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SOLID WASTE SECTION

ASSESSMENT PLAN
FOR
JANUARY 2009 LEACHATE RELEASE

LINCOLN COUNTY LANDFILL
PERMIT NO. 55-03
LINCOLNTON, NORTH CAROLINA

S&ME Project No. 1356-03-255B

Prepared for:
North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Prepared by:
S&ME, Inc.
9751 Southern Pine Blvd
Charlotte, North Carolina 28273

February 26, 2009

LETTER OF TRANSMITTAL

S&ME, Inc.
9751 Southern Pine Blvd.
Charlotte, North Carolina 28273
(704) 523-4726
Fax (704) 525-3953

S&ME

DATE 2/26/09	JOB NO. 1356-03-255B
ATTENTION Jaclynne Drummond	
RE: Lincoln County Landfill	
Assessment Plan for Jan. 2009 Release	
Phone:	
Fax:	

North Carolina Department of Environment and Natural Resources

Department of Waste Management – Solid Waste Section

1646 Mail Service Center

Raleigh, North Carolina 27699 -1646

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☒ Report ☐ Calculation ☐ CD

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1	2/26/09		**Lincoln County Landfill – Assessment Plan**
			for January 2009 Leachate Release

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REMARKS

COPY TO **File/Lincoln County**

SIGNED Courtney R. Withers
Courtney R. Withers, G.I.T.

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S&ME

Celebrating 35 Years
1973 • 2008

February 26, 2009

NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Ms. Jaclynne Drummond
Compliance Hydrogeologist

Reference: Assessment Plan
for January 2009 Leachate Release
Lincoln County Landfill, Permit No. 55-03
Lincolnton, North Carolina
S&ME Project No. 1356-03-255B

Dear Ms. Drummond:

The enclosed is an Assessment Plan for the January 2009 leachate release at the Lincoln County Landfill. This plan is in response to Action #3 requested in the Facility Compliance Audit Report dated January 21, 2009 to Lincoln County. As per your request, S&ME has prepared this assessment plan to evaluate the extent of soil, surface water, and groundwater impact on-site from the January 2009 leachate release. If you should have any questions or need additional information please contact us at (704)-523-4726.

Respectfully submitted,

S&ME, Inc.

Julie R. Petersen (CRW)
Julie R. Petersen, P.G.
Project Manager
NC Registration No. 1995

Al Quarles
Al Quarles, P.G.
Senior Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1133 GEOLOGIST AL QUARLES

cc: Nancy Rickard, Lincoln County (1 copy)
Michael Parker, NCDENR – DWQ, Mooresville Regional Office (1 copy)

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1. INTRODUCTION

Lincoln County Landfill experienced a leachate release that occurred over the weekend leading up to Monday, January 19, 2009. On the morning of January 19, 2009, Lincoln County Landfill operations personnel returned to work and discovered that leachate levels in two above ground leachate storage tanks dropped noticeably. The leachate release was from an above ground pipe which froze and burst due to a heat trace failure.

Lincoln County personnel responded immediately by stopping the leachate flow from the leachate storage tanks by closing a valve in the secondary containment area. However, leachate had left the secondary containment area through a storm water sump, which was left open, traveled through a storm water channel, and into a nearby sediment trap. Flow was observed from the sediment trap into a lowland area on-site.

On Monday, January 19, 2009, Lincoln County personnel pumped leachate from the sediment trap and the lowland area, returning it to the above ground storage tanks. Leachate was substantially removed from the sediment trap by Monday afternoon. Lincoln County personnel continued pumping from the lowland area until Wednesday, January 21, 2009, when leachate tank levels were returned to the approximate pre-release levels. It is estimated that approximately 78,000 gallons were lost from each tank, for a total of 156,000 gallons, and approximately 171,000 gallons were recovered from the sediment basin and lowlands area.

Surface water samples were collected on Monday January 19 and Tuesday January 20, 2009 from the lowlands area. At the request of the Division of Waste Management, S&ME collected additional surface water and soil samples on Friday January 23, 2009. Locations and results of the initial samples collected on-site are discussed further in Section 2.

2. INITIAL SOIL AND SURFACE WATER SAMPLES

As mentioned previously, surface water samples and soil samples were collected following the leachate release on January 19, 20, and 23, 2009. Sample locations were approximated in the field utilizing a global positioning system (GPS) and have been placed on a site aerial map included with this plan as ***Figure 1, Initial Sample Locations***.

2.1 Soil Samples

Seven (7) soil samples were collected in the areas considered to have come in contact with the leachate release. Soil samples were collected at ground surface utilizing a field cleaned trowel.

Soil samples soil-1 and soil-2 were collected in the storm water conveyance leading from the secondary containment storm water discharge to sediment trap ST-2. Soil sample soil-3 was collected within sediment trap ST-2 and soil sample soil-4 was collected from the storm water conveyance leading from sediment trap ST-2 to its discharge location on-

site. Soil samples soil-5, soil-6, and soil-7 were collected at peripheral locations of the lowland area.

Soil samples were analyzed for Appendix I volatile organics and metals, as well as nitrate-nitrite (soluble), phosphorus, sulfate (soluble), percent solids, and pH. The results of which are included in ***Table 1, Soil Analytical Results***.

2.2 Surface Water Samples

Five (5) surface water samples were collected from the lowland area that may have received water from the leachate release. One (1) surface water sample was collected up-gradient of the release, and one (1) sample was collected downstream of the landfill. Surface water samples were collected by directly dipping from the surface water body utilizing the laboratory provided containers.

Surface water sample SW-1 was collected up-gradient of the leachate release from an unnamed tributary to Indian Creek located northwest of the leachate tanks. Surface water sample SW-2 was collected from a small unnamed tributary to Indian Creek, southwest of the leachate release. Surface water sample SW-3 was collected in Indian Creek down-stream of the property at Shoal Road. Surface water samples SW-4 and SW-5, and the sample identified as "Leachate" were collected in the lowlands area where ponding of water was observed. The surface water sample identified as "Discharge" was collected in an unnamed tributary to Indian Creek south of the leachate release.

Surface water samples were analyzed for Appendix I volatile organics and metals, as well as biological oxygen demand (BOD), chemical oxygen demand (COD), nitrate-nitrite, phosphorus, sulfate, and total suspended solids (TSS). The results of which are included in ***Table 2, Surface Water Analytical Results***.

2.3 Historical Leachate Data (2007- 2008)

Historical leachate analytical data from the years 2007 and 2008 have been included in ***Table 3, Historical Leachate Data (2007 - 2008)***. This information has been included to provide some insight as to which constituents and what concentrations may have been released from the leachate tanks during the January 2009 release.

3. GPS DELINEATION OF POTENTIALLY IMPACTED AREAS

To aid in the delineation of potentially impacted areas, S&ME will visually observe the area southwest (down-gradient) of the leachate tanks and attempt to delineate the extent of ponding in the lowlands area during the leachate release. S&ME will GPS points along the periphery of the lowlands and any other features identified as surface water conveyances.

3.1 Selection of Additional Sample Locations

Following the GPS delineation of the release area, S&ME will prepare a site map which will include the GPS features delineated in the lowlands area and surface water features, as well as initial sample locations, proposed soil and surface water sample locations

(Section 4), and proposed monitoring well locations (Section 5). The site map will be submitted to the Division for approval prior to beginning sampling on-site. S&ME and Lincoln County anticipate working closely with the Division during this Assessment.

4. ADDITIONAL SOIL AND SURFACE WATER SAMPLES

S&ME will collect the following additional soil and surface water samples as part of this Assessment Plan:

4.1 Additional Soil Samples

To further evaluate potential on-site soil impact in the vicinity of the leachate release, S&ME proposes to collect an additional four (4) to five (5) surface soil samples down gradient of the spill. Locations will be selected based on the GPS delineation (Section 3) in areas most likely to have come in contact with the release.

S&ME will also collect five (5) to six (6) surface background soil samples outside the vicinity of the release to characterize the baseline concentrations of the on-site soils. S&ME will collect soil samples as close as practical to the spill areas in lithology similar to that of the soils which may have come in contact with leachate. One (1) of the background soil samples will be collected from a different sediment trap outside of the release area to characterize metals concentrations that may be typical of sediment from this area of the property.

Within sediment trap ST-2, S&ME will perform a 5-foot hand auger boring and collect soil samples at 1-foot intervals to characterize the vertical extent of leachate migration in the soil.

Soil samples will be analyzed for Appendix I volatile organics and metals, as well as nitrate-nitrite (soluble), phosphorus, sulfate (soluble), percent solids, and pH.

4.2 Surface Water Samples

Following the GPS delineation, S&ME will select eight (8) to nine (9) additional surface water samples in the ponded areas of the lowlands. The samples will be collected in any areas found during the GPS delineation that have not been previously sampled and from areas previously sampled to compare concentrations over time.

S&ME will also collect four (4) to five (5) surface water samples from Indian Creek and its tributaries. Three (3) samples will be collected along Indian Creek from up gradient and down gradient locations and one (1) to two (2) will be collected from tributaries from the lowland area found during the GPS delineation.

Surface water samples will be analyzed for Appendix I volatile organics and metals, as well as biological oxygen demand (BOD), chemical oxygen demand (COD), nitrate-nitrite, phosphorus, sulfate, and total suspended solids (TSS). Field parameters of pH, specific conductivity, and dissolved oxygen will be recorded at the time of surface water sample collection.

4.3 QA/QC

S&ME proposes a comprehensive QA/QC program, which will include duplicate samples, trip blanks, field blanks, and equipment blanks. The numbers of which will be determined once final sample locations are established. The QA/QC program will aid in identifying any possible field or laboratory contaminants during this Assessment. S&ME will submit samples to a North Carolina Certified laboratory for analysis.

5. GROUNDWATER MONITORING WELL INSTALLATION

5.1 Proposed Monitoring Well Locations

S&ME proposes installing three (3) groundwater monitoring wells between sediment trap ST-2 and Indian Creek and its tributaries: one (1) well within the release area and two (2) wells downgradient of the release area. Locations will be determined after the GPS delineation and approved by the Division prior to installation. The new monitoring wells will be incorporated into Lincoln County Landfill's Water Quality Monitoring Plan.

5.2 Well Installation Procedures

Three proposed monitoring wells will be installed utilizing an ATV drill rig with 4.25-inch hollow-stem augers. The groundwater wells will be constructed of 2-inch diameter Schedule 40 PVC casing with 15-feet of 0.010-inch machine slotted PVC screen. The sand pack will consist of #2 silica sand extending from the base of the screen to approximately 2-feet above the screen. A 2-foot bentonite seal will be placed on top of the sand pack then completed to ground surface with a neat cement grout. A typical shallow groundwater monitoring well diagram is included in this Assessment Plan as Figure 2. Well screen elevations will be determined in the field by the on-site Geologist so that the well screens bracket the groundwater table.

To complete the groundwater wells, an above grade 4-inch by 4-inch steel protective cover with a lockable cap will be sealed in the center of a 2-foot by 2-foot concrete pad. The protective cover will be identified with a permanently affixed well I.D. tag in accordance with North Carolina well regulations.

After construction is complete, the monitoring wells will be surveyed to obtain ground surface and top of casing elevations. Boring logs and well construction records will be submitted to the Division after well completion.

5.3 Well Development and Slug Testing

After installation, the proposed groundwater monitoring wells will be developed to remove clay, silt, and sand particles that may have been introduced into the formation or filter pack during installation. Development will be conducted as soon as practical after installation, but no sooner than 24 hours after completion.

In order to evaluate the hydrogeological characteristics of the subsurface materials, S&ME will perform in-situ permeability tests (slug tests) in the groundwater monitoring wells. Slug tests will be performed in the field utilizing the rising-head method, in which

water is pumped from the well and recharge is recorded with time. Data collected from slug testing will be analyzed to calculate horizontal permeability. Slug tests will be conducted as soon as practical after the wells are developed, but no sooner than 24 hours after development to allow water levels to stabilize.

5.4 Groundwater Sampling

The initial sampling event for the new groundwater monitoring wells will be scheduled to occur after development and slug testing. Subsequent groundwater sampling will be on a semi-annual basis occurring in the months of April and October during semi-annual sampling of the existing monitoring wells and surface water locations for the Facility.

