260B	04/27/09	04/15/09 13:47	4/16/2009 04:34

Client ID: 4112 SW-2 | Lab ID: C904081-02 | Sampled: 04/13/09 11:30 | Received: 04/14/09 15:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/09	04/15/09 08:49	4/17/2009 12:19
EPA 6020	10/10/09	04/15/09 08:53	4/20/2009 16:03
EPA 8260B	04/27/09	04/15/09 13:47	4/16/2009 05:02

Client ID: 4112 SW-3 | Lab ID: C904081-03 | Sampled: 04/13/09 12:05 | Received: 04/14/09 15:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/09	04/15/09 08:49	4/17/2009 12:22
EPA 6020	10/10/09	04/15/09 08:53	4/20/2009 16:06
EPA 8260B	04/27/09	04/15/09 13:47	4/16/2009 05:30

Client ID: 4112 SW-4 | Lab ID: C904081-04 | Sampled: 04/13/09 13:30 | Received: 04/14/09 15:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/09	04/15/09 08:49	4/17/2009 12:24
EPA 6020	10/10/09	04/15/09 08:53	4/20/2009 16:10
EPA 8260B	04/27/09	04/15/09 13:47	4/16/2009 05:58

Client ID: 4112 SW-5 | Lab ID: C904081-05 | Sampled: 04/13/09 10:15 | Received: 04/14/09 15:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/09	04/15/09 08:49	4/17/2009 12:26
EPA 6020	10/10/09	04/15/09 08:53	4/20/2009 15:22
EPA 8260B	04/27/09	04/15/09 13:47	4/16/2009 06:27

Client ID: 4112 Trip Blank#3 | Lab ID: C904081-06 | Sampled: 04/13/09 10:15 | Received: 04/14/09 15:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	04/27/09	04/15/09 13:47	4/16/2009 01:45

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4112 SW-1 Lab ID: C904081-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	48.1	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Beryllium - Total	0.10	J	1	0.08	1.00	1	ug/L	EPA 6010B	
Cadmium - Total	0.19	J	1	0.09	1.00	1	ug/L	EPA 6010B	
Chromium - Total	1.5	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Copper - Total	1.06	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Lead - Total	2.2	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.0	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	1.7	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	14.5		1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 SW-2 Lab ID: C904081-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	53.4	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.14	J	1	0.09	1.00	1	ug/L	EPA 6010B	
Chromium - Total	1.4	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	1.8	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Copper - Total	1.93	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Lead - Total	2.3	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	2.3	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	4.2	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	24.9		1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 SW-3 Lab ID: C904081-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	44.8	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.17	J	1	0.09	1.00	1	ug/L	EPA 6010B	
Chromium - Total	1.6	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	0.7	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Copper - Total	2.56	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Lead - Total	2.5	J	1	1.6	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.5	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	2.1	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	21.4		1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 SW-4 Lab ID: C904081-04

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	41.6	J	1	4.20	10.0	100	ug/L	EPA 6010B	
Cadmium - Total	0.26	J	1	0.09	1.00	1	ug/L	EPA 6010B	
Chromium - Total	1.1	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	0.8	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Copper - Total	1.87	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.6	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	2.5	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	25.8		1	3.4	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 SW-5 Lab ID: C904081-05

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	42.0	J	1	4.20	10.0	100	ug/L	EPA 6010B	

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Client ID: 4112 SW-5							Lab ID: C904081-05		
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cadmium - Total	0.21	J	1	0.09	1.00	1	ug/L	EPA 6010B	
Chromium - Total	1.1	J	1	0.7	10.0	10	ug/L	EPA 6010B	
Cobalt - Total	0.6	J	1	0.6	10.0	10	ug/L	EPA 6010B	
Copper - Total	1.78	J	1	0.81	10.0	10	ug/L	EPA 6010B	
Nickel - Total	1.5	J	1	0.6	10.0	50	ug/L	EPA 6010B	
Vanadium - Total	2.6	J	1	0.7	10.0	25	ug/L	EPA 6010B	
Zinc - Total	27.2		1	3.4	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: 4112 SW-1
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-01
Sampled: 04/13/09 12:35
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 04:34	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 04:34	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/16/09 04:34	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 04:34	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/16/09 04:34	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/16/09 04:34	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/16/09 04:34	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/16/09 04:34	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/16/09 04:34	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/16/09 04:34	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/16/09 04:34	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 04:34	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 04:34	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/16/09 04:34	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/16/09 04:34	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/16/09 04:34	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/16/09 04:34	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/16/09 04:34	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/16/09 04:34	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/16/09 04:34	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/16/09 04:34	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/16/09 04:34	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/16/09 04:34	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/16/09 04:34	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/16/09 04:34	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/16/09 04:34	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/16/09 04:34	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/16/09 04:34	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/16/09 04:34	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/16/09 04:34	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/16/09 04:34	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 04:34	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/16/09 04:34	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 04:34	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/16/09 04:34	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 04:34	REF	

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Description: 4112 SW-1
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-01
Sampled: 04/13/09 12:35
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/16/09 04:34	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/16/09 04:34	REF	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 04:34	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*51-122*	*9D15027*	*EPA 8260B*	*04/16/09 04:34*	*REF*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*9D15027*	*EPA 8260B*	*04/16/09 04:34*	*REF*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*9D15027*	*EPA 8260B*	*04/16/09 04:34*	*REF*	

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Description: 4112 SW-1
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-01
Sampled: 04/13/09 12:35
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/20/09 15:52	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/17/09 12:03	JDH	
Barium [7440-39-3] ^	**48.1**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/17/09 12:03	JDH	
Beryllium [7440-41-7] ^	**0.10**	J	ug/L	1	0.08	1.00	1	EPA 6010B	04/17/09 12:03	JDH	
Cadmium [7440-43-9] ^	**0.19**	J	ug/L	1	0.09	1.00	1	EPA 6010B	04/17/09 12:03	JDH	
Chromium [7440-47-3] ^	**1.5**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/17/09 12:03	JDH	
Cobalt [7440-48-4] ^	0.6	U	ug/L	1	0.6	10.0	10	EPA 6010B	04/17/09 12:03	JDH	
Copper [7440-50-8] ^	**1.06**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/17/09 12:03	JDH	
Lead [7439-92-1] ^	**2.2**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/17/09 12:03	JDH	
Nickel [7440-02-0] ^	**1.0**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/17/09 12:03	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:03	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/17/09 12:03	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/20/09 15:52	VLO	
Vanadium [7440-62-2] ^	**1.7**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/17/09 12:03	JDH	
Zinc [7440-66-6] ^	**14.5**		ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:03	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 SW-2
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-02
Sampled: 04/13/09 11:30
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 05:02	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 05:02	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/16/09 05:02	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 05:02	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/16/09 05:02	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/16/09 05:02	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/16/09 05:02	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/16/09 05:02	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/16/09 05:02	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/16/09 05:02	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/16/09 05:02	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:02	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:02	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/16/09 05:02	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/16/09 05:02	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/16/09 05:02	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/16/09 05:02	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/16/09 05:02	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/16/09 05:02	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/16/09 05:02	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/16/09 05:02	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/16/09 05:02	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/16/09 05:02	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/16/09 05:02	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/16/09 05:02	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/16/09 05:02	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/16/09 05:02	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/16/09 05:02	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/16/09 05:02	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/16/09 05:02	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/16/09 05:02	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 05:02	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/16/09 05:02	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:02	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/16/09 05:02	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 05:02	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/16/09 05:02	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/16/09 05:02	REF	

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Description: 4112 SW-2
Matrix: Surface Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904081-02
Sampled: 04/13/09 11:30
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 05:02	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9D15027*	*EPA 8260B*	*04/16/09 05:02*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*9D15027*	*EPA 8260B*	*04/16/09 05:02*	*REF*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*69-110*	*9D15027*	*EPA 8260B*	*04/16/09 05:02*	*REF*	

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Description: 4112 SW-2
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-02
Sampled: 04/13/09 11:30
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/20/09 16:03	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/17/09 12:19	JDH	
Barium [7440-39-3] ^	**53.4**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/17/09 12:19	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/17/09 12:19	JDH	
Cadmium [7440-43-9] ^	**0.14**	J	ug/L	1	0.09	1.00	1	EPA 6010B	04/17/09 12:19	JDH	
Chromium [7440-47-3] ^	**1.4**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/17/09 12:19	JDH	
Cobalt [7440-48-4] ^	**1.8**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/17/09 12:19	JDH	
Copper [7440-50-8] ^	**1.93**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/17/09 12:19	JDH	
Lead [7439-92-1] ^	**2.3**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/17/09 12:19	JDH	
Nickel [7440-02-0] ^	**2.3**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/17/09 12:19	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:19	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/17/09 12:19	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/20/09 16:03	VLO	
Vanadium [7440-62-2] ^	**4.2**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/17/09 12:19	JDH	
Zinc [7440-66-6] ^	**24.9**		ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:19	JDH	

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Description: 4112 SW-3
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-03
Sampled: 04/13/09 12:05
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 05:30	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 05:30	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/16/09 05:30	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 05:30	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/16/09 05:30	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/16/09 05:30	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/16/09 05:30	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/16/09 05:30	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/16/09 05:30	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/16/09 05:30	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/16/09 05:30	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:30	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:30	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/16/09 05:30	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/16/09 05:30	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/16/09 05:30	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/16/09 05:30	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/16/09 05:30	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/16/09 05:30	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/16/09 05:30	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/16/09 05:30	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/16/09 05:30	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/16/09 05:30	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/16/09 05:30	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/16/09 05:30	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/16/09 05:30	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/16/09 05:30	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/16/09 05:30	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/16/09 05:30	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/16/09 05:30	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/16/09 05:30	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 05:30	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/16/09 05:30	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:30	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/16/09 05:30	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 05:30	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/16/09 05:30	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/16/09 05:30	REF	

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Description: 4112 SW-3
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-03
Sampled: 04/13/09 12:05
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - *ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 05:30	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*9D15027*	*EPA 8260B*	*04/16/09 05:30*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*68-117*	*9D15027*	*EPA 8260B*	*04/16/09 05:30*	*REF*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*9D15027*	*EPA 8260B*	*04/16/09 05:30*	*REF*	

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Description: 4112 SW-3
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-03
Sampled: 04/13/09 12:05
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/20/09 16:06	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/17/09 12:22	JDH	
Barium [7440-39-3] ^	**44.8**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/17/09 12:22	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/17/09 12:22	JDH	
Cadmium [7440-43-9] ^	**0.17**	J	ug/L	1	0.09	1.00	1	EPA 6010B	04/17/09 12:22	JDH	
Chromium [7440-47-3] ^	**1.6**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/17/09 12:22	JDH	
Cobalt [7440-48-4] ^	**0.7**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/17/09 12:22	JDH	
Copper [7440-50-8] ^	**2.56**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/17/09 12:22	JDH	
Lead [7439-92-1] ^	**2.5**	J	ug/L	1	1.6	10.0	10	EPA 6010B	04/17/09 12:22	JDH	
Nickel [7440-02-0] ^	**1.5**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/17/09 12:22	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:22	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/17/09 12:22	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/20/09 16:06	VLO	
Vanadium [7440-62-2] ^	**2.1**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/17/09 12:22	JDH	
Zinc [7440-66-6] ^	**21.4**		ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:22	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 SW-4
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-04
Sampled: 04/13/09 13:30
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ *ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 05:58	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 05:58	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/16/09 05:58	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 05:58	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/16/09 05:58	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/16/09 05:58	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/16/09 05:58	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/16/09 05:58	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/16/09 05:58	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/16/09 05:58	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/16/09 05:58	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:58	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:58	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/16/09 05:58	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/16/09 05:58	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/16/09 05:58	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/16/09 05:58	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/16/09 05:58	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/16/09 05:58	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/16/09 05:58	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/16/09 05:58	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/16/09 05:58	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/16/09 05:58	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/16/09 05:58	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/16/09 05:58	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/16/09 05:58	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/16/09 05:58	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/16/09 05:58	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/16/09 05:58	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/16/09 05:58	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/16/09 05:58	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 05:58	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/16/09 05:58	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:58	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/16/09 05:58	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 05:58	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/16/09 05:58	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/16/09 05:58	REF	

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Description: 4112 SW-4
Matrix: Surface Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904081-04
Sampled: 04/13/09 13:30
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 05:58	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*9D15027*	*EPA 8260B*	*04/16/09 05:58*	*REF*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*9D15027*	*EPA 8260B*	*04/16/09 05:58*	*REF*	
Toluene-d8	*51*	*1*	*50.0*	*101 %*	*69-110*	*9D15027*	*EPA 8260B*	*04/16/09 05:58*	*REF*	

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Description: 4112 SW-4
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-04
Sampled: 04/13/09 13:30
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/20/09 16:10	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/17/09 12:24	JDH	
Barium [7440-39-3] ^	**41.6**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/17/09 12:24	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/17/09 12:24	JDH	
Cadmium [7440-43-9] ^	**0.26**	J	ug/L	1	0.09	1.00	1	EPA 6010B	04/17/09 12:24	JDH	
Chromium [7440-47-3] ^	**1.1**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/17/09 12:24	JDH	
Cobalt [7440-48-4] ^	**0.8**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/17/09 12:24	JDH	
Copper [7440-50-8] ^	**1.87**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/17/09 12:24	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/17/09 12:24	JDH	
Nickel [7440-02-0] ^	**1.6**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/17/09 12:24	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:24	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/17/09 12:24	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/20/09 16:10	VLO	
Vanadium [7440-62-2] ^	**2.5**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/17/09 12:24	JDH	
Zinc [7440-66-6] ^	**25.8**		ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:24	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 SW-5
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-05
Sampled: 04/13/09 10:15
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 06:27	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 06:27	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/16/09 06:27	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 06:27	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/16/09 06:27	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/16/09 06:27	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/16/09 06:27	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/16/09 06:27	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/16/09 06:27	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/16/09 06:27	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/16/09 06:27	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 06:27	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 06:27	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/16/09 06:27	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/16/09 06:27	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/16/09 06:27	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/16/09 06:27	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/16/09 06:27	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/16/09 06:27	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/16/09 06:27	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/16/09 06:27	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/16/09 06:27	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/16/09 06:27	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/16/09 06:27	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/16/09 06:27	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/16/09 06:27	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/16/09 06:27	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/16/09 06:27	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/16/09 06:27	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/16/09 06:27	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/16/09 06:27	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 06:27	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/16/09 06:27	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 06:27	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/16/09 06:27	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 06:27	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/16/09 06:27	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/16/09 06:27	REF	

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Description: 4112 SW-5
Matrix: Surface Water
Project: White Street Landfill AppI (Phase III)

Lab Sample ID: C904081-05
Sampled: 04/13/09 10:15
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 06:27	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9D15027*	*EPA 8260B*	*04/16/09 06:27*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*9D15027*	*EPA 8260B*	*04/16/09 06:27*	*REF*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D15027*	*EPA 8260B*	*04/16/09 06:27*	*REF*	

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Description: 4112 SW-5
Matrix: Surface Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-05
Sampled: 04/13/09 10:15
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	04/20/09 15:22	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	04/17/09 12:26	JDH	
Barium [7440-39-3] ^	**42.0**	J	ug/L	1	4.20	10.0	100	EPA 6010B	04/17/09 12:26	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	1	EPA 6010B	04/17/09 12:26	JDH	
Cadmium [7440-43-9] ^	**0.21**	J	ug/L	1	0.09	1.00	1	EPA 6010B	04/17/09 12:26	JDH	
Chromium [7440-47-3] ^	**1.1**	J	ug/L	1	0.7	10.0	10	EPA 6010B	04/17/09 12:26	JDH	
Cobalt [7440-48-4] ^	**0.6**	J	ug/L	1	0.6	10.0	10	EPA 6010B	04/17/09 12:26	JDH	
Copper [7440-50-8] ^	**1.78**	J	ug/L	1	0.81	10.0	10	EPA 6010B	04/17/09 12:26	JDH	
Lead [7439-92-1] ^	1.6	U	ug/L	1	1.6	10.0	10	EPA 6010B	04/17/09 12:26	JDH	
Nickel [7440-02-0] ^	**1.5**	J	ug/L	1	0.6	10.0	50	EPA 6010B	04/17/09 12:26	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:26	JDH	
Silver [7440-22-4] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	04/17/09 12:26	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	04/20/09 15:22	VLO	
Vanadium [7440-62-2] ^	**2.6**	J	ug/L	1	0.7	10.0	25	EPA 6010B	04/17/09 12:26	JDH	
Zinc [7440-66-6] ^	**27.2**		ug/L	1	3.4	10.0	10	EPA 6010B	04/17/09 12:26	JDH	

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Description: 4112 Trip Blank#3
Matrix: Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-06
Sampled: 04/13/09 10:15
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 01:45	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 01:45	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	04/16/09 01:45	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 01:45	REF	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	04/16/09 01:45	REF	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	04/16/09 01:45	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	04/16/09 01:45	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	04/16/09 01:45	REF	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	04/16/09 01:45	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	04/16/09 01:45	REF	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	04/16/09 01:45	REF	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 01:45	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 01:45	REF	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	04/16/09 01:45	REF	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	04/16/09 01:45	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	04/16/09 01:45	REF	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	04/16/09 01:45	REF	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	04/16/09 01:45	REF	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	04/16/09 01:45	REF	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	04/16/09 01:45	REF	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	04/16/09 01:45	REF	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	04/16/09 01:45	REF	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	04/16/09 01:45	REF	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	04/16/09 01:45	REF	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	04/16/09 01:45	REF	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	04/16/09 01:45	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	04/16/09 01:45	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	04/16/09 01:45	REF	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	04/16/09 01:45	REF	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	04/16/09 01:45	REF	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	04/16/09 01:45	REF	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	04/16/09 01:45	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	04/16/09 01:45	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 01:45	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	04/16/09 01:45	REF	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	04/16/09 01:45	REF	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	04/16/09 01:45	REF	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	04/16/09 01:45	REF	

