WHITE STREET LANDFILL
Greensboro, North Carolina
Alternate Source Demonstration for Metals Amendment
S&ME Project No. 1584-98-081

Prepared For:
The City of Greensboro

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Attachment A: Alternate Source Demonstration Amendment, Laboratory Analytical Results Report

1.0 INTRODUCTION

1.1 Purpose

S&ME completed an Alternate Source Demonstration (ASD) for metals for the Phase II portion of the White Street Landfill (White Street Landfill Alternate Source Demonstration for Metals, S&ME, Inc., October 2006). The ASD concluded that the reported concentrations of selected metals in certain groundwater monitoring compliance wells, which are exceeding the threshold limits for these metals, could be attributed to their natural occurrence in the native residual soil. The ASD Report was submitted to the North Carolina Department of the Environment and Natural Resources (DENR) on October 1, 2006.

Based on DENR's review of the October 1, 2006 ASD, DENR requested that upgradient areas of the landfill be included in the ASD to demonstrate background values of the naturally occurring metals in the in-situ soils at the site. This Alternate Source Demonstration Amendment was performed in response to a verbal request from Ms. Jackie Drummond with the DENR Solid Waste Section to sample in-situ soils from the upgradient areas of the landfill and compute the same dilution attenuation calculations on the upgradient soils as were done on soils collected in the downgradient areas for comparative purposes.

For completeness, efficiency, and because additional metals may be detected in the future which are not currently an issue, the ASD Amendment included the entire Appendix I Metals suite. The ASD Amendment attempts to demonstrate that the remaining metals of concern, specifically thallium and nickel, which could not be eliminated in the October 1, 2006 ASD as naturally occurring based on the initial soil sampling results, are in fact naturally occurring in other downgradient zones, and could also impact groundwater quality in the downgradient compliance monitoring well network.

1.2 Background

White Street Landfill is a Solid Waste Management Facility (SWMF) located at the north end of White Street in northeastern Greensboro. Phase II of the landfill is covered by Solid Waste Permit #41-03. One upgradient monitor well (MW-14), 13 downgradient monitoring wells located along the perimeter of the Phase II disposal area, one bedrock monitor well (II-7B), and one crossgradient monitoring well (MW-13) located approximately 4,300 feet southwest of the Phase II area comprise the Phase II Groundwater Monitoring Network.

The Phase II monitoring well samples are analyzed for the Appendix I list of constituents during the 1st Semi-Annual event and Appendix II constituents during the 2nd Semi-Annual event, each year. Surface water samples are analyzed for the Appendix I list of constituents on a semi-annual basis.

On a regular basis several metals have been detected at concentrations that exceed the 15A NCAC 2L Standards for these metals. Additionally, several metals for which there is no corresponding 15A NCAC 2L Standard have historically and continue to exceed EPA's Maximum Contaminant Level (MCL) on a regular basis. In order to examine if naturally occurring metals concentrations within the in-situ native soils onsite could be influencing groundwater quality, this Alternate Source Demonstration (ASD) Amendment for metals was undertaken.

In order to complete this ASD Amendment, soils at upgradient locations were sampled as well as locations in the vicinity of wells of concern and analyzed for the full Appendix I Metals suite. Next, a Dilution Attenuation Factor (DAF) was calculated for each metal based on the average concentration of the particular metal in the downgradient monitoring well region of the landfill, following EPA's Soil Screening Guidance: Technical Background Document, Second Edition, United States Environmental Protection Agency, EPA/540/R95/128, May 1996. The groundwater analytical data from the June 13, 2007 sampling event were compared to the expected concentrations of the Appendix I metals based on the DAF computations.

2.0 GEOLOGY & HYDROGEOLOGY

2.1 Regional Geology

The Greensboro area of North Carolina lies in the center of the Piedmont Physiographic province of the Appalachian Highlands. The Piedmont is comprised of five northeast southwest trending rock belts of various metamorphic grades. Greensboro lies within the Carolina Slate Belt, a group of low rank meta sedimentary rocks which were originally deposited in an off-shore island arc system. Various volcanic rocks including tuffs, basalts, argillites, and others were deposited in a shallow marine environment. The age of these rocks are believed to be PreCambrian to Paleozoic.

Numerous tectonic events have greatly deformed these rocks and a general metamorphic imprint has taken place. Additionally, several intrusive events have occurred which have resulted in the emplacement of granitic plutons of Paleozoic age throughout the belt.

2.2 Site Geology

Locally, the landfill area is underlain by granitic plutonic rocks. The depth of these rocks varies with topography, but is generally less than 30 feet. As the rocks weather, the individual mineral grains tend to disintegrate into small rocks and pebbles within a sandy matrix. This soil is commonly referred to as "sandrock" in reference to its weathering characteristics.

2.3 Soil Description

According to the Soil Survey of Guilford County, the soil in the landfill area has been classified as Pits (Pt). Pits are miscellaneous land types made up of areas where the original soil has been removed or altered beyond recognition. In landfill areas the original soil has been removed and solid waste material has been placed in alternating layers with original soils and other materials.

The soils around the landfill include Wehadkee silt loams (Wh), Chewacla sandy loams (Ch), Wilkes sandy loams (Wke), Madison sandy loams (MaE and MaD), Enon fine sandy loams (EnC and EnB), Mecklenburg sandy clay loam (McC2), Mecklenburg-Urban land complex (MuB), and Cecil-Urban land complex (CfB) 1.

2.4 Groundwater Hydrogeology

In the Piedmont region, groundwater occurs in two hydraulically interconnected zones. The upper zone, or regolith, consists of an unconsolidated or semi-consolidated mixture of clay fragmental material ranging in size from silt to sand boulders. The porosity of the regolith is generally on the order of 20 to 30 percent (Heath, 1984). Because of its high porosity, the regolith functions as a reservoir which slowly feeds water downward into the bedrock. Water is introduced to the regolith by precipitation and stream flow. Once in the regolith, groundwater moves between intergranular pore spaces.

This "water table" zone is controlled by climactic factors. Groundwater levels vary seasonally, declining during the summer when atmospheric conditions favor evaporation and plants transpire large amounts of water, and rising during the winter when plants are dormant. Annual groundwater storage in the vicinity of the Landfill Facility is thought to be relatively stable.

Groundwater also occurs below the regolith, in the bedrock zone where it moves through sheetlike openings formed along fractures. Fractures in bedrock are of two types: joints, which are fractures along which there has been no differential movement, and faults, which are fractures along which the adjacent rocks have undergone measurable differential movement. Groundwater in the bedrock zone is fairly stable and not easily influenced by climactic conditions. The regolith and bedrock zones are connected hydraulically.

3.0 ALTERNATE SOURCE DEMONSTRATION

3.1 Methodology

Dilution/Attenuation Factor:

According to the Environmental Protection Agency's Soil Screening Guidance: Technical Background Document Second Edition, "As contaminants in soil leach and move through soil and groundwater, they are subjected to physical, chemical, and biological processes that tend to reduce the eventual contaminant concentration at the receptor point" (i.e., groundwater monitoring well). This reduction or attenuation in the concentration of parameters as they percolate through the soils to a groundwater aquifer is governed by a variety of processes, the sum of which are referred to as a Dilution/Attenuation Factor. The Dilution/Attenuation Factor (DAF) is defined as "the ratio of contaminant concentration in soil leachate to the concentration in groundwater at the receptor point. EPA has selected a default DAF of 20 to account for contaminant (parameter) dilution and attenuation during transport through the saturated zone to a compliance point (i.e., a receptor well).

Therefore, if we apply EPA's standard DAF factor of 20 to the overall average concentration of naturally occurring metals in soil samples, we can calculate a DAF for the influence of the overlying soils to groundwater in the subsurface Hydrogeologic Regime. Then, the expected concentration of the particular metal in groundwater at that point source can be computed based on the DAF calculations.

3.2 Soil Sampling:

Soil samples were collected at the Facility on June 12, 2007. Eight (8) individual samples were collected from native, residual soil. Each sample was taken at a separate location within the Facility Permit Boundaries. Five of the soil sample locations were collected within no more than 50 feet of the affected groundwater monitoring wells: I-5, II-12, II-6, II-1, and II-5. Three of the samples were collected upgradient on the southern portion of the property. The Soil Sample Location Map is attached. The soil samples were collected generally following guidance set forth in EPA's RCRA Technical Enforcement Guidance Document (SW-846). The collected samples were analyzed for the Appendix I Metals suite. Table 1 summarizes the results of the soil sampling event. The complete Laboratory Analytical Report of the soil sampling results is included in Attachment A.

3.3 DAF Computation Methodology

The DAF is calculated from the analytical results of the collected soil samples utilizing the following equation:

Soil Concentration mg/kg (total mean metal concentration in soil) ÷ 20 (DAF) ⇒ Groundwater Concentration mg/L (total metal concentration in groundwater)

Concentration mg/L X 1,000⇒ Concentration µg/L = expected groundwater concentration

The DAF concentration is the expected total metals concentration in the groundwater based on the average concentration of the metal in the natural soil. This result is obtained if we assume that the extraction efficiency is 100%. If we assume that the extraction efficiency is only 15% which is conservative according to the Soil Screening Guidance, we get the following result:

Total Expected Groundwater Concentration µg/L x 15% = Reasonable Expected Groundwater Concentration of Constituent µg/L in groundwater.

Table 1 illustrates the DAF calculations based on the analytical results of soil samples collected on June 12, 2007.

3.4 Comparison of Metals within Groundwater to Soil Samples

Based on the last 2.5 years of groundwater monitoring data the metals of concern recognized at the White Street Landfill include: barium, cadmium, cobalt, nickel, thallium, vanadium, and zinc. **Tables 2** through **6** illustrate the DAF calculated range of metal concentrations of the respective metals of concern based on the results of this ASD Amendment. Based on the reported concentrations of the naturally occurring metals within the native, in-situ soils at the site as analyzed during both the original October 1, 2006 ASD as well as this ASD Amendment, the natural levels of these metals within the in-situ onsite soils is sufficient to affect the groundwater quality in the uppermost pervasive aquifer through vertical percolation and leaching of these metals into the aquifer. Based upon a reasonable interpretation of the results of both the original October 2006 ASD and this ASD Amendment, the groundwater concentrations of barium, cadmium, cobalt, vanadium, and zinc are being influenced by the presence of these naturally occurring metals in the overlying in-situ soils. Even though cadmium was not detected in the soil samples collected for this ASD Amendment, cadmium was detected in the in-situ soil samples collected during the original October 2006 ASD at sufficient levels to be influencing groundwater quality in the uppermost aquifer.

4.0 CONCLUSIONS

Based upon the results of the ASD studies, the exceedance of barium, cadmium, cobalt, vanadium, and zinc above their respective standards is not likely due to a release by the Facility, but instead may be attributed to the natural occurrence of these metals in the native, residual soil. The concentrations of the naturally occurring metals barium, cadmium, cobalt, vanadium, and zinc within the in-situ soil at the Facility are sufficient to influence the concentrations of these metals in groundwater samples collected from the upgradient as well as downgradient groundwater monitoring wells based on the results of the initial ASD in conjunction with this ASD Amendment.

The soils analyses do not support influence to groundwater quality from the natural occurrence of the metal thallium. Additionally, while nickel was detected in the in-situ soils at the Facility, the naturally occurring levels of nickel in the soil are not sufficient to attribute the high levels of nickel detected in the groundwater samples from monitoring well I-5 solely to its natural occurrence in the overlying soils.

5.0 REFERENCES

Hydrologic Monitoring Network & Sampling and Analysis Plan, White Street Landfill, City of Greensboro, North Carolina, Engineering Tectonics, P.A., October 1989.