Groundwater monitoring wells will be purged a minimum of three well volumes 24-hours prior to sample collection and samples collected using a disposable Teflon bailer. Groundwater samples will be analyzed for Appendix I volatile organic compounds and metals. All groundwater quality monitoring data will be compared to the North Carolina Standards, 15A NCAC 2L standards and SW GWP standards.

5.5 Soil Laboratory Testing

S&ME will perform laboratory grain size distributions with hydrometer and specific gravity tests on selected split-spoon soil samples recovered from the saturated portion of the screened interval from each newly installed groundwater monitoring well. S&ME will utilize the results of the laboratory grain size distribution with hydrometer and specific gravity tests to estimate porosity of the formation adjacent to the screened intervals of the groundwater monitoring wells.

Split-spoon soil samples collected from the saturated portion of the screened interval from each newly installed groundwater monitoring well will also be analyzed for Appendix I metals.

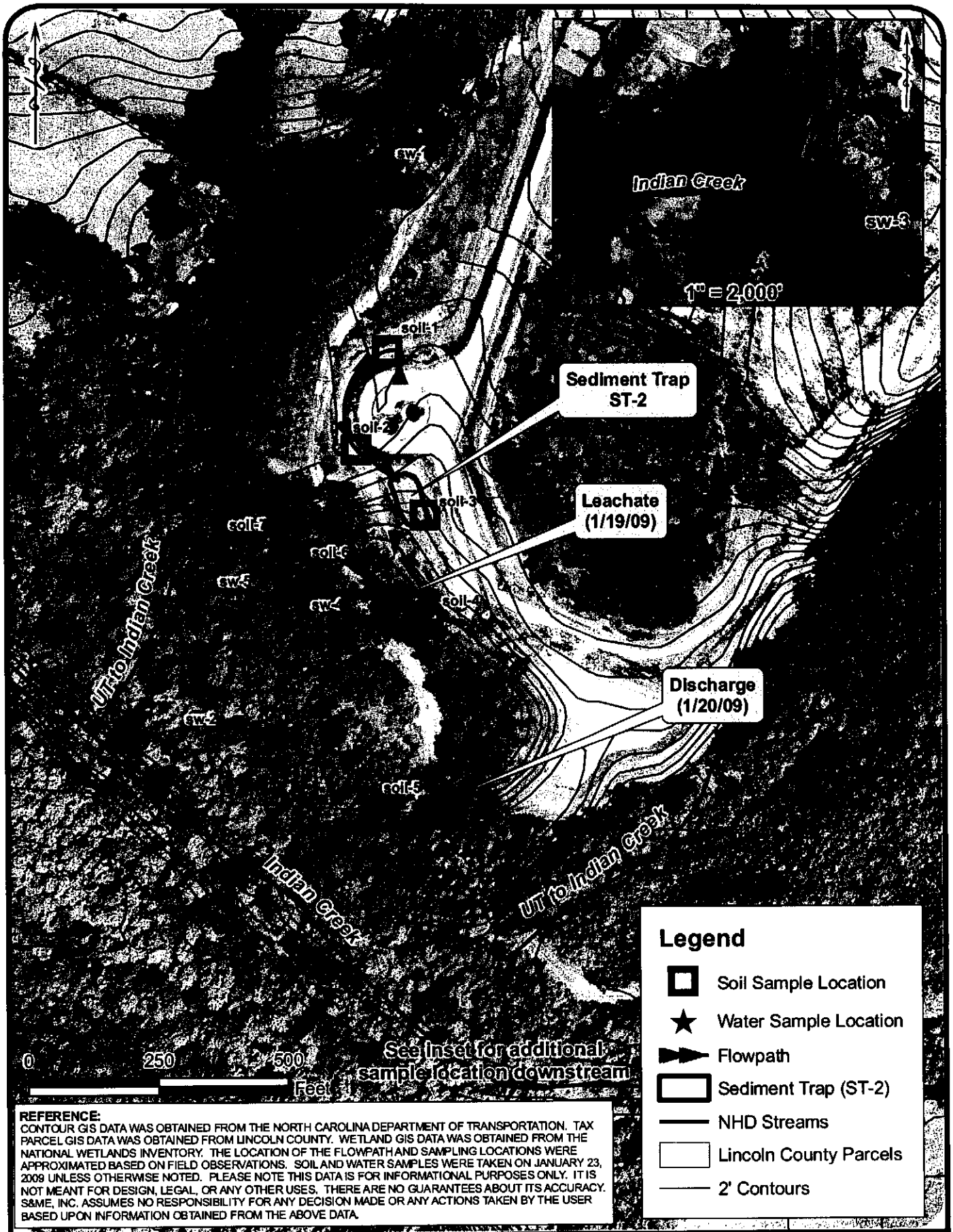
6. REPORTING

Following the GPS delineation of the release area, S&ME will prepare a site map which will include the GPS features delineated in the lowlands area and surface water features, as well as initial sample locations, proposed sample locations, and proposed monitoring well locations. The site map will be submitted to the Division for approval. Once the Division has approved the proposed additional soil and surface water sample locations and monitoring well locations, S&ME will continue with field activities.

Following field activities, S&ME will submit an Assessment report to the Division which will include the following information:

- Groundwater monitoring well construction activities;
- Boring logs, well logs, and well construction records;
- Soil classification data;
- Well sampling activities and well sampling records;
- Soil and surface water sample procedures;
- Soil, surface water and groundwater analytical data;

- Calculations of hydraulic conductivity, porosity, and groundwater flow velocity in the monitoring wells;
- Site map including GPS delineation, sample locations, and monitoring well locations;
- Groundwater Surface Map;
- Historical water level and water quality data from nearby monitoring wells; and
- Recommendations for further assessment and/or remediation on site.



REFERENCE:
CONTOUR GIS DATA WAS OBTAINED FROM THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION. TAX PARCEL GIS DATA WAS OBTAINED FROM LINCOLN COUNTY. WETLAND GIS DATA WAS OBTAINED FROM THE NATIONAL WETLANDS INVENTORY. THE LOCATION OF THE FLOWPATH AND SAMPLING LOCATIONS WERE APPROXIMATED BASED ON FIELD OBSERVATIONS. SOIL AND WATER SAMPLES WERE TAKEN ON JANUARY 23, 2009 UNLESS OTHERWISE NOTED. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

SCALE:	AS SHOWN
DATE:	02/25/09
DRAWN BY:	CXR
PROJECT NO:	1356-03-255B

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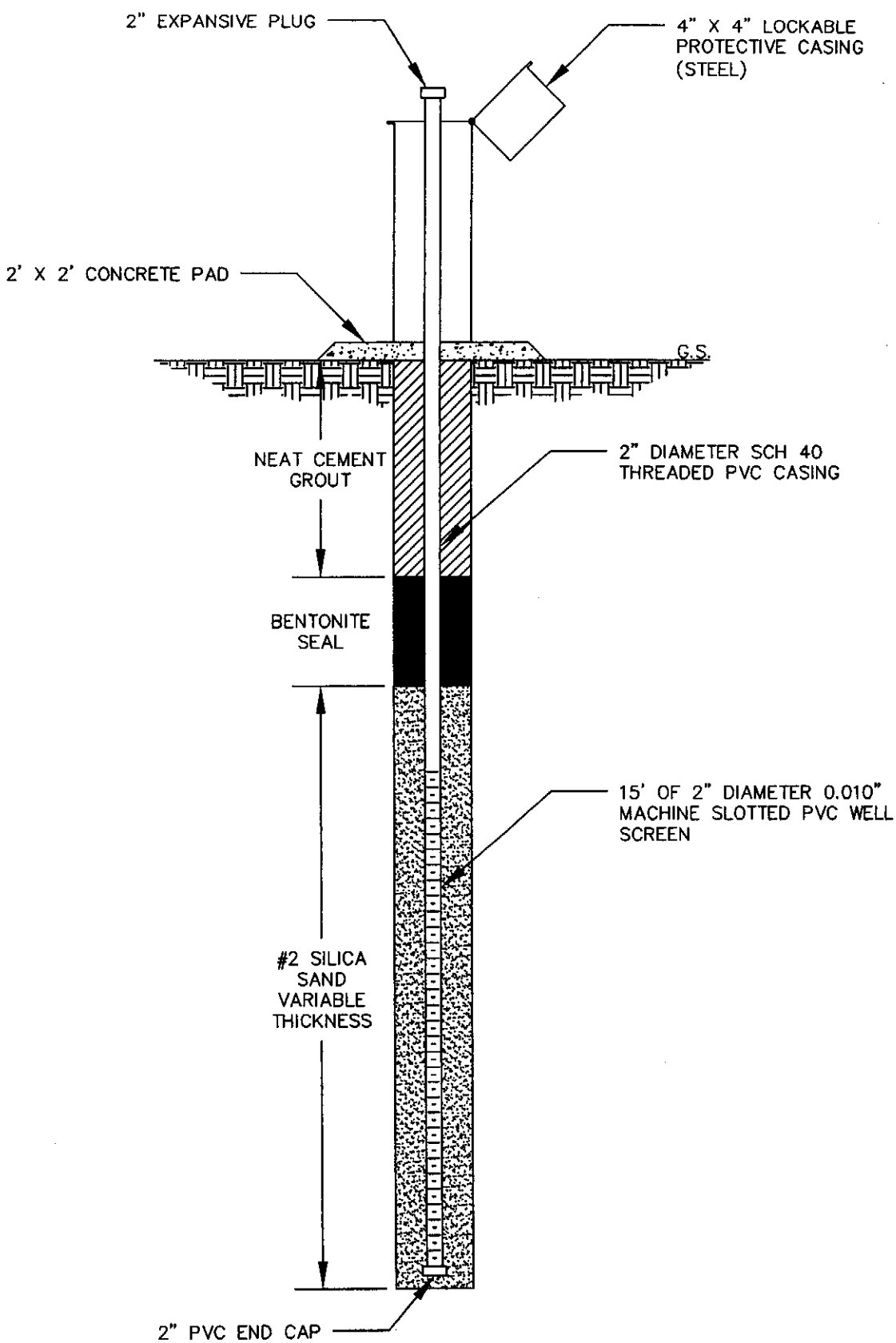
INITIAL SAMPLE LOCATIONS

LINCOLN COUNTY LANDFILL
CROUSE, NORTH CAROLINA

FIGURE NO.
1



SCALE: NTS	S&ME	TYPICAL TYPE II GROUNDWATER MONITORING WELL	FIGURE NO.
DATE: 2/20/09	WWW.SMEINC.COM	LINCOLN COUNTY LANDFILL	2
DRAWN BY: JRP		CROUSE, NORTH CAROLINA	
PROJECT NO: 1356-03-255B			

Table 1 - Soil Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

S&ME

Parameter	Units	PQL	Sample ID and Date						
			Soil - 1	Soil - 2	Soil - 3	Soil - 4	Soil - 5	Soil -6	Soil - 7
			01.23.09	01.23.09	01.23.09	01.23.09	01.23.09	01.23.09	01.23.09
Classical Chemistry Compounds									
% Solids	%	NA	76.2	77.8	62.3	61.4	71.9	46.4	75.7
Nitrate-Nitrite - N (soluble)	mg/kg	0.26	1.6	0.66	0.75	0.62	0.45	0.79	0.27
pH	su	0.0	6.31	5.83	5.42	5.51	6.01	5.71	4.60
Phosphorus	mg/kg	6.6	34	1.6	1.8	4.4	85	3.9	0.69
Sulfate (soluble)	mg/kg	13	73 B	57 B	79 B	32 B	10 BJ	18 BJ	41 B
Volatile Organic Compounds									
Acetone	µg/kg	12		55	50	5.2 J	6.5 J	38	160
2-Butanone (MEK)	µg/kg	8.6	3.4 J	65	58				9.9
Metals									
Antimony	mg/kg	0.66	0.35 J	0.23 J					
Arsenic	mg/kg	0.66	4.4	3.8	7.2	4.8	5.2	6.0	4.0
Barium	mg/kg	1.7	39	70	110	100	93	110	52
Beryllium	mg/kg	0.26	0.62	0.95	1.6	1.0	0.81	1.5	0.66
Cadmium	mg/kg	0.13	0.10 J	0.14	0.19	0.19	0.20	0.22	0.12 J
Chromium	mg/kg	0.33	31	25	26	33	48	49	39
Cobalt	mg/kg	1.7	6.4	9.3	15	8.1	7.5	9.3	5.4
Copper	mg/kg	0.33	11	13	22	16	16	18	11
Lead	mg/kg	0.66	13	14	22	19	16	22	21
Nickel	mg/kg	2.6	8.7	11	18	15	19	21	15
Vanadium	mg/kg	3.3	64	59	69	63	61	78	57
Zinc	mg/kg	3.3	28	32	72	48	69	50	27