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Description: 4112 Trip Blank#3
Matrix: Water
Project: White Street Landfill Appl (Phase III)

Lab Sample ID: C904081-06
Sampled: 04/13/09 10:15
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904081

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	04/16/09 01:45	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*9D15027*	*EPA 8260B*	*04/16/09 01:45*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9D15027*	*EPA 8260B*	*04/16/09 01:45*	*REF*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*9D15027*	*EPA 8260B*	*04/16/09 01:45*	*REF*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D15027 - EPA 5030B_MS

Blank (9D15027-BLK1) Prepared: 04/15/2009 13:47 Analyzed: 04/15/2009 20:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D15027 - EPA 5030B_MS

Blank (9D15027-BLK1) Continued Prepared: 04/15/2009 13:47 Analyzed: 04/15/2009 20:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

LCS (9D15027-BS1) Prepared: 04/15/2009 13:47 Analyzed: 04/15/2009 21:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		103	83-117			
Toluene	22		1.0	ug/L	20.0		108	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	75-115			

Matrix Spike (9D15027-MS1) Prepared: 04/15/2009 13:47 Analyzed: 04/15/2009 21:31

Source: C903584-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	110	75-133			
Benzene	22		1.0	ug/L	20.0	0.87	105	81-134			
Chlorobenzene	24		1.0	ug/L	20.0	1.2	115	83-117			
Toluene	24		1.0	ug/L	20.0	0.27 U	121	71-118			QM-07
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	104	75-115			

Matrix Spike Dup (9D15027-MSD1) Prepared: 04/15/2009 13.47 Analyzed: 04/15/2009 21:59

Source: C903584-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	111	75-133	1	20	
Benzene	22		1.0	ug/L	20.0	0.87	105	81-134	0.2	17	
Chlorobenzene	23		1.0	ug/L	20.0	1.2	108	83-117	6	16	
Toluene	23		1.0	ug/L	20.0	0.27 U	115	71-118	4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	102	75-115	2	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D15006 - EPA 3005A

Blank (9D15006-BLK1) Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.08	U	1.00	ug/L							
Cadmium	0.09	U	1.00	ug/L							
Chromium	0.7	U	10.0	ug/L							
Cobalt	0.6	U	10.0	ug/L							
Copper	0.81	U	10.0	ug/L							
Lead	1.6	U	10.0	ug/L							
Nickel	0.6	U	10.0	ug/L							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods · Quality Control

Batch 9D15006 - EPA 3005A

Blank (9D15006-BLK1) Continued Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	3.4	U	10.0	ug/L							
Silver	1.0	U	10.0	ug/L							
Vanadium	0.7	U	10.0	ug/L							
Zinc	3.4	U	10.0	ug/L							

LCS (9D15006-BS1) Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 12:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1010		10.0	ug/L	1000		101	80-120			
Barium	1000		10.0	ug/L	1000		100	80-120			
Beryllium	509		1.00	ug/L	500		102	80-120			
Cadmium	492		1.00	ug/L	500		98	80-120			
Chromium	1020		10.0	ug/L	1000		102	80-120			
Cobalt	977		10.0	ug/L	1000		98	80-120			
Copper	505		10.0	ug/L	500		101	80-120			
Lead	1020		10.0	ug/L	1000		102	80-120			
Nickel	1020		10.0	ug/L	1000		102	80-120			
Selenium	1060		10.0	ug/L	1000		106	80-120			
Silver	107		10.0	ug/L	100		107	80-120			
Vanadium	514		10.0	ug/L	500		103	80-120			
Zinc	1030		10.0	ug/L	1000		103	80-120			

Matrix Spike (9D15006-MS1) Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 12:06

Source: C904081-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1010		10.0	ug/L	1000	2.8 U	101	75-125			
Barium	1060		10.0	ug/L	1000	48.1	101	75-125			
Beryllium	526		1.00	ug/L	500	0.10	105	75-125			
Cadmium	495		1.00	ug/L	500	0.19	99	75-125			
Chromium	1030		10.0	ug/L	1000	1.5	103	75-125			
Cobalt	986		10.0	ug/L	1000	0.6 U	99	75-125			
Copper	513		10.0	ug/L	500	1.06	102	75-125			
Lead	1010		10.0	ug/L	1000	2.2	101	75-125			
Nickel	1030		10.0	ug/L	1000	1.0	103	75-125			
Selenium	1060		10.0	ug/L	1000	3.4 U	106	75-125			
Silver	109		10.0	ug/L	100	1.0 U	109	75-125			
Vanadium	526		10.0	ug/L	500	1.7	105	75-125			
Zinc	1050		10.0	ug/L	1000	14.5	104	75-125			

Matrix Spike Dup (9D15006-MSD1) Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 12:08

Source: C904081-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1030		10.0	ug/L	1000	2.8 U	103	75-125	2	25	
Barium	1080		10.0	ug/L	1000	48.1	103	75-125	2	25	
Beryllium	538		1.00	ug/L	500	0.10	108	75-125	2	25	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D15006 - EPA 3005A

Matrix Spike Dup (9D15006-MSD1) Continued Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 12:08

Source: C904081-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	502		1.00	ug/L	500	0.19	100	75-125	1	25	
Chromium	1040		10.0	ug/L	1000	1.5	103	75-125	0.3	25	
Cobalt	1010		10.0	ug/L	1000	0.6 U	101	75-125	2	25	
Copper	515		10.0	ug/L	500	1.06	103	75-125	0.3	25	
Lead	1040		10.0	ug/L	1000	2.2	104	75-125	2	25	
Nickel	1050		10.0	ug/L	1000	1.0	105	75-125	2	25	
Selenium	1080		10.0	ug/L	1000	3.4 U	108	75-125	2	25	
Silver	107		10.0	ug/L	100	1.0 U	107	75-125	1	25	
Vanadium	529		10.0	ug/L	500	1.7	106	75-125	0.6	25	
Zinc	1070		10.0	ug/L	1000	14.5	105	75-125	2	25	

Batch 9D15010 - EPA 3005A

Blank (9D15010-BLK1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	5.00	ug/L							
Thallium	0.036	U	2.00	ug/L							

LCS (9D15010-BS1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.3		5.00	ug/L	25.0		105	85-115			
Thallium	26.0		2.00	ug/L	25.0		104	85-115			

Matrix Spike (9D15010-MS1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:25

Source: C904081-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.5		5.00	ug/L	25.0	0.68 U	110	85-115			
Thallium	26.4		2.00	ug/L	25.0	0.036 U	105	85-115			

Matrix Spike Dup (9D15010-MSD1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:29

Source: C904081-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.1		5.00	ug/L	25.0	0.68 U	108	85-115	2	20	
Thallium	26.1		2.00	ug/L	25.0	0.036 U	105	85-115	0.9	20	

Post Spike (9D15010-PS1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:32

Source: C904081-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	0.0002	105	75-125			
Thallium	0.025		0.001	mg/L	0.0250	0.00002	101	75-125			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

Cary NC 27511
(919) 467-3090 Fax (919) 467-5515

Page ___ of ___

Company: S&ME, Inc. (SM004)	Project Number: [none]
Address: 3718 Old Battleground Rd.	Project Name: White Street Landfill Appl (Phase III)
City/State: Greensboro, NC 27410	Project Location:
Phone: (336) 288-7180 Fax: (336) 280-8980	Project Manager: Edmund Henriques
Sampling Personnel Name/Phone/Email: Gary Simcox / S&ME, Inc.	Invoice To: Accounts Payable
Company Signature:	Report To:

Requested Analyses: 8260B Appendix 1; Ag, As, Ba, Cd, Cr, Cu, Hg, Pb, Se, Zn

Requested Turnaround Times: Note: Rush requests subject to approval by the facility. ___ Standard ___ Expedited Due __/__/__

Lab Workorder: C904081

Preservative (See Codes) (Continue as necessary)

Lab ID	Sample Identification	Sampling Date	Collection Time	Matrix Code	Matrix Description	Total # Containers	8260B Appendix 1	Ag, As, Ba, Cd, Cr, Cu, Hg, Pb, Se, Zn								Sample Comments
	4112 SW-1	4/13/09	1235	G	SW	4	X	X								
	4112 SW-2	4/13/09	1130	G	SW	4	X	X								
	4112 SW-3	4/13/09	1205	G	SW	4	X	X								
	4112 SW-4	4/13/09	1330	G	SW	4	X	X								
	4112 SW-5	4/13/09	1015	G	SW	4	X	X								
	~~4112 SUP-ICA-FILL~~				~~WA~~	~~1~~	~~X~~	~~X~~								
	4112 Trip Blanks				WA	2	X									

Total # of Containers

Relinquished By:	Date/Time: 4/14/09 0730	Received By:	Date/Time:	Relinquished By:	Date/Time:
Relinquished By:	Date/Time: 4/14/09 1230	Received By:	Date/Time: 4/14/09 1230	Received By:	Date/Time: 4/14/09 1230
Relinquished By:	Date/Time:	Received By: Biana Duncan	Date/Time: 4/14/09 15:30		
Sample Temperature Upon Receipt: 19°C			Sample Acceptance: X Acceptable ___ Unacceptable		

Preservation Key: 1=Ice 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other 7=Other

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Sample preservation verification

ENVIRONMENTAL CONSERVATION LABORATORIES, INC

☒ Cary ☐ Jacksonville ☐ Orlando

Work order C904081 Page: 1 of 1 Initials: BSG Date: 4/19/01

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	TPH	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-9	>9	≤2	
1	✓														
2	✓														
3	✓														
4	✓														
5	✓														
6															
7															
8															
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30															

Reagent name	ID	Reagent name	ID	Reagent name	ID
1		3		5	
2		4		6	

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Dave 5/14/09

Tuesday, April 28, 2009

S&ME, Inc. (SM004)

Attn: Edmund Henriques

3718 Old Battleground Rd.

Greensboro, NC 27410

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill Leachate
ENCO Workorder: C904082

Dear Edmund Henriques,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, April 14, 2009.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 20.

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PROJECT NARRATIVE

Date: April 28, 2009

Client: S&ME

Project #: White Street Landfill Leachate

Lab ID: C904082

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

Quality Control Samples

Due to analyst oversight, the BOD analysis was completed after 6 days of incubation rather than 5. This gives the result a possible high bias. The sample was prepared within the 48-hour hold time as required by the method. The quality control samples associated with this project were within acceptable range, and the BOD result for the affected sample is consistent with historical information

Other Comments

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative. Should there be any questions regarding this package, please feel free to contact the undersigned for additional information.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103 Leachate	Lab ID: C904082-01	Sampled: 04/13/09 10:55	Received: 04/14/09 15:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/11/09			04/20/09	10:58	4/20/2009 21:41
EPA 353.2	04/15/09	10:55		04/15/09	08:11	4/15/2009 09:17
EPA 353.2	05/11/09			04/19/09	09:53	4/20/2009 12:32
EPA 353.2	05/11/09			04/21/09	09:28	4/21/2009 09:28
EPA 365.4	05/11/09			04/17/09	11:32	4/19/2009 14:30
EPA 6010B	10/10/09			04/15/09	08:49	4/17/2009 12:28
EPA 6020	10/10/09			04/15/09	08:53	4/20/2009 16:13
SM 5210B	04/15/09	10:55	04/19/09	04/14/09	15:50	4/20/2009 18:35
SM4500-H/B	04/13/09	11:09		04/15/09	13:34	4/15/2009 13:34

Client ID: 4103 Leachate	Lab ID: C904082-01RE1	Sampled: 04/13/09 10:55	Received: 04/14/09 15:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	04/27/09	04/17/09	09:12	4/17/2009 16:21
SM 5220D	05/11/09	04/27/09	10:30	4/28/2009 13:50

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SAMPLE DETECTION SUMMARY

Client ID: 4103 Leachate			Lab ID: C904082-01				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Antimony - Total	76.9		0.68	2.00	ug/L	EPA 6020	
Arsenic - Total	282		2.8	10.0	ug/L	EPA 6010B	
Barium - Total	544		4.20	10.0	ug/L	EPA 6010B	
Biochemical Oxygen Demand	1100		2.0	2.0	mg/L	SM 5210B	Q
Cadmium - Total	0.32	J	0.09	1.00	ug/L	EPA 6010B	
Chromium - Total	54.7		0.7	10.0	ug/L	EPA 6010B	
Cobalt - Total	22.3		0.6	10.0	ug/L	EPA 6010B	
Lead - Total	5.8	J	1.6	10.0	ug/L	EPA 6010B	
Nickel - Total	137		0.6	10.0	ug/L	EPA 6010B	
Nitrate as N	0.054	J	0.010	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.069	J	0.017	0.10	mg/L	EPA 353.2	
Nitrite as N	0.015	J	0.010	0.10	mg/L	EPA 353.2	
pH	6.8		1.0	1.0	pH Units	SM4500-H/B	Q
Phosphorus	1.8		0.050	0.10	mg/L	EPA 365.4	
Silver - Total	1.2	J	1.0	10.0	ug/L	EPA 6010B	
Sulfate as SO4	2.5	J	0.078	5.0	mg/L	EPA 300.0	
Vanadium - Total	43.1		0.7	10.0	ug/L	EPA 6010B	
Zinc - Total	51.1		3.4	10.0	ug/L	EPA 6010B	

Client ID: 4103 Leachate			Lab ID: C904082-01RE1				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
1,4-Dichlorobenzene	31	JD	19	50	ug/L	EPA 8260B	
2-Butanone	5100	D	50	250	ug/L	EPA 8260B	
4-Methyl-2-pentanone	220	JD	55	250	ug/L	EPA 8260B	
Acetone	4100	D	75	250	ug/L	EPA 8260B	
Chemical Oxygen Demand	2500		12	40	mg/L	SM 5220D	
Ethylbenzene	120	D	10	50	ug/L	EPA 8260B	
Toluene	86	D	14	50	ug/L	EPA 8260B	
Xylenes (Total)	280	D	20	50	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 4103 Leachate
Matrix: Ground Water
Project: White Street Landfill Leachate

Lab Sample ID: C904082-01
Sampled: 04/13/09 10:55
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904082

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	20	UD	ug/L	50	20	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,1,1-Trichloroethane [71-55-6] ^	14	UD	ug/L	50	14	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	16	UD	ug/L	50	16	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,1,2-Trichloroethane [79-00-5] ^	18	UD	ug/L	50	18	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,1-Dichloroethane [75-34-3] ^	16	UD	ug/L	50	16	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,1-Dichloroethene [75-35-4] ^	12	UD	ug/L	50	12	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,2,3-Trichloropropane [96-18-4] ^	28	UD	ug/L	50	28	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	24	UD	ug/L	50	24	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,2-Dibromoethane [106-93-4] ^	21	UD	ug/L	50	21	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,2-Dichlorobenzene [95-50-1] ^	14	UD	ug/L	50	14	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,2-Dichloroethane [107-06-2] ^	32	UD	ug/L	50	32	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,2-Dichloropropane [78-87-5] ^	10	UD	ug/L	50	10	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
1,4-Dichlorobenzene [106-46-7] ^	**31**	JD	ug/L	50	19	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
2-Butanone [78-93-3] ^	**5100**	D	ug/L	50	50	250	9D17007	EPA 8260B	04/17/09 16:21	REF	
2-Hexanone [591-78-6] ^	34	UD	ug/L	50	34	250	9D17007	EPA 8260B	04/17/09 16:21	REF	
4-Methyl-2-pentanone [108-10-1] ^	**220**	JD	ug/L	50	55	250	9D17007	EPA 8260B	04/17/09 16:21	REF	
Acetone [67-64-1] ^	**4100**	D	ug/L	50	75	250	9D17007	EPA 8260B	04/17/09 16:21	REF	
Acrylonitrile [107-13-1] ^	100	UD	ug/L	50	100	250	9D17007	EPA 8260B	04/17/09 16:21	REF	
Benzene [71-43-2] ^	10	UD	ug/L	50	10	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Bromochloromethane [74-97-5] ^	21	UD	ug/L	50	21	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Bromodichloromethane [75-27-4] ^	18	UD	ug/L	50	18	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Bromoform [75-25-2] ^	36	UD	ug/L	50	36	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Bromomethane [74-83-9] ^	24	UD	ug/L	50	24	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Carbon disulfide [75-15-0] ^	27	UD	ug/L	50	27	250	9D17007	EPA 8260B	04/17/09 16:21	REF	
Carbon tetrachloride [56-23-5] ^	19	UD	ug/L	50	19	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Chlorobenzene [108-90-7] ^	14	UD	ug/L	50	14	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Chloroethane [75-00-3] ^	15	UD	ug/L	50	15	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Chloroform [67-66-3] ^	10	UD	ug/L	50	10	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Chloromethane [74-87-3] ^	17	UD	ug/L	50	17	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
cis-1,2-Dichloroethene [156-59-2] ^	18	UD	ug/L	50	18	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	14	UD	ug/L	50	14	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Dibromochloromethane [124-48-1] ^	16	UD	ug/L	50	16	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Dibromomethane [74-95-3] ^	18	UD	ug/L	50	18	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Ethylbenzene [100-41-4] ^	**120**	D	ug/L	50	10	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Iodomethane [74-88-4] ^	26	UD	ug/L	50	26	100	9D17007	EPA 8260B	04/17/09 16:21	REF	
Methylene chloride [75-09-2] ^	26	UD	ug/L	50	26	100	9D17007	EPA 8260B	04/17/09 16:21	REF	
Styrene [100-42-5] ^	13	UD	ug/L	50	13	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Tetrachloroethene [127-18-4] ^	18	UD	ug/L	50	18	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Toluene [108-88-3] ^	**86**	D	ug/L	50	14	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
trans-1,2-Dichloroethene [156-60-5] ^	17	UD	ug/L	50	17	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	19	UD	ug/L	50	19	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	27	UD	ug/L	50	27	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Trichloroethene [79-01-6] ^	19	UD	ug/L	50	19	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Trichlorofluoromethane [75-69-4] ^	14	UD	ug/L	50	14	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Vinyl acetate [108-05-4] ^	49	UD	ug/L	50	49	100	9D17007	EPA 8260B	04/17/09 16:21	REF	
Vinyl chloride [75-01-4] ^	15	UD	ug/L	50	15	50	9D17007	EPA 8260B	04/17/09 16:21	REF	
Xylenes (Total) [1330-20-7] ^	**280**	D	ug/L	50	20	50	9D17007	EPA 8260B	04/17/09 16:21	REF	