Soil Screening Guidance: Technical Background Document, Second Edition, May 1996, United States Environmental Protection Agency (EPA), EPA/540/R95/128, OSWER-9355.4-17A.

RCRA Groundwater Monitoring Technical Enforcement Guidance Document, U.S. Environmental Protection Agency, September 1986

TABLES

TABLE 1
DAF CALCULATION TABLE
CITY OF GREENSBORO'S WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Analyte	Soil Analytical Results (mg/kg) by Sampling Point								MDL	MRL	Units	MEAN	DAF COMPUTATION mg/L	EXPECTED GROUNDWATER CONCENTRATION µg/L
	I - 5A - 2 '	II - 12A - 2 '	II - 1A - 2 '	II - 5A - 2 '	II - 6A - 2 '	UP - 1 - 2 '	UP - 2 - 2 '	UP - 3 - 2 '						
Aluminum	11900	18900	26000	2660	23600	14800	9140	11300	2.9	5.7	mg/kg dry	14787.50	739.38	110906.25
Antimony	0.30 J	0.82	0.66	0.28 J	1.02	0.48 J	0.49 J	0.30 J	0.11	0.57	mg/kg dry	0.83	0.04	6.25
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	0.11	0.57	mg/kg dry	--	--	--
Barium	96.9	160	114	17.2	71.6	24.4	37.1	89.1	0.011	1.14	mg/kg dry	76.29	3.81	572.16
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	0.04	0.057	mg/kg dry	--	--	--
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	0.029	0.057	mg/kg dry	--	--	--
Calcium	1810	2300	915	128	712	64.8	353	1530	0.4	5.71	mg/kg dry	976.60	48.83	7324.50
Chromium	19.1	84.8	33.1	4.72	35.7	20.2	33.6	4.35	0.11	0.57	mg/kg dry	29.45	1.47	220.85
Cobalt	8.55	14.1	26.1	0.24 J	3.21	0.26 J	2.30	8.86	0.11	0.57	mg/kg dry	10.52	0.53	78.90
Copper	19.7	58.5	19.7	ND	ND	ND	8.61	9.24	0.034	0.571	mg/kg dry	23.15	1.16	173.63
Iron	26100	45400	51100	5230	47800	23700	21000	23500	1.1	2.9	mg/kg dry	30478.75	1523.94	228590.63
Lead	5.38	120	ND	1.94	3.10	1.00	2.38	ND	0.11	0.57	mg/kg dry	22.30	1.12	167.25
Magnesium	4340	5820	10300	147	646	239	1120	4540	1.1	5.7	mg/kg dry	3394.00	169.70	25455.00
Nickel	9.99	18.2	8.04	0.57 J	4.46	0.97	5.16	3.85	0.11	0.57	mg/kg dry	7.24	0.36	54.29
Potassium	1720	1250	29.9	44.6	266	151	ND	739	2.9	28.5	mg/kg dry	600.07	30.00	4500.54
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	0.11	0.57	mg/kg dry	--	--	--
Silver	ND	ND	ND	ND	ND	ND	ND	ND	0.11	0.57	mg/kg dry	--	--	--
Sodium	171	217	174	31	22 J	ND	23 J	194	11	29	mg/kg dry	157.40	7.87	1180.50
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	0.23	0.57	mg/kg dry	--	--	--
Vanadium	51.0	84.8	123	17.1	121	50.9	62.7	57.8	0.057	0.571	mg/kg dry	71.04	3.55	532.78
Zinc	37.7	250	49.5	3.54	15.4	7.93	14.6	24.1	0.057	0.571	mg/kg dry	50.35	2.52	377.60

Samples collected on June 6, 2007

-- Calculation not performed

J = Laboratory estimated value not used in DAF computation

ND = Not Detected

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY (5/05)
INORGANIC CONSTITUENTS
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations																	PQL	NCAC 2L stds.	DAF EXPECTED GROUNDWATER CONCENTRATION µg/L
	I-5	II-1	II-2	II-3	II-4	II-5	II-6	II-7	II-7B	II-8	II-9	II-10	II-11	II-12	DUP II	MW-13	MW-14			
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	30	ns	6.25
Arsenic	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	5	--
Barium	BQL	BQL	BQL	BQL	700	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	600	590	BQL	BQL	500	2000	572.16
Beryllium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2	ns	--
Cadmium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1	5	--
Chromium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	50	220.85
Cobalt	46	24	BQL	40	17	BQL	25	BQL	BQL	BQL	BQL	BQL	12	33	12	BQL	BQL	10	ns	78.90
Copper	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	200	1000	173.63
Lead	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	15	167.25
Mercury	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.5	1.1	--
Nickel	**120**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50	100	54.29
Selenium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	20	50	--
Silver	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	18	--
Thallium	24	16	11	BQL	BQL	BQL	16	BQL	BQL	BQL	BQL	BQL	12	BQL	BQL	BQL	BQL	10	ns	--
Tin	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	100	ns	--
Vanadium	BQL	BQL	BQL	BQL	40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	40	ns	532.78
Zinc	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50	2100	377.60

PQL = Methods Practical Quantitation Limits
BQL = Analytical results is less than the corresponding PQL
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
ns = no corresponding NCAC 2L groundwater quality standard
all concentrations reported in micrograms per liter (ug/L)
(J) = Analyte detected at a concentration between the Method Detection Level and Method Quantitation Level
Quantities highlighted were detected above the PQL
Quantities in **bold** font and highlighted were detected above the 2L standards

Table 3

Groundwater Analytical Results Summary (10/05)
Inorganic Constituents
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Compound	Sample Locations													PQL	NCAC 2L	DAF EXPECTED GROUNDWATER CONCENTRATION µg/L
	I-5	II-1	II-2	II-3	II-4	II-5	II-6	II-7	II-7B	II-8	DUP 2	MW-13	MW-14	(µg/l)	stds.	
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	30	ns	6.25
Arsenic	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	5	--
Barium	BQL	BQL	BQL	BQL	680	BQL	560	BQL	BQL	BQL	BQL	BQL	BQL	500	2000	572.16
Beryllium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2	ns	--
Cadmium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1	5	--
Chromium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	50	220.85
Cobalt	28	60	BQL	23	20	13	48	BQL	BQL	BQL	BQL	BQL	BQL	10	ns	78.90
Copper	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	200	1000	173.63
Lead	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	15	167.25
Mercury	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.5	1.1	--
Nickel	**110**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50	100	54.29
Selenium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	20	50	--
Silver	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	18	--
Thallium	14	23	BQL	BQL	BQL	BQL	25	BQL	BQL	BQL	BQL	BQL	BQL	10	ns	--
Tin	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	100	ns	--
Vanadium	BQL	BQL	BQL	BQL	42	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	40	ns	532.78
Zinc	BQL	BQL	BQL	BQL	91	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50	2100	377.60
Cyanide (total)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	154	--
Sulfide (total)	BQL	BQL	BQL	BQL	BQL	BQL	2000	BQL	BQL	BQL	BQL	BQL	BQL	1000	ns	--

PQL = Methods Practical Quantitation Limits
BQL = Analytical results is less than the corresponding PQL
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
ns = no corresponding NCAC 2L groundwater quality standard
all concentrations reported in micrograms per liter (ug/L)
(J) = Analyte detected at a concentration between the Method Detection Level and Method Quantitation Level
Quantities highlighted were detected above the PQL
Quantities in **bold** font and highlighted were detected above the 2L standards

TABLE 4
GROUNDWATER ANALYTICAL RESULTS SUMMARY (4/06)
INORGANIC CONSTITUENTS
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations																	PQL	NCAC 2L	DAF EXPECTED GROUNDWATER CONCENTRATION µg/L
	I-5	II-1	II-2	II-3	II-4	II-5	II-6	II-7	II-7B	II-8	II-9	II-10	II-11	II-12	DUP II	MW-13	MW-14		stds.	
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	30	ns	6.25
Arsenic	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	5	--
Barium	BQL	BQL	BQL	BQL	570	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	658	BQL	BQL	BQL	500	2000	572.16
Beryllium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2	ns	--
Cadmium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**4.3**	BQL	1	1.75	--
Chromium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	50	220.85
Cobalt	35.7	50.5	BQL	29	16.5	12.5	28.1	BQL	BQL	BQL	BQL	BQL	BQL	41.8	BQL	BQL	BQL	10	ns	78.90
Copper	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	200	1000	173.63
Lead	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	15	167.25
Mercury	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.5	1.1	--
Nickel	**114**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50	100	54.29
Selenium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	20	50	--
Silver	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	18	--
Thallium	20.5	23.7	BQL	BQL	BQL	BQL	18.2	BQL	BQL	BQL	BQL	BQL	BQL	25.3	BQL	BQL	BQL	10	ns	--
Tin	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	100	ns	--
Vanadium	BQL	BQL	BQL	BQL	63.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	40	ns	532.78
Zinc	BQL	BQL	BQL	BQL	72.8	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50	1050	377.60

PQL = Methods Practical Quantitation Limits
BQL = Analytical results is less than the corresponding PQL
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
ns = no corresponding NCAC 2L groundwater quality standard
all concentrations reported in micrograms per liter (ug/L)
(J) = Analyte detected at a concentration between the Method Detection Level and Method Quantitation Level
Quantities highlighted were detected above the PQL
Quantities in **bold** font and highlighted were detected above the 2L standards

TABLE 5
GROUNDWATER ANALYTICAL RESULTS SUMMARY (10/06)
INORGANIC CONSTITUENTS
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations													NC PQL	NCAC 2L stds.	DAF EXPECTED GROUNDWATER CONCENTRATION µg/L
	I-5	II-1	II-2	II-3	II-4	II-5	II-6	II-7	II-7B	II-8	DUP II	MW-13	MW-14			
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	30	ns	6.25
Arsenic	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	5	--
Barium	BQL	BQL	BQL	BQL	552	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	500	2000	572.16
Beryllium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2	ns	--
Cadmium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1	1.75	--
Chromium	BQL	BQL	BQL	BQL	**16.3**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	50	220.85
Cobalt	40.5	72.3	BQL	31.8	16.4	12.8	42.7	BQL	BQL	BQL	BQL	BQL	BQL	10	ns	78.90
Copper	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	200	1000	173.63
Lead	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	15	167.25
Mercury	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.5	1.1	--
Nickel	**122**	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50	100	54.29
Selenium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	20	50	--
Silver	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	18	--
Thallium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	ns	--
Tin	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	100	ns	--
Vanadium	BQL	BQL	BQL	BQL	113	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	40	ns	532.78
Zinc	BQL	BQL	BQL	BQL	113	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50	1050	377.60