Notes:
(1) % = percent
(2) mg/kg = milligrams per kilogram
(3) ug/kg = micrograms per kilogram
(4) PQL = Practical Quanitation Limit
(5) su = standard unit
(6) NA = not applicable
(7) B = constituent detected in method blank
(8) J = estimated result detected between MDL and PQL
(9) Blank cells indicate non detections

Table 2 - Surface Water Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

S&ME

Parameter	Units	PQL	Surface Water Standard*	Sample ID and Date						
				Leachate 01.19.09	Discharge 01.20.09	SW-1 01.23.09	SW-2 01.23.09	SW-3 01.23.09	SW-4 01.23.09	SW-5 01.23.09
Classical Chemistry Compounds										
BOD, 5 day	mg/L	2.0	NS	>100	5.0				3.9	2.4
COD	mg/L	10	NS	450	57				12	12
Nitrate-Nitrite - N	mg/L	0.020	NS	0.13	0.095	0.37	0.11	0.87	0.29	0.058
Phosphorus	mg/L	0.010	NS	0.43	0.10 B		0.031	0.040	0.10	0.38
Sulfate	mg/L	1.0	NS	15 B	5.2	2.4	7.4	4.7	3.2	5.0
TSS	mg/L	3.3		16	8.3	2.6	6.4	6.2	610	260
Volatile Organic Compounds										
Acetone	µg/L	20	NS	65						
2-Butanone (MEK)	µg/L	10	NS	260	4.9 J					
2-Hexanone	µg/L	10	NS	0.63 J						
4-Methyl-2-pentanone	µg/L	10	NS	2.3 J						
Methylene chloride	µg/L	1.0	NS	0.66 J						
Toluene	µg/L	1.0	11	0.61 J						
Metals										
Antimony	µg/L	1.00	NS	1.50		1.13				
Arsenic	µg/L	1.00	50	2.12	0.803 J		0.270 J			
Barium	µg/L	5.00	NS	339	37.1	19.4 B	48.2 B	22.1 B	22.7 B	52.6 B
Beryllium	µg/L	0.400	6.5	0.0840 J	0.0280 J		0.0480 J		0.0320 J	0.175 J
Cadmium	µg/L	0.100	2	0.458						
Chromium	µg/L	5.00	50	9.55	0.995 J					2.35 J
Cobalt	µg/L	5.00	NS	9.86	2.90 J	0.302 J	2.23 J	0.702 J	1.13 J	6.30
Copper	µg/L	1.00	7	4.20	3.37	0.245 J	1.51	1.17	1.62	3.19
Lead	µg/L	1.00	25	2.45	1.09	0.0840 J	0.558 J	0.0770 J	0.796 J	3.30
Nickel	µg/L	5.00	88	10.2	2.16 J		0.889 J	0.643 J	0.609 J	1.77 J
Selenium	µg/L	1.00	5			0.599 J	0.391 J			
Silver	µg/L	1.00	0.06	0.242 J						
Thallium	µg/L	0.500	NS	0.279 J						0.0960
Vanadium	µg/L	5.00	NS	4.94 J	4.30 J		2.22 J		2.88 J	8.74
Zinc	µg/L	10.0	50	148	54.4		8.10 BJ	4.11 BJ	7.45 BJ	11.2 B

Notes:
(1) mg/L = milligrams per liter
(2) µg/L = micrograms per liter
(3) PQL = Practical Quantitation Limit
(4) NS = No Standard
(5) Blank cells indicate non detections
(6) * = 15A NCAC 2B Standard for Freshwater Aquatic Life
(7) B = constituent detected in method blank
(8) J = estimated result detected between MDL and PQL

Table 3 - Historical Leachate Data (2007 to 2008)

January 2009 Leachate Release
Lincoln County Landfill

S&ME

Parameter	Units	Sample ID and Date			
		Lift Station Apr-07	Lift Station Oct-08	Lift Station Apr-08	Lift Station Oct-08
Classical Chemistry Compounds					
BOD	mg/L	110	26	48	48
COD	mg/L	600	600	430	630
Sulfate	mg/L	2.7	25	2	5.3
Sulfate as SO4	mg/L	3.1			
Phosphorous	mg/L	2.5	6	0.48	25
Nitrate as N	mg/L	0.055	0.12		
Nitrate/Nitrite as N	mg/L	0.055	0.13		
Total Alkalinity	mg/L	1600	1600		960
Total Suspended Solids	mg/L	46	320	90	15000
Volatile Organic Compounds					
1,1-Dichloroethane	µg/L	7		0.91	
1,1,1-Trichloroethane	µg/L	4.2			
1,2-Dichloroethane	µg/L	12		2.7	
1,4-Dichlorobenzene	µg/L			1.6	0.71
2-Butanone	µg/L	420			
4-Methyl-2-pentanone	µg/L	25	3.1	3.4	2
cis-1,2,-Dichloroethene	µg/L	4		1.2	
trans-1,3-Dichloropropene	µg/L		1.8		
Acetone	µg/L	180	38	27	17
Ethylbenzene	µg/L	11			
Xylenes (total)	µg/L	33			0.4
Methylene chloride	µg/L	5.4	9.8		
Styrene	µg/L	2.6			
Tetrachloroethene	µg/L	9			
Toluene	µg/L	110			
Trichlorofluoromethane	µg/L	1.9			
Metals					
Antimony	µg/L	0.84		0.77	
Arsenic	µg/L	34	28.3	29	16.7
Barium	µg/L	770	389	380	1530
Chromium				6.2	122
Cobalt	µg/L	16.3	19.5	13	91.3
Copper				1	
Lead	µg/L	3	19.9		68.4
Nickel	µg/L	26.1	55.3	30	108
Selenium				8.8	
Thallium	µg/L		0.278		1.95
Vanadium	µg/L		26.7		200
Zinc	µg/L	4.3	505	34	139

Notes:
(1) mg/L = milligrams per liter
(2) ug/L = micrograms per liter
(3) Blank cells indicate non detections

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

S&ME, Inc.
9751 Southern Pine Blvd
Charlotte, NC 28273
Attention: Courtney Withers

Project Name: **Lincoln County Landfill**

Project Number: **1356-03-255B**

Lot Number: **KA21052**

Date Completed: **01/27/2009**

Michael Casalena
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • • •

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
S&ME, Inc.
Lot Number: KA21052

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Discharge	Aqueous	01/20/2009 1545	01/21/2009
002	Trip Blank	Aqueous	01/21/2009 1520	01/21/2009

(2 samples)

Inorganic non-metals

Client: **S&ME, Inc.**
Description: **Discharge**
Date Sampled: **01/20/2009 1545**
Date Received: **01/21/2009**

Laboratory ID: **KA21052-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/27/2009 1130	TNH	01/22/2009 0838	4828
1		(COD) SM 5220D	1	01/22/2009 1230	WD	01/22/2009 0900	
1		(Nitrate-Nitr) 353.2	1	01/22/2009 1423	MML		93912
1		(Phosphorus) 365.1	1	01/27/2009 1056	SLH	01/22/2009 1700	93831
1		(Sulfate) 300.0	1	01/27/2009 1527	DAS		94113
1		(TSS) SM 2540D	1	01/22/2009 1134	HCB		93813

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		**SM 5210B**	**5.0**		**2.0**	**0.18**	**mg/L**	**1**
COD		**SM 5220D**	**57**		**10**	**5.7**	**mg/L**	**1**
Nitrate-Nitrite - N		**353.2**	**0.095**		**0.020**	**0.0013**	**mg/L**	**1**
Phosphorus	**7723-14-0**	**365.1**	**0.10**	**B**	**0.010**	**0.0048**	**mg/L**	**1**
Sulfate		**300.0**	**5.2**		**1.0**	**0.13**	**mg/L**	**1**
TSS		**SM 2540D**	**8.3**		**3.3**	**0.34**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Discharge**
Date Sampled: **01/20/2009 1545**
Date Received: **01/21/2009**

Laboratory ID: **KA21052-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/22/2009 1217	DLB		93833

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Trip Blank**
Date Sampled: **01/21/2009 1520**
Date Received: **01/21/2009**

Laboratory ID: **KA21052-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/22/2009 1243	DLB		93833

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

QC Summary

Inorganic non-metals - LCS

Sample ID: KQ93813-002 **Matrix:** Aqueous
Batch: 93813
Analytical Method: SM 2540D

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TSS	500	480		1	96	90-110	01/22/2009 1134

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: KQ93831-002 **Matrix:** Aqueous
Batch: 93831 **Prep Method:** 365.1
Analytical Method: 365.1 **Prep Date:** 01/22/2009 1700

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Phosphorus	0.25	0.25		1	99	90-110	01/26/2009 1200

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: KQ93912-001
Batch: 93912
Analytical Method: 353.2

Matrix: Aqueous

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Nitrate-Nitrite - N	ND		1	0.020	0.0013	mg/L	01/22/2009 1343

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCSD

Sample ID: KQ93912-003 **Matrix:** Aqueous
Batch: 93912
Analytical Method: 353.2

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Nitrate-Nitrite - N	0.80	0.84		1	105	0.83	90-110	20	01/22/2009 1345

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: KQ94113-002
Batch: 94113
Analytical Method: 300.0
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Sulfate	20	21		1	103	90-110	01/27/2009 0844

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: KQ93833-001
Batch: 93833
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	01/22/2009 1113
Acrylonitrile	ND		1	20	1.2	ug/L	01/22/2009 1113
Benzene	ND		1	1.0	0.13	ug/L	01/22/2009 1113
Bromochloromethane	ND		1	1.0	0.16	ug/L	01/22/2009 1113
Bromodichloromethane	ND		1	1.0	0.33	ug/L	01/22/2009 1113
Bromoform	ND		1	1.0	0.66	ug/L	01/22/2009 1113
Bromomethane (Methyl bromide)	ND		1	2.0	0.81	ug/L	01/22/2009 1113
2-Butanone (MEK)	ND		1	10	2.0	ug/L	01/22/2009 1113
Carbon disulfide	ND		1	1.0	0.097	ug/L	01/22/2009 1113
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	01/22/2009 1113
Chlorobenzene	ND		1	1.0	0.33	ug/L	01/22/2009 1113
Chloroethane	ND		1	2.0	0.47	ug/L	01/22/2009 1113
Chloroform	ND		1	1.0	0.33	ug/L	01/22/2009 1113
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	01/22/2009 1113
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.60	ug/L	01/22/2009 1113
Dibromochloromethane	ND		1	1.0	0.33	ug/L	01/22/2009 1113
1,2-Dibromoethane (EDB)	ND		1	1.0	0.30	ug/L	01/22/2009 1113
Dibromomethane (Methylene bromide)	ND		1	1.0	0.35	ug/L	01/22/2009 1113
trans-1,4-Dichloro-2-butene	ND		1	2.0	0.83	ug/L	01/22/2009 1113
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	01/22/2009 1113
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	01/22/2009 1113
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	01/22/2009 1113
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	01/22/2009 1113
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	01/22/2009 1113
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	01/22/2009 1113
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	01/22/2009 1113
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	01/22/2009 1113
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	01/22/2009 1113
trans-1,3-Dichloropropene	ND		1	1.0	0.10	ug/L	01/22/2009 1113
Ethylbenzene	ND		1	1.0	0.33	ug/L	01/22/2009 1113
2-Hexanone	ND		1	10	0.27	ug/L	01/22/2009 1113
Methyl iodide (Iodomethane)	ND		1	5.0	1.2	ug/L	01/22/2009 1113
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	01/22/2009 1113
Methylene chloride	ND		1	1.0	0.33	ug/L	01/22/2009 1113
Styrene	ND		1	1.0	0.12	ug/L	01/22/2009 1113
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.20	ug/L	01/22/2009 1113
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	01/22/2009 1113
Tetrachloroethene	ND		1	1.0	0.13	ug/L	01/22/2009 1113
Toluene	ND		1	1.0	0.33	ug/L	01/22/2009 1113
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	01/22/2009 1113
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	01/22/2009 1113
Trichloroethene	ND		1	1.0	0.18	ug/L	01/22/2009 1113
Trichlorofluoromethane	ND		1	1.0	0.30	ug/L	01/22/2009 1113
1,2,3-Trichloropropane	ND		1	1.0	0.33	ug/L	01/22/2009 1113