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Description: 4103 Leachate
Matrix: Ground Water
Project: White Street Landfill Leachate

Lab Sample ID: C904082-01
Sampled: 04/13/09 10:55
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904082

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*9D17007*	*EPA 8260B*	*04/17/09 16:21*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*9D17007*	*EPA 8260B*	*04/17/09 16:21*	*REF*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*9D17007*	*EPA 8260B*	*04/17/09 16:21*	*REF*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**76.9**		ug/L	1	0.68	2.00	9D15010	EPA 6020	04/20/09 16:13	VLO	
Arsenic [7440-38-2] ^	**282**		ug/L	1	2.8	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Barium [7440-39-3] ^	**544**		ug/L	1	4.20	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Beryllium [7440-41-7] ^	0.08	U	ug/L	1	0.08	1.00	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Cadmium [7440-43-9] ^	**0.32**	J	ug/L	1	0.09	1.00	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Chromium [7440-47-3] ^	**54.7**		ug/L	1	0.7	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Cobalt [7440-48-4] ^	**22.3**		ug/L	1	0.6	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Copper [7440-50-8] ^	0.81	U	ug/L	1	0.81	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Lead [7439-92-1] ^	**5.8**	J	ug/L	1	1.6	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Nickel [7440-02-0] ^	**137**		ug/L	1	0.6	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Selenium [7782-49-2] ^	3.4	U	ug/L	1	3.4	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Silver [7440-22-4] ^	**1.2**	J	ug/L	1	1.0	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	9D15010	EPA 6020	04/20/09 16:13	VLO	
Vanadium [7440-62-2] ^	**43.1**		ug/L	1	0.7	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	
Zinc [7440-66-6] ^	**51.1**		ug/L	1	3.4	10.0	9D15006	EPA 6010B	04/17/09 12:28	JDH	

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Description: 4103 Leachate
Matrix: Ground Water
Project: White Street Landfill Leachate

Lab Sample ID: C904082-01
Sampled: 04/13/09 10.55
Sampled By: Gary Simcox

Received: 04/14/09 15:30
Work Order: C904082

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**1100**		mg/L	1	2.0	2.0	9D14015	SM 5210B	04/20/09 18:35	GPW	Q
Chemical Oxygen Demand [ECL-0035] ^	**2500**		mg/L	1	12	40	9D27029	SM 5220D	04/28/09 13:50	GPW	
Nitrate as N [14797-55-8] ^	**0.054**	J	mg/L	1	0.010	0.10	9D21008	EPA 353.2	04/21/09 09:28	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.069**	J	mg/L	1	0.017	0.10	9D19002	EPA 353.2	04/20/09 12 32	PEV	
Nitrite as N [14797-65-0] ^	**0.015**	J	mg/L	1	0.010	0.10	9D15002	EPA 353.2	04/15/09 09:17	PEV	
pH [ECL-0062] ^	**6.8**		pH Units	1	1.0	1.0	9D15014	SM4500-H/B	04/15/09 13:34	FLT	Q
Phosphorus [7723-14-0] ^	**1.8**		mg/L	1	0.050	0.10	9D17011	EPA 365.4	04/19/09 14:30	PEV	
Sulfate as SO4 [14808-79-8] ^	**2.5**	J	mg/L	1	0.078	5.0	9D20018	EPA 300.0	04/20/09 21:41	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D16004 - EPA 5030B_MS

Blank (9D16004-BLK1) Prepared: 04/16/2009 09:50 Analyzed: 04/16/2009 19:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D16004 - EPA 5030B_MS

Blank (9D16004-BLK1) Continued Prepared: 04/16/2009 09:50 Analyzed: 04/16/2009 19:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

LCS (9D16004-BS1) Prepared: 04/16/2009 09:50 Analyzed: 04/16/2009 20:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		88	75-133			
Benzene	18		1.0	ug/L	20.0		92	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		93	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	18		1.0	ug/L	20.0		92	75-115			

Matrix Spike (9D16004-MS1) Prepared: 04/16/2009 09:50 Analyzed: 04/16/2009 20:50

Source: C903984-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	95	75-133			
Benzene	18		1.0	ug/L	20.0	0.20 U	92	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	100	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	103	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.38 U	91	75-115			

Matrix Spike Dup (9D16004-MSD1) Prepared: 04/16/2009 09:50 Analyzed: 04/16/2009 21:19

Source: C903984-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	92	75-133	3	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134	4	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	104	83-117	4	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	105	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	96	75-115	6	18	

Batch 9D17007 - EPA 5030B_MS

Blank (9D17007-BLK1) Prepared: 04/17/2009 09:12 Analyzed: 04/17/2009 12:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D17007 - EPA 5030B_MS

Blank (9D17007-BLK1) Continued Prepared: 04/17/2009 09:12 Analyzed: 04/17/2009 12:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*69-110*			

LCS (9D17007-BS1) Prepared: 04/17/2009 09:12 Analyzed: 04/17/2009 12:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		88	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9D17007 - EPA 5030B_MS

LCS (9D17007-BS1) Continued Prepared: 04/17/2009 09:12 Analyzed: 04/17/2009 12:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	20		1.0	ug/L	20.0		102	75-115			

Matrix Spike (9D17007-MS1) Prepared: 04/17/2009 09:12 Analyzed: 04/17/2009 12:57

Source: C904417-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	95	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	93	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	102	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	103	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	99	75-115			

Matrix Spike Dup (9D17007-MSD1) Prepared: 04/17/2009 09:12 Analyzed: 04/17/2009 13:32

Source: C904417-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	95	75-133	0.2	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134	3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	98	83-117	3	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	100	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	96	75-115	4	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D15006 - EPA 3005A

Blank (9D15006-BLK1) Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.08	U	1.00	ug/L							
Cadmium	0.09	U	1.00	ug/L							
Chromium	0.7	U	10.0	ug/L							
Cobalt	0.6	U	10.0	ug/L							
Copper	0.81	U	10.0	ug/L							
Lead	1.6	U	10.0	ug/L							
Nickel	0.6	U	10.0	ug/L							
Selenium	3.4	U	10.0	ug/L							
Silver	1.0	U	10.0	ug/L							
Vanadium	0.7	U	10.0	ug/L							
Zinc	3.4	U	10.0	ug/L							

LCS (9D15006-BS1) Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 12:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1010		10.0	ug/L	1000		101	80-120			
Barium	1000		10.0	ug/L	1000		100	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D15006 - EPA 3005A

LCS (9D15006-BS1) Continued Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 12:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	509		1.00	ug/L	500		102	80-120			
Cadmium	492		1.00	ug/L	500		98	80-120			
Chromium	1020		10.0	ug/L	1000		102	80-120			
Cobalt	977		10.0	ug/L	1000		98	80-120			
Copper	505		10.0	ug/L	500		101	80-120			
Lead	1020		10.0	ug/L	1000		102	80-120			
Nickel	1020		10.0	ug/L	1000		102	80-120			
Selenium	1060		10.0	ug/L	1000		106	80-120			
Silver	107		10.0	ug/L	100		107	80-120			
Vanadium	514		10.0	ug/L	500		103	80-120			
Zinc	1030		10.0	ug/L	1000		103	80-120			

Matrix Spike (9D15006-MS1) Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 12:06

Source: C904081-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1010		10.0	ug/L	1000	2.8 U	101	75-125			
Barium	1060		10.0	ug/L	1000	48.1	101	75-125			
Beryllium	526		1.00	ug/L	500	0.10	105	75-125			
Cadmium	495		1.00	ug/L	500	0.19	99	75-125			
Chromium	1030		10.0	ug/L	1000	1.5	103	75-125			
Cobalt	986		10.0	ug/L	1000	0.6 U	99	75-125			
Copper	513		10.0	ug/L	500	1.06	102	75-125			
Lead	1010		10.0	ug/L	1000	2.2	101	75-125			
Nickel	1030		10.0	ug/L	1000	1.0	103	75-125			
Selenium	1060		10.0	ug/L	1000	3.4 U	106	75-125			
Silver	109		10.0	ug/L	100	1.0 U	109	75-125			
Vanadium	526		10.0	ug/L	500	1.7	105	75-125			
Zinc	1050		10.0	ug/L	1000	14.5	104	75-125			

Matrix Spike Dup (9D15006-MSD1) Prepared: 04/15/2009 08:49 Analyzed: 04/17/2009 12:08

Source: C904081-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1030		10.0	ug/L	1000	2.8 U	103	75-125	2	25	
Barium	1080		10.0	ug/L	1000	48.1	103	75-125	2	25	
Beryllium	538		1.00	ug/L	500	0.10	108	75-125	2	25	
Cadmium	502		1.00	ug/L	500	0.19	100	75-125	1	25	
Chromium	1040		10.0	ug/L	1000	1.5	103	75-125	0.3	25	
Cobalt	1010		10.0	ug/L	1000	0.6 U	101	75-125	2	25	
Copper	515		10.0	ug/L	500	1.06	103	75-125	0.3	25	
Lead	1040		10.0	ug/L	1000	2.2	104	75-125	2	25	
Nickel	1050		10.0	ug/L	1000	1.0	105	75-125	2	25	
Selenium	1080		10.0	ug/L	1000	3.4 U	108	75-125	2	25	
Silver	107		10.0	ug/L	100	1.0 U	107	75-125	1	25	
Vanadium	529		10.0	ug/L	500	1.7	106	75-125	0.6	25	
Zinc	1070		10.0	ug/L	1000	14.5	105	75-125	2	25	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9D15006 - EPA 3005A

Batch 9D15010 - EPA 3005A

Blank (9D15010-BLK1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15.15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	5.00	ug/L							
Thallium	0.036	U	2.00	ug/L							

LCS (9D15010-BS1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.3		5.00	ug/L	25.0		105	85-115			
Thallium	26.0		2.00	ug/L	25.0		104	85-115			

Matrix Spike (9D15010-MS1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:25

Source: C904081-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.5		5.00	ug/L	25.0	0.68 U	110	85-115			
Thallium	26.4		2.00	ug/L	25.0	0.036 U	105	85-115			

Matrix Spike Dup (9D15010-MSD1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:29

Source: C904081-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.1		5.00	ug/L	25.0	0.68 U	108	85-115	2	20	
Thallium	26.1		2.00	ug/L	25.0	0.036 U	105	85-115	0.9	20	

Post Spike (9D15010-PS1) Prepared: 04/15/2009 08:53 Analyzed: 04/20/2009 15:32

Source: C904081-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.03		0.002	mg/L	0.0250	0.0002	105	75-125			
Thallium	0.025		0.001	mg/L	0.0250	0.00002	101	75-125			

Classical Chemistry Parameters - Quality Control

Batch 9D14015 - NO PREP

Blank (9D14015-BLK1) Prepared: 04/14/2009 15:50 Analyzed: 04/20/2009 18:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							Q

LCS (9D14015-BS1) Prepared: 04/14/2009 15:50 Analyzed: 04/20/2009 18:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	180		2.0	mg/L	198		90	85-115			Q

Duplicate (9D14015-DUP1) Prepared: 04/14/2009 15.50 Analyzed: 04/20/2009 18:35

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D14015 - NO PREP

Duplicate (9D14015-DUP1) Continued Prepared: 04/14/2009 15:50 Analyzed: 04/20/2009 18:35

Source: C903939-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L		2.0 U				25	Q

Batch 9D15002 - NO PREP

LCS (9D15002-BS1) Prepared: 04/15/2009 08:11 Analyzed: 04/15/2009 15:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		103	80-120			

Matrix Spike (9D15002-MS1) Prepared: 04/15/2009 08:11 Analyzed: 04/15/2009 09:11

Source: C903592-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.98		0.10	mg/L	1.00	0.050	93	80-120			

Matrix Spike Dup (9D15002-MSD1) Prepared: 04/15/2009 08:11 Analyzed: 04/15/2009 09:12

Source: C903592-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.98		0.10	mg/L	1.00	0.050	93	80-120	0.07	25	

Batch 9D15014 - NO PREP

LCS (9D15014-BS1) Prepared & Analyzed: 04/15/2009 13:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units	7.01		100	99-101			

Duplicate (9D15014-DUP1) Prepared & Analyzed: 04/15/2009 13:34

Source: C904082-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	6.8		1.0	pH Units		6.8			0	25	Q

Batch 9D17011 - Same

Blank (9D17011-BLK1) Prepared: 04/17/2009 11:32 Analyzed: 04/19/2009 13:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (9D17011-BS1) Prepared: 04/17/2009 11:32 Analyzed: 04/19/2009 13:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.5		0.10	mg/L	1.60		94	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D17011 - Same

Matrix Spike (9D17011-MS1) Prepared: 04/17/2009 11:32 Analyzed: 04/19/2009 13:23

Source: C903552-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60	0.050 U	98	80-120			

Matrix Spike Dup (9D17011-MSD1) Prepared: 04/17/2009 11:32 Analyzed: 04/19/2009 13:25

Source: C903552-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60	0.050 U	99	80-120	1	25	

Batch 9D19002 - NO PREP

Blank (9D19002-BLK1) Prepared: 04/19/2009 09:53 Analyzed: 04/20/2009 12:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.017	U	0.10	mg/L							

LCS (9D19002-BS1) Prepared: 04/19/2009 09:53 Analyzed: 04/20/2009 12:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		104	80-120			

Matrix Spike (9D19002-MS1) Prepared: 04/19/2009 09:53 Analyzed: 04/20/2009 12:50

Source: C904513-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.5		0.10	mg/L	1.28	0.094	107	80-120			

Matrix Spike Dup (9D19002-MSD1) Prepared: 04/19/2009 09:53 Analyzed: 04/20/2009 12:51

Source: C904513-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	1.28	0.094	105	80-120	2	25	

Batch 9D20018 - NO PREP

Blank (9D20018-BLK1) Prepared: 04/20/2009 10:58 Analyzed: 04/21/2009 00:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.078	U	5.0	mg/L							

LCS (9D20018-BS1) Prepared: 04/20/2009 10:58 Analyzed: 04/21/2009 04:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	46		5.0	mg/L	50.0		91	90-110			

Matrix Spike (9D20018-MS1) Prepared: 04/20/2009 10:58 Analyzed: 04/21/2009 16:49

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D20018 - NO PREP

Matrix Spike (9D20018-MS1) Continued Prepared: 04/20/2009 10:58 Analyzed: 04/21/2009 16:49

Source: C904513-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	54		5.0	mg/L	50.0	5.2	98	80-120			

Matrix Spike Dup (9D20018-MSD1) Prepared: 04/20/2009 10:58 Analyzed: 04/21/2009 17:11

Source: C904513-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	53		5.0	mg/L	50.0	5.2	95	80-120	3	15	

Batch 9D24021 - NO PREP

Blank (9D24021-BLK1) Prepared: 04/24/2009 15:15 Analyzed: 04/27/2009 15:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	3.1	U	10	mg/L							

LCS (9D24021-BS1) Prepared: 04/24/2009 15:15 Analyzed: 04/27/2009 15:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	510		10	mg/L	500		103	90-110			

Matrix Spike (9D24021-MS1) Prepared: 04/24/2009 15:15 Analyzed: 04/27/2009 15:18

Source: C904661-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	650		10	mg/L	500	110	108	90-110			

Matrix Spike Dup (9D24021-MSD1) Prepared: 04/24/2009 15:15 Analyzed: 04/27/2009 15:18

Source: C904661-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	620		10	mg/L	500	110	104	90-110	3	10	

Batch 9D27029 - NO PREP

Blank (9D27029-BLK1) Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	3.1	U	10	mg/L							

LCS (9D27029-BS1) Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520		10	mg/L	500		104	90-110			

Matrix Spike (9D27029-MS1) Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9D27029 - NO PREP

Matrix Spike (9D27029-MS1) Continued Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

Source: C904733-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	640		10	mg/L	500	110	106	90-110			

Matrix Spike Dup (9D27029-MSD1) Prepared: 04/27/2009 10:30 Analyzed: 04/28/2009 13:50