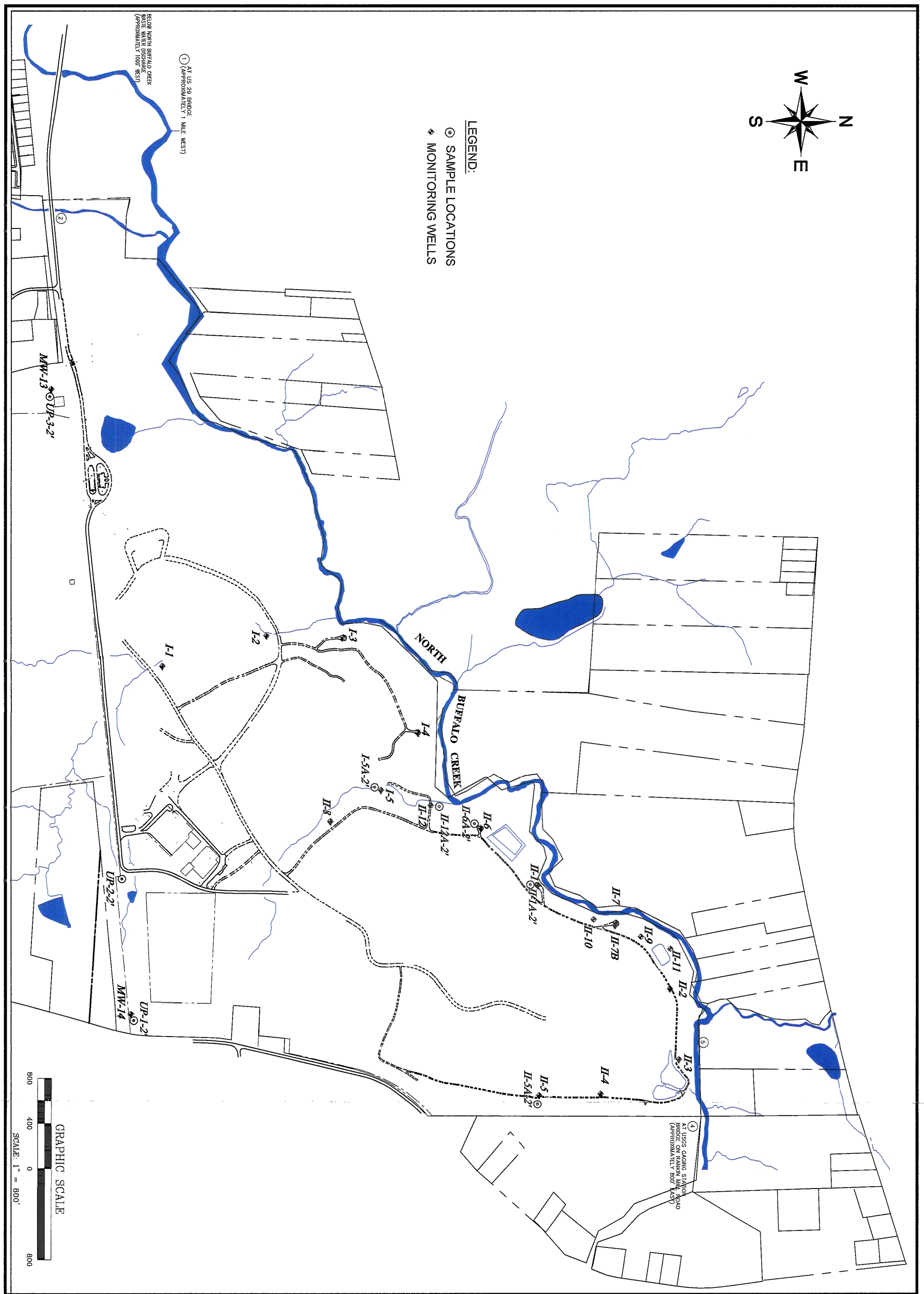
PQL = Methods Practical Quantitation Limits
BQL = Analytical results is less than the corresponding PQL
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
ns = no corresponding NCAC 2L groundwater quality standard
all concentrations reported in micrograms per liter (ug/L)
(J) = Analyte detected at a concentration between the Method Detection Level and Method Quantitation Level
Quantities highlighted were detected above the PQL
Quantities in **bold** font and highlighted were detected above the 2L standards

TABLE 6
GROUNDWATER ANALYTICAL RESULTS SUMMARY (4/07)
INORGANIC CONSTITUENTS
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations													NC PQL	NCAC 2L stds.	DAF EXPECTED GROUNDWATER CONCENTRATION µg/L
	I-5	II-1	II-2	II-3	II-4	II-5	II-6	II-7	II-7B	II-8	DUP II	MW-13	MW-14			
Arsenic	BQL	BQL	BQL	2.5 J	2.5 J	BQL	BQL	BQL	BQL	BQL	4.2 J	BQL	BQL	10	50	--
Barium	83 J	244	60.3 J	218	567	131	292	26.4 J	16.5 J	74.6 J	73.9 J	120	14.4 J	100	2000	572.16
Chromium	BQL	BQL	BQL	BQL	5.9 J	BQL	ND	BQL	BQL	BQL	BQL	BQL	3 J	10	50	220.85
Cobalt	38.2	10.9	BQL	28.8	15.2	12.3	24.5	BQL	BQL	BQL	BQL	BQL	BQL	10	ns	78.90
Copper	44	5.3 J	2 J	0.6 J	43.2	BQL	BQL	0.6 J	ND	0.7 J	2.7 J	1.2 J	BQL	10	1000	173.63
Nickel	**107**	6.9 J	BQL	6.9 J	15.8 J	6.3 J	17.1 J	ND	ND	6.9 J	7.4 J	BQL	BQL	50	100	54.29
Selenium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4 J	3.4 J	BQL	BQL	BQL	BQL	10	50	--
Silver	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.7 J	BQL	BQL	10	18	--
Vanadium	BQL	BQL	BQL	BQL	55.8	BQL	BQL	BQL	14.5 J	BQL	BQL	3.4 J	BQL	25	ns	532.78
Zinc	BQL	BQL	BQL	3 J	48.5	BQL	BQL	BQL	BQL	BQL	BQL	2.2 J	BQL	10	1050	377.60

PQL = Methods Practical Quantitation Limits
BQL = Analytical results is less than the corresponding PQL
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
ns = no corresponding NCAC 2L groundwater quality standard
all concentrations reported in micrograms per liter (ug/L)
(J) = Analyte detected at a concentration between the Method Detection Level and Method Quantitation Level
Quantities highlighted were detected above the PQL
Quantities in **bold** font and highlighted were detected above the 2L standards

FIGURES



S&ME
ENVIRONMENTAL SERVICES
ENGINEERING · TESTING

SOIL SAMPLE LOCATION MAP
Soil Sampling Map
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: DSB/RDM	CHECKED BY: DRL
JOB NO. 1584-98-081	DATE: AUGUST 2007	FIGURE NO. 1

ATTACHMENT A

Alternate Source Demonstration Amendment, Laboratory Analytical Results Report

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

Monday, August 13, 2007

S&ME, Inc. (SM004)

Attn: Connel Ware

3718 Old Battleground Rd.

Greensboro, NC 27410

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill - ASD
ENCO Workorder: C707709

Dear Connel Ware,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, June 13, 2007.

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,

Jim Hays For Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 39.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: II - 1A - 2 ' **Lab ID:** C707709-01 **Sampled:** 06/12/07 10:45 **Received:** 06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 340.2	07/10/07				06/21/07	08:33	6/22/2007	10:30
EPA 353.2	07/10/07				07/06/07	09:27	7/10/2007	13:48
EPA 353.2	07/10/07				07/10/07	16:06	7/10/2007	16:07
EPA 354.1	06/14/07	10:45			06/13/07	13:00	6/13/2007	13:00
EPA 365.1	06/15/07		06/16/07	08:55	06/14/07	08:55	6/16/2007	08:16
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:12
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:12
EPA 9056	06/15/07		07/10/07		06/14/07	08:55	6/15/2007	18:53
EPA 9056	06/15/07		07/12/07		06/14/07	08:55	6/15/2007	18:53

Client ID: II - 1A - 2 ' **Lab ID:** C707709-01RE1 **Sampled:** 06/12/07 10:45 **Received:** 06/13/07 09:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B	12/09/07		06/15/07	09:11	6/19/2007	16:13

Client ID: II - 5A - 2 ' **Lab ID:** C707709-02 **Sampled:** 06/12/07 11:15 **Received:** 06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 340.2	07/10/07				06/21/07	08:33	6/22/2007	10:30
EPA 353.2	07/10/07				07/06/07	09:27	7/10/2007	13:21
EPA 353.2	07/10/07				07/10/07	16:06	7/10/2007	16:07
EPA 354.1	06/14/07	11:15			06/13/07	13:00	6/13/2007	13:00
EPA 365.1	06/15/07		06/16/07	08:55	06/14/07	08:55	6/16/2007	08:17
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:34
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:34
EPA 9056	06/15/07		07/10/07		06/14/07	08:55	6/15/2007	19:11
EPA 9056	06/15/07		07/12/07		06/14/07	08:55	6/15/2007	19:11

Client ID: II - 6A - 2 ' **Lab ID:** C707709-03 **Sampled:** 06/12/07 10:20 **Received:** 06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 340.2	07/10/07				06/21/07	08:33	6/22/2007	10:30
EPA 353.2	07/10/07				07/06/07	09:27	7/10/2007	13:22
EPA 353.2	07/10/07				07/10/07	16:06	7/10/2007	16:07
EPA 354.1	06/14/07	10:20			06/13/07	13:00	6/13/2007	13:00
EPA 365.1	06/15/07		06/16/07	08:55	06/14/07	08:55	6/16/2007	08:18
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:41
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:41
EPA 9056	06/15/07		07/10/07		06/14/07	08:55	6/15/2007	19:29
EPA 9056	06/15/07		07/12/07		06/14/07	08:55	6/15/2007	19:29

Client ID: II - 6A - 2 ' **Lab ID:** C707709-03RE1 **Sampled:** 06/12/07 10:20 **Received:** 06/13/07 09:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B	12/09/07		06/15/07	09:11	6/19/2007	16:19

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Client ID:	II - 12A - 2 '	Lab ID:	C707709-04	Sampled:	06/12/07 10:00	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 340.2	07/10/07				06/21/07	08:33	6/22/2007	10:30
EPA 353.2	07/10/07				07/06/07	09:27	7/10/2007	13:23
EPA 353.2	07/10/07				07/10/07	16:06	7/10/2007	16:07
EPA 354.1	06/14/07	10:00			06/13/07	13:00	6/13/2007	13:00
EPA 365.1	06/15/07		06/16/07	08:55	06/14/07	08:55	6/16/2007	08:19
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:48
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:48
EPA 9056	06/15/07		07/10/07		06/14/07	08:55	6/15/2007	19:47
EPA 9056	06/15/07		07/12/07		06/14/07	08:55	6/15/2007	19:47

Client ID:	II - 12A - 2 '	Lab ID:	C707709-04RE1	Sampled:	06/12/07 10:00	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B	12/09/07		06/15/07	09:11	6/19/2007	16:25

Client ID:	I - 5A - 2 '	Lab ID:	C707709-05	Sampled:	06/12/07 09:30	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 340.2	07/10/07				06/21/07	08:33	6/22/2007	10:30
EPA 353.2	07/10/07				07/06/07	09:27	7/10/2007	13:24
EPA 353.2	07/10/07				07/10/07	16:06	7/10/2007	16:07
EPA 354.1	06/14/07	09:30			06/13/07	13:00	6/13/2007	13:00
EPA 365.1	06/15/07		06/16/07	08:55	06/14/07	08:55	6/16/2007	08:12
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:55
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	14:55
EPA 9056	06/15/07		07/10/07		06/14/07	08:55	6/15/2007	18:36
EPA 9056	06/15/07		07/12/07		06/14/07	08:55	6/15/2007	18:36

Client ID:	I - 5A - 2 '	Lab ID:	C707709-05RE1	Sampled:	06/12/07 09:30	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B	12/09/07		06/15/07	09:11	6/19/2007	16:31