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+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: KQ93833-002 **Matrix:** Aqueous
Batch: 93833 **Prep Method:** 5030B
Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	114	46-153	01/22/2009 1009
Acrylonitrile	100	110		1	112	70-122	01/22/2009 1009
Benzene	50	51		1	101	72-127	01/22/2009 1009
Bromochloromethane	50	51		1	102	70-130	01/22/2009 1009
Bromodichloromethane	50	51		1	102	71-143	01/22/2009 1009
Bromoform	50	52		1	104	65-131	01/22/2009 1009
Bromomethane (Methyl bromide)	50	52		1	103	36-168	01/22/2009 1009
2-Butanone (MEK)	100	100		1	105	60-140	01/22/2009 1009
Carbon disulfide	50	59		1	118	60-140	01/22/2009 1009
Carbon tetrachloride	50	48		1	97	37-166	01/22/2009 1009
Chlorobenzene	50	50		1	99	78-129	01/22/2009 1009
Chloroethane	50	52		1	105	42-163	01/22/2009 1009
Chloroform	50	46		1	93	63-123	01/22/2009 1009
Chloromethane (Methyl chloride)	50	57		1	113	20-158	01/22/2009 1009
1,2-Dibromo-3-chloropropane (DBCP)	50	48		1	97	70-130	01/22/2009 1009
Dibromochloromethane	50	49		1	99	74-134	01/22/2009 1009
1,2-Dibromoethane (EDB)	50	50		1	100	70-130	01/22/2009 1009
Dibromomethane (Methylene bromide)	50	49		1	98	70-130	01/22/2009 1009
trans-1,4-Dichloro-2-butene	50	49		1	99	70-130	01/22/2009 1009
1,4-Dichlorobenzene	50	48		1	96	70-130	01/22/2009 1009
1,2-Dichlorobenzene	50	49		1	98	70-130	01/22/2009 1009
1,1-Dichloroethane	50	51		1	102	69-132	01/22/2009 1009
1,2-Dichloroethane	50	47		1	95	59-143	01/22/2009 1009
1,1-Dichloroethene	50	51		1	102	50-132	01/22/2009 1009
trans-1,2-Dichloroethene	50	51		1	102	67-141	01/22/2009 1009
cis-1,2-Dichloroethene	50	52		1	103	70-130	01/22/2009 1009
1,2-Dichloropropane	50	51		1	102	71-126	01/22/2009 1009
cis-1,3-Dichloropropene	50	53		1	106	69-130	01/22/2009 1009
trans-1,3-Dichloropropene	50	52		1	103	73-131	01/22/2009 1009
Ethylbenzene	50	50		1	101	79-132	01/22/2009 1009
2-Hexanone	100	100		1	105	60-140	01/22/2009 1009
Methyl iodide (Iodomethane)	50	55		1	109	70-130	01/22/2009 1009
4-Methyl-2-pentanone	100	110		1	107	60-140	01/22/2009 1009
Methylene chloride	50	49		1	98	69-129	01/22/2009 1009
Styrene	50	52		1	103	70-130	01/22/2009 1009
1,1,1,2-Tetrachloroethane	50	48		1	97	70-130	01/22/2009 1009
1,1,2,2-Tetrachloroethane	50	50		1	101	60-155	01/22/2009 1009
Tetrachloroethene	50	49		1	98	70-130	01/22/2009 1009
Toluene	50	51		1	103	75-125	01/22/2009 1009
1,1,2-Trichloroethane	50	50		1	100	77-132	01/22/2009 1009
1,1,1-Trichloroethane	50	47		1	94	77-132	01/22/2009 1009
Trichloroethene	50	50		1	99	73-124	01/22/2009 1009
Trichlorofluoromethane	50	51		1	102	41-173	01/22/2009 1009
1,2,3-Trichloropropane	50	49		1	98	70-130	01/22/2009 1009

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N - Recovery is out of criteria
+ - RPD is out of criteria

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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: KQ93833-003
Batch: 93833
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	100		1	101	12	46-153	20	01/22/2009 1030
Acrylonitrile	100	110		1	106	5.1	70-122	20	01/22/2009 1030
Benzene	50	51		1	101	0.032	72-127	20	01/22/2009 1030
Bromochloromethane	50	50		1	100	2.5	70-130	20	01/22/2009 1030
Bromodichloromethane	50	50		1	100	1.5	71-143	20	01/22/2009 1030
Bromoform	50	51		1	102	1.3	65-131	20	01/22/2009 1030
Bromomethane (Methyl bromide)	50	51		1	102	1.4	36-168	20	01/22/2009 1030
2-Butanone (MEK)	100	95		1	95	10	60-140	20	01/22/2009 1030
Carbon disulfide	50	57		1	115	2.7	60-140	20	01/22/2009 1030
Carbon tetrachloride	50	49		1	97	0.27	37-166	20	01/22/2009 1030
Chlorobenzene	50	50		1	101	1.6	78-129	20	01/22/2009 1030
Chloroethane	50	51		1	103	1.8	42-163	20	01/22/2009 1030
Chloroform	50	46		1	93	0.10	63-123	20	01/22/2009 1030
Chloromethane (Methyl chloride)	50	50		1	100	12	20-158	20	01/22/2009 1030
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	92	5.1	70-130	20	01/22/2009 1030
Dibromochloromethane	50	50		1	99	0.50	74-134	20	01/22/2009 1030
1,2-Dibromoethane (EDB)	50	50		1	100	0.62	70-130	20	01/22/2009 1030
Dibromomethane (Methylene bromide)	50	49		1	98	0.10	70-130	20	01/22/2009 1030
trans-1,4-Dichloro-2-butene	50	48		1	96	3.4	70-130	20	01/22/2009 1030
1,4-Dichlorobenzene	50	47		1	94	1.8	70-130	20	01/22/2009 1030
1,2-Dichlorobenzene	50	49		1	98	0.50	70-130	20	01/22/2009 1030
1,1-Dichloroethane	50	50		1	101	0.78	69-132	20	01/22/2009 1030
1,2-Dichloroethane	50	47		1	94	1.1	59-143	20	01/22/2009 1030
1,1-Dichloroethene	50	50		1	100	2.3	50-132	20	01/22/2009 1030
trans-1,2-Dichloroethene	50	51		1	102	0.24	67-141	20	01/22/2009 1030
cis-1,2-Dichloroethene	50	50		1	101	2.5	70-130	20	01/22/2009 1030
1,2-Dichloropropane	50	51		1	102	0.18	71-126	20	01/22/2009 1030
cis-1,3-Dichloropropene	50	53		1	106	0.44	69-130	20	01/22/2009 1030
trans-1,3-Dichloropropene	50	52		1	104	1.5	73-131	20	01/22/2009 1030
Ethylbenzene	50	52		1	103	2.6	79-132	20	01/22/2009 1030
2-Hexanone	100	100		1	101	3.8	60-140	20	01/22/2009 1030
Methyl iodide (Iodomethane)	50	56		1	113	3.3	70-130	20	01/22/2009 1030
4-Methyl-2-pentanone	100	100		1	104	2.5	60-140	20	01/22/2009 1030
Methylene chloride	50	48		1	97	1.2	69-129	20	01/22/2009 1030
Styrene	50	52		1	104	0.82	70-130	20	01/22/2009 1030
1,1,1,2-Tetrachloroethane	50	50		1	99	2.2	70-130	20	01/22/2009 1030
1,1,2,2-Tetrachloroethane	50	50		1	101	0.11	60-155	20	01/22/2009 1030
Tetrachloroethene	50	49		1	98	0.70	70-130	20	01/22/2009 1030
Toluene	50	51		1	102	0.46	75-125	20	01/22/2009 1030
1,1,2-Trichloroethane	50	49		1	98	1.5	77-132	20	01/22/2009 1030
1,1,1-Trichloroethane	50	48		1	96	2.0	77-132	20	01/22/2009 1030
Trichloroethene	50	50		1	100	0.55	73-124	20	01/22/2009 1030
Trichlorofluoromethane	50	50		1	101	0.62	41-173	20	01/22/2009 1030
1,2,3-Trichloropropane	50	48		1	95	3.0	70-130	20	01/22/2009 1030

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - MB

Sample ID: KQ93839-001
Batch: 93839
Analytical Method: 6020A

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 01/22/2009 1540

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Antimony	ND		1	1.00	0.0970	ug/L	01/27/2009 1218
Arsenic	ND		1	1.00	0.261	ug/L	01/26/2009 1850
Barium	ND		1	5.00	0.0450	ug/L	01/26/2009 1850
Beryllium	ND		1	0.400	0.0280	ug/L	01/26/2009 1850
Cadmium	ND		1	0.100	0.0590	ug/L	01/26/2009 1850
Chromium	ND		1	5.00	0.346	ug/L	01/26/2009 1850
Cobalt	ND		1	5.00	0.0290	ug/L	01/26/2009 1850
Copper	ND		1	1.00	0.148	ug/L	01/26/2009 1850
Lead	ND		1	1.00	0.0470	ug/L	01/26/2009 1850
Nickel	ND		1	5.00	0.277	ug/L	01/26/2009 1850
Selenium	ND		1	1.00	0.253	ug/L	01/26/2009 1850
Silver	ND		1	1.00	0.0110	ug/L	01/26/2009 1850
Thallium	ND		1	0.500	0.0760	ug/L	01/26/2009 1850
Vanadium	ND		1	5.00	1.46	ug/L	01/26/2009 1850
Zinc	ND		1	10.0	1.45	ug/L	01/26/2009 1850

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - LCSD

Sample ID: KQ93839-003
Batch: 93839
Analytical Method: 6020A

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 01/22/2009 1540

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Antimony	100	92.5		1	92	3.0	80-120	20	01/27/2009 1238
Arsenic	100	93.3		1	93	0.13	80-120	20	01/26/2009 1908
Barium	100	92.6		1	93	0.46	80-120	20	01/26/2009 1908
Beryllium	100	95.1		1	95	0.54	80-120	20	01/26/2009 1908
Cadmium	100	94.6		1	95	0.30	80-120	20	01/26/2009 1908
Chromium	100	90.1		1	90	0.19	80-120	20	01/26/2009 1908
Cobalt	100	90.9		1	91	0.28	80-120	20	01/26/2009 1908
Copper	100	92.6		1	92	0.84	80-120	20	01/26/2009 1908
Lead	100	86.3		1	86	0.54	80-120	20	01/26/2009 1908
Nickel	100	92.5		1	92	0.022	80-120	20	01/26/2009 1908
Selenium	100	99.4		1	99	0.43	80-120	20	01/26/2009 1908
Silver	100	93.3		1	93	0.44	80-120	20	01/26/2009 1908
Thallium	100	90.2		1	90	0.022	80-120	20	01/26/2009 1908
Vanadium	100	93.0		1	93	0.043	80-120	20	01/26/2009 1908
Zinc	100	99.2		1	99	0.13	80-120	20	01/26/2009 1908

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: SAME Cooler Inspected by/date: ECC 11/21/09 Lot #: KA21652

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 3.2 °C / °C / °C / °C / °C / °C / °C / °C

Method: ☑ Temperature Blank ☐ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☑	No ☐	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☑	No ☐	NA ☐	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: Trip blank not listed on COC
- SAM 11/21/09

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

S&ME, Inc.
9751 Southern Pine Blvd
Charlotte, NC 28273
Attention: Courtney Withers

Project Name: **Lincoln County Landfill**

Project Number: **1356-03-255B**

Lot Number: **KA20053**

Date Completed: **01/27/2009**

Michael Casalena
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

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SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
S&ME, Inc.
Lot Number: KA20053

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Leachate	Aqueous	01/19/2009 1800	01/20/2009
002	Trip Blank	Aqueous	01/20/2009 1715	01/20/2009