Source: C904733-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	620		10	mg/L	500	110	103	90-110	3	10	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
Q	Analysis performed outside of method specified holding time.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 826-5814
4810 Executive Park Court, Suite 211 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
1901-A Westwards Industrial Dr. Cary, NC 27511 (919) 467-3696 Fax (919) 467-3815

Page ___ of ___

Client Name: S&ME, Inc. (SM004)	Project Number: [none]
Address: 3718 Old Battleground Rd.	Project Name/No.: White Street Landfill Leachate
City, ST, Zip: Greensboro, NC 27410	PO # / Billing Info:
Tel: (336) 288-7180 Fax: (336) 288-8980	Reporting Contact: Edmund Henriques
Sampler(s) Name (Print Clearly): Gary Simcox / S&ME, Inc.	Report Delivery: Accounts Payable
Sampler(s) Signature:	Facility ID (if regulated):

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C904082

Item #	Sample Identification/Location	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	BOD SM5210B	COD SM5220D	Nitrate Calc 353.2	Nitrite as N 353.2,pH SM4500 H B	NOX 353.2,P	Sulfate 300			Sample Comments
	4103 Leachate	4/13/09	1055	G	GW	7	X	X	X	X	X	X	X	X			

Preservation (Pre Codes, Combo as necessary)

<-- Total # of Containers

Relinquished By: [signature] Date/Time: 4/14/09 1100	Received By: [signature] Date/Time: 4/14/09 0730	Relinquished By: Date/Time:	Received By: Date/Time:
Relinquished By: B.W. Date/Time: 4/14/09 1200	Received By: B.W. Date/Time: 4/14/09 600	Relinquished By: Date/Time:	Received By: Date/Time:
Relinquished By: Date/Time:	Received By: Buena Henry Date/Time: 4/14/09 15:30		

Comments:

Cooler Temp. Upon Receipt: 1.9°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SD-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (specify in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (specify in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form (unless prior written agreement exists)

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ENVIRONMENTAL CONSERVATION LABORATORIES, INC

Sample preservation verification

☒ Cary ☐ Jacksonville ☐ Orlando

Work order: C904082 Page: 1 of 1 Initials: BSG Date: 4/14/04

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	~~TPH~~ Phen	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-8	>9	<2	
Q 1	✓	✓		✓							✓				
2															
3															
4															
5															
6															
7															
8															
9															
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6															
7															
8															
9															
0															

	Reagent name	ID		Reagent name	ID		Reagent name	ID
1			3			5		
2			4			6		

APPENDIX C

Descriptive Statistics

Basic Statistics

Parameter: Barium, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	264
Total Non-Detects	215 (81.4394%)
Pooled Mean	425.034
Pooled Std Dev	165.292
Compliance Meas.	220
Compliance Mean	426.133
Compliance Std Dev	165.942
Background Meas.	44
Background Mean	419.539
Background Std Dev	163.783

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	22	18	81.8182	9116.7
MW-16	22	17	77.2727	9343

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	414.395	185.869	0	2854	129.727
MW-16	424.682	142.564	0	3117	141.682

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	22	18	81.8182	9209.9
MW-18	22	18	81.8182	9114.4
MW-19	22	17	77.2727	8681.6
MW-20	22	18	81.8182	9220.9
MW-21	22	18	81.8182	9121
MW-22	22	18	81.8182	9501.9
MW-23	22	18	81.8182	9247.4
MW-24	22	17	77.2727	10549
MW-25	22	20	90.9091	10042.4
MW-25d	22	18	81.8182	9060.7

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	418.632	176.675	-0.906818	43.7172	2907	132.136
MW-18	414.291	186.103	-5.24773	43.7172	2856	129.818
MW-19	394.618	199.066	-24.9205	43.7172	3010	136.818
MW-20	419.132	175.636	-0.406818	43.7172	2919	132.682
MW-21	414.591	185.444	-4.94773	43.7172	2867	130.318
MW-22	431.905	149.612	12.3659	43.7172	2958	134.455
MW-23	420.336	172.973	0.797727	43.7172	2928	133.091
MW-24	479.5	44.7126	59.9614	43.7172	3146	143
MW-25	456.473	140.885	36.9341	43.7172	2603	118.318
MW-25d	411.85	191.398	-7.68864	43.7172	2815	127.955

Analysis of Variance Statistics

SS Wells	121808
SS Total	7.18557e+006

Kruskal-Wallis Statistics

Non-Detect Rank	108
Background Rank Sum	5971
Background Rank Mean	135.705
H Statistic	1.46229
H Adjusted for Ties	3.17981

Basic Statistics

Parameter: Vanadium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	276
Total Non-Detects	244 (88.4058%)
Pooled Mean	35.9525
Pooled Std Dev	11.7805
Compliance Meas.	230
Compliance Mean	35.6326
Compliance Std Dev	12.1967
Background Meas.	46
Background Mean	37.5522
Background Std Dev	9.37808

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	23	22	95.6522	880.8
MW-16	23	21	91.3043	846.6

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	38.2957	8.17377	0	2941	127.87
MW-16	36.8087	10.5796	0	3093.5	134.5

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	23	19	82.6087	769
MW-18	23	19	82.6087	777.6
MW-19	23	18	78.2609	801.2
MW-20	23	19	82.6087	779.1
MW-21	23	20	86.9565	805.6
MW-22	23	22	95.6522	881
MW-23	23	23	100	920
MW-24	23	21	91.3043	845.8
MW-25	23	21	91.3043	842.9
MW-25d	23	19	82.6087	773.3

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	33.4348	14.6324	-4.11739	3.02193	3345.5	145.457
MW-18	33.8087	13.864	-3.74348	3.02193	3374.5	146.717
MW-19	34.8348	15.1682	-2.71739	3.02193	3554	154.522
MW-20	33.8739	13.6659	-3.67826	3.02193	3401.5	147.891
MW-21	35.0261	13.1348	-2.52609	3.02193	3210	139.565
MW-22	38.3043	8.13206	0.752174	3.02193	2943	127.957
MW-23	40	0	2.44783	3.02193	2817.5	122.5
MW-24	36.7739	10.6921	-0.778261	3.02193	3090.5	134.37
MW-25	36.6478	11.1081	-0.904348	3.02193	3073.5	133.63
MW-25d	33.6217	14.2143	-3.93043	3.02193	3381.5	147.022

Analysis of Variance Statistics

SS Wells	1198.08
SS Total	38164.7

Kruskal-Wallis Statistics

Non-Detect Rank	122.5
Background Rank Sum	6034.5
Background Rank Mean	131.185
H Statistic	3.78891
H Adjusted for Ties	12.2595

Concentrations (ppb)

Parameter: Barium, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 264
Total Non-Detect: 215
Percent Non-Detects: 81.4394%
Total Background Measurements: 44
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	22	18 (81.8182%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	29.9	29.9
			5/2/2008	30.3	30.3
			12/5/2008	28.6	28.6
			4/15/2009	27.9	27.9
MW-16	22	17 (77.2727%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	208	208
			9/24/2007	176	176
			5/2/2008	148	148
			12/5/2008	163	163
			4/15/2009	148	148

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	22	18 (81.8182%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	50.3	50.3
			5/2/2008	52.7	52.7
			12/5/2008	49.3	49.3
			4/15/2009	57.6	57.6

MW-18	22	18 (81.8182%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	29	29
			5/2/2008	23	23
			12/5/2008	28.1	28.1
			4/15/2009	34.3	34.3
MW-19	22	17 (77.2727%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	69	69
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	17.2	17.2
			5/2/2008	31.7	31.7
			12/5/2008	31	31
			4/15/2009	32.7	32.7
MW-20	22	18 (81.8182%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	39.2	39.2
			5/2/2008	55.4	55.4
			12/5/2008	63.6	63.6
			4/15/2009	62.7	62.7
MW-21	22	18 (81.8182%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500

			4/9/2007	ND<500	ND<500
			9/24/2007	30.7	30.7
			5/2/2008	30	30
			12/5/2008	30.1	30.1
			4/15/2009	30.2	30.2
MW-22	22	18 (81.8182%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	80.4	80.4
			5/2/2008	136	136
			12/5/2008	78.5	78.5
			4/15/2009	207	207
MW-23	22	18 (81.8182%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	60	60
			5/2/2008	66.6	66.6
			12/5/2008	61.4	61.4
			4/15/2009	59.4	59.4
MW-24	22	17 (77.2727%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	332	332
			9/24/2007	382	382
			5/2/2008	444	444
			12/5/2008	444	444
			4/15/2009	447	447
MW-25	22	20 (90.9091%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500

			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	ND<500	ND<500
			5/2/2008	19.6	19.6
			12/5/2008	ND<500	ND<500
			4/15/2009	22.8	22.8
MW-25d	22	18 (81.8182%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	13	13
			5/2/2008	16.2	16.2
			12/5/2008	12.4	12.4
			4/15/2009	19.1	19.1

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Concentrations (ppb)

Parameter: Vanadium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 276
Total Non-Detect: 244
Percent Non-Detects: 88.4058%
Total Background Measurements: 46
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	23	22 (95.6522%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	ND<40	ND<40
			12/5/2008	ND<40	ND<40
			4/15/2009	0.8	0.8
MW-16	23	21 (91.3043%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	4.5	4.5
			12/5/2008	ND<40	ND<40
			4/15/2009	2.1	2.1

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	23	19 (82.6087%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	1.4	1.4
			5/2/2008	2	2

			12/5/2008	2.6	2.6
			4/15/2009	3	3
MW-18	23	19 (82.6087%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	9.9	9.9
			5/2/2008	2.1	2.1
			12/5/2008	3.1	3.1
			4/15/2009	2.5	2.5
MW-19	23	18 (78.2609%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	64	64
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	3.9	3.9
			5/2/2008	5	5
			12/5/2008	3.6	3.6
			4/15/2009	4.7	4.7
MW-20	23	19 (82.6087%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	2.3	2.3
			5/2/2008	5.1	5.1
			12/5/2008	6	6
			4/15/2009	5.7	5.7
MW-21	23	20 (86.9565%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40

			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	2.6	2.6
			12/5/2008	2.3	2.3
			4/15/2009	0.7	0.7
MW-22	23	22 (95.6522%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	ND<40	ND<40
			12/5/2008	ND<40	ND<40
			4/15/2009	1	1
MW-23	23	23 (100%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	ND<40	ND<40
			12/5/2008	ND<40	ND<40
			4/15/2009	ND<40	ND<40
MW-24	23	21 (91.3043%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	ND<40	ND<40
			12/5/2008	2	2
			4/15/2009	3.8	3.8
MW-25	23	21 (91.3043%)	12/16/1997	ND<40	ND<40

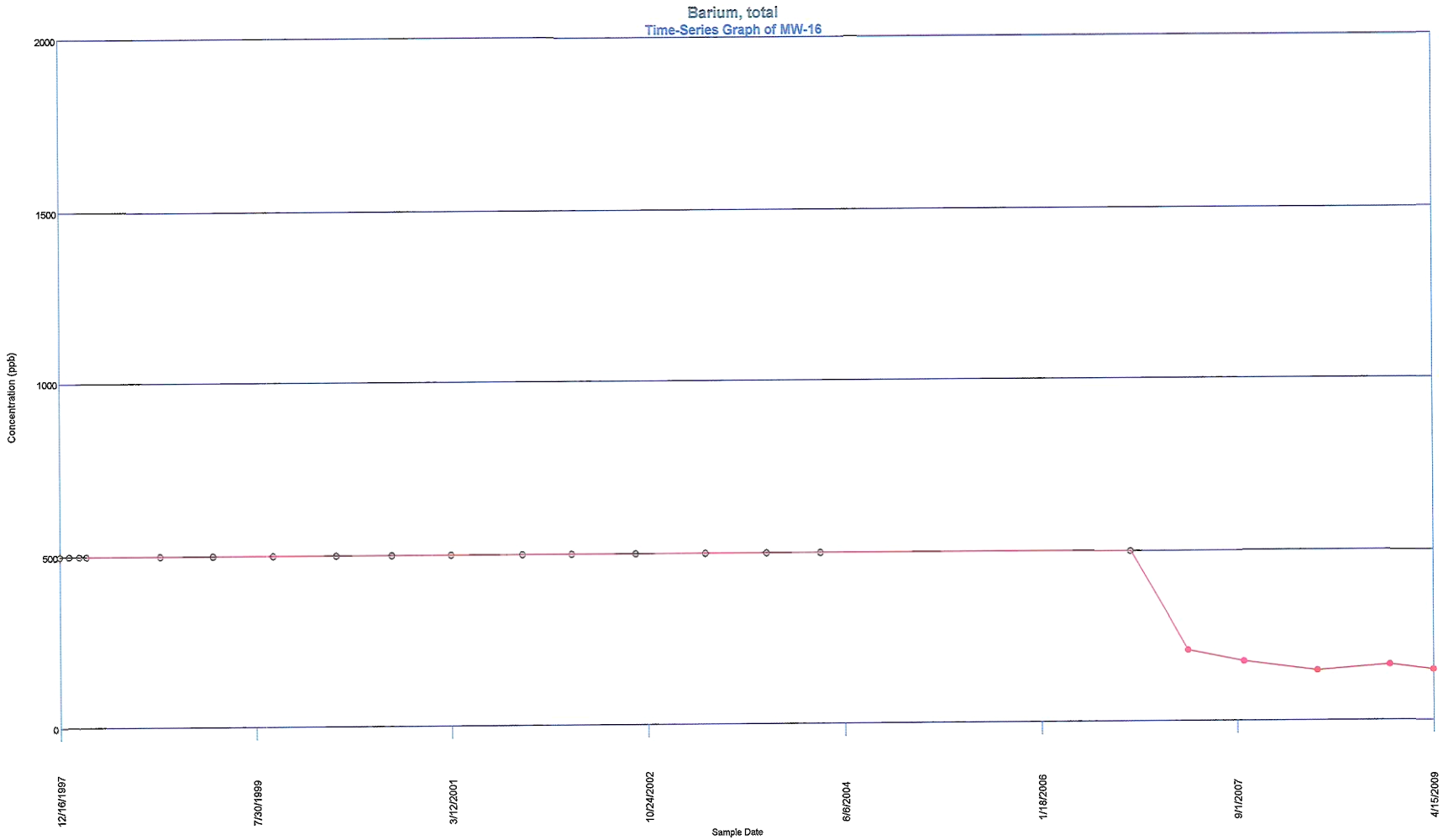
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	2.1	2.1
			12/5/2008	ND<40	ND<40
			4/15/2009	0.8	0.8
MW-25d	23	19 (82.6087%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	2.8	2.8
			5/2/2008	3.6	3.6
			12/5/2008	3.7	3.7
			4/15/2009	3.2	3.2