Client ID:	UP - 1 - 2 '	Lab ID:	C707709-06	Sampled:	06/12/07 11:40	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 340.2	07/10/07				06/21/07	08:33	6/22/2007	10:30
EPA 353.2	07/10/07				07/06/07	09:27	7/10/2007	13:25
EPA 353.2	07/10/07				07/10/07	16:06	7/10/2007	16:07
EPA 354.1	06/14/07	11:40			06/13/07	13:00	6/13/2007	13:00
EPA 365.1	06/15/07		06/16/07	08:55	06/14/07	08:55	6/16/2007	08:22
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	15:02
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	15:02
EPA 9056	06/15/07		07/10/07		06/14/07	08:55	6/15/2007	20:05
EPA 9056	06/15/07		07/12/07		06/14/07	08:55	6/15/2007	20:05

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Client ID:	UP - 1 - 2 '	Lab ID:	C707709-06RE1	Sampled:	06/12/07 11:40	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	16:36

Client ID:	UP - 2 - 2 '	Lab ID:	C707709-07	Sampled:	06/12/07 11:55	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 340.2	07/10/07				06/21/07	08:33	6/22/2007	10:30
EPA 353.2	07/10/07				07/06/07	09:27	7/10/2007	13:26
EPA 353.2	07/10/07				07/10/07	16:06	7/10/2007	16:07
EPA 354.1	06/14/07	11:55			06/13/07	13:00	6/13/2007	13:00
EPA 365.1	06/15/07		06/16/07	08:55	06/14/07	08:55	6/16/2007	08:23
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	15:09
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	15:09
EPA 9056	06/15/07		07/10/07		06/14/07	08:55	6/15/2007	20:58
EPA 9056	06/15/07		07/12/07		06/14/07	08:55	6/15/2007	20:58

Client ID:	UP - 2 - 2 '	Lab ID:	C707709-07RE1	Sampled:	06/12/07 11:55	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	16:42

Client ID:	UP - 3 - 2 '	Lab ID:	C707709-08	Sampled:	06/12/07 12:15	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 340.2	07/10/07				06/21/07	08:33	6/22/2007	10:30
EPA 353.2	07/10/07				07/06/07	09:27	7/10/2007	13:27
EPA 353.2	07/10/07				07/10/07	16:06	7/10/2007	16:07
EPA 354.1	06/14/07	12:15			06/13/07	13:00	6/13/2007	13:00
EPA 365.1	06/15/07		06/16/07	08:55	06/14/07	08:55	6/16/2007	08:24
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	15:17
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	15:17
EPA 9056	06/15/07		07/10/07		06/14/07	08:55	6/15/2007	21:16
EPA 9056	06/15/07		07/12/07		06/14/07	08:55	6/15/2007	21:16

Client ID:	UP - 3 - 2 '	Lab ID:	C707709-08RE1	Sampled:	06/12/07 12:15	Received:	06/13/07 09:50

Parameter	Hold Date/Time(s)				Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B	12/09/07				06/15/07	09:11	6/19/2007	16:48

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SAMPLE DETECTION SUMMARY

Client ID: II - 1A - 2 ' **Lab ID:** C707709-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	26000		5.9	mg/kg dry	EPA 6010B	
Antimony	0.66		0.59	mg/kg dry	EPA 6010B	
Barium	114		0.591	mg/kg dry	EPA 6010B	
Calcium	915		5.91	mg/kg dry	EPA 6010B	
Chloride	15		12	mg/kg dry wt. dry	EPA 9056	
Chromium	33.1		0.59	mg/kg dry	EPA 6010B	
Cobalt	26.1		0.59	mg/kg dry	EPA 6010B	
Copper	19.7		0.591	mg/kg dry	EPA 6010B	
Fluoride	6.9		1.2	mg/kg dry	EPA 340.2	
Magnesium	10300		5.9	mg/kg dry	EPA 6010B	
Nickel	8.04		0.59	mg/kg dry	EPA 6010B	
Orthophosphate as P	0.024	J	0.12	mg/kg dry	EPA 365.1	J
Potassium	29.9		29.6	mg/kg dry	EPA 6010B	
Sodium	174		30	mg/kg dry	EPA 6010B	
Sulfate	18.8	J	23.9	mg/kg dry wt. dry	EPA 9056	J
Vanadium	123		0.591	mg/kg dry	EPA 6010B	
Zinc	49.5		0.591	mg/kg dry	EPA 6010B	

Client ID: II - 1A - 2 ' **Lab ID:** C707709-01RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Iron	51100	D	29.6	mg/kg dry	EPA 6010B	

Client ID: II - 5A - 2 ' **Lab ID:** C707709-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	2660		5.8	mg/kg dry	EPA 6010B	
Antimony	0.28	J	0.58	mg/kg dry	EPA 6010B	
Barium	17.2		0.581	mg/kg dry	EPA 6010B	
Calcium	128		5.81	mg/kg dry	EPA 6010B	
Chloride	6.4	J	12	mg/kg dry wt. dry	EPA 9056	J
Chromium	4.72		0.58	mg/kg dry	EPA 6010B	
Cobalt	0.24	J	0.58	mg/kg dry	EPA 6010B	
Fluoride	3.5		1.2	mg/kg dry	EPA 340.2	
Iron	5230		2.9	mg/kg dry	EPA 6010B	
Lead	1.94		0.58	mg/kg dry	EPA 6010B	
Magnesium	147		5.8	mg/kg dry	EPA 6010B	
Nickel	0.57	J	0.58	mg/kg dry	EPA 6010B	
Potassium	44.6		29.1	mg/kg dry	EPA 6010B	
Sodium	31		29	mg/kg dry	EPA 6010B	
Vanadium	17.1		0.581	mg/kg dry	EPA 6010B	
Zinc	3.54		0.581	mg/kg dry	EPA 6010B	

Client ID: II - 6A - 2 ' **Lab ID:** C707709-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	23600		6.2	mg/kg dry	EPA 6010B	
Antimony	1.02		0.62	mg/kg dry	EPA 6010B	
Barium	71.6		0.623	mg/kg dry	EPA 6010B	
Calcium	712		6.23	mg/kg dry	EPA 6010B	

Client ID: II - 6A - 2 ' **Lab ID:** C707709-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Chloride	16		13	mg/kg dry wt. dry	EPA 9056	
Chromium	35.7		0.62	mg/kg dry	EPA 6010B	
Cobalt	3.21		0.62	mg/kg dry	EPA 6010B	
Fluoride	9.1		1.2	mg/kg dry	EPA 340.2	
Lead	3.10		0.62	mg/kg dry	EPA 6010B	
Magnesium	646		6.2	mg/kg dry	EPA 6010B	
Nickel	4.46		0.62	mg/kg dry	EPA 6010B	
Nitrate as N	0.19		0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	2.3		1.2	mg/kg dry	EPA 353.2	
Potassium	266		31.2	mg/kg dry	EPA 6010B	
Sodium	22	J	31	mg/kg dry	EPA 6010B	
Sulfate	10.8	J	25.1	mg/kg dry wt. dry	EPA 9056	J
Vanadium	121		0.623	mg/kg dry	EPA 6010B	
Zinc	15.4		0.623	mg/kg dry	EPA 6010B	

Client ID: II - 6A - 2 ' **Lab ID:** C707709-03RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Iron	47800	D	31.2	mg/kg dry	EPA 6010B	

Client ID: II - 12A - 2 ' **Lab ID:** C707709-04

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	18900		6.1	mg/kg dry	EPA 6010B	
Antimony	0.82		0.61	mg/kg dry	EPA 6010B	
Barium	160		0.609	mg/kg dry	EPA 6010B	
Calcium	2300		6.09	mg/kg dry	EPA 6010B	
Chloride	17		12	mg/kg dry wt. dry	EPA 9056	
Chromium	84.8		0.61	mg/kg dry	EPA 6010B	
Cobalt	14.1		0.61	mg/kg dry	EPA 6010B	
Copper	58.5		0.609	mg/kg dry	EPA 6010B	
Fluoride	2.5		1.2	mg/kg dry	EPA 340.2	
Lead	120		0.61	mg/kg dry	EPA 6010B	
Magnesium	5820		6.1	mg/kg dry	EPA 6010B	
Nickel	18.2		0.61	mg/kg dry	EPA 6010B	
Nitrate as N	0.16		0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	2.0		1.2	mg/kg dry	EPA 353.2	
Orthophosphate as P	0.036	J	0.12	mg/kg dry	EPA 365.1	J
Potassium	1250		30.4	mg/kg dry	EPA 6010B	
Sodium	217		30	mg/kg dry	EPA 6010B	
Vanadium	84.8		0.609	mg/kg dry	EPA 6010B	
Zinc	250		0.609	mg/kg dry	EPA 6010B	

Client ID: II - 12A - 2 ' **Lab ID:** C707709-04RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Iron	45400	D	30.4	mg/kg dry	EPA 6010B	

Client ID: I - 5A - 2 ' **Lab ID:** C707709-05

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	11900		6.0	mg/kg dry	EPA 6010B	
Antimony	0.30	J	0.60	mg/kg dry	EPA 6010B	

Client ID:	I - 5A - 2 '	Lab ID:	C707709-05			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Barium	96.9		0.597	mg/kg dry	EPA 6010B	
Calcium	1810		5.97	mg/kg dry	EPA 6010B	
Chloride	8.8	J	10	mg/kg dry wt. dry	EPA 9056	J
Chromium	19.1		0.60	mg/kg dry	EPA 6010B	
Cobalt	8.55		0.60	mg/kg dry	EPA 6010B	
Copper	19.7		0.597	mg/kg dry	EPA 6010B	
Fluoride	10		1.2	mg/kg dry	EPA 340.2	
Lead	5.38		0.60	mg/kg dry	EPA 6010B	
Magnesium	4340		6.0	mg/kg dry	EPA 6010B	
Nickel	9.99		0.60	mg/kg dry	EPA 6010B	
Potassium	1720		29.9	mg/kg dry	EPA 6010B	
Sodium	171		30	mg/kg dry	EPA 6010B	
Sulfate	8.8	J	20.9	mg/kg dry wt. dry	EPA 9056	J
Vanadium	51.0		0.597	mg/kg dry	EPA 6010B	
Zinc	37.7		0.597	mg/kg dry	EPA 6010B	

Client ID:	I - 5A - 2 '	Lab ID:	C707709-05RE1			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Iron	26100	D	29.9	mg/kg dry	EPA 6010B	

Client ID:	UP - 1 - 2 '	Lab ID:	C707709-06			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	14800		6.0	mg/kg dry	EPA 6010B	
Antimony	0.48	J	0.60	mg/kg dry	EPA 6010B	
Barium	24.4		0.600	mg/kg dry	EPA 6010B	
Calcium	64.8		6.00	mg/kg dry	EPA 6010B	
Chloride	14		11	mg/kg dry wt. dry	EPA 9056	
Chromium	20.2		0.60	mg/kg dry	EPA 6010B	
Cobalt	0.26	J	0.60	mg/kg dry	EPA 6010B	
Fluoride	12		1.2	mg/kg dry	EPA 340.2	
Lead	1.00		0.60	mg/kg dry	EPA 6010B	
Magnesium	239		6.0	mg/kg dry	EPA 6010B	
Nickel	0.97		0.60	mg/kg dry	EPA 6010B	
Potassium	151		30.0	mg/kg dry	EPA 6010B	
Sulfate	14.1	J	22.9	mg/kg dry wt. dry	EPA 9056	J
Vanadium	50.9		0.600	mg/kg dry	EPA 6010B	
Zinc	7.93		0.600	mg/kg dry	EPA 6010B	

Client ID:	UP - 1 - 2 '	Lab ID:	C707709-06RE1			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Iron	23700	D	30.0	mg/kg dry	EPA 6010B	