(2 samples)

Inorganic non-metals

Client: **S&ME, Inc.**
Description: **Leachate**
Date Sampled: **01/19/2009 1800**
Date Received: **01/20/2009**

Laboratory ID: **KA20053-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/26/2009 1036	SEB	01/21/2009 0950	4826
1		(COD) SM 5220D	1	01/21/2009 1630	WD	01/21/2009 1330	
1		(Nitrate-Nitr) 353.2	1	01/21/2009 1408	MML		93785
1		(Phosphorus) 365.1	1	01/23/2009 1933	SLH	01/22/2009 1010	93827
1		(Sulfate) 300.0	1	01/22/2009 2244	DAS		93876
1		(TSS) SM 2540D	1	01/22/2009 1134	HCB		93813

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		**SM 5210B**	**>100**	**5**	**2.0**	**0.18**	**mg/L**	**1**
COD		**SM 5220D**	**450**		**10**	**5.7**	**mg/L**	**1**
Nitrate-Nitrite - N		**353.2**	**0.13**		**0.020**	**0.0013**	**mg/L**	**1**
Phosphorus	**7723-14-0**	**365.1**	**0.43**		**0.010**	**0.0048**	**mg/L**	**1**
Sulfate		**300.0**	**15**	**B**	**1.0**	**0.13**	**mg/L**	**1**
TSS		**SM 2540D**	**16**		**3.3**	**0.34**	**mg/L**	**1**

Footnote(s): 5-Final D.O. < 1.00 mg/L

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Leachate**
Date Sampled: **01/19/2009 1800**
Date Received: **01/20/2009**

Laboratory ID: **KA20053-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/21/2009 1845	DLB		93786

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		99	70-130

Footnote(s): 5-Final D.O. < 1.00 mg/L

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Trip Blank**
Date Sampled: **01/20/2009 1715**
Date Received: **01/20/2009**

Laboratory ID: **KA20053-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/21/2009 1824	DLB		93786

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	**75-15-0**	**8260B**	**0.19**	**J**	**1.0**	**0.097**	**ug/L**	**1**
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

QC Summary

Inorganic non-metals - LCS

Sample ID: KQ93785-002
Batch: 93785
Analytical Method: 353.2

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Nitrate-Nitrite - N	0.80	0.82		1	102	90-110	01/21/2009 1332

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: KQ93813-001
Batch: 93813
Analytical Method: SM 2540D

Matrix: Aqueous

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
TSS	ND		1	1.0	0.34	mg/L	01/22/2009 1134

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: KQ93827-001
Batch: 93827
Analytical Method: 365.1

Matrix: Aqueous
Prep Method: 365.1
Prep Date: 01/22/2009 1010

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Phosphorus	ND		1	0.010	0.0048	mg/L	01/23/2009 1759

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCSD

Sample ID: KQ93827-003
Batch: 93827
Analytical Method: 365.1

Matrix: Aqueous
Prep Method: 365.1
Prep Date: 01/22/2009 1010

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Phosphorus	0.25	0.25		1	101	2.4	90-110	20	01/23/2009 1759

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: KQ93876-002
Batch: 93876
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Sulfate	20	20		1	100	90-110	01/22/2009 2159

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: KQ93786-001
Batch: 93786
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acetone	ND		1	20	6.7	ug/L	01/21/2009 1748
Acrylonitrile	ND		1	20	1.2	ug/L	01/21/2009 1748
Benzene	ND		1	1.0	0.13	ug/L	01/21/2009 1748
Bromochloromethane	ND		1	1.0	0.16	ug/L	01/21/2009 1748
Bromodichloromethane	ND		1	1.0	0.33	ug/L	01/21/2009 1748
Bromoform	ND		1	1.0	0.66	ug/L	01/21/2009 1748
Bromomethane (Methyl bromide)	ND		1	2.0	0.81	ug/L	01/21/2009 1748
2-Butanone (MEK)	ND		1	10	2.0	ug/L	01/21/2009 1748
Carbon disulfide	ND		1	1.0	0.097	ug/L	01/21/2009 1748
Carbon tetrachloride	ND		1	1.0	0.14	ug/L	01/21/2009 1748
Chlorobenzene	ND		1	1.0	0.33	ug/L	01/21/2009 1748
Chloroethane	ND		1	2.0	0.47	ug/L	01/21/2009 1748
Chloroform	ND		1	1.0	0.33	ug/L	01/21/2009 1748
Chloromethane (Methyl chloride)	ND		1	1.0	0.35	ug/L	01/21/2009 1748
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.60	ug/L	01/21/2009 1748
Dibromochloromethane	ND		1	1.0	0.33	ug/L	01/21/2009 1748
1,2-Dibromoethane (EDB)	ND		1	1.0	0.30	ug/L	01/21/2009 1748
Dibromomethane (Methylene bromide)	ND		1	1.0	0.35	ug/L	01/21/2009 1748
trans-1,4-Dichloro-2-butene	ND		1	2.0	0.83	ug/L	01/21/2009 1748
1,4-Dichlorobenzene	ND		1	1.0	0.33	ug/L	01/21/2009 1748
1,2-Dichlorobenzene	ND		1	1.0	0.33	ug/L	01/21/2009 1748
1,1-Dichloroethane	ND		1	1.0	0.13	ug/L	01/21/2009 1748
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	01/21/2009 1748
cis-1,2-Dichloroethene	ND		1	1.0	0.12	ug/L	01/21/2009 1748
1,1-Dichloroethene	ND		1	1.0	0.16	ug/L	01/21/2009 1748
trans-1,2-Dichloroethene	ND		1	1.0	0.21	ug/L	01/21/2009 1748
1,2-Dichloropropane	ND		1	1.0	0.19	ug/L	01/21/2009 1748
trans-1,3-Dichloropropene	ND		1	1.0	0.10	ug/L	01/21/2009 1748
cis-1,3-Dichloropropene	ND		1	1.0	0.092	ug/L	01/21/2009 1748
Ethylbenzene	ND		1	1.0	0.33	ug/L	01/21/2009 1748
2-Hexanone	ND		1	10	0.27	ug/L	01/21/2009 1748
Methyl iodide (Iodomethane)	ND		1	5.0	1.2	ug/L	01/21/2009 1748
4-Methyl-2-pentanone	ND		1	10	0.31	ug/L	01/21/2009 1748
Methylene chloride	ND		1	1.0	0.33	ug/L	01/21/2009 1748
Styrene	ND		1	1.0	0.12	ug/L	01/21/2009 1748
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.20	ug/L	01/21/2009 1748
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.16	ug/L	01/21/2009 1748
Tetrachloroethene	ND		1	1.0	0.13	ug/L	01/21/2009 1748
Toluene	ND		1	1.0	0.33	ug/L	01/21/2009 1748
1,1,1-Trichloroethane	ND		1	1.0	0.074	ug/L	01/21/2009 1748
1,1,2-Trichloroethane	ND		1	1.0	0.21	ug/L	01/21/2009 1748
Trichloroethene	ND		1	1.0	0.18	ug/L	01/21/2009 1748
Trichlorofluoromethane	ND		1	1.0	0.30	ug/L	01/21/2009 1748
1,2,3-Trichloropropane	ND		1	1.0	0.33	ug/L	01/21/2009 1748

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: KQ93786-002
Batch: 93786
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	120		1	116	46-153	01/21/2009 1643
Acrylonitrile	100	110		1	110	70-122	01/21/2009 1643
Benzene	50	50		1	99	72-127	01/21/2009 1643
Bromochloromethane	50	49		1	97	70-130	01/21/2009 1643
Bromodichloromethane	50	50		1	99	71-143	01/21/2009 1643
Bromoform	50	52		1	104	65-131	01/21/2009 1643
Bromomethane (Methyl bromide)	50	50		1	101	36-168	01/21/2009 1643
2-Butanone (MEK)	100	100		1	105	60-140	01/21/2009 1643
Carbon disulfide	50	58		1	116	60-140	01/21/2009 1643
Carbon tetrachloride	50	48		1	96	37-166	01/21/2009 1643
Chlorobenzene	50	50		1	99	78-129	01/21/2009 1643
Chloroethane	50	50		1	101	42-163	01/21/2009 1643
Chloroform	50	45		1	90	63-123	01/21/2009 1643
Chloromethane (Methyl chloride)	50	49		1	98	20-158	01/21/2009 1643
1,2-Dibromo-3-chloropropane (DBCP)	50	50		1	99	70-130	01/21/2009 1643
Dibromochloromethane	50	50		1	100	74-134	01/21/2009 1643
1,2-Dibromoethane (EDB)	50	50		1	100	70-130	01/21/2009 1643
Dibromomethane (Methylene bromide)	50	48		1	96	70-130	01/21/2009 1643
trans-1,4-Dichloro-2-butene	50	53		1	106	70-130	01/21/2009 1643
1,4-Dichlorobenzene	50	48		1	96	70-130	01/21/2009 1643
1,2-Dichlorobenzene	50	49		1	98	70-130	01/21/2009 1643
1,1-Dichloroethane	50	49		1	98	69-132	01/21/2009 1643
1,2-Dichloroethane	50	46		1	93	59-143	01/21/2009 1643
cis-1,2-Dichloroethene	50	50		1	101	70-130	01/21/2009 1643
1,1-Dichloroethene	50	49		1	97	50-132	01/21/2009 1643
trans-1,2-Dichloroethene	50	50		1	100	67-141	01/21/2009 1643
1,2-Dichloropropane	50	50		1	101	71-126	01/21/2009 1643
trans-1,3-Dichloropropene	50	52		1	104	73-131	01/21/2009 1643
cis-1,3-Dichloropropene	50	53		1	105	69-130	01/21/2009 1643
Ethylbenzene	50	51		1	101	79-132	01/21/2009 1643
2-Hexanone	100	110		1	107	60-140	01/21/2009 1643
Methyl iodide (Iodomethane)	50	54		1	108	70-130	01/21/2009 1643
4-Methyl-2-pentanone	100	100		1	106	60-140	01/21/2009 1643
Methylene chloride	50	48		1	95	69-129	01/21/2009 1643
Styrene	50	52		1	104	70-130	01/21/2009 1643
1,1,1,2-Tetrachloroethane	50	50		1	100	70-130	01/21/2009 1643
1,1,2,2-Tetrachloroethane	50	51		1	102	60-155	01/21/2009 1643
Tetrachloroethene	50	49		1	98	70-130	01/21/2009 1643
Toluene	50	50		1	101	75-125	01/21/2009 1643
1,1,1-Trichloroethane	50	47		1	94	77-132	01/21/2009 1643
1,1,2-Trichloroethane	50	50		1	100	77-132	01/21/2009 1643
Trichloroethene	50	49		1	97	73-124	01/21/2009 1643
Trichlorofluoromethane	50	50		1	99	41-173	01/21/2009 1643
1,2,3-Trichloropropane	50	50		1	100	70-130	01/21/2009 1643