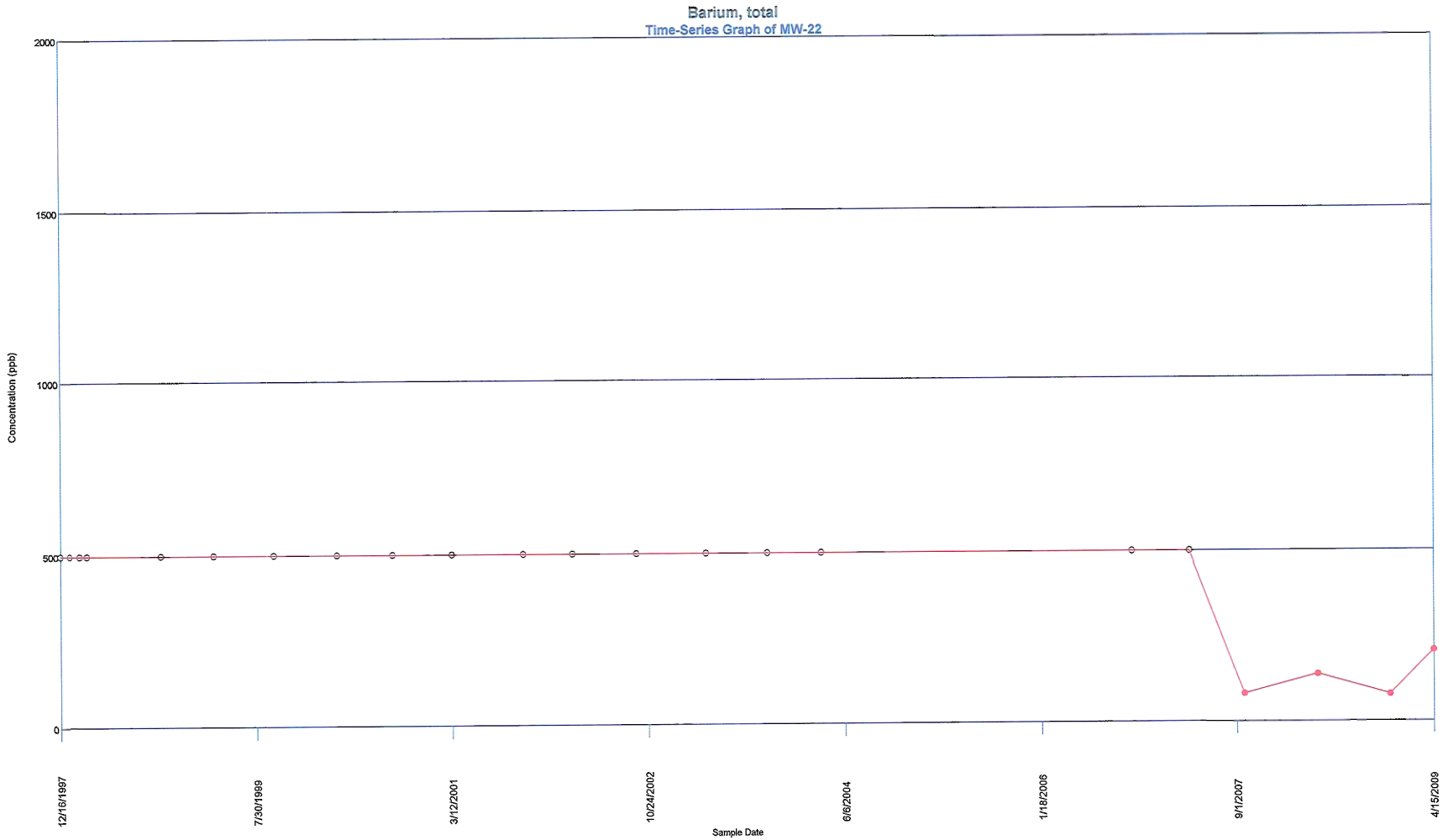
There are 0 unused locations

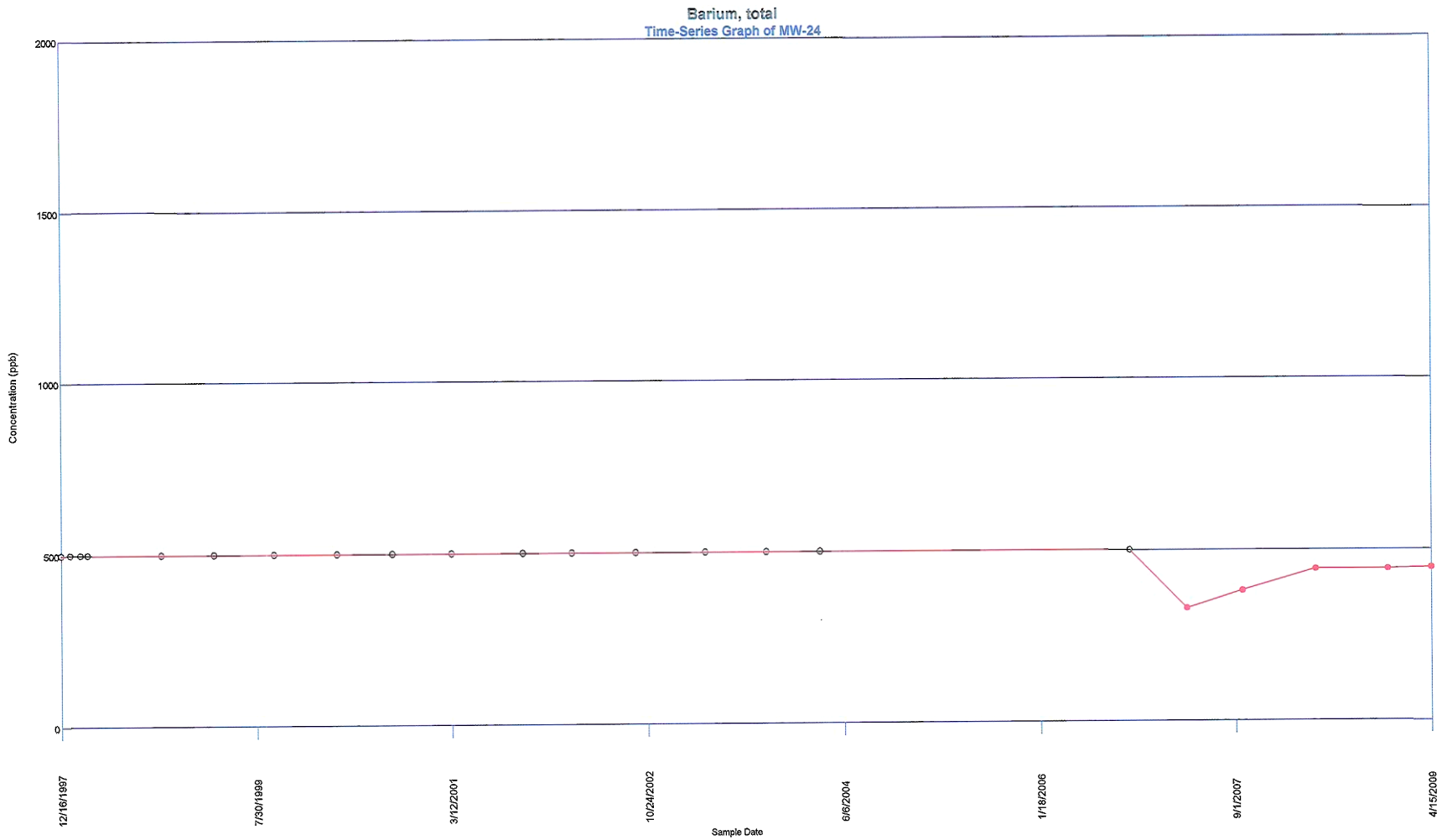
Loc.	Meas.	ND	Date	Conc.	Original

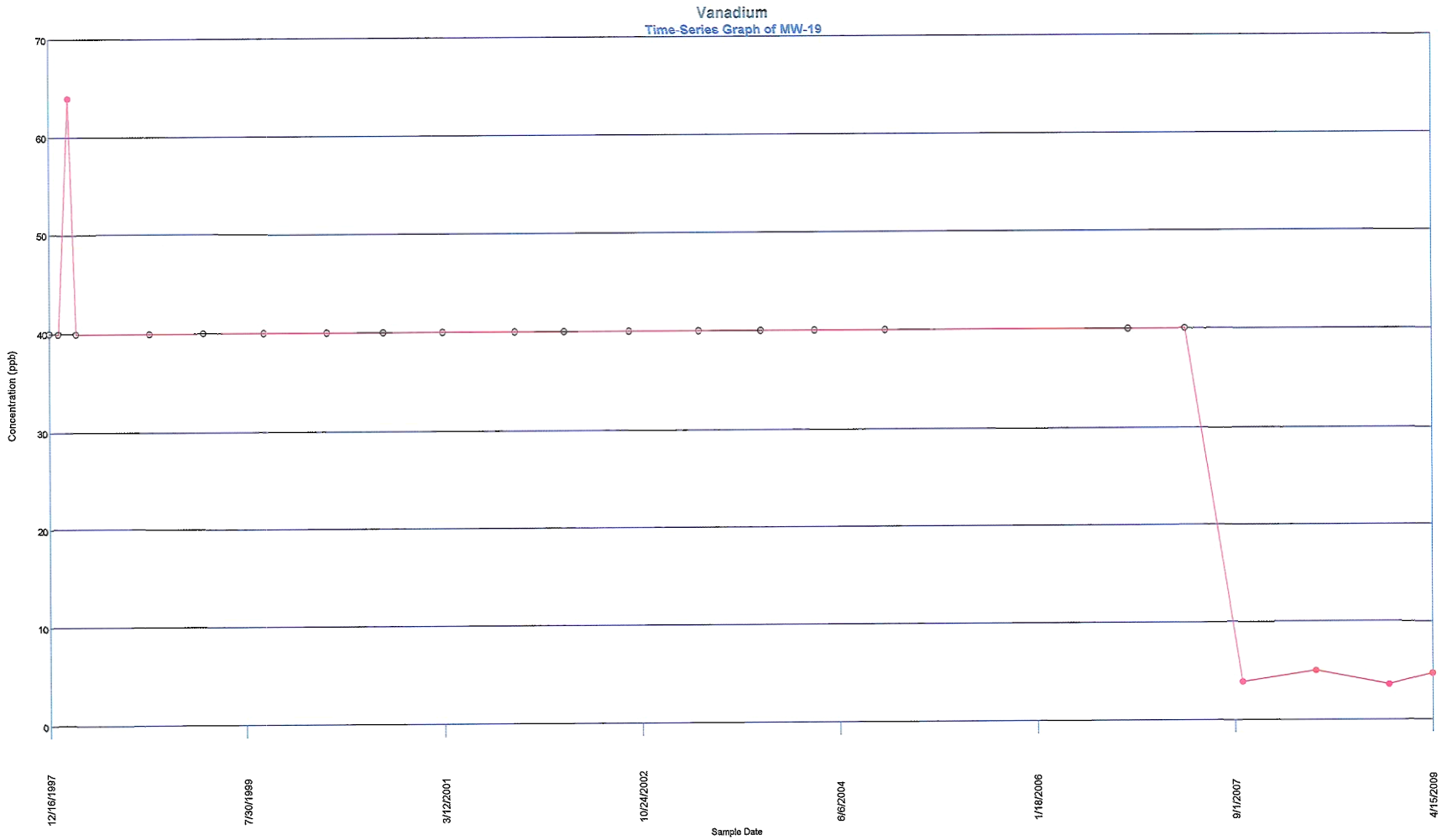
APPENDIX D

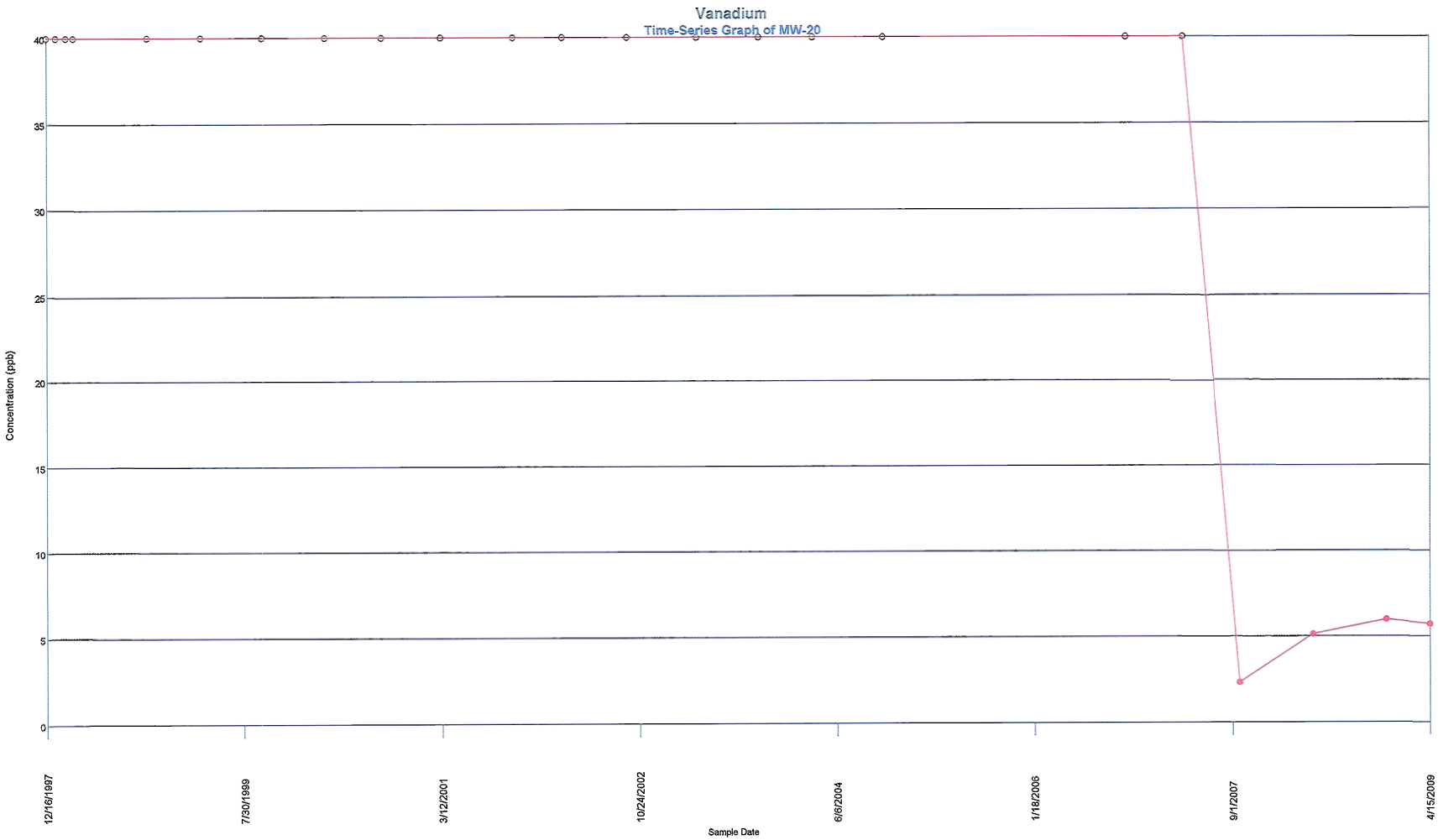
Time vs. Concentration Graphs

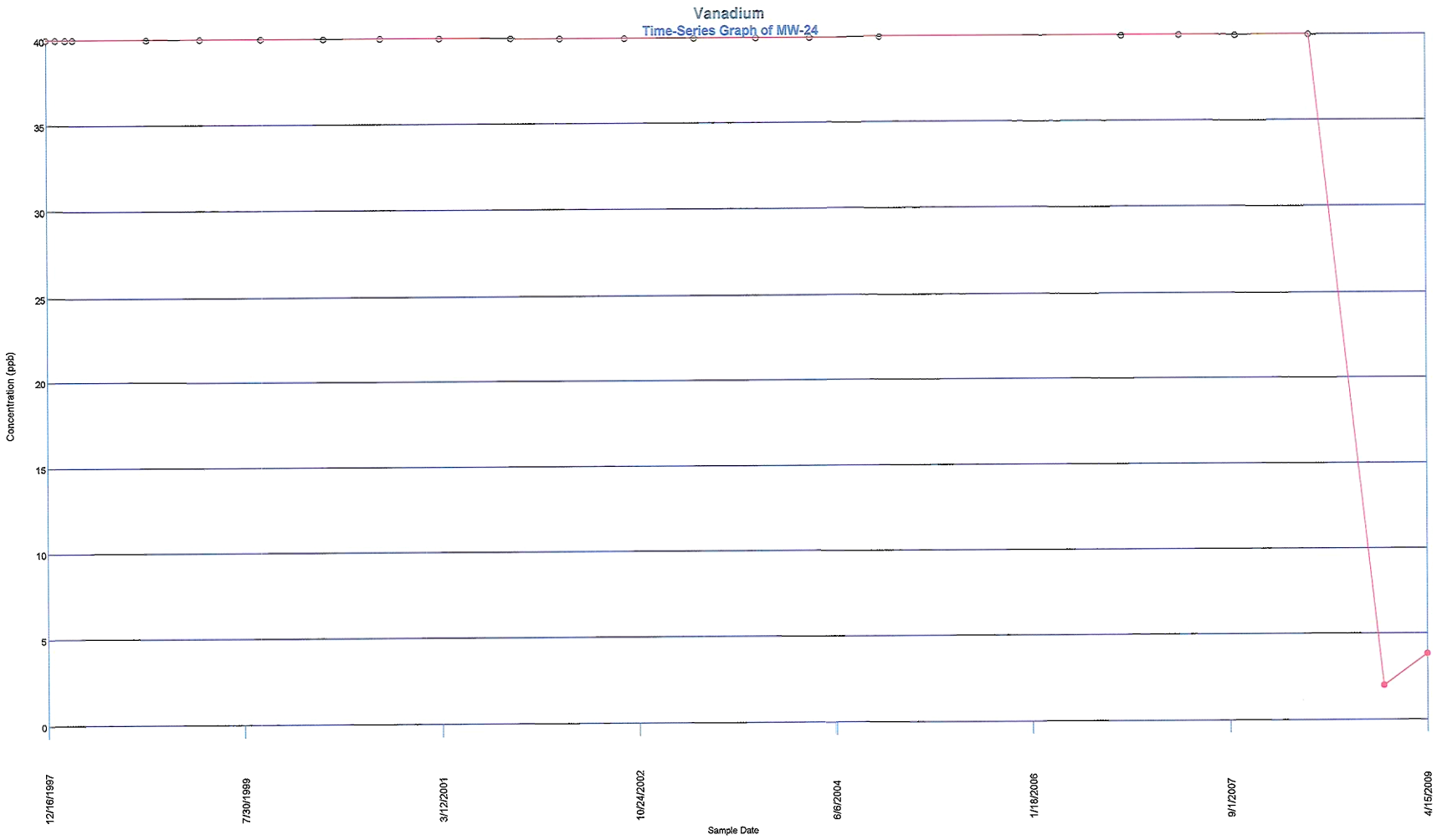

Barium, total
Time-Series Graph of MW-16
Concentration (ppb)
2000
1500
1000
500
0
12/16/1997
7/30/1999
3/12/2001
10/24/2002
6/6/2004
1/18/2006
9/1/2007
4/15/2009
Sample Date


Barium, total
Time-Series Graph of MW-22
Concentration (ppb)
2000
1500
1000
500
0
12/16/1997
7/30/1999
3/12/2001
10/24/2002
6/6/2004
1/18/2006
9/1/2007
4/15/2009
Sample Date


Barium, total
Time-Series Graph of MW-24
Concentration (ppb)
2000
1500
1000
500
0
12/16/1997
7/30/1999
3/12/2001
10/24/2002
6/6/2004
1/18/2006
9/1/2007
4/15/2009
Sample Date


Vanadium
Time-Series Graph of MW-19
Concentration (ppb)
70
60
50
40
30
20
10
0
12/16/1997
7/30/1999
3/12/2001
10/24/2002
6/6/2004
1/18/2006
9/1/2007
4/15/2009
Sample Date