Client ID:	UP - 2 - 2 '	Lab ID:	C707709-07			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	9140		5.8	mg/kg dry	EPA 6010B	
Antimony	0.49	J	0.58	mg/kg dry	EPA 6010B	
Barium	37.1		0.578	mg/kg dry	EPA 6010B	
Calcium	353		5.78	mg/kg dry	EPA 6010B	

Client ID:	UP - 2 - 2 '	Lab ID:	C707709-07

Analyte	Results	Flag	MRL	Units	Method	Notes
Chloride	14		12	mg/kg dry wt. dry	EPA 9056	
Chromium	33.6		0.58	mg/kg dry	EPA 6010B	
Cobalt	2.30		0.58	mg/kg dry	EPA 6010B	
Copper	8.61		0.578	mg/kg dry	EPA 6010B	
Fluoride	10		1.2	mg/kg dry	EPA 340.2	
Lead	2.38		0.58	mg/kg dry	EPA 6010B	
Magnesium	1120		5.8	mg/kg dry	EPA 6010B	
Nickel	5.16		0.58	mg/kg dry	EPA 6010B	
Nitrate as N	0.72		0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	8.3		1.2	mg/kg dry	EPA 353.2	
Orthophosphate as P	0.023	J	0.12	mg/kg dry	EPA 365.1	J
Sodium	23	J	29	mg/kg dry	EPA 6010B	
Sulfate	9.0	J	23.1	mg/kg dry wt. dry	EPA 9056	J
Vanadium	62.7		0.578	mg/kg dry	EPA 6010B	
Zinc	14.6		0.578	mg/kg dry	EPA 6010B	

Client ID:	UP - 2 - 2 '	Lab ID:	C707709-07RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Iron	21000	D	28.9	mg/kg dry	EPA 6010B	

Client ID:	UP - 3 - 2 '	Lab ID:	C707709-08

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	11300		5.4	mg/kg dry	EPA 6010B	
Antimony	0.30	J	0.54	mg/kg dry	EPA 6010B	
Barium	89.1		0.542	mg/kg dry	EPA 6010B	
Calcium	1530		5.42	mg/kg dry	EPA 6010B	
Chloride	9.1	J	11	mg/kg dry wt. dry	EPA 9056	J
Chromium	4.35		0.54	mg/kg dry	EPA 6010B	
Cobalt	8.86		0.54	mg/kg dry	EPA 6010B	
Copper	9.24		0.542	mg/kg dry	EPA 6010B	
Fluoride	9.5		1.1	mg/kg dry	EPA 340.2	
Magnesium	4540		5.4	mg/kg dry	EPA 6010B	
Nickel	3.85		0.54	mg/kg dry	EPA 6010B	
Potassium	739		27.1	mg/kg dry	EPA 6010B	
Sodium	194		27	mg/kg dry	EPA 6010B	
Vanadium	57.8		0.542	mg/kg dry	EPA 6010B	
Zinc	24.1		0.542	mg/kg dry	EPA 6010B	

Client ID:	UP - 3 - 2 '	Lab ID:	C707709-08RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Iron	23500	D	27.1	mg/kg dry	EPA 6010B	

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ANALYTICAL RESULTS

Description: II - 1A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-01
Sampled: 06/12/07 10:45
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

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
Aluminum [7429-90-5] *	**26000**		mg/kg dry	1	3.0	5.9	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Antimony [7440-36-0] *	**0.66**		mg/kg dry	1	0.12	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Arsenic [7440-38-2] *	0.12	U	mg/kg dry	1	0.12	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Barium [7440-39-3] *	**114**		mg/kg dry	1	0.012	0.591	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Beryllium [7440-41-7] *	0.041	U	mg/kg dry	1	0.041	0.059	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Cadmium [7440-43-9] *	0.030	U	mg/kg dry	1	0.030	0.059	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Calcium [7440-70-2] *	**915**		mg/kg dry	1	0.41	5.91	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Chromium [7440-47-3] *	**33.1**		mg/kg dry	1	0.12	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Cobalt [7440-48-4] *	**26.1**		mg/kg dry	1	0.12	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Copper [7440-50-8] *	**19.7**		mg/kg dry	1	0.035	0.591	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Iron [7439-89-6] *	**51100**	D	mg/kg dry	10	11.8	29.6	7F15009	EPA 6010B	06/19/07 16:13	JDH	
Lead [7439-92-1] *	0.12	U	mg/kg dry	1	0.12	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Magnesium [7439-95-4] *	**10300**		mg/kg dry	1	1.2	5.9	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Nickel [7440-02-0] *	**8.04**		mg/kg dry	1	0.12	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Potassium [7440-09-7] *	**29.9**		mg/kg dry	1	3.0	29.6	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Selenium [7782-49-2] *	0.12	U	mg/kg dry	1	0.12	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Silver [7440-22-4] *	0.12	U	mg/kg dry	1	0.12	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Sodium [7440-23-5] *	**174**		mg/kg dry	1	12	30	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Thallium [7440-28-0] *	0.24	U	mg/kg dry	1	0.24	0.59	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Vanadium [7440-62-2] *	**123**		mg/kg dry	1	0.059	0.591	7F15009	EPA 6010B	06/19/07 14:12	JDH	
Zinc [7440-66-6] *	**49.5**		mg/kg dry	1	0.059	0.591	7F15009	EPA 6010B	06/19/07 14:12	JDH	

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Description:	II - 1A - 2 '	**Lab Sample ID:**	C707709-01	**Received:**	06/13/07 09:50
Matrix:	Soil	**Sampled:**	06/12/07 10:45	**Work Order:**	C707709
Project:	White Street Landfill - ASD	**Sampled By:**	Gary Simcox		

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoride [16984-48-8]	**6.9**		mg/kg dry	1	0.063	1.2	7F21009	EPA 340.2	06/22/07 10:30	AMH	
Nitrate as N [14797-55-8] *	0.0066	U	mg/L	1	0.0066	0.10	7G10019	EPA 353.2	07/10/07 16:07	AMH	
Nitrate/Nitrite as N [NA]	0.078	U	mg/kg dry	1	0.078	1.2	7G06016	EPA 353.2	07/10/07 13:48	RWH	
Nitrite as N [14797-65-0]	0.58	U	mg/kg dry	1	0.58	1.2	7G06024	EPA 354.1	06/13/07 13:00	AMH	

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Description: II - 1A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-01
Sampled: 06/12/07 10:45
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**15**		mg/kg dry wt. dry	1	0.60	12	7F14021	EPA 9056	06/15/07 18:53	RSA	
Orthophosphate as P [1426-54-42]	**0.024**	J	mg/kg dry	1	0.018	0.12	7F14006	EPA 365.1	06/16/07 08:16	NS	J
Sulfate [14808-79-8]	**18.8**	J	mg/kg dry wt. dry	1	0.4	23.9	7F14021	EPA 9056	06/15/07 18:53	RSA	J

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Description: II - 5A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-02
Sampled: 06/12/07 11:15
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

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
Aluminum [7429-90-5] *	**2660**		mg/kg dry	1	2.9	5.8	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Antimony [7440-36-0] *	**0.28**	J	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Arsenic [7440-38-2] *	0.12	U	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Barium [7440-39-3] *	**17.2**		mg/kg dry	1	0.012	0.581	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Beryllium [7440-41-7] *	0.041	U	mg/kg dry	1	0.041	0.058	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Cadmium [7440-43-9] *	0.029	U	mg/kg dry	1	0.029	0.058	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Calcium [7440-70-2] *	**128**		mg/kg dry	1	0.41	5.81	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Chromium [7440-47-3] *	**4.72**		mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Cobalt [7440-48-4] *	**0.24**	J	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Copper [7440-50-8] *	0.035	U	mg/kg dry	1	0.035	0.581	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Iron [7439-89-6] *	**5230**		mg/kg dry	1	1.2	2.9	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Lead [7439-92-1] *	**1.94**		mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Magnesium [7439-95-4] *	**147**		mg/kg dry	1	1.2	5.8	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Nickel [7440-02-0] *	**0.57**	J	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Potassium [7440-09-7] *	**44.6**		mg/kg dry	1	2.9	29.1	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Selenium [7782-49-2] *	0.12	U	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Silver [7440-22-4] *	0.12	U	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Sodium [7440-23-5] *	**31**		mg/kg dry	1	12	29	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Thallium [7440-28-0] *	0.23	U	mg/kg dry	1	0.23	0.58	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Vanadium [7440-62-2] *	**17.1**		mg/kg dry	1	0.058	0.581	7F15009	EPA 6010B	06/19/07 14:34	JDH	
Zinc [7440-66-6] *	**3.54**		mg/kg dry	1	0.058	0.581	7F15009	EPA 6010B	06/19/07 14:34	JDH	

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Description:	II - 5A - 2 '	**Lab Sample ID:**	C707709-02	**Received:**	06/13/07 09:50
Matrix:	Soil	**Sampled:**	06/12/07 11:15	**Work Order:**	C707709
Project:	White Street Landfill - ASD	**Sampled By:**	Gary Simcox		

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoride [16984-48-8]	**3.5**		mg/kg dry	1	0.062	1.2	7F21009	EPA 340.2	06/22/07 10:30	AMH	
Nitrate as N [14797-55-8] *	0.0066	U	mg/L	1	0.0066	0.10	7G10019	EPA 353.2	07/10/07 16:07	AMH	
Nitrate/Nitrite as N [NA]	0.077	U	mg/kg dry	1	0.077	1.2	7G06016	EPA 353.2	07/10/07 13:21	RWH	
Nitrite as N [14797-65-0]	0.57	U	mg/kg dry	1	0.57	1.2	7G06024	EPA 354.1	06/13/07 13:00	AMH	

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Description: II - 5A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-02
Sampled: 06/12/07 11:15
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**6.4**	J	mg/kg dry wt. dry	1	0.59	12	7F14021	EPA 9056	06/15/07 19:11	RSA	J
Orthophosphate as P [1426-54-42]	0.018	U	mg/kg dry	1	0.018	0.12	7F14006	EPA 365.1	06/16/07 08:17	NS	U
Sulfate [14808-79-8]	0.4	U	mg/kg dry wt. dry	1	0.4	23.5	7F14021	EPA 9056	06/15/07 19:11	RSA	U

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Description: II - 6A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-03
Sampled: 06/12/07 10:20
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

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
Aluminum [7429-90-5] *	**23600**		mg/kg dry	1	3.1	6.2	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Antimony [7440-36-0] *	**1.02**		mg/kg dry	1	0.12	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Arsenic [7440-38-2] *	0.12	U	mg/kg dry	1	0.12	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Barium [7440-39-3] *	**71.6**		mg/kg dry	1	0.012	0.623	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Beryllium [7440-41-7] *	0.044	U	mg/kg dry	1	0.044	0.062	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Cadmium [7440-43-9] *	0.031	U	mg/kg dry	1	0.031	0.062	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Calcium [7440-70-2] *	**712**		mg/kg dry	1	0.44	6.23	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Chromium [7440-47-3] *	**35.7**		mg/kg dry	1	0.12	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Cobalt [7440-48-4] *	**3.21**		mg/kg dry	1	0.12	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Copper [7440-50-8] *	0.037	U	mg/kg dry	1	0.037	0.623	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Iron [7439-89-6] *	**47800**	D	mg/kg dry	10	12.5	31.2	7F15009	EPA 6010B	06/19/07 16:19	JDH	
Lead [7439-92-1] *	**3.10**		mg/kg dry	1	0.12	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Magnesium [7439-95-4] *	**646**		mg/kg dry	1	1.2	6.2	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Nickel [7440-02-0] *	**4.46**		mg/kg dry	1	0.12	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Potassium [7440-09-7] *	**266**		mg/kg dry	1	3.1	31.2	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Selenium [7782-49-2] *	0.12	U	mg/kg dry	1	0.12	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Silver [7440-22-4] *	0.12	U	mg/kg dry	1	0.12	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Sodium [7440-23-5] *	**22**	J	mg/kg dry	1	12	31	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Thallium [7440-28-0] *	0.25	U	mg/kg dry	1	0.25	0.62	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Vanadium [7440-62-2] *	**121**		mg/kg dry	1	0.062	0.623	7F15009	EPA 6010B	06/19/07 14:41	JDH	
Zinc [7440-66-6] *	**15.4**		mg/kg dry	1	0.062	0.623	7F15009	EPA 6010B	06/19/07 14:41	JDH	