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: KQ93786-003
Batch: 93786
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	110		1	108	7.3	46-153	20	01/21/2009 1705
Acrylonitrile	100	110		1	111	1.4	70-122	20	01/21/2009 1705
Benzene	50	51		1	102	3.3	72-127	20	01/21/2009 1705
Bromochloromethane	50	50		1	100	2.9	70-130	20	01/21/2009 1705
Bromodichloromethane	50	50		1	100	0.96	71-143	20	01/21/2009 1705
Bromoform	50	52		1	104	0.17	65-131	20	01/21/2009 1705
Bromomethane (Methyl bromide)	50	51		1	103	1.7	36-168	20	01/21/2009 1705
2-Butanone (MEK)	100	100		1	100	4.7	60-140	20	01/21/2009 1705
Carbon disulfide	50	60		1	119	3.2	60-140	20	01/21/2009 1705
Carbon tetrachloride	50	49		1	98	3.1	37-166	20	01/21/2009 1705
Chlorobenzene	50	51		1	102	3.0	78-129	20	01/21/2009 1705
Chloroethane	50	51		1	102	1.7	42-163	20	01/21/2009 1705
Chloroform	50	47		1	94	3.6	63-123	20	01/21/2009 1705
Chloromethane (Methyl chloride)	50	57		1	115	15	20-158	20	01/21/2009 1705
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	98	1.2	70-130	20	01/21/2009 1705
Dibromochloromethane	50	50		1	101	0.94	74-134	20	01/21/2009 1705
1,2-Dibromoethane (EDB)	50	51		1	102	2.0	70-130	20	01/21/2009 1705
Dibromomethane (Methylene bromide)	50	49		1	97	1.3	70-130	20	01/21/2009 1705
trans-1,4-Dichloro-2-butene	50	49		1	98	8.1	70-130	20	01/21/2009 1705
1,4-Dichlorobenzene	50	50		1	99	3.1	70-130	20	01/21/2009 1705
1,2-Dichlorobenzene	50	51		1	101	3.6	70-130	20	01/21/2009 1705
1,1-Dichloroethane	50	51		1	103	4.6	69-132	20	01/21/2009 1705
1,2-Dichloroethane	50	47		1	93	0.65	59-143	20	01/21/2009 1705
cis-1,2-Dichloroethene	50	52		1	104	2.6	70-130	20	01/21/2009 1705
1,1-Dichloroethene	50	50		1	100	3.2	50-132	20	01/21/2009 1705
trans-1,2-Dichloroethene	50	53		1	106	5.8	67-141	20	01/21/2009 1705
1,2-Dichloropropane	50	51		1	103	1.9	71-126	20	01/21/2009 1705
trans-1,3-Dichloropropene	50	52		1	104	0.62	73-131	20	01/21/2009 1705
cis-1,3-Dichloropropene	50	53		1	106	0.93	69-130	20	01/21/2009 1705
Ethylbenzene	50	52		1	105	3.4	79-132	20	01/21/2009 1705
2-Hexanone	100	100		1	103	4.0	60-140	20	01/21/2009 1705
Methyl iodide (Iodomethane)	50	55		1	110	1.9	70-130	20	01/21/2009 1705
4-Methyl-2-pentanone	100	100		1	104	2.0	60-140	20	01/21/2009 1705
Methylene chloride	50	49		1	97	2.0	69-129	20	01/21/2009 1705
Styrene	50	52		1	104	0.075	70-130	20	01/21/2009 1705
1,1,1,2-Tetrachloroethane	50	50		1	100	0.028	70-130	20	01/21/2009 1705
1,1,2,2-Tetrachloroethane	50	51		1	102	0.14	60-155	20	01/21/2009 1705
Tetrachloroethene	50	50		1	101	2.1	70-130	20	01/21/2009 1705
Toluene	50	52		1	104	2.8	75-125	20	01/21/2009 1705
1,1,1-Trichloroethane	50	49		1	98	3.2	77-132	20	01/21/2009 1705
1,1,2-Trichloroethane	50	50		1	100	0.62	77-132	20	01/21/2009 1705
Trichloroethene	50	50		1	100	2.3	73-124	20	01/21/2009 1705
Trichlorofluoromethane	50	51		1	103	3.4	41-173	20	01/21/2009 1705
1,2,3-Trichloropropane	50	50		1	99	0.67	70-130	20	01/21/2009 1705

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - MB

Sample ID: KQ93839-001
Batch: 93839
Analytical Method: 6020A

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 01/22/2009 1540

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Antimony	ND		1	1.00	0.0970	ug/L	01/27/2009 1218
Arsenic	ND		1	1.00	0.261	ug/L	01/26/2009 1850
Barium	ND		1	5.00	0.0450	ug/L	01/26/2009 1850
Beryllium	ND		1	0.400	0.0280	ug/L	01/26/2009 1850
Cadmium	ND		1	0.100	0.0590	ug/L	01/26/2009 1850
Chromium	ND		1	5.00	0.346	ug/L	01/26/2009 1850
Cobalt	ND		1	5.00	0.0290	ug/L	01/26/2009 1850
Copper	ND		1	1.00	0.148	ug/L	01/26/2009 1850
Lead	ND		1	1.00	0.0470	ug/L	01/26/2009 1850
Nickel	ND		1	5.00	0.277	ug/L	01/26/2009 1850
Selenium	ND		1	1.00	0.253	ug/L	01/26/2009 1850
Silver	ND		1	1.00	0.0110	ug/L	01/26/2009 1850
Thallium	ND		1	0.500	0.0760	ug/L	01/26/2009 1850
Vanadium	ND		1	5.00	1.46	ug/L	01/26/2009 1850
Zinc	ND		1	10.0	1.45	ug/L	01/26/2009 1850

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - LCSD

Sample ID: KQ93839-003
Batch: 93839
Analytical Method: 6020A

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 01/22/2009 1540

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Antimony	100	92.5		1	92	3.0	80-120	20	01/27/2009 1238
Arsenic	100	93.3		1	93	0.13	80-120	20	01/26/2009 1908
Barium	100	92.6		1	93	0.46	80-120	20	01/26/2009 1908
Beryllium	100	95.1		1	95	0.54	80-120	20	01/26/2009 1908
Cadmium	100	94.6		1	95	0.30	80-120	20	01/26/2009 1908
Chromium	100	90.1		1	90	0.19	80-120	20	01/26/2009 1908
Cobalt	100	90.9		1	91	0.28	80-120	20	01/26/2009 1908
Copper	100	92.6		1	92	0.84	80-120	20	01/26/2009 1908
Lead	100	86.3		1	86	0.54	80-120	20	01/26/2009 1908
Nickel	100	92.5		1	92	0.022	80-120	20	01/26/2009 1908
Selenium	100	99.4		1	99	0.43	80-120	20	01/26/2009 1908
Silver	100	93.3		1	93	0.44	80-120	20	01/26/2009 1908
Thallium	100	90.2		1	90	0.022	80-120	20	01/26/2009 1908
Vanadium	100	93.0		1	93	0.043	80-120	20	01/26/2009 1908
Zinc	100	99.2		1	99	0.13	80-120	20	01/26/2009 1908

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N - Recovery is out of criteria
+ - RPD is out of criteria

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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - MSD

Sample ID: KA20053-001MD
Batch: 93839
Analytical Method: 6020A

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 01/22/2009 1540

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Antimony	1.50	100	97.7		1	96	1.6	70-130	20	01/27/2009 1308
Arsenic	2.12	100	83.9		1	82	0.40	70-130	20	01/26/2009 1935
Barium	339	100	429		1	90	1.6	70-130	20	01/26/2009 1935
Beryllium	0.0840	100	84.8		1	85	0.15	70-130	20	01/26/2009 1935
Cadmium	0.458	100	91.2		1	91	1.2	70-130	20	01/26/2009 1935
Chromium	9.55	100	94.4		1	85	2.2	70-130	20	01/26/2009 1935
Cobalt	9.86	100	91.3		1	81	1.3	70-130	20	01/26/2009 1935
Copper	4.20	100	82.3		1	78	0.98	70-130	20	01/26/2009 1935
Lead	2.45	100	88.2		1	86	1.3	70-130	20	01/26/2009 1935
Nickel	10.2	100	90.0		1	80	0.93	70-130	20	01/26/2009 1935
Selenium	ND	100	76.5		1	76	0.14	70-130	20	01/26/2009 1935
Silver	0.242	100	83.8		1	84	1.0	70-130	20	01/26/2009 1935
Thallium	0.279	100	89.3		1	89	1.7	70-130	20	01/26/2009 1935
Vanadium	4.94	100	91.9		1	87	1.9	70-130	20	01/26/2009 1935
Zinc	148	100	231		1	83	0.34	70-130	20	01/26/2009 1935

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P = The RPD between two GC columns exceeds 40%
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N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: SAME Cooler Inspected by/date: CC 11-20-09 SAM Lot #: KA20053

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 2.6 °C / °C / °C / °C / °C / °C / °C / °C

Method: ☑ Temperature Blank ☐ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☑	No ☐	NA ☐	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

S&ME, Inc.
9751 Southern Pine Blvd
Charlotte, NC 28273
Attention: Courtney Withers

Project Name: **Lincoln County Landfill**

Project Number: **1356-03-255B**

Lot Number: **KA24001**

Date Completed: **02/02/2009**

Michael Casalena
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

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SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
S&ME, Inc.
Lot Number: KA24001

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SW-1 upgradient	Aqueous	01/23/2009 1530	01/24/2009
002	SW-2	Aqueous	01/23/2009 1700	01/24/2009
003	SW-3	Aqueous	01/23/2009 1245	01/24/2009
004	SW-4	Aqueous	01/23/2009 1600	01/24/2009
005	SW-5	Aqueous	01/23/2009 1605	01/24/2009
006	Trip Blank	Aqueous	01/24/2009 0950	01/24/2009
007	Soil-1	Solid	01/23/2009 1315	01/24/2009
008	Soil-2	Solid	01/23/2009 1320	01/24/2009
009	Soil-3	Solid	01/23/2009 1400	01/24/2009
010	Soil-4	Solid	01/23/2009 1420	01/24/2009
011	Soil-5	Solid	01/23/2009 1440	01/24/2009
012	Soil-6	Solid	01/23/2009 1630	01/24/2009
013	Soil-7	Solid	01/23/2009 1635	01/24/2009

(13 samples)

Executive Summary (Continued)

Lot Number: KA24001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	SW-4	Aqueous	Vanadium	6020A	2.88	J	ug/L	23
004	SW-4	Aqueous	Zinc	6020A	7.45	BJ	ug/L	23
005	SW-5	Aqueous	BOD, 5 day	SM 5210B	2.4		mg/L	24
005	SW-5	Aqueous	COD	SM 5220D	12		mg/L	24
005	SW-5	Aqueous	Nitrate-Nitrite - N	353.2	0.058		mg/L	24
005	SW-5	Aqueous	Phosphorus	365.1	0.38		mg/L	24
005	SW-5	Aqueous	Sulfate	300.0	5.0		mg/L	24
005	SW-5	Aqueous	TSS	SM 2540D	260		mg/L	24
005	SW-5	Aqueous	Barium	6020A	52.6	B	ug/L	27
005	SW-5	Aqueous	Beryllium	6020A	0.175	J	ug/L	27
005	SW-5	Aqueous	Chromium	6020A	2.35	J	ug/L	27
005	SW-5	Aqueous	Cobalt	6020A	6.30		ug/L	27
005	SW-5	Aqueous	Copper	6020A	3.19		ug/L	27
005	SW-5	Aqueous	Lead	6020A	3.30		ug/L	27
005	SW-5	Aqueous	Nickel	6020A	1.77	J	ug/L	27
005	SW-5	Aqueous	Thallium	6020A	0.0960	J	ug/L	27
005	SW-5	Aqueous	Vanadium	6020A	8.74		ug/L	27
005	SW-5	Aqueous	Zinc	6020A	11.2	B	ug/L	27
007	Soil-1	Solid	Nitrate-Nitrite - N (soluble)	353.2	1.6		mg/kg	30
007	Soil-1	Solid	Phosphorus	365.1	34		mg/kg	30
007	Soil-1	Solid	Sulfate (soluble)	300.0	73	B	mg/kg	30
007	Soil-1	Solid	2-Butanone (MEK)	8260B	3.4	J	ug/kg	31
007	Soil-1	Solid	Antimony	6010C	0.35	J	mg/kg	33
007	Soil-1	Solid	Arsenic	6010C	4.4		mg/kg	33
007	Soil-1	Solid	Barium	6010C	39		mg/kg	33
007	Soil-1	Solid	Beryllium	6010C	0.62		mg/kg	33
007	Soil-1	Solid	Cadmium	6010C	0.10	J	mg/kg	33
007	Soil-1	Solid	Chromium	6010C	31		mg/kg	33
007	Soil-1	Solid	Cobalt	6010C	6.4		mg/kg	33
007	Soil-1	Solid	Copper	6010C	11		mg/kg	33
007	Soil-1	Solid	Lead	6010C	13		mg/kg	33
007	Soil-1	Solid	Nickel	6010C	8.7		mg/kg	33
007	Soil-1	Solid	Vanadium	6010C	64		mg/kg	33
007	Soil-1	Solid	Zinc	6010C	28		mg/kg	33
008	Soil-2	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.66		mg/kg	34
008	Soil-2	Solid	Phosphorus	365.1	1.6		mg/kg	34
008	Soil-2	Solid	Sulfate (soluble)	300.0	57	B	mg/kg	34
008	Soil-2	Solid	Acetone	8260B	55		ug/kg	35
008	Soil-2	Solid	2-Butanone (MEK)	8260B	65		ug/kg	35
008	Soil-2	Solid	Antimony	6010C	0.23	J	mg/kg	37
008	Soil-2	Solid	Arsenic	6010C	3.8		mg/kg	37
008	Soil-2	Solid	Barium	6010C	70		mg/kg	37
008	Soil-2	Solid	Beryllium	6010C	0.95		mg/kg	37
008	Soil-2	Solid	Cadmium	6010C	0.14		mg/kg	37
008	Soil-2	Solid	Chromium	6010C	25		mg/kg	37
008	Soil-2	Solid	Cobalt	6010C	9.3		mg/kg	37
008	Soil-2	Solid	Copper	6010C	13		mg/kg	37
008	Soil-2	Solid	Lead	6010C	14		mg/kg	37