Vanadium
Time-Series Graph of MW-20
Concentration (ppb)
40
35
30
25
20
15
10
5
0
12/16/1997
7/30/1999
3/12/2001
10/24/2002
6/6/2004
1/18/2006
9/1/2007
4/15/2009
Sample Date


Vanadium
Time-Series Graph of MW-24
Concentration (ppb)
40
35
30
25
20
15
10
5
0
12/16/1997
7/30/1999
3/12/2001
10/24/2002
6/6/2004
1/18/2006
9/1/2007
4/15/2009
Sample Date

APPENDIX E

Data Distribution Tests

Shapiro-Francia Test of Normality

Parameter: Barium, total

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 264

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	12.4	-2.74777	7.55021	-34.0723
2	13	-2.45727	13.5884	-66.0168
3	16.2	-2.29036	18.8342	-103.121
4	17.2	-2.17009	23.5435	-140.446
5	19.1	-2.09693	27.9406	-180.498
6	19.6	-2.01409	31.9972	-219.974
7	22.8	-1.94314	35.7729	-264.277
8	23	-1.88079	39.3103	-307.536
9	27.9	-1.83843	42.6901	-358.828
10	28.1	-1.78661	45.8821	-409.031
11	28.6	-1.7392	48.9069	-458.772
12	29	-1.6954	51.7813	-507.939
13	29.9	-1.65463	54.5191	-557.412
14	30	-1.62576	57.1622	-606.185
15	30.1	-1.58927	59.6879	-654.022
16	30.2	-1.55477	62.1053	-700.976
17	30.3	-1.52203	64.4218	-747.094
18	30.7	-1.49852	66.6674	-793.098
19	31	-1.46838	68.8235	-838.618
20	31.7	-1.43953	70.8958	-884.251
21	32.7	-1.41183	72.8891	-930.418
22	34.3	-1.38517	74.8078	-977.93
23	39.2	-1.36581	76.6732	-1031.47
24	49.3	-1.34075	78.4708	-1097.57
25	50.3	-1.31652	80.204	-1163.79
26	52.7	-1.29303	81.876	-1231.93
27	55.4	-1.27588	83.5038	-1302.62
28	57.6	-1.25357	85.0753	-1374.82
29	59.4	-1.23187	86.5928	-1447.99
30	60	-1.21073	88.0586	-1520.64
31	61.4	-1.19522	89.4872	-1594.02
32	62.7	-1.17499	90.8678	-1667.7
33	63.6	-1.15522	92.2023	-1741.17
34	66.6	-1.1359	93.4926	-1816.82
35	69	-1.11699	94.7402	-1893.89
36	78.5	-1.10306	95.957	-1980.48
37	80.4	-1.08482	97.1338	-2067.7
38	136	-1.06694	98.2722	-2212.8
39	148	-1.04939	99.3734	-2368.11
40	148	-1.03643	100.448	-2521.51
41	163	-1.01943	101.487	-2687.67
42	176	-1.00271	102.492	-2864.15
43	207	-0.986272	103.465	-3068.31
44	208	-0.970094	104.406	-3270.09
45	332	-0.958125	105.324	-3588.19
46	382	-0.942375	106.212	-3948.17
47	444	-0.926859	107.071	-4359.7
48	444	-0.911562	107.902	-4764.43
49	447	-0.900227	108.713	-5166.83
50	500	-0.885291	109.496	-5609.48
51	500	-0.87055	110.254	-6044.75
52	500	-0.855996	110.987	-6472.75
53	500	-0.841621	111.695	-6893.56
54	500	-0.830953	112.386	-7309.04
55	500	-0.816874	113.053	-7717.48
56	500	-0.802956	113.698	-8118.95
57	500	-0.789191	114.321	-8513.55
58	500	-0.778966	114.927	-8903.03
59	500	-0.765456	115.513	-9285.76
60	500	-0.752084	116.079	-9661.8
61	500	-0.738846	116.625	-10031.2
62	500	-0.729003	117.156	-10395.7
63	500	-0.715986	117.669	-10753.7
64	500	-0.703089	118.163	-11105.3
65	500	-0.690309	118.64	-11450.4
66	500	-0.677639	119.099	-11789.2
67	500	-0.668209	119.545	-12123.3
68	500	-0.655726	119.975	-12451.2
69	500	-0.643345	120.389	-12772.9
70	500	-0.631062	120.788	-13088.4
71	500	-0.621911	121.174	-13399.4
72	500	-0.609791	121.546	-13704.3
73	500	-0.597761	121.903	-14003.1
74	500	-0.585815	122.247	-14296
75	500	-0.573953	122.576	-14583
76	500	-0.565108	122.895	-14865.6

77	500	-0.553384	123.202	-15142.3
78	500	-0.541736	123.495	-15413.1
79	500	-0.530162	123.776	-15678.2
80	500	-0.521527	124.048	-15939
81	500	-0.510074	124.308	-16194
82	500	-0.498687	124.557	-16443.4
83	500	-0.487364	124.795	-16687
84	500	-0.478914	125.024	-16926.5
85	500	-0.467699	125.243	-17160.4
86	500	-0.456542	125.451	-17388.6
87	500	-0.445443	125.65	-17611.3
88	500	-0.434397	125.838	-17828.5
89	500	-0.426148	126.02	-18041.6
90	500	-0.415193	126.192	-18249.2
91	500	-0.40429	126.356	-18451.4
92	500	-0.393433	126.51	-18648.1
93	500	-0.385321	126.659	-18840.7
94	500	-0.374544	126.799	-19028
95	500	-0.363809	126.932	-19209.9
96	500	-0.353118	127.056	-19386.5
97	500	-0.342466	127.174	-19557.7
98	500	-0.334503	127.285	-19725
99	500	-0.323919	127.39	-19886.9
100	500	-0.31337	127.489	-20043.6
101	500	-0.302855	127.58	-20195
102	500	-0.294992	127.667	-20342.5
103	500	-0.284535	127.748	-20484.8
104	500	-0.27411	127.823	-20621.8
105	500	-0.263715	127.893	-20753.7
106	500	-0.253347	127.957	-20880.4
107	500	-0.24559	128.017	-21003.2
108	500	-0.235269	128.073	-21120.8
109	500	-0.224974	128.123	-21233.3
110	500	-0.214702	128.169	-21340.6
111	500	-0.207012	128.212	-21444.2
112	500	-0.196779	128.251	-21542.5
113	500	-0.186567	128.286	-21635.8
114	500	-0.176374	128.317	-21724
115	500	-0.168741	128.345	-21808.4
116	500	-0.158579	128.371	-21887.7
117	500	-0.148434	128.393	-21961.9
118	500	-0.138305	128.412	-22031
119	500	-0.128189	128.428	-22095.1
120	500	-0.12061	128.443	-22155.4
121	500	-0.110516	128.455	-22210.7
122	500	-0.100433	128.465	-22260.9
123	500	-0.0903606	128.473	-22306.1
124	500	-0.0828129	128.48	-22347.5
125	500	-0.0727562	128.485	-22383.9
126	500	-0.0627062	128.489	-22415.2
127	500	-0.0526632	128.492	-22441.6
128	500	-0.0426257	128.494	-22462.9
129	500	-0.0350997	128.495	-22480.4
130	500	-0.0250691	128.496	-22493
131	500	-0.0150408	128.496	-22500.5
132	500	-0.00501359	128.496	-22503
133	500	0.00501359	128.496	-22500.5
134	500	0.0150408	128.496	-22493
135	500	0.0250691	128.497	-22480.4
136	500	0.0350997	128.498	-22462.9
137	500	0.0426257	128.5	-22441.6
138	500	0.0526632	128.503	-22415.2
139	500	0.0627062	128.507	-22383.9
140	500	0.0727562	128.512	-22347.5
141	500	0.0828129	128.519	-22306.1
142	500	0.0903606	128.527	-22260.9
143	500	0.100433	128.537	-22210.7
144	500	0.110516	128.549	-22155.4
145	500	0.12061	128.564	-22095.1
146	500	0.128189	128.58	-22031
147	500	0.138305	128.599	-21961.9
148	500	0.148434	128.621	-21887.7
149	500	0.158579	128.647	-21808.4
150	500	0.168741	128.675	-21724
151	500	0.176374	128.706	-21635.8
152	500	0.186567	128.741	-21542.5
153	500	0.196779	128.78	-21444.2
154	500	0.207012	128.822	-21340.6
155	500	0.214702	128.869	-21233.3
156	500	0.224974	128.919	-21120.8
157	500	0.235269	128.975	-21003.2
158	500	0.24559	129.035	-20880.4
159	500	0.253347	129.099	-20753.7
160	500	0.263715	129.169	-20621.8
161	500	0.27411	129.244	-20484.8
162	500	0.284535	129.325	-20342.5

163	500	0.294992	129.412	-20195
164	500	0.302855	129.503	-20043.6
165	500	0.31337	129.602	-19886.9
166	500	0.323919	129.707	-19725
167	500	0.334503	129.818	-19557.7
168	500	0.342466	129.936	-19386.5
169	500	0.353118	130.06	-19209.9
170	500	0.363809	130.193	-19028
171	500	0.374544	130.333	-18840.7
172	500	0.385321	130.482	-18648.1
173	500	0.393433	130.636	-18451.4
174	500	0.40429	130.8	-18249.2
175	500	0.415193	130.972	-18041.6
176	500	0.426148	131.154	-17828.5
177	500	0.434397	131.342	-17611.3
178	500	0.445443	131.541	-17388.6
179	500	0.456542	131.749	-17160.4
180	500	0.467699	131.968	-16926.5
181	500	0.478914	132.197	-16687
182	500	0.487364	132.435	-16443.4
183	500	0.498687	132.684	-16194
184	500	0.510074	132.944	-15939
185	500	0.521527	133.216	-15678.2
186	500	0.530162	133.497	-15413.1
187	500	0.541736	133.79	-15142.3
188	500	0.553384	134.097	-14865.6
189	500	0.565108	134.416	-14583
190	500	0.573953	134.745	-14296
191	500	0.585815	135.089	-14003.1
192	500	0.597761	135.446	-13704.3
193	500	0.609791	135.818	-13399.4
194	500	0.621911	136.204	-13088.4
195	500	0.631062	136.603	-12772.9
196	500	0.643345	137.017	-12451.2
197	500	0.655726	137.447	-12123.3
198	500	0.668209	137.893	-11789.2
199	500	0.677639	138.352	-11450.4
200	500	0.690309	138.829	-11105.3
201	500	0.703089	139.323	-10753.7
202	500	0.715986	139.836	-10395.7
203	500	0.729003	140.367	-10031.2
204	500	0.738846	140.913	-9661.8
205	500	0.752084	141.479	-9285.76
206	500	0.765456	142.065	-8903.03
207	500	0.778966	142.671	-8513.55
208	500	0.789191	143.294	-8118.95
209	500	0.802956	143.939	-7717.48
210	500	0.816874	144.606	-7309.04
211	500	0.830953	145.297	-6893.56
212	500	0.841621	146.005	-6472.75
213	500	0.855996	146.738	-6044.75
214	500	0.87055	147.496	-5609.48
215	500	0.885291	148.279	-5166.83
216	500	0.900227	149.09	-4716.72
217	500	0.911562	149.921	-4260.94
218	500	0.926859	150.78	-3797.51
219	500	0.942375	151.668	-3326.32
220	500	0.958125	152.586	-2847.26
221	500	0.970094	153.527	-2362.21
222	500	0.986272	154.5	-1869.08
223	500	1.00271	155.505	-1367.72
224	500	1.01943	156.544	-858.006
225	500	1.03643	157.619	-339.79
226	500	1.04939	158.72	184.904
227	500	1.06694	159.858	718.372
228	500	1.08482	161.035	1260.78
229	500	1.10306	162.252	1812.31
230	500	1.11699	163.499	2370.81
231	500	1.1359	164.79	2938.76
232	500	1.15522	166.124	3516.37
233	500	1.17499	167.505	4103.86
234	500	1.19522	168.933	4701.47
235	500	1.21073	170.399	5306.84
236	500	1.23187	171.917	5922.77
237	500	1.25357	173.488	6549.55
238	500	1.27588	175.116	7187.49
239	500	1.29303	176.788	7834.01
240	500	1.31652	178.521	8492.27
241	500	1.34075	180.319	9162.64
242	500	1.36581	182.184	9845.55
243	500	1.38517	184.103	10538.1
244	500	1.41183	186.096	11244
245	500	1.43953	188.168	11963.8
246	500	1.46838	190.325	12698
247	500	1.49852	192.57	13447.3
248	500	1.52203	194.887	14208.3

249	500	1.55477	197.304	14985.7
250	500	1.58927	199.83	15780.3
251	500	1.62576	202.473	16593.2
252	500	1.65463	205.211	17420.5
253	500	1.6954	208.085	18268.2
254	500	1.7392	211.11	19137.8
255	500	1.78661	214.302	20031.1
256	500	1.83843	217.682	20950.3
257	500	1.88079	221.219	21890.7
258	500	1.94314	224.995	22862.3
259	500	2.01409	229.051	23869.3
260	500	2.09693	233.449	24917.8
261	500	2.17009	238.158	26002.8
262	500	2.29036	243.404	27148
263	500	2.45727	249.442	28376.6
264	500	2.74777	256.992	29750.5

Data Set Standard Deviation = 165.292
Numerator = 8.85094e+008
Denominator = 1.84664e+009
W Statistic = 0.479301 = 8.85094e+008 / 1.84664e+009

5% Critical value of 0.976 exceeds 0.479301
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.479301
Evidence of non-normality at 99% level of significance

Shapiro-Francia Test of Normality

Parameter: Vanadium

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 276

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	0.7	-2.74777	7.55021	-1.92344
2	0.8	-2.45727	13.5884	-3.88925
3	0.8	-2.32634	19.0003	-5.75033
4	1	-2.19728	23.8283	-7.94761
5	1.4	-2.09693	28.2255	-10.8833
6	2	-2.03352	32.3607	-14.9504
7	2	-1.95996	36.2021	-18.8703
8	2.1	-1.91103	39.8541	-22.8834
9	2.1	-1.85218	43.2847	-26.773
10	2.1	-1.79912	46.5215	-30.5512
11	2.3	-1.76241	49.6276	-34.6047
12	2.3	-1.71688	52.5753	-38.5535
13	2.5	-1.68494	55.4143	-42.7659
14	2.6	-1.64485	58.1199	-47.0425
15	2.6	-1.60725	60.7031	-51.2214
16	2.8	-1.58047	63.201	-55.6467
17	3	-1.54643	65.5924	-60.286
18	3.1	-1.52203	67.909	-65.0043
19	3.2	-1.49085	70.1317	-69.775
20	3.6	-1.46106	72.2664	-75.0348
21	3.6	-1.43953	74.3386	-80.2171
22	3.7	-1.41183	76.3319	-85.4409
23	3.8	-1.38517	78.2506	-90.7045
24	3.9	-1.36581	80.116	-96.0312
25	4.5	-1.34075	81.9136	-102.065
26	4.7	-1.32251	83.6626	-108.28
27	5	-1.29884	85.3496	-114.775
28	5.1	-1.27588	86.9775	-121.281
29	5.7	-1.25908	88.5628	-128.458
30	6	-1.23724	90.0935	-135.882
31	9.9	-1.22123	91.5849	-147.972
32	40	-1.20036	93.0258	-195.986
33	40	-1.18	94.4182	-243.186
34	40	-1.16505	95.7755	-289.788
35	40	-1.1455	97.0877	-335.608
36	40	-1.13113	98.3672	-380.854
37	40	-1.11232	99.6044	-425.346
38	40	-1.0939	100.801	-469.102
39	40	-1.08032	101.968	-512.315
40	40	-1.06252	103.097	-554.816
41	40	-1.04505	104.189	-596.618
42	40	-1.03215	105.255	-637.904
43	40	-1.01522	106.285	-678.513
44	40	-1.00271	107.291	-718.621
45	40	-0.986272	108.263	-758.072
46	40	-0.970094	109.204	-796.876
47	40	-0.958125	110.122	-835.201
48	40	-0.942375	111.011	-872.896
49	40	-0.930718	111.877	-910.125
50	40	-0.915365	112.715	-946.739
51	40	-0.900227	113.525	-982.748
52	40	-0.889006	114.315	-1018.31
53	40	-0.874218	115.08	-1053.28
54	40	-0.863249	115.825	-1087.81
55	40	-0.848786	116.545	-1121.76
56	40	-0.834498	117.242	-1155.14
57	40	-0.823893	117.92	-1188.09
58	40	-0.809896	118.576	-1220.49
59	40	-0.7995	119.216	-1252.47
60	40	-0.785774	119.833	-1283.9
61	40	-0.772193	120.429	-1314.79
62	40	-0.7621	121.01	-1345.27
63	40	-0.748762	121.571	-1375.22
64	40	-0.735557	122.112	-1404.65
65	40	-0.725736	122.639	-1433.68
66	40	-0.712751	123.147	-1462.19
67	40	-0.703089	123.641	-1490.31
68	40	-0.690309	124.117	-1517.92
69	40	-0.677639	124.577	-1545.03
70	40	-0.668209	125.023	-1571.76
71	40	-0.655726	125.453	-1597.98
72	40	-0.646431	125.871	-1623.84
73	40	-0.634124	126.273	-1649.21
74	40	-0.621911	126.66	-1674.08
75	40	-0.612813	127.035	-1698.6
76	40	-0.60076	127.396	-1722.63