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Description:	II - 6A - 2 '	**Lab Sample ID:**	C707709-03	**Received:**	06/13/07 09:50
Matrix:	Soil	**Sampled:**	06/12/07 10:20	**Work Order:**	C707709
Project:	White Street Landfill - ASD	**Sampled By:**	Gary Simcox		

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoride [16984-48-8]	**9.1**		mg/kg dry	1	0.066	1.2	7F21009	EPA 340.2	06/22/07 10:30	AMH	
Nitrate as N [14797-55-8] *	**0.19**		mg/L	1	0.0066	0.10	7G10019	EPA 353.2	07/10/07 16:07	AMH	
Nitrate/Nitrite as N [NA]	**2.3**		mg/kg dry	1	0.082	1.2	7G06016	EPA 353.2	07/10/07 13:22	RWH	
Nitrite as N [14797-65-0]	0.61	U	mg/kg dry	1	0.61	1.2	7G06024	EPA 354.1	06/13/07 13:00	AMH	

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Description: II - 6A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-03
Sampled: 06/12/07 10:20
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**16**		mg/kg dry wt. dry	1	0.63	13	7F14021	EPA 9056	06/15/07 19:29	RSA	
Orthophosphate as P [1426-54-42]	0.019	U	mg/kg dry	1	0.019	0.13	7F14006	EPA 365.1	06/16/07 08:18	NS	U
Sulfate [14808-79-8]	**10.8**	J	mg/kg dry wt. dry	1	0.4	25.1	7F14021	EPA 9056	06/15/07 19:29	RSA	J

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Description: II - 12A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-04
Sampled: 06/12/07 10:00
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

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
Aluminum [7429-90-5] *	**18900**		mg/kg dry	1	3.0	6.1	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Antimony [7440-36-0] *	**0.82**		mg/kg dry	1	0.12	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Arsenic [7440-38-2] *	0.12	U	mg/kg dry	1	0.12	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Barium [7440-39-3] *	**160**		mg/kg dry	1	0.012	0.609	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Beryllium [7440-41-7] *	0.043	U	mg/kg dry	1	0.043	0.061	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Cadmium [7440-43-9] *	0.030	U	mg/kg dry	1	0.030	0.061	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Calcium [7440-70-2] *	**2300**		mg/kg dry	1	0.43	6.09	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Chromium [7440-47-3] *	**84.8**		mg/kg dry	1	0.12	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Cobalt [7440-48-4] *	**14.1**		mg/kg dry	1	0.12	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Copper [7440-50-8] *	**58.5**		mg/kg dry	1	0.037	0.609	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Iron [7439-89-6] *	**45400**	D	mg/kg dry	10	12.2	30.4	7F15009	EPA 6010B	06/19/07 16:25	JDH	
Lead [7439-92-1] *	**120**		mg/kg dry	1	0.12	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Magnesium [7439-95-4] *	**5820**		mg/kg dry	1	1.2	6.1	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Nickel [7440-02-0] *	**18.2**		mg/kg dry	1	0.12	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Potassium [7440-09-7] *	**1250**		mg/kg dry	1	3.0	30.4	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Selenium [7782-49-2] *	0.12	U	mg/kg dry	1	0.12	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Silver [7440-22-4] *	0.12	U	mg/kg dry	1	0.12	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Sodium [7440-23-5] *	**217**		mg/kg dry	1	12	30	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Thallium [7440-28-0] *	0.24	U	mg/kg dry	1	0.24	0.61	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Vanadium [7440-62-2] *	**84.8**		mg/kg dry	1	0.061	0.609	7F15009	EPA 6010B	06/19/07 14:48	JDH	
Zinc [7440-66-6] *	**250**		mg/kg dry	1	0.061	0.609	7F15009	EPA 6010B	06/19/07 14:48	JDH	

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Description:	II - 12A - 2 '	**Lab Sample ID:**	C707709-04	**Received:**	06/13/07 09:50
Matrix:	Soil	**Sampled:**	06/12/07 10:00	**Work Order:**	C707709
Project:	White Street Landfill - ASD	**Sampled By:**	Gary Simcox		

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoride [16984-48-8]	**2.5**		mg/kg dry	1	0.065	1.2	7F21009	EPA 340.2	06/22/07 10:30	AMH	
Nitrate as N [14797-55-8] *	**0.16**		mg/L	1	0.0066	0.10	7G10019	EPA 353.2	07/10/07 16:07	AMH	
Nitrate/Nitrite as N [NA]	**2.0**		mg/kg dry	1	0.080	1.2	7G06016	EPA 353.2	07/10/07 13:23	RWH	
Nitrite as N [14797-65-0]	0.60	U	mg/kg dry	1	0.60	1.2	7G06024	EPA 354.1	06/13/07 13:00	AMH	

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Description: II - 12A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-04
Sampled: 06/12/07 10:00
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**17**		mg/kg dry wt. dry	1	0.61	12	7F14021	EPA 9056	06/15/07 19:47	RSA	
Orthophosphate as P [1426-54-42]	**0.036**	J	mg/kg dry	1	0.018	0.12	7F14006	EPA 365.1	06/16/07 08:19	NS	J
Sulfate [14808-79-8]	0.4	U	mg/kg dry wt. dry	1	0.4	24.3	7F14021	EPA 9056	06/15/07 19:47	RSA	U

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Description: I - 5A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-05
Sampled: 06/12/07 09:30
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

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
Aluminum [7429-90-5] *	**11900**		mg/kg dry	1	3.0	6.0	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Antimony [7440-36-0] *	**0.30**	J	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Arsenic [7440-38-2] *	0.12	U	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Barium [7440-39-3] *	**96.9**		mg/kg dry	1	0.012	0.597	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Beryllium [7440-41-7] *	0.042	U	mg/kg dry	1	0.042	0.060	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Cadmium [7440-43-9] *	0.030	U	mg/kg dry	1	0.030	0.060	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Calcium [7440-70-2] *	**1810**		mg/kg dry	1	0.42	5.97	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Chromium [7440-47-3] *	**19.1**		mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Cobalt [7440-48-4] *	**8.55**		mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Copper [7440-50-8] *	**19.7**		mg/kg dry	1	0.036	0.597	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Iron [7439-89-6] *	**26100**	D	mg/kg dry	10	11.9	29.9	7F15009	EPA 6010B	06/19/07 16:31	JDH	
Lead [7439-92-1] *	**5.38**		mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Magnesium [7439-95-4] *	**4340**		mg/kg dry	1	1.2	6.0	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Nickel [7440-02-0] *	**9.99**		mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Potassium [7440-09-7] *	**1720**		mg/kg dry	1	3.0	29.9	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Selenium [7782-49-2] *	0.12	U	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Silver [7440-22-4] *	0.12	U	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Sodium [7440-23-5] *	**171**		mg/kg dry	1	12	30	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Thallium [7440-28-0] *	0.24	U	mg/kg dry	1	0.24	0.60	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Vanadium [7440-62-2] *	**51.0**		mg/kg dry	1	0.060	0.597	7F15009	EPA 6010B	06/19/07 14:55	JDH	
Zinc [7440-66-6] *	**37.7**		mg/kg dry	1	0.060	0.597	7F15009	EPA 6010B	06/19/07 14:55	JDH	

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Description: I - 5A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-05
Sampled: 06/12/07 09:30
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoride [16984-48-8]	**10**		mg/kg dry	1	0.063	1.2	7F21009	EPA 340.2	06/22/07 10:30	AMH	
Nitrate as N [14797-55-8] *	0.0066	U	mg/L	1	0.0066	0.10	7G10019	EPA 353.2	07/10/07 16:07	AMH	
Nitrate/Nitrite as N [NA]	0.079	U	mg/kg dry	1	0.079	1.2	7G06016	EPA 353.2	07/10/07 13:24	RWH	
Nitrite as N [14797-65-0]	0.59	U	mg/kg dry	1	0.59	1.2	7G06024	EPA 354.1	06/13/07 13:00	AMH	

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Description: I - 5A - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-05
Sampled: 06/12/07 09:30
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**8.8**	J	mg/kg dry wt. dry	1	0.52	10	7F14021	EPA 9056	06/15/07 18:36	RSA	J
Orthophosphate as P [1426-54-42]	0.016	U	mg/kg dry	1	0.016	0.10	7F14006	EPA 365.1	06/16/07 08:12	NS	U
Sulfate [14808-79-8]	**8.8**	J	mg/kg dry wt. dry	1	0.3	20.9	7F14021	EPA 9056	06/15/07 18:36	RSA	J

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Description: UP - 1 - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-06
Sampled: 06/12/07 11:40
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

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
Aluminum [7429-90-5] *	**14800**		mg/kg dry	1	3.0	6.0	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Antimony [7440-36-0] *	**0.48**	J	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Arsenic [7440-38-2] *	0.12	U	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Barium [7440-39-3] *	**24.4**		mg/kg dry	1	0.012	0.600	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Beryllium [7440-41-7] *	0.042	U	mg/kg dry	1	0.042	0.060	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Cadmium [7440-43-9] *	0.030	U	mg/kg dry	1	0.030	0.060	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Calcium [7440-70-2] *	**64.8**		mg/kg dry	1	0.42	6.00	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Chromium [7440-47-3] *	**20.2**		mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Cobalt [7440-48-4] *	**0.26**	J	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Copper [7440-50-8] *	0.036	U	mg/kg dry	1	0.036	0.600	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Iron [7439-89-6] *	**23700**	D	mg/kg dry	10	12.0	30.0	7F15009	EPA 6010B	06/19/07 16:36	JDH	
Lead [7439-92-1] *	**1.00**		mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Magnesium [7439-95-4] *	**239**		mg/kg dry	1	1.2	6.0	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Nickel [7440-02-0] *	**0.97**		mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Potassium [7440-09-7] *	**151**		mg/kg dry	1	3.0	30.0	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Selenium [7782-49-2] *	0.12	U	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Silver [7440-22-4] *	0.12	U	mg/kg dry	1	0.12	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Sodium [7440-23-5] *	12	U	mg/kg dry	1	12	30	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Thallium [7440-28-0] *	0.24	U	mg/kg dry	1	0.24	0.60	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Vanadium [7440-62-2] *	**50.9**		mg/kg dry	1	0.060	0.600	7F15009	EPA 6010B	06/19/07 15:02	JDH	
Zinc [7440-66-6] *	**7.93**		mg/kg dry	1	0.060	0.600	7F15009	EPA 6010B	06/19/07 15:02	JDH	

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Description: UP - 1 - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-06
Sampled: 06/12/07 11:40
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoride [16984-48-8]	**12**		mg/kg dry	1	0.064	1.2	7F21009	EPA 340.2	06/22/07 10:30	AMH	
Nitrate as N [14797-55-8] *	0.0066	U	mg/L	1	0.0066	0.10	7G10019	EPA 353.2	07/10/07 16:07	AMH	
Nitrate/Nitrite as N [NA]	0.079	U	mg/kg dry	1	0.079	1.2	7G06016	EPA 353.2	07/10/07 13:25	RWH	
Nitrite as N [14797-65-0]	0.59	U	mg/kg dry	1	0.59	1.2	7G06024	EPA 354.1	06/13/07 13:00	AMH	