Executive Summary (Continued)

Lot Number: KA24001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
011	Soil-5	Solid	Zinc	6010C	69		mg/kg	49
012	Soil-6	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.79		mg/kg	50
012	Soil-6	Solid	Phosphorus	365.1	3.9		mg/kg	50
012	Soil-6	Solid	Sulfate (soluble)	300.0	18	BJ	mg/kg	50
012	Soil-6	Solid	Acetone	8260B	38		ug/kg	51
012	Soil-6	Solid	Arsenic	6010C	6.0		mg/kg	53
012	Soil-6	Solid	Barium	6010C	110		mg/kg	53
012	Soil-6	Solid	Beryllium	6010C	1.5		mg/kg	53
012	Soil-6	Solid	Cadmium	6010C	0.22		mg/kg	53
012	Soil-6	Solid	Chromium	6010C	49		mg/kg	53
012	Soil-6	Solid	Cobalt	6010C	9.3		mg/kg	53
012	Soil-6	Solid	Copper	6010C	18		mg/kg	53
012	Soil-6	Solid	Lead	6010C	22		mg/kg	53
012	Soil-6	Solid	Nickel	6010C	21		mg/kg	53
012	Soil-6	Solid	Vanadium	6010C	78		mg/kg	53
012	Soil-6	Solid	Zinc	6010C	50		mg/kg	53
013	Soil-7	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.27		mg/kg	54
013	Soil-7	Solid	Phosphorus	365.1	0.69		mg/kg	54
013	Soil-7	Solid	Sulfate (soluble)	300.0	41	B	mg/kg	54
013	Soil-7	Solid	Acetone	8260B	160		ug/kg	55
013	Soil-7	Solid	2-Butanone (MEK)	8260B	9.9		ug/kg	55
013	Soil-7	Solid	Arsenic	6010C	4.0		mg/kg	57
013	Soil-7	Solid	Barium	6010C	52		mg/kg	57
013	Soil-7	Solid	Beryllium	6010C	0.66		mg/kg	57
013	Soil-7	Solid	Cadmium	6010C	0.12	J	mg/kg	57
013	Soil-7	Solid	Chromium	6010C	39		mg/kg	57
013	Soil-7	Solid	Cobalt	6010C	5.4		mg/kg	57
013	Soil-7	Solid	Copper	6010C	11		mg/kg	57
013	Soil-7	Solid	Lead	6010C	21		mg/kg	57
013	Soil-7	Solid	Nickel	6010C	15		mg/kg	57
013	Soil-7	Solid	Vanadium	6010C	57		mg/kg	57
013	Soil-7	Solid	Zinc	6010C	27		mg/kg	57

(173 detections)

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **SW-1 upgradient**
Date Sampled: **01/23/2009 1530**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1329	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Appendix I Metals

Client: **S&ME, Inc.**
Description: **Soil-2**
Date Sampled: **01/23/2009 1320**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-008**
Matrix: **Solid**
% Solids: **77.8** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0151	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	**7440-36-0**	**6010C**	**0.23**	**J**	**0.64**	**0.23**	**mg/kg**	**1**
Arsenic	**7440-38-2**	**6010C**	**3.8**		**0.64**	**0.24**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**70**		**1.7**	**0.12**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6010C**	**0.95**		**0.26**	**0.036**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.14**		**0.13**	**0.013**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**25**		**0.32**	**0.065**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**9.3**		**1.7**	**0.12**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**13**		**0.32**	**0.062**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**14**		**0.64**	**0.12**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**11**		**2.6**	**0.19**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		0.64	0.22	mg/kg	1
Silver	7440-22-4	6010C	ND		0.32	0.054	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.2	0.33	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**59**		**3.2**	**0.19**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**32**		**3.2**	**0.44**	**mg/kg**	**1**

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B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-3**
Date Sampled: **01/23/2009 1400**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-009**
Matrix: **Solid**
% Solids: **62.3** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0144	DLB		94047	8.50

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**50**		**19**	**6.3**	**ug/kg**	**1**
Acrylonitrile	107-13-1	8260B	ND		47	5.7	ug/kg	1
Benzene	71-43-2	8260B	ND		4.7	1.0	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		4.7	0.94	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.7	1.6	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.7	0.66	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	1.7	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**58**		**9.4**	**2.3**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260B	ND		4.7	1.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.7	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.7	1.6	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.7	1.2	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.7	0.78	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	0.94	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	1.4	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.7	1.6	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	0.80	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		4.7	0.90	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		9.4	0.76	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	1.6	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	0.69	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	0.94	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	1.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	0.72	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	1.4	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	0.86	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	0.64	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	0.77	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.7	1.6	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		9.4	1.2	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		4.7	0.51	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.4	1.4	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.7	2.4	ug/kg	1
Styrene	100-42-5	8260B	ND		4.7	1.0	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		4.7	1.3	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	0.44	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.7	2.2	ug/kg	1
Toluene	108-88-3	8260B	ND		4.7	1.6	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	0.80	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	0.75	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		4.7	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	1.4	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.7	0.80	ug/kg	1

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Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Appendix I Metals

Client: **S&ME, Inc.**
Description: **Soil-3**
Date Sampled: **01/23/2009 1400**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-009**
Matrix: **Solid**
% Solids: **62.3** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0155	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		0.80	0.28	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**7.2**		**0.80**	**0.30**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**110**		**2.1**	**0.14**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6010C**	**1.6**		**0.32**	**0.045**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.19**		**0.16**	**0.017**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**26**		**0.40**	**0.081**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**15**		**2.1**	**0.15**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**22**		**0.40**	**0.078**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**22**		**0.80**	**0.15**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**18**		**3.2**	**0.24**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		0.80	0.28	mg/kg	1
Silver	7440-22-4	6010C	ND		0.40	0.067	mg/kg	1
Thallium	7440-28-0	6010C	ND		4.0	0.41	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**69**		**4.0**	**0.24**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**72**		**4.0**	**0.54**	**mg/kg**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

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Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-4**
Date Sampled: **01/23/2009 1420**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-010**
Matrix: **Solid**
% Solids: **61.4** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260B	1	01/27/2009 1448	DLB		94083	13.06

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**5.2**	**J**	**12**	**4.2**	**ug/kg**	**2**
Acrylonitrile	107-13-1	8260B	ND		31	3.7	ug/kg	2
Benzene	71-43-2	8260B	ND		3.1	0.68	ug/kg	2
Bromochloromethane	74-97-5	8260B	ND		3.1	0.62	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		3.1	1.0	ug/kg	2
Bromoform	75-25-2	8260B	ND		3.1	0.44	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		3.1	1.1	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		6.2	1.5	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		3.1	0.81	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		3.1	1.1	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		3.1	1.0	ug/kg	2
Chloroethane	75-00-3	8260B	ND		3.1	0.81	ug/kg	2
Chloroform	67-66-3	8260B	ND		3.1	0.52	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		3.1	0.62	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		3.1	0.93	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		3.1	1.0	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		3.1	0.53	ug/kg	2
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		3.1	0.59	ug/kg	2
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		6.2	0.50	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		3.1	1.0	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		3.1	1.0	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		3.1	0.45	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		3.1	0.62	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		3.1	1.0	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		3.1	0.47	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		3.1	0.93	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		3.1	0.57	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		3.1	0.42	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		3.1	0.51	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		3.1	1.0	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		6.2	0.81	ug/kg	2
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		3.1	0.34	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		6.2	0.93	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		3.1	1.6	ug/kg	2
Styrene	100-42-5	8260B	ND		3.1	0.68	ug/kg	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		3.1	0.87	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		3.1	0.29	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		3.1	1.4	ug/kg	2
Toluene	108-88-3	8260B	ND		3.1	1.0	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		3.1	0.53	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		3.1	0.49	ug/kg	2
Trichloroethene	79-01-6	8260B	ND		3.1	1.2	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		3.1	0.93	ug/kg	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		3.1	0.53	ug/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
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Appendix I Metals

Client: **S&ME, Inc.**
Description: **Soil-4**
Date Sampled: **01/23/2009 1420**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-010**
Matrix: **Solid**
% Solids: **61.4** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0159	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		0.81	0.29	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**4.8**		**0.81**	**0.30**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**100**		**2.1**	**0.15**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6010C**	**1.0**		**0.32**	**0.046**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.19**		**0.16**	**0.017**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**33**		**0.41**	**0.082**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**8.1**		**2.1**	**0.15**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**16**		**0.41**	**0.079**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**19**		**0.81**	**0.15**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**15**		**3.2**	**0.24**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		0.81	0.28	mg/kg	1
Silver	7440-22-4	6010C	ND		0.41	0.068	mg/kg	1
Thallium	7440-28-0	6010C	ND		4.1	0.41	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**63**		**4.1**	**0.24**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**48**		**4.1**	**0.55**	**mg/kg**	**1**

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Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-5**
Date Sampled: **01/23/2009 1440**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-011**
Matrix: **Solid**
% Solids: **71.9** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0228	DLB		94047	11.12

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**6.5**	**J**	**12**	**4.2**	**ug/kg**	**1**
Acrylonitrile	107-13-1	8260B	ND		31	3.8	ug/kg	1
Benzene	71-43-2	8260B	ND		3.1	0.69	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		3.1	0.62	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		3.1	1.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		3.1	0.44	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		3.1	1.1	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		6.2	1.5	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		3.1	0.81	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		3.1	1.1	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		3.1	1.1	ug/kg	1
Chloroethane	75-00-3	8260B	ND		3.1	0.81	ug/kg	1
Chloroform	67-66-3	8260B	ND		3.1	0.52	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		3.1	0.62	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		3.1	0.94	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		3.1	1.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		3.1	0.53	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		3.1	0.59	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		6.2	0.50	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		3.1	1.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		3.1	1.1	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		3.1	0.46	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		3.1	0.62	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		3.1	1.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		3.1	0.48	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		3.1	0.94	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		3.1	0.57	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		3.1	0.42	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		3.1	0.51	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		3.1	1.1	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		6.2	0.81	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		3.1	0.34	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		6.2	0.94	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		3.1	1.6	ug/kg	1
Styrene	100-42-5	8260B	ND		3.1	0.69	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		3.1	0.88	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		3.1	0.29	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		3.1	1.4	ug/kg	1
Toluene	108-88-3	8260B	ND		3.1	1.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		3.1	0.53	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		3.1	0.49	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		3.1	1.2	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		3.1	0.94	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		3.1	0.53	ug/kg	1

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B = Detected in the method blank
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E = Quantitation of compound exceeded the calibration range
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N = Recovery is out of criteria

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Appendix I Metals

Client: **S&ME, Inc.**
Description: **Soil-5**
Date Sampled: **01/23/2009 1440**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-011**
Matrix: **Solid**
% Solids: **71.9** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0203	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		0.70	0.25	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**5.2**		**0.70**	**0.26**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**93**		**1.8**	**0.13**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6010C**	**0.81**		**0.28**	**0.039**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.20**		**0.14**	**0.015**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**48**		**0.35**	**0.070**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**7.5**		**1.8**	**0.13**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**16**		**0.35**	**0.067**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**16**		**0.70**	**0.13**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**19**		**2.8**	**0.21**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		0.70	0.24	mg/kg	1
Silver	7440-22-4	6010C	ND		0.35	0.058	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.5	0.35	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**61**		**3.5**	**0.21**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**69**		**3.5**	**0.47**	**mg/kg**	**1**