77	40	-0.591776	127.746	-1746.3
78	40	-0.579873	128.083	-1769.49
79	40	-0.568052	128.405	-1792.21
80	40	-0.559237	128.718	-1814.58
81	40	-0.547551	129.018	-1836.49
82	40	-0.53594	129.305	-1857.92
83	40	-0.52728	129.583	-1879.01
84	40	-0.515791	129.849	-1899.65
85	40	-0.507221	130.107	-1919.93
86	40	-0.49585	130.352	-1939.77
87	40	-0.484544	130.587	-1959.15
88	40	-0.476105	130.814	-1978.19
89	40	-0.464904	131.03	-1996.79
90	40	-0.456542	131.238	-2015.05
91	40	-0.445443	131.437	-2032.87
92	40	-0.434397	131.626	-2050.25
93	40	-0.426148	131.807	-2067.29
94	40	-0.415193	131.98	-2083.9
95	40	-0.40701	132.145	-2100.18
96	40	-0.396142	132.302	-2116.03
97	40	-0.385321	132.451	-2131.44
98	40	-0.377233	132.593	-2146.53
99	40	-0.36649	132.727	-2161.19
100	40	-0.355788	132.854	-2175.42
101	40	-0.347787	132.975	-2189.33
102	40	-0.337155	133.088	-2202.82
103	40	-0.329206	133.197	-2215.98
104	40	-0.318639	133.298	-2228.73
105	40	-0.308108	133.393	-2241.05
106	40	-0.300232	133.483	-2253.06
107	40	-0.28976	133.567	-2264.65
108	40	-0.281926	133.647	-2275.93
109	40	-0.271509	133.721	-2286.79
110	40	-0.26112	133.789	-2297.24
111	40	-0.253347	133.853	-2307.37
112	40	-0.243007	133.912	-2317.09
113	40	-0.235269	133.967	-2326.5
114	40	-0.224974	134.018	-2335.5
115	40	-0.214702	134.064	-2344.09
116	40	-0.207012	134.107	-2352.37
117	40	-0.196779	134.146	-2360.24
118	40	-0.189118	134.181	-2367.81
119	40	-0.17892	134.213	-2374.96
120	40	-0.168741	134.242	-2381.71
121	40	-0.161119	134.268	-2388.16
122	40	-0.150969	134.291	-2394.2
123	40	-0.140835	134.31	-2399.83
124	40	-0.133244	134.328	-2405.16
125	40	-0.123135	134.343	-2410.08
126	40	-0.115562	134.357	-2414.71
127	40	-0.105474	134.368	-2418.93
128	40	-0.0953969	134.377	-2422.74
129	40	-0.0878447	134.385	-2426.25
130	40	-0.0777834	134.391	-2429.37
131	40	-0.0702426	134.396	-2432.18
132	40	-0.0601949	134.399	-2434.58
133	40	-0.0501541	134.402	-2436.59
134	40	-0.0426257	134.404	-2438.29
135	40	-0.0325917	134.405	-2439.6
136	40	-0.0250691	134.405	-2440.6
137	40	-0.0150408	134.406	-2441.2
138	40	-0.00501359	134.406	-2441.4
139	40	0.00501359	134.406	-2441.2
140	40	0.0150408	134.406	-2440.6
141	40	0.0250691	134.406	-2439.6
142	40	0.0325917	134.408	-2438.29
143	40	0.0426257	134.409	-2436.59
144	40	0.0501541	134.412	-2434.58
145	40	0.0601949	134.415	-2432.18
146	40	0.0702426	134.42	-2429.37
147	40	0.0777834	134.426	-2426.25
148	40	0.0878447	134.434	-2422.74
149	40	0.0953969	134.443	-2418.93
150	40	0.105474	134.454	-2414.71
151	40	0.115562	134.468	-2410.08
152	40	0.123135	134.483	-2405.16
153	40	0.133244	134.501	-2399.83
154	40	0.140835	134.52	-2394.2
155	40	0.150969	134.543	-2388.16
156	40	0.161119	134.569	-2381.71
157	40	0.168741	134.598	-2374.96
158	40	0.17892	134.63	-2367.81
159	40	0.189118	134.666	-2360.24
160	40	0.196779	134.704	-2352.37
161	40	0.207012	134.747	-2344.09
162	40	0.214702	134.793	-2335.5

163	40	0.224974	134.844	-2326.5
164	40	0.235269	134.899	-2317.09
165	40	0.243007	134.958	-2307.37
166	40	0.253347	135.022	-2297.24
167	40	0.26112	135.091	-2286.79
168	40	0.271509	135.164	-2275.93
169	40	0.281926	135.244	-2264.65
170	40	0.28976	135.328	-2253.06
171	40	0.300232	135.418	-2241.05
172	40	0.308108	135.513	-2228.73
173	40	0.318639	135.614	-2215.98
174	40	0.329206	135.723	-2202.82
175	40	0.337155	135.836	-2189.33
176	40	0.347787	135.957	-2175.42
177	40	0.355788	136.084	-2161.19
178	40	0.36649	136.218	-2146.53
179	40	0.377233	136.361	-2131.44
180	40	0.385321	136.509	-2116.03
181	40	0.396142	136.666	-2100.18
182	40	0.40701	136.832	-2083.9
183	40	0.415193	137.004	-2067.29
184	40	0.426148	137.186	-2050.25
185	40	0.434397	137.374	-2032.87
186	40	0.445443	137.573	-2015.05
187	40	0.456542	137.781	-1996.79
188	40	0.464904	137.997	-1978.19
189	40	0.476105	138.224	-1959.15
190	40	0.484544	138.459	-1939.77
191	40	0.49585	138.705	-1919.93
192	40	0.507221	138.962	-1899.65
193	40	0.515791	139.228	-1879.01
194	40	0.52728	139.506	-1857.92
195	40	0.53594	139.793	-1836.49
196	40	0.547551	140.093	-1814.58
197	40	0.559237	140.406	-1792.21
198	40	0.568052	140.728	-1769.49
199	40	0.579873	141.065	-1746.3
200	40	0.591776	141.415	-1722.63
201	40	0.60076	141.776	-1698.6
202	40	0.612813	142.151	-1674.08
203	40	0.621911	142.538	-1649.21
204	40	0.634124	142.94	-1623.84
205	40	0.646431	143.358	-1597.98
206	40	0.655726	143.788	-1571.76
207	40	0.668209	144.235	-1545.03
208	40	0.677639	144.694	-1517.92
209	40	0.690309	145.17	-1490.31
210	40	0.703089	145.665	-1462.19
211	40	0.712751	146.173	-1433.68
212	40	0.725736	146.699	-1404.65
213	40	0.735557	147.24	-1375.22
214	40	0.748762	147.801	-1345.27
215	40	0.7621	148.382	-1314.79
216	40	0.772193	148.978	-1283.9
217	40	0.785774	149.596	-1252.47
218	40	0.7995	150.235	-1220.49
219	40	0.809896	150.891	-1188.09
220	40	0.823893	151.569	-1155.14
221	40	0.834498	152.266	-1121.76
222	40	0.848786	152.986	-1087.81
223	40	0.863249	153.731	-1053.28
224	40	0.874218	154.496	-1018.31
225	40	0.889006	155.286	-982.748
226	40	0.900227	156.096	-946.739
227	40	0.915365	156.934	-910.125
228	40	0.930718	157.801	-872.896
229	40	0.942375	158.689	-835.201
230	40	0.958125	159.607	-796.876
231	40	0.970094	160.548	-758.072
232	40	0.986272	161.52	-718.621
233	40	1.00271	162.526	-678.513
234	40	1.01522	163.557	-637.904
235	40	1.03215	164.622	-596.618
236	40	1.04505	165.714	-554.816
237	40	1.06252	166.843	-512.315
238	40	1.08032	168.01	-469.102
239	40	1.0939	169.207	-425.346
240	40	1.11232	170.444	-380.854
241	40	1.13113	171.723	-335.608
242	40	1.1455	173.036	-289.788
243	40	1.16505	174.393	-243.186
244	40	1.18	175.785	-195.986
245	40	1.20036	177.226	-147.972
246	40	1.22123	178.718	-99.1227
247	40	1.23724	180.248	-49.6333
248	40	1.25908	181.834	0.730081

249	40	1.27588	183.462	51.7651
250	40	1.29884	185.148	103.719
251	40	1.32251	186.898	156.619
252	40	1.34075	188.695	210.249
253	40	1.36581	190.561	264.881
254	40	1.38517	192.479	320.288
255	40	1.41183	194.473	376.761
256	40	1.43953	196.545	434.343
257	40	1.46106	198.679	492.785
258	40	1.49085	200.902	552.419
259	40	1.52203	203.219	613.3
260	40	1.54643	205.61	675.158
261	40	1.58047	208.108	738.376
262	40	1.60725	210.691	802.666
263	40	1.64485	213.397	868.46
264	40	1.68494	216.236	935.858
265	40	1.71688	219.184	1004.53
266	40	1.76241	222.29	1075.03
267	40	1.79912	225.526	1146.99
268	40	1.85218	228.957	1221.08
269	40	1.91103	232.609	1297.52
270	40	1.95996	236.45	1375.92
271	40	2.03352	240.586	1457.26
272	40	2.09693	244.983	1541.14
273	40	2.19728	249.811	1629.03
274	40	2.32634	255.223	1722.08
275	40	2.45727	261.261	1820.38
276	64	2.74777	268.811	1996.23

Data Set Standard Deviation = 11.7805
Numerator = 3.98494e+006
Denominator = 1.02591e+007
W Statistic = 0.38843 = 3.98494e+006 / 1.02591e+007

5% Critical value of 0.976 exceeds 0.38843
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.38843
Evidence of non-normality at 99% level of significance

APPENDIX F

Non-Parametric Upper Tolerance Limit Computations

Non-Parametric Tolerance Interval

Parameter: Barium, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 81.4394%
Background measurements (n) = 44
Maximum Background Concentration = 500
Minimum Coverage = 93.4%
Average Coverage = 97.7778%

Location	Date	Value	Significant
MW-17	12/16/1997	ND<500	FALSE
MW-17	1/14/1998	ND<500	FALSE
MW-17	2/13/1998	ND<500	FALSE
MW-17	3/6/1998	ND<500	FALSE
MW-17	10/15/1998	ND<500	FALSE
MW-17	3/25/1999	ND<500	FALSE
MW-17	9/23/1999	ND<500	FALSE
MW-17	3/29/2000	ND<500	FALSE
MW-17	9/14/2000	ND<500	FALSE
MW-17	3/12/2001	ND<500	FALSE
MW-17	10/13/2001	ND<500	FALSE
MW-17	3/8/2002	ND<500	FALSE
MW-17	9/19/2002	ND<500	FALSE
MW-17	4/15/2003	ND<500	FALSE
MW-17	10/16/2003	ND<500	FALSE
MW-17	3/25/2004	ND<500	FALSE
MW-17	10/18/2006	ND<500	FALSE
MW-17	4/9/2007	ND<500	FALSE
MW-17	9/24/2007	50.3	FALSE
MW-17	5/2/2008	52.7	FALSE
MW-17	12/5/2008	49.3	FALSE
MW-17	4/15/2009	57.6	FALSE
MW-18	12/16/1997	ND<500	FALSE
MW-18	1/14/1998	ND<500	FALSE
MW-18	2/13/1998	ND<500	FALSE
MW-18	3/6/1998	ND<500	FALSE
MW-18	10/15/1998	ND<500	FALSE
MW-18	3/25/1999	ND<500	FALSE
MW-18	9/23/1999	ND<500	FALSE
MW-18	3/29/2000	ND<500	FALSE
MW-18	9/14/2000	ND<500	FALSE
MW-18	3/12/2001	ND<500	FALSE
MW-18	10/13/2001	ND<500	FALSE
MW-18	3/8/2002	ND<500	FALSE
MW-18	9/19/2002	ND<500	FALSE
MW-18	4/15/2003	ND<500	FALSE
MW-18	10/16/2003	ND<500	FALSE
MW-18	3/25/2004	ND<500	FALSE
MW-18	10/18/2006	ND<500	FALSE
MW-18	4/9/2007	ND<500	FALSE
MW-18	9/24/2007	29	FALSE
MW-18	5/2/2008	23	FALSE
MW-18	12/5/2008	28.1	FALSE
MW-18	4/15/2009	34.3	FALSE
MW-19	12/16/1997	ND<500	FALSE
MW-19	1/14/1998	ND<500	FALSE
MW-19	2/13/1998	69	FALSE
MW-19	3/6/1998	ND<500	FALSE
MW-19	10/15/1998	ND<500	FALSE
MW-19	3/25/1999	ND<500	FALSE
MW-19	9/23/1999	ND<500	FALSE
MW-19	3/29/2000	ND<500	FALSE
MW-19	9/14/2000	ND<500	FALSE
MW-19	3/12/2001	ND<500	FALSE
MW-19	10/13/2001	ND<500	FALSE
MW-19	3/8/2002	ND<500	FALSE
MW-19	9/19/2002	ND<500	FALSE
MW-19	4/15/2003	ND<500	FALSE
MW-19	10/16/2003	ND<500	FALSE
MW-19	3/25/2004	ND<500	FALSE
MW-19	10/18/2006	ND<500	FALSE
MW-19	4/9/2007	ND<500	FALSE
MW-19	9/24/2007	17.2	FALSE
MW-19	5/2/2008	31.7	FALSE
MW-19	12/5/2008	31	FALSE
MW-19	4/15/2009	32.7	FALSE

MW-20	12/16/1997	ND<500	FALSE
MW-20	1/14/1998	ND<500	FALSE
MW-20	2/13/1998	ND<500	FALSE
MW-20	3/6/1998	ND<500	FALSE
MW-20	10/15/1998	ND<500	FALSE
MW-20	3/25/1999	ND<500	FALSE
MW-20	9/23/1999	ND<500	FALSE
MW-20	3/29/2000	ND<500	FALSE
MW-20	9/14/2000	ND<500	FALSE
MW-20	3/12/2001	ND<500	FALSE
MW-20	10/13/2001	ND<500	FALSE
MW-20	3/8/2002	ND<500	FALSE
MW-20	9/19/2002	ND<500	FALSE
MW-20	4/15/2003	ND<500	FALSE
MW-20	10/16/2003	ND<500	FALSE
MW-20	3/25/2004	ND<500	FALSE
MW-20	10/18/2006	ND<500	FALSE
MW-20	4/9/2007	ND<500	FALSE
MW-20	9/24/2007	39.2	FALSE
MW-20	5/2/2008	55.4	FALSE
MW-20	12/5/2008	63.6	FALSE
MW-20	4/15/2009	62.7	FALSE
MW-21	12/16/1997	ND<500	FALSE
MW-21	1/14/1998	ND<500	FALSE
MW-21	2/13/1998	ND<500	FALSE
MW-21	3/6/1998	ND<500	FALSE
MW-21	10/15/1998	ND<500	FALSE
MW-21	3/25/1999	ND<500	FALSE
MW-21	9/23/1999	ND<500	FALSE
MW-21	3/29/2000	ND<500	FALSE
MW-21	9/14/2000	ND<500	FALSE
MW-21	3/12/2001	ND<500	FALSE
MW-21	10/13/2001	ND<500	FALSE
MW-21	3/8/2002	ND<500	FALSE
MW-21	9/19/2002	ND<500	FALSE
MW-21	4/15/2003	ND<500	FALSE
MW-21	10/16/2003	ND<500	FALSE
MW-21	3/25/2004	ND<500	FALSE
MW-21	10/18/2006	ND<500	FALSE
MW-21	4/9/2007	ND<500	FALSE
MW-21	9/24/2007	30.7	FALSE
MW-21	5/2/2008	30	FALSE
MW-21	12/5/2008	30.1	FALSE
MW-21	4/15/2009	30.2	FALSE
MW-22	12/16/1997	ND<500	FALSE
MW-22	1/14/1998	ND<500	FALSE
MW-22	2/13/1998	ND<500	FALSE
MW-22	3/6/1998	ND<500	FALSE
MW-22	10/15/1998	ND<500	FALSE
MW-22	3/25/1999	ND<500	FALSE
MW-22	9/23/1999	ND<500	FALSE
MW-22	3/29/2000	ND<500	FALSE
MW-22	9/14/2000	ND<500	FALSE
MW-22	3/12/2001	ND<500	FALSE
MW-22	10/13/2001	ND<500	FALSE
MW-22	3/8/2002	ND<500	FALSE
MW-22	9/19/2002	ND<500	FALSE
MW-22	4/15/2003	ND<500	FALSE
MW-22	10/16/2003	ND<500	FALSE
MW-22	3/25/2004	ND<500	FALSE
MW-22	10/18/2006	ND<500	FALSE
MW-22	4/9/2007	ND<500	FALSE
MW-22	9/24/2007	80.4	FALSE
MW-22	5/2/2008	136	FALSE
MW-22	12/5/2008	78.5	FALSE
MW-22	4/15/2009	207	FALSE
MW-23	12/16/1997	ND<500	FALSE
MW-23	1/14/1998	ND<500	FALSE
MW-23	2/13/1998	ND<500	FALSE
MW-23	3/6/1998	ND<500	FALSE
MW-23	10/15/1998	ND<500	FALSE
MW-23	3/25/1999	ND<500	FALSE
MW-23	9/23/1999	ND<500	FALSE
MW-23	3/29/2000	ND<500	FALSE
MW-23	9/14/2000	ND<500	FALSE
MW-23	3/12/2001	ND<500	FALSE
MW-23	10/13/2001	ND<500	FALSE
MW-23	3/8/2002	ND<500	FALSE
MW-23	9/19/2002	ND<500	FALSE
MW-23	4/15/2003	ND<500	FALSE