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Description: UP - 1 - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-06
Sampled: 06/12/07 11:40
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**14**		mg/kg dry wt. dry	1	0.57	11	7F14021	EPA 9056	06/15/07 20:05	RSA	
Orthophosphate as P [1426-54-42]	0.017	U	mg/kg dry	1	0.017	0.11	7F14006	EPA 365.1	06/16/07 08:22	NS	U
Sulfate [14808-79-8]	**14.1**	J	mg/kg dry wt. dry	1	0.3	22.9	7F14021	EPA 9056	06/15/07 20:05	RSA	J

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Description: UP - 2 - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-07
Sampled: 06/12/07 11:55
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

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
Aluminum [7429-90-5] *	**9140**		mg/kg dry	1	2.9	5.8	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Antimony [7440-36-0] *	**0.49**	J	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Arsenic [7440-38-2] *	0.12	U	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Barium [7440-39-3] *	**37.1**		mg/kg dry	1	0.012	0.578	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Beryllium [7440-41-7] *	0.040	U	mg/kg dry	1	0.040	0.058	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Cadmium [7440-43-9] *	0.029	U	mg/kg dry	1	0.029	0.058	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Calcium [7440-70-2] *	**353**		mg/kg dry	1	0.40	5.78	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Chromium [7440-47-3] *	**33.6**		mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Cobalt [7440-48-4] *	**2.30**		mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Copper [7440-50-8] *	**8.61**		mg/kg dry	1	0.035	0.578	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Iron [7439-89-6] *	**21000**	D	mg/kg dry	10	11.6	28.9	7F15009	EPA 6010B	06/19/07 16:42	JDH	
Lead [7439-92-1] *	**2.38**		mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Magnesium [7439-95-4] *	**1120**		mg/kg dry	1	1.2	5.8	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Nickel [7440-02-0] *	**5.16**		mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Potassium [7440-09-7] *	2.9	U	mg/kg dry	1	2.9	28.9	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Selenium [7782-49-2] *	0.12	U	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Silver [7440-22-4] *	0.12	U	mg/kg dry	1	0.12	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Sodium [7440-23-5] *	**23**	J	mg/kg dry	1	12	29	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Thallium [7440-28-0] *	0.23	U	mg/kg dry	1	0.23	0.58	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Vanadium [7440-62-2] *	**62.7**		mg/kg dry	1	0.058	0.578	7F15009	EPA 6010B	06/19/07 15:09	JDH	
Zinc [7440-66-6] *	**14.6**		mg/kg dry	1	0.058	0.578	7F15009	EPA 6010B	06/19/07 15:09	JDH	

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Description:	UP - 2 - 2 '	**Lab Sample ID:**	C707709-07	**Received:**	06/13/07 09:50
Matrix:	Soil	**Sampled:**	06/12/07 11:55	**Work Order:**	C707709
Project:	White Street Landfill - ASD	**Sampled By:**	Gary Simcox		

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoride [16984-48-8]	**10**		mg/kg dry	1	0.061	1.2	7F21009	EPA 340.2	06/22/07 10:30	AMH	
Nitrate as N [14797-55-8] *	**0.72**		mg/L	1	0.0066	0.10	7G10019	EPA 353.2	07/10/07 16:07	AMH	
Nitrate/Nitrite as N [NA]	**8.3**		mg/kg dry	1	0.076	1.2	7G06016	EPA 353.2	07/10/07 13:26	RWH	
Nitrite as N [14797-65-0]	0.57	U	mg/kg dry	1	0.57	1.2	7G06024	EPA 354.1	06/13/07 13:00	AMH	

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Description: UP - 2 - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-07
Sampled: 06/12/07 11:55
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**14**		mg/kg dry wt. dry	1	0.58	12	7F14021	EPA 9056	06/15/07 20:58	RSA	
Orthophosphate as P [1426-54-42]	**0.023**	J	mg/kg dry	1	0.017	0.12	7F14006	EPA 365.1	06/16/07 08:23	NS	J
Sulfate [14808-79-8]	**9.0**	J	mg/kg dry wt. dry	1	0.3	23.1	7F14021	EPA 9056	06/15/07 20:58	RSA	J

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Description: UP - 3 - 2 '
Matrix: Soil
Project: White Street Landfill - ASD

Lab Sample ID: C707709-08
Sampled: 06/12/07 12:15
Sampled By: Gary Simcox

Received: 06/13/07 09:50
Work Order: C707709

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
Aluminum [7429-90-5] *	**11300**		mg/kg dry	1	2.7	5.4	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Antimony [7440-36-0] *	**0.30**	J	mg/kg dry	1	0.11	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Arsenic [7440-38-2] *	0.11	U	mg/kg dry	1	0.11	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Barium [7440-39-3] *	**89.1**		mg/kg dry	1	0.011	0.542	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Beryllium [7440-41-7] *	0.038	U	mg/kg dry	1	0.038	0.054	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Cadmium [7440-43-9] *	0.027	U	mg/kg dry	1	0.027	0.054	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Calcium [7440-70-2] *	**1530**		mg/kg dry	1	0.38	5.42	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Chromium [7440-47-3] *	**4.35**		mg/kg dry	1	0.11	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Cobalt [7440-48-4] *	**8.86**		mg/kg dry	1	0.11	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Copper [7440-50-8] *	**9.24**		mg/kg dry	1	0.033	0.542	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Iron [7439-89-6] *	**23500**	D	mg/kg dry	10	10.8	27.1	7F15009	EPA 6010B	06/19/07 16:48	JDH	
Lead [7439-92-1] *	0.11	U	mg/kg dry	1	0.11	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Magnesium [7439-95-4] *	**4540**		mg/kg dry	1	1.1	5.4	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Nickel [7440-02-0] *	**3.85**		mg/kg dry	1	0.11	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Potassium [7440-09-7] *	**739**		mg/kg dry	1	2.7	27.1	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Selenium [7782-49-2] *	0.11	U	mg/kg dry	1	0.11	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Silver [7440-22-4] *	0.11	U	mg/kg dry	1	0.11	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Sodium [7440-23-5] *	**194**		mg/kg dry	1	11	27	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Thallium [7440-28-0] *	0.22	U	mg/kg dry	1	0.22	0.54	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Vanadium [7440-62-2] *	**57.8**		mg/kg dry	1	0.054	0.542	7F15009	EPA 6010B	06/19/07 15:17	JDH	
Zinc [7440-66-6] *	**24.1**		mg/kg dry	1	0.054	0.542	7F15009	EPA 6010B	06/19/07 15:17	JDH	

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Description:	UP - 3 - 2 '	**Lab Sample ID:**	C707709-08	**Received:**	06/13/07 09:50
Matrix:	Soil	**Sampled:**	06/12/07 12:15	**Work Order:**	C707709
Project:	White Street Landfill - ASD	**Sampled By:**	Gary Simcox		

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Fluoride [16984-48-8]	**9.5**		mg/kg dry	1	0.057	1.1	7F21009	EPA 340.2	06/22/07 10:30	AMH	
Nitrate as N [14797-55-8] *	0.0066	U	mg/L	1	0.0066	0.10	7G10019	EPA 353.2	07/10/07 16:07	AMH	
Nitrate/Nitrite as N [NA]	0.072	U	mg/kg dry	1	0.072	1.1	7G06016	EPA 353.2	07/10/07 13:27	RWH	
Nitrite as N [14797-65-0]	0.53	U	mg/kg dry	1	0.53	1.1	7G06024	EPA 354.1	06/13/07 13:00	AMH	

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Description:	UP - 3 - 2 '	**Lab Sample ID:**	C707709-08	**Received:**	06/13/07 09:50
Matrix:	Soil	**Sampled:**	06/12/07 12:15	**Work Order:**	C707709
Project:	White Street Landfill - ASD	**Sampled By:**	Gary Simcox		

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**9.1**	J	mg/kg dry wt. dry	1	0.55	11	7F14021	EPA 9056	06/15/07 21:16	RSA	J
Orthophosphate as P [1426-54-42]	0.017	U	mg/kg dry	1	0.017	0.11	7F14006	EPA 365.1	06/16/07 08:24	NS	U
Sulfate [14808-79-8]	0.3	U	mg/kg dry wt. dry	1	0.3	22.0	7F14021	EPA 9056	06/15/07 21:16	RSA	U

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

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7F15009 - EPA 3050B

Blank (7F15009-BLK1) Prepared: 06/15/2007 09:11 Analyzed: 06/19/2007 13:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**3.6**	**J**	5.0	mg/kg wet							
Antimony	0.10	U	0.50	mg/kg wet							
Arsenic	0.10	U	0.50	mg/kg wet							
Barium	0.010	U	0.500	mg/kg wet							
Beryllium	0.035	U	0.050	mg/kg wet							
Cadmium	0.025	U	0.050	mg/kg wet							
Calcium	0.35	U	5.00	mg/kg wet							
Chromium	0.10	U	0.50	mg/kg wet							
Cobalt	0.10	U	0.50	mg/kg wet							
Copper	0.030	U	0.500	mg/kg wet							
Iron	1.0	U	2.5	mg/kg wet							
Lead	0.10	U	0.50	mg/kg wet							
Magnesium	1.0	U	5.0	mg/kg wet							
Nickel	0.10	U	0.50	mg/kg wet							
Potassium	2.5	U	25.0	mg/kg wet							
Selenium	0.10	U	0.50	mg/kg wet							
Silver	0.10	U	0.50	mg/kg wet							
Sodium	10	U	25	mg/kg wet							
Thallium	0.20	U	0.50	mg/kg wet							
Vanadium	0.050	U	0.500	mg/kg wet							
Zinc	0.050	U	0.500	mg/kg wet							

LCS (7F15009-BS1) Prepared: 06/15/2007 09:11 Analyzed: 06/19/2007 13:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	520		5.0	mg/kg wet	500		104	80-120			
Antimony	25.5		0.50	mg/kg wet	25.0		102	85-116			
Arsenic	50.5		0.50	mg/kg wet	50.0		101	77-125			
Barium	58.3		0.500	mg/kg wet	50.0		117	76-124			
Beryllium	26.2		0.050	mg/kg wet	25.0		105	83-121			
Cadmium	26.6		0.050	mg/kg wet	25.0		106	76-123			
Calcium	523		5.00	mg/kg wet	500		105	89-115			
Chromium	50.9		0.50	mg/kg wet	50.0		102	81-121			
Cobalt	49.2		0.50	mg/kg wet	50.0		98	86-115			
Copper	25.9		0.500	mg/kg wet	25.0		103	81-119			
Iron	524		2.5	mg/kg wet	500		105	79-111			
Lead	47.7		0.50	mg/kg wet	50.0		95	79-127			
Magnesium	527		5.0	mg/kg wet	500		105	86-115			
Nickel	53.0		0.50	mg/kg wet	50.0		106	80-118			
Potassium	2590		25.0	mg/kg wet	2500		104	80-120			
Selenium	49.4		0.50	mg/kg wet	50.0		99	71-118			
Silver	5.02		0.50	mg/kg wet	5.00		100	78-128			
Sodium	2580		25	mg/kg wet	2500		103	86-108			
Thallium	25.0		0.50	mg/kg wet	25.0		100	86-111			
Vanadium	25.0		0.500	mg/kg wet	25.0		100	89-112			
Zinc	50.8		0.500	mg/kg wet	50.0		102	76-128			