MW-23	10/16/2003	ND<500	FALSE
MW-23	3/25/2004	ND<500	FALSE
MW-23	10/18/2006	ND<500	FALSE
MW-23	4/9/2007	ND<500	FALSE
MW-23	9/24/2007	60	FALSE
MW-23	5/2/2008	66.6	FALSE
MW-23	12/5/2008	61.4	FALSE
MW-23	4/15/2009	59.4	FALSE
MW-24	12/16/1997	ND<500	FALSE
MW-24	1/14/1998	ND<500	FALSE
MW-24	2/13/1998	ND<500	FALSE
MW-24	3/6/1998	ND<500	FALSE
MW-24	10/15/1998	ND<500	FALSE
MW-24	3/25/1999	ND<500	FALSE
MW-24	9/23/1999	ND<500	FALSE
MW-24	3/29/2000	ND<500	FALSE
MW-24	9/14/2000	ND<500	FALSE
MW-24	3/12/2001	ND<500	FALSE
MW-24	10/13/2001	ND<500	FALSE
MW-24	3/8/2002	ND<500	FALSE
MW-24	9/19/2002	ND<500	FALSE
MW-24	4/15/2003	ND<500	FALSE
MW-24	10/16/2003	ND<500	FALSE
MW-24	3/25/2004	ND<500	FALSE
MW-24	10/18/2006	ND<500	FALSE
MW-24	4/9/2007	332	FALSE
MW-24	9/24/2007	382	FALSE
MW-24	5/2/2008	444	FALSE
MW-24	12/5/2008	444	FALSE
MW-24	4/15/2009	447	FALSE
MW-25	12/16/1997	ND<500	FALSE
MW-25	1/14/1998	ND<500	FALSE
MW-25	2/13/1998	ND<500	FALSE
MW-25	3/6/1998	ND<500	FALSE
MW-25	10/15/1998	ND<500	FALSE
MW-25	3/25/1999	ND<500	FALSE
MW-25	9/23/1999	ND<500	FALSE
MW-25	3/29/2000	ND<500	FALSE
MW-25	9/14/2000	ND<500	FALSE
MW-25	3/12/2001	ND<500	FALSE
MW-25	10/13/2001	ND<500	FALSE
MW-25	3/8/2002	ND<500	FALSE
MW-25	9/19/2002	ND<500	FALSE
MW-25	4/15/2003	ND<500	FALSE
MW-25	10/16/2003	ND<500	FALSE
MW-25	3/25/2004	ND<500	FALSE
MW-25	10/18/2006	ND<500	FALSE
MW-25	4/9/2007	ND<500	FALSE
MW-25	9/24/2007	ND<500	FALSE
MW-25	5/2/2008	19.6	FALSE
MW-25	12/5/2008	ND<500	FALSE
MW-25	4/15/2009	22.8	FALSE
MW-25d	12/16/1997	ND<500	FALSE
MW-25d	1/14/1998	ND<500	FALSE
MW-25d	2/13/1998	ND<500	FALSE
MW-25d	3/6/1998	ND<500	FALSE
MW-25d	10/15/1998	ND<500	FALSE
MW-25d	3/25/1999	ND<500	FALSE
MW-25d	9/23/1999	ND<500	FALSE
MW-25d	3/29/2000	ND<500	FALSE
MW-25d	9/14/2000	ND<500	FALSE
MW-25d	3/12/2001	ND<500	FALSE
MW-25d	10/13/2001	ND<500	FALSE
MW-25d	3/8/2002	ND<500	FALSE
MW-25d	9/19/2002	ND<500	FALSE
MW-25d	4/15/2003	ND<500	FALSE
MW-25d	10/16/2003	ND<500	FALSE
MW-25d	3/25/2004	ND<500	FALSE
MW-25d	10/18/2006	ND<500	FALSE
MW-25d	4/9/2007	ND<500	FALSE
MW-25d	9/24/2007	13	FALSE
MW-25d	5/2/2008	16.2	FALSE
MW-25d	12/5/2008	12.4	FALSE
MW-25d	4/15/2009	19.1	FALSE

Non-Parametric Tolerance Interval

Parameter: Vanadium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 88.4058%
Background measurements (n) = 46
Maximum Background Concentration = 40
Minimum Coverage = 93.7%
Average Coverage = 97.8723%

Location	Date	Value	Significant
MW-17	12/16/1997	ND<40	FALSE
MW-17	1/14/1998	ND<40	FALSE
MW-17	2/13/1998	ND<40	FALSE
MW-17	3/6/1998	ND<40	FALSE
MW-17	10/15/1998	ND<40	FALSE
MW-17	3/25/1999	ND<40	FALSE
MW-17	9/23/1999	ND<40	FALSE
MW-17	3/29/2000	ND<40	FALSE
MW-17	9/14/2000	ND<40	FALSE
MW-17	3/12/2001	ND<40	FALSE
MW-17	10/13/2001	ND<40	FALSE
MW-17	3/8/2002	ND<40	FALSE
MW-17	9/19/2002	ND<40	FALSE
MW-17	4/15/2003	ND<40	FALSE
MW-17	10/16/2003	ND<40	FALSE
MW-17	3/25/2004	ND<40	FALSE
MW-17	10/22/2004	ND<40	FALSE
MW-17	10/18/2006	ND<40	FALSE
MW-17	4/9/2007	ND<40	FALSE
MW-17	9/24/2007	1.4	FALSE
MW-17	5/2/2008	2	FALSE
MW-17	12/5/2008	2.6	FALSE
MW-17	4/15/2009	3	FALSE
MW-18	12/16/1997	ND<40	FALSE
MW-18	1/14/1998	ND<40	FALSE
MW-18	2/13/1998	ND<40	FALSE
MW-18	3/6/1998	ND<40	FALSE
MW-18	10/15/1998	ND<40	FALSE
MW-18	3/25/1999	ND<40	FALSE
MW-18	9/23/1999	ND<40	FALSE
MW-18	3/29/2000	ND<40	FALSE
MW-18	9/14/2000	ND<40	FALSE
MW-18	3/12/2001	ND<40	FALSE
MW-18	10/13/2001	ND<40	FALSE
MW-18	3/8/2002	ND<40	FALSE
MW-18	9/19/2002	ND<40	FALSE
MW-18	4/15/2003	ND<40	FALSE
MW-18	10/16/2003	ND<40	FALSE
MW-18	3/25/2004	ND<40	FALSE
MW-18	10/22/2004	ND<40	FALSE
MW-18	10/18/2006	ND<40	FALSE
MW-18	4/9/2007	ND<40	FALSE
MW-18	9/24/2007	9.9	FALSE
MW-18	5/2/2008	2.1	FALSE
MW-18	12/5/2008	3.1	FALSE
MW-18	4/15/2009	2.5	FALSE
MW-19	12/16/1997	ND<40	FALSE
MW-19	1/14/1998	ND<40	FALSE
MW-19	**2/13/1998**	**64**	**TRUE**
MW-19	3/6/1998	ND<40	FALSE
MW-19	10/15/1998	ND<40	FALSE
MW-19	3/25/1999	ND<40	FALSE
MW-19	9/23/1999	ND<40	FALSE
MW-19	3/29/2000	ND<40	FALSE
MW-19	9/14/2000	ND<40	FALSE
MW-19	3/12/2001	ND<40	FALSE
MW-19	10/13/2001	ND<40	FALSE
MW-19	3/8/2002	ND<40	FALSE
MW-19	9/19/2002	ND<40	FALSE
MW-19	4/15/2003	ND<40	FALSE
MW-19	10/16/2003	ND<40	FALSE
MW-19	3/25/2004	ND<40	FALSE
MW-19	10/22/2004	ND<40	FALSE
MW-19	10/18/2006	ND<40	FALSE
MW-19	4/9/2007	ND<40	FALSE
MW-19	9/24/2007	3.9	FALSE
MW-19	5/2/2008	5	FALSE
MW-19	12/5/2008	3.6	FALSE

MW-19	4/15/2009	4.7	FALSE
MW-20	12/16/1997	ND<40	FALSE
MW-20	1/14/1998	ND<40	FALSE
MW-20	2/13/1998	ND<40	FALSE
MW-20	3/6/1998	ND<40	FALSE
MW-20	10/15/1998	ND<40	FALSE
MW-20	3/25/1999	ND<40	FALSE
MW-20	9/23/1999	ND<40	FALSE
MW-20	3/29/2000	ND<40	FALSE
MW-20	9/14/2000	ND<40	FALSE
MW-20	3/12/2001	ND<40	FALSE
MW-20	10/13/2001	ND<40	FALSE
MW-20	3/8/2002	ND<40	FALSE
MW-20	9/19/2002	ND<40	FALSE
MW-20	4/15/2003	ND<40	FALSE
MW-20	10/16/2003	ND<40	FALSE
MW-20	3/25/2004	ND<40	FALSE
MW-20	10/22/2004	ND<40	FALSE
MW-20	10/18/2006	ND<40	FALSE
MW-20	4/9/2007	ND<40	FALSE
MW-20	9/24/2007	2.3	FALSE
MW-20	5/2/2008	5.1	FALSE
MW-20	12/5/2008	6	FALSE
MW-20	4/15/2009	5.7	FALSE
MW-21	12/16/1997	ND<40	FALSE
MW-21	1/14/1998	ND<40	FALSE
MW-21	2/13/1998	ND<40	FALSE
MW-21	3/6/1998	ND<40	FALSE
MW-21	10/15/1998	ND<40	FALSE
MW-21	3/25/1999	ND<40	FALSE
MW-21	9/23/1999	ND<40	FALSE
MW-21	3/29/2000	ND<40	FALSE
MW-21	9/14/2000	ND<40	FALSE
MW-21	3/12/2001	ND<40	FALSE
MW-21	10/13/2001	ND<40	FALSE
MW-21	3/8/2002	ND<40	FALSE
MW-21	9/19/2002	ND<40	FALSE
MW-21	4/15/2003	ND<40	FALSE
MW-21	10/16/2003	ND<40	FALSE
MW-21	3/25/2004	ND<40	FALSE
MW-21	10/22/2004	ND<40	FALSE
MW-21	10/18/2006	ND<40	FALSE
MW-21	4/9/2007	ND<40	FALSE
MW-21	9/24/2007	ND<40	FALSE
MW-21	5/2/2008	2.6	FALSE
MW-21	12/5/2008	2.3	FALSE
MW-21	4/15/2009	0.7	FALSE
MW-22	12/16/1997	ND<40	FALSE
MW-22	1/14/1998	ND<40	FALSE
MW-22	2/13/1998	ND<40	FALSE
MW-22	3/6/1998	ND<40	FALSE
MW-22	10/15/1998	ND<40	FALSE
MW-22	3/25/1999	ND<40	FALSE
MW-22	9/23/1999	ND<40	FALSE
MW-22	3/29/2000	ND<40	FALSE
MW-22	9/14/2000	ND<40	FALSE
MW-22	3/12/2001	ND<40	FALSE
MW-22	10/13/2001	ND<40	FALSE
MW-22	3/8/2002	ND<40	FALSE
MW-22	9/19/2002	ND<40	FALSE
MW-22	4/15/2003	ND<40	FALSE
MW-22	10/16/2003	ND<40	FALSE
MW-22	3/25/2004	ND<40	FALSE
MW-22	10/22/2004	ND<40	FALSE
MW-22	10/18/2006	ND<40	FALSE
MW-22	4/9/2007	ND<40	FALSE
MW-22	9/24/2007	ND<40	FALSE
MW-22	5/2/2008	ND<40	FALSE
MW-22	12/5/2008	ND<40	FALSE
MW-22	4/15/2009	1	FALSE
MW-23	12/16/1997	ND<40	FALSE
MW-23	1/14/1998	ND<40	FALSE
MW-23	2/13/1998	ND<40	FALSE
MW-23	3/6/1998	ND<40	FALSE
MW-23	10/15/1998	ND<40	FALSE
MW-23	3/25/1999	ND<40	FALSE
MW-23	9/23/1999	ND<40	FALSE
MW-23	3/29/2000	ND<40	FALSE

MW-23	9/14/2000	ND<40	FALSE
MW-23	3/12/2001	ND<40	FALSE
MW-23	10/13/2001	ND<40	FALSE
MW-23	3/8/2002	ND<40	FALSE
MW-23	9/19/2002	ND<40	FALSE
MW-23	4/15/2003	ND<40	FALSE
MW-23	10/16/2003	ND<40	FALSE
MW-23	3/25/2004	ND<40	FALSE
MW-23	10/22/2004	ND<40	FALSE
MW-23	10/18/2006	ND<40	FALSE
MW-23	4/9/2007	ND<40	FALSE
MW-23	9/24/2007	ND<40	FALSE
MW-23	5/2/2008	ND<40	FALSE
MW-23	12/5/2008	ND<40	FALSE
MW-23	4/15/2009	ND<40	FALSE
MW-24	12/16/1997	ND<40	FALSE
MW-24	1/14/1998	ND<40	FALSE
MW-24	2/13/1998	ND<40	FALSE
MW-24	3/6/1998	ND<40	FALSE
MW-24	10/15/1998	ND<40	FALSE
MW-24	3/25/1999	ND<40	FALSE
MW-24	9/23/1999	ND<40	FALSE
MW-24	3/29/2000	ND<40	FALSE
MW-24	9/14/2000	ND<40	FALSE
MW-24	3/12/2001	ND<40	FALSE
MW-24	10/13/2001	ND<40	FALSE
MW-24	3/8/2002	ND<40	FALSE
MW-24	9/19/2002	ND<40	FALSE
MW-24	4/15/2003	ND<40	FALSE
MW-24	10/16/2003	ND<40	FALSE
MW-24	3/25/2004	ND<40	FALSE
MW-24	10/22/2004	ND<40	FALSE
MW-24	10/18/2006	ND<40	FALSE
MW-24	4/9/2007	ND<40	FALSE
MW-24	9/24/2007	ND<40	FALSE
MW-24	5/2/2008	ND<40	FALSE
MW-24	12/5/2008	2	FALSE
MW-24	4/15/2009	3.8	FALSE
MW-25	12/16/1997	ND<40	FALSE
MW-25	1/14/1998	ND<40	FALSE
MW-25	2/13/1998	ND<40	FALSE
MW-25	3/6/1998	ND<40	FALSE
MW-25	10/15/1998	ND<40	FALSE
MW-25	3/25/1999	ND<40	FALSE
MW-25	9/23/1999	ND<40	FALSE
MW-25	3/29/2000	ND<40	FALSE
MW-25	9/14/2000	ND<40	FALSE
MW-25	3/12/2001	ND<40	FALSE
MW-25	10/13/2001	ND<40	FALSE
MW-25	3/8/2002	ND<40	FALSE
MW-25	9/19/2002	ND<40	FALSE
MW-25	4/15/2003	ND<40	FALSE
MW-25	10/16/2003	ND<40	FALSE
MW-25	3/25/2004	ND<40	FALSE
MW-25	10/22/2004	ND<40	FALSE
MW-25	10/18/2006	ND<40	FALSE
MW-25	4/9/2007	ND<40	FALSE
MW-25	9/24/2007	ND<40	FALSE
MW-25	5/2/2008	2.1	FALSE
MW-25	12/5/2008	ND<40	FALSE
MW-25	4/15/2009	0.8	FALSE
MW-25d	12/16/1997	ND<40	FALSE
MW-25d	1/14/1998	ND<40	FALSE
MW-25d	2/13/1998	ND<40	FALSE
MW-25d	3/6/1998	ND<40	FALSE
MW-25d	10/15/1998	ND<40	FALSE
MW-25d	3/25/1999	ND<40	FALSE
MW-25d	9/23/1999	ND<40	FALSE
MW-25d	3/29/2000	ND<40	FALSE
MW-25d	9/14/2000	ND<40	FALSE
MW-25d	3/12/2001	ND<40	FALSE
MW-25d	10/13/2001	ND<40	FALSE
MW-25d	3/8/2002	ND<40	FALSE
MW-25d	9/19/2002	ND<40	FALSE
MW-25d	4/15/2003	ND<40	FALSE
MW-25d	10/16/2003	ND<40	FALSE
MW-25d	3/25/2004	ND<40	FALSE
MW-25d	10/22/2004	ND<40	FALSE
MW-25d	10/18/2006	ND<40	FALSE
MW-25d	4/9/2007	ND<40	FALSE

MW-25d	9/24/2007	2.8	FALSE
MW-25d	5/2/2008	3.6	FALSE
MW-25d	12/5/2008	3.7	FALSE
MW-25d	4/15/2009	3.2	FALSE

APPENDIX G

NCDENR Environmental Monitoring Reporting Form

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

S&ME, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Connel Ware Phone: (336) 288-7180

E-mail: cware@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
White Street Landfill Phase III	North end of White Street, Greensboro, North Carolina	41-03	.1600	April 15-16, 2009

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☐ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Edmund Q. B. Henriques, L.G — Environmental Department Manager — (336) 288-7180

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Edmund Q. B. Henriques — 6-4-09

Signature — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1216 GEOLOGIST EDMUND Q. B. HENRIQUES

Revised 01/2007