Matrix Spike (7F15009-MS1) Prepared: 06/15/2007 09:11 Analyzed: 06/19/2007 14:19

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7F15009 - EPA 3050B

Matrix Spike (7F15009-MS1) Continued Prepared: 06/15/2007 09:11 Analyzed: 06/19/2007 14:19

Source: C707709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	27700		5.9	mg/kg dry	591	26000	300	35-172			QM-05
Antimony	15.3		0.59	mg/kg dry	29.6	0.66	50	52-147			QM-05
Arsenic	39.0		0.59	mg/kg dry	59.1	0.12 U	66	53-153			
Barium	174		0.591	mg/kg dry	59.1	114	101	46-120			
Beryllium	27.3		0.059	mg/kg dry	29.6	0.041 U	92	41-133			
Cadmium	20.3		0.059	mg/kg dry	29.6	0.030 U	69	49-115			
Calcium	1500		5.91	mg/kg dry	591	915	99	71-121			
Chromium	84.9		0.59	mg/kg dry	59.1	33.1	88	19-142			
Cobalt	74.0		0.59	mg/kg dry	59.1	26.1	81	30-143			
Copper	47.4		0.591	mg/kg dry	29.6	19.7	94	35-137			
Iron	43300		3.0	mg/kg dry	591	42900	64	48-139			QM-05
Lead	48.2		0.59	mg/kg dry	59.1	0.12 U	82	48-121			
Magnesium	11300		5.9	mg/kg dry	591	10300	168	36-149			QM-05
Nickel	61.7		0.59	mg/kg dry	59.1	8.04	91	43-121			
Potassium	3410		29.6	mg/kg dry	2960	29.9	114	70-135			
Selenium	32.1		0.59	mg/kg dry	59.1	0.12 U	54	43-126			
Silver	0.12	U	0.59	mg/kg dry	5.91	0.12 U		36-133			QM-05
Sodium	3230		30	mg/kg dry	2960	174	103	45-159			
Thallium	16.3		0.59	mg/kg dry	29.6	0.24 U	55	58-118			QM-05
Vanadium	150		0.591	mg/kg dry	29.6	123	92	31-142			
Zinc	101		0.591	mg/kg dry	59.1	49.5	88	37-138			

Matrix Spike Dup (7F15009-MSD1) Prepared: 06/15/2007 09:11 Analyzed: 06/19/2007 14:26

Source: C707709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	28600		5.9	mg/kg dry	591	26000	453	35-172	3	32	QM-05
Antimony	16.2		0.59	mg/kg dry	29.6	0.66	52	52-147	5	28	QM-05
Arsenic	39.9		0.59	mg/kg dry	59.1	0.12 U	68	53-153	2	22	
Barium	178		0.591	mg/kg dry	59.1	114	108	46-120	2	16	
Beryllium	27.4		0.059	mg/kg dry	29.6	0.041 U	93	41-133	0.3	26	
Cadmium	20.1		0.059	mg/kg dry	29.6	0.030 U	68	49-115	0.8	24	
Calcium	1470		5.91	mg/kg dry	591	915	94	71-121	2	19	
Chromium	90.9		0.59	mg/kg dry	59.1	33.1	98	19-142	7	24	
Cobalt	75.5		0.59	mg/kg dry	59.1	26.1	84	30-143	2	17	
Copper	48.5		0.591	mg/kg dry	29.6	19.7	97	35-137	2	12	
Iron	44100		3.0	mg/kg dry	591	42900	198	48-139	2	38	QM-05
Lead	48.6		0.59	mg/kg dry	59.1	0.12 U	82	48-121	0.9	26	
Magnesium	11100		5.9	mg/kg dry	591	10300	130	36-149	2	23	QM-05
Nickel	62.4		0.59	mg/kg dry	59.1	8.04	92	43-121	1	14	
Potassium	3440		29.6	mg/kg dry	2960	29.9	115	70-135	1	22	
Selenium	32.7		0.59	mg/kg dry	59.1	0.12 U	55	43-126	2	14	
Silver	0.12	U	0.59	mg/kg dry	5.91	0.12 U		36-133		20	QM-05
Sodium	3230		30	mg/kg dry	2960	174	103	45-159	0.1	21	
Thallium	16.6		0.59	mg/kg dry	29.6	0.24 U	56	58-118	2	14	QM-05
Vanadium	155		0.591	mg/kg dry	29.6	123	108	31-142	3	16	
Zinc	101		0.591	mg/kg dry	59.1	49.5	88	37-138	0.1	19	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7F15009 - EPA 3050B

Classical Chemistry Parameters - Quality Control

Batch 7F21009 - NO PREP

Blank (7F21009-BLK1) Prepared: 06/21/2007 08:33 Analyzed: 06/22/2007 10:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.10**	**J**	1.0	mg/kg wet							

LCS (7F21009-BS1) Prepared: 06/21/2007 08:33 Analyzed: 06/22/2007 10:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	50		1.0	mg/kg wet	50.0		101	80-120			

Matrix Spike (7F21009-MS1) Prepared: 06/21/2007 08:33 Analyzed: 06/22/2007 10:30

Source: C707709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	52		1.2	mg/kg dry	59.1	6.9	76	80-120			QM-07

Matrix Spike Dup (7F21009-MSD1) Prepared: 06/21/2007 08:33 Analyzed: 06/22/2007 10:30

Source: C707709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	52		1.2	mg/kg dry	59.1	6.9	76	80-120	0	25	QM-07

Batch 7G06016 - CE-81-1

Blank (7G06016-BLK1) Prepared: 07/06/2007 09:27 Analyzed: 07/10/2007 13:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.066	U	1.0	mg/kg wet							

LCS (7G06016-BS1) Prepared: 07/06/2007 09:27 Analyzed: 07/10/2007 13:14

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		101	80-120			

Matrix Spike (7G06016-MS1) Prepared: 07/06/2007 09:27 Analyzed: 07/10/2007 13:49

Source: C707709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	9.8		0.10	mg/L	25.0	0.004	39	80-120			QM-03

Matrix Spike Dup (7G06016-MSD1) Prepared: 07/06/2007 09:27 Analyzed: 07/10/2007 13:50

Source: C707709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	9.8		0.10	mg/L	25.0	0.004	39	80-120	0.4	25	QM-03

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 7G06016 - CE-81-1

Batch 7G06024 - Same

Blank (7G06024-BLK1) Prepared & Analyzed: 06/13/2007

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.049	U	0.10	mg/kg wet							

LCS (7G06024-BS1) Prepared & Analyzed: 06/13/2007

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.20		0.10	mg/kg wet				80-120			

Matrix Spike (7G06024-MS1) Prepared & Analyzed: 06/13/2007

Source: C707709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.22		0.12	mg/kg dry		0.058 U		80-120			

Matrix Spike Dup (7G06024-MSD1) Prepared & Analyzed: 06/13/2007

Source: C707709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.24		0.12	mg/kg dry		0.058 U		80-120	5	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 7F14006 - NO PREP

Blank (7F14006-BLK1) Prepared: 06/14/2007 08:55 Analyzed: 06/16/2007 08:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Orthophosphate as P	0.002	U	0.010	mg/kg wet							U

LCS (7F14006-BS1) Prepared: 06/14/2007 08:55 Analyzed: 06/16/2007 08:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Orthophosphate as P	0.094		0.010	mg/kg wet	0.100		94	0-200			

Matrix Spike (7F14006-MS1) Prepared: 06/14/2007 08:55 Analyzed: 06/16/2007 08:13

Source: C707709-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Orthophosphate as P	0.099		0.010	mg/kg dry	0.105	0.002 U	95	0-200			

Matrix Spike Dup (7F14006-MSD1) Prepared: 06/14/2007 08:55 Analyzed: 06/16/2007 08:14

Source: C707709-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 7F14006 - NO PREP

Matrix Spike Dup (7F14006-MSD1) Continued Prepared: 06/14/2007 08:55 Analyzed: 06/16/2007 08:14

Source: C707709-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Orthophosphate as P	0.11		0.010	mg/kg dry	0.105	0.002 U	101	0-200	6	200	

Batch 7F14021 - NA

Blank (7F14021-BLK1) Prepared: 06/14/2007 08:55 Analyzed: 06/15/2007 17:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	**5.6**	**J**	10	mg/kg dry wt. wet							J
Sulfate	0.3	U	20.0	mg/kg dry wt. wet							U

LCS (7F14021-BS1) Prepared: 06/14/2007 08:55 Analyzed: 06/15/2007 17:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2700		10	mg/kg dry wt. wet	2500		108	81.7-122			
Sulfate	2600		20.0	mg/kg dry wt. wet	2500		104	90-110			

Matrix Spike (7F14021-MS1) Prepared: 06/14/2007 08:55 Analyzed: 06/15/2007 18:00

Source: C707709-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2700		10	mg/kg dry wt. dry	2610	8.8	103	81.7-122			
Sulfate	2860		20.9	mg/kg dry wt. dry	2610	8.85	109	90-110			

Matrix Spike Dup (7F14021-MSD1) Prepared: 06/14/2007 08:55 Analyzed: 06/15/2007 18:18

Source: C707709-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2700		10	mg/kg dry wt. dry	2610	8.8	104	81.7-122	1	8.2	
Sulfate	2870		20.9	mg/kg dry wt. dry	2610	8.85	109	90-110	0.2	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.
QM-03	Multiple analyses indicate the percent recovery exceeds the Quality Control acceptance criteria due to a matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Page ____ of ____

Client Name: S&ME, Inc. (SM004)	Project Number: [none]
Address: 3718 Old Battleground Rd.	Project Name/Desc: White Street Landfill - ASD
City/ST/Zip: Greensboro, NC 27410	PO # / Billing Info:
Tel: (336) 288-7180 Fax: (336) 288-8980	Reporting Contact: Connel Ware
Sampler(s) Name, Affiliation (Print): GARY SIMCOX / S&ME, Inc	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: Ag,Al,Ca,Cd,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Se,Solids, Dry Weight,V,Zn; As,Ba,Be,Sb,Tl; Co; Phosphate, Ortho 365.1; 4056 NO_3 Cl, F, NO_2 6/13/07; BOD

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C707709

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Ag,Al,Ca,Cd,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Se,Solids, Dry Weight,V,Zn	As,Ba,Be,Sb,Tl	Co	Phosphate, Ortho 365.1	4056 NO_3 Cl, F, NO_2 6/13/07	BOD					Sample Comments
	ID: II-1A-2'	6/12/07	1045	G	Soil	1	X	X	X	X	X						
	ID: II-5A-2'	6/12/07	1115	G	Soil	1	X	X	X	X	X						
	ID: II-6A-2'	6/12/07	1020	G	Soil	1	X	X	X	X	X						
	ID: II-12A-2'	6/12/07	1000	G	Soil	1	X	X	X	X	X						
	ID: I-5A-2'	6/12/07	0930	G	Soil	1	X	X	X	X	X						
	ID: UP-1-2'	6/12/07	1140	G	Soil	1	X	X	X	X	X						
	ID: UP-2-2'	6/12/07	1155	G	Soil	1	X	X	X	X	X						
	ID: UP-3-2'	6/12/07	1215	G	Soil	1	X	X	X	X	X						

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time: 6-8-07	Relinquished By: [signature]	Date/Time: 6/12/07 1310	Received By:	Date/Time:
Comments: PLEASE CONTACT CHUCK IN CARY ABOUT ANALYSES		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By: J LONTHE	Date/Time: 6/13/07 950
		Cooler #'s & Temps on Receipt: 5.1°		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

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

Preservation: I-Ice H-HCl 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