PQL = Practical quantitation limit
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Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-6**
Date Sampled: **01/23/2009 1630**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-012**
Matrix: **Solid**
% Solids: **46.4** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260B	1	01/27/2009 1511	DLB		94083	11.48

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**38**		**19**	**6.3**	**ug/kg**	**2**
Acrylonitrile	107-13-1	8260B	ND		47	5.6	ug/kg	2
Benzene	71-43-2	8260B	ND		4.7	1.0	ug/kg	2
Bromochloromethane	74-97-5	8260B	ND		4.7	0.94	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		4.7	1.6	ug/kg	2
Bromoform	75-25-2	8260B	ND		4.7	0.66	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	1.7	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		9.4	2.2	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		4.7	1.2	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		4.7	1.7	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		4.7	1.6	ug/kg	2
Chloroethane	75-00-3	8260B	ND		4.7	1.2	ug/kg	2
Chloroform	67-66-3	8260B	ND		4.7	0.78	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	0.94	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	1.4	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		4.7	1.6	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	0.80	ug/kg	2
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		4.7	0.89	ug/kg	2
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		9.4	0.75	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	1.6	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	1.6	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	0.68	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	0.94	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	1.6	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	0.71	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	1.4	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	0.85	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	0.64	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	0.77	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		4.7	1.6	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		9.4	1.2	ug/kg	2
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		4.7	0.51	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.4	1.4	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		4.7	2.4	ug/kg	2
Styrene	100-42-5	8260B	ND		4.7	1.0	ug/kg	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		4.7	1.3	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	0.44	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		4.7	2.2	ug/kg	2
Toluene	108-88-3	8260B	ND		4.7	1.6	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	0.80	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	0.74	ug/kg	2
Trichloroethene	79-01-6	8260B	ND		4.7	1.8	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	1.4	ug/kg	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.7	0.80	ug/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

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Appendix I Metals

Client: **S&ME, Inc.**
Description: **Soil-6**
Date Sampled: **01/23/2009 1630**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-012**
Matrix: **Solid**
% Solids: **46.4** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0207	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		1.1	0.38	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**6.0**		**1.1**	**0.40**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**110**		**2.8**	**0.20**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6010C**	**1.5**		**0.43**	**0.060**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.22**		**0.22**	**0.023**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**49**		**0.54**	**0.11**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**9.3**		**2.8**	**0.20**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**18**		**0.54**	**0.10**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**22**		**1.1**	**0.20**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**21**		**4.3**	**0.32**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		1.1	0.37	mg/kg	1
Silver	7440-22-4	6010C	ND		0.54	0.090	mg/kg	1
Thallium	7440-28-0	6010C	ND		5.4	0.55	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**78**		**5.4**	**0.32**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**50**		**5.4**	**0.73**	**mg/kg**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

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Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-7**
Date Sampled: **01/23/2009 1635**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-013**
Matrix: **Solid**
% Solids: **75.7** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0312	DLB		94047	7.01

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**160**		**19**	**6.3**	**ug/kg**	**1**
Acrylonitrile	107-13-1	8260B	ND		47	5.6	ug/kg	1
Benzene	71-43-2	8260B	ND		4.7	1.0	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		4.7	0.94	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.7	1.6	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.7	0.66	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	1.7	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**9.9**		**9.4**	**2.3**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260B	ND		4.7	1.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.7	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.7	1.6	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.7	1.2	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.7	0.78	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	0.94	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	1.4	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.7	1.6	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	0.80	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		4.7	0.90	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		9.4	0.75	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	1.6	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	0.69	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	0.94	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	1.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	0.72	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	1.4	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	0.86	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	0.64	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	0.77	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.7	1.6	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		9.4	1.2	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		4.7	0.51	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.4	1.4	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.7	2.4	ug/kg	1
Styrene	100-42-5	8260B	ND		4.7	1.0	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		4.7	1.3	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	0.44	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.7	2.2	ug/kg	1
Toluene	108-88-3	8260B	ND		4.7	1.6	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	0.80	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	0.74	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		4.7	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	1.4	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.7	0.80	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
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N = Recovery is out of criteria

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Appendix I Metals

Client: **S&ME, Inc.**
Description: **Soil-7**
Date Sampled: **01/23/2009 1635**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-013**
Matrix: **Solid**
% Solids: **75.7** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0211	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		0.66	0.24	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**4.0**		**0.66**	**0.25**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**52**		**1.7**	**0.12**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6010C**	**0.66**		**0.26**	**0.037**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.12**	**J**	**0.13**	**0.014**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**39**		**0.33**	**0.067**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**5.4**		**1.7**	**0.12**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**11**		**0.33**	**0.064**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**21**		**0.66**	**0.12**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**15**		**2.6**	**0.20**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		0.66	0.23	mg/kg	1
Silver	7440-22-4	6010C	ND		0.33	0.055	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.3	0.34	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**57**		**3.3**	**0.20**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**27**		**3.3**	**0.45**	**mg/kg**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

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Inorganic non-metals - Duplicate

Sample ID: KA24001-007DU
Batch: 94002
Analytical Method: 9045D

Matrix: Solid

Parameter	Sample Amount (su)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
pH	6.31	6.30		1	0.16	20	01/26/2009 1606

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: KQ94069-002
Batch: 94069
Analytical Method: SM 2540D

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TSS	500	500		1	100	90-110	01/27/2009 1124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: KQ94108-002
Batch: 94108
Analytical Method: 353.2

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Nitrate-Nitrite - N	0.80	0.79		1	99	90-110	01/27/2009 1528

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: KA24001-005MS
Batch: 94108
Analytical Method: 353.2

Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Nitrate-Nitrite - N	0.058	0.80	0.73	N	1	84	90-110	01/27/2009 1551

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: KQ94140-001
Batch: 94140
Analytical Method: 353.2

Matrix: Solid

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Nitrate-Nitrite - N (soluble)	ND		1	0.20		mg/kg	01/28/2009 0855

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCSD

Sample ID: KQ94140-003
Batch: 94140
Analytical Method: 353.2

Matrix: Solid

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Nitrate-Nitrite - N (soluble)	0.80	0.85		1	107	0.82	90-110	20	01/28/2009 0857

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: KA24001-009MD
Batch: 94140
Analytical Method: 353.2
Matrix: Solid

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Nitrate-Nitrite - N (soluble)	0.75	0.80	5.8	N	1	672	2.5	90-110	20	01/28/2009 0904

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: KQ94166-002
Batch: 94166
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Sulfate	20	21		1	107	90-110	01/28/2009 1023

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - Duplicate

Sample ID: KA24001-004DU
Batch: 94166
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Result (mg/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Sulfate	3.2	3.2		1	1.7	20	01/28/2009 1322

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: KQ94177-002
Batch: 94177
Analytical Method: 365.1

Matrix: Aqueous
Prep Method: 365.1
Prep Date: 01/28/2009 1700

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Phosphorus	0.25	0.27		1	109	90-110	01/30/2009 1313

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: KA24001-001MS
Batch: 94177
Analytical Method: 365.1

Matrix: Aqueous
Prep Method: 365.1
Prep Date: 01/28/2009 1700

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Phosphorus	ND	0.25	0.32	N	1	128	90-110	01/30/2009 1318

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: KA24001-002MS
Batch: 94177
Analytical Method: 365.1

Matrix: Aqueous
Prep Method: 365.1
Prep Date: 01/28/2009 1700

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Phosphorus	0.031	0.25	0.35	N	1	128	90-110	01/30/2009 1318

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: KQ94221-001
Batch: 94221
Analytical Method: 365.1

Matrix: Solid
Prep Method: 365.1
Prep Date: 01/29/2009 1300

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Phosphorus	ND		1	0.50	0.10	mg/kg	01/30/2009 1655

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCSD

Sample ID: KQ94221-003
Batch: 94221
Analytical Method: 365.1

Matrix: Solid
Prep Method: 365.1
Prep Date: 01/29/2009 1300

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Phosphorus	2.5	2.7		1	108	2.1	90-110	20	01/30/2009 1743

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: KA24001-010MD
Batch: 94221
Analytical Method: 365.1

Matrix: Solid
Prep Method: 365.1
Prep Date: 01/29/2009 1300

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Phosphorus	4.4	4.1	83	N,+	10	1930	190	90-110	20	01/30/2009 1816

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: KA24001-013MD
Batch: 94221
Analytical Method: 365.1

Matrix: Solid
Prep Method: 365.1
Prep Date: 01/29/2009 1300

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Phosphorus	0.69	3.3	100	N	20	3100	14	90-110	20	01/30/2009 1816

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: KQ94252-002
Batch: 94252
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Sulfate	20	21		1	106	90-110	01/29/2009 0249

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: KA24001-005MS
Batch: 94252
Analytical Method: 300.0

Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Sulfate	5.0	20	26		1	106	90-110	01/29/2009 0141

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: KQ94253-001 **Matrix:** Solid
Batch: 94253
Analytical Method: 300.0

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Sulfate (soluble)	5.3	J	1	10	5.0	mg/kg	01/29/2009 0932

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCSD

Sample ID: KQ94253-003 **Matrix:** Solid
Batch: 94253
Analytical Method: 300.0

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Sulfate (soluble)	200	210		1	105	4.1	90-110	20	01/29/2009 1017

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: KA24001-013MD
Batch: 94253
Analytical Method: 300.0

Matrix: Solid

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Sulfate (soluble)	41	200	260	N	1	114	1.1	90-110	20	01/29/2009 0717

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: KQ94030-001
Batch: 94030
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Vinyl acetate	ND		1	5.0	1.3	ug/L	01/26/2009 1120
Vinyl chloride	ND		1	1.0	0.054	ug/L	01/26/2009 1120
Xylenes (total)	ND		1	1.0	0.33	ug/L	01/26/2009 1120

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		83	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: KQ94030-002
Batch: 94030
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Vinyl acetate	50	46		1	92	60-140	01/26/2009 1016
Vinyl chloride	50	42		1	85	29-159	01/26/2009 1016
Xylenes (total)	100	91		1	91	70-130	01/26/2009 1016

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		89	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: KQ94030-003 **Matrix:** Aqueous
Batch: 94030 **Prep Method:** 5030B
Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Vinyl acetate	50	48		1	96	4.6	60-140	20	01/26/2009 1038
Vinyl chloride	50	45		1	91	7.0	29-159	20	01/26/2009 1038
Xylenes (total)	100	93		1	93	3.0	70-130	20	01/26/2009 1038

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		90	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: KQ94047-001
Batch: 94047
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Vinyl acetate	ND		1	5.0	0.90	ug/kg	01/27/2009 0037
Vinyl chloride	ND		1	5.0	0.86	ug/kg	01/27/2009 0037
Xylenes (total)	ND		1	5.0	2.9	ug/kg	01/27/2009 0037

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	47-138
1,2-Dichloroethane-d4		86	53-142
Toluene-d8		91	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: KQ94047-002 **Matrix:** Solid
Batch: 94047 **Prep Method:** 5035
Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Vinyl acetate	50	49		1	99	55-128	01/26/2009 2308
Vinyl chloride	50	54		1	107	42-132	01/26/2009 2308
Xylenes (total)	100	110		1	110	58-128	01/26/2009 2308

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		103	47-138
1,2-Dichloroethane-d4		87	53-142
Toluene-d8		100	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

- Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: KQ94047-003 **Matrix:** Solid
Batch: 94047 **Prep Method:** 5035
Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Vinyl acetate	50	47		1	93	5.4	55-128	20	01/26/2009 2330
Vinyl chloride	50	49		1	98	9.0	42-132	20	01/26/2009 2330
Xylenes (total)	100	100		1	102	7.4	58-128	20	01/26/2009 2330

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		83	53-142
Toluene-d8		95	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: KQ94083-001
Batch: 94083
Analytical Method: 8260B
Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Vinyl acetate	ND		1	5.0	0.90	ug/kg	01/27/2009 1142
Vinyl chloride	ND		1	5.0	0.86	ug/kg	01/27/2009 1142
Xylenes (total)	ND		1	5.0	2.9	ug/kg	01/27/2009 1142

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	47-138
1,2-Dichloroethane-d4		79	53-142
Toluene-d8		87	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: KQ94083-002
Batch: 94083
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Vinyl acetate	50	50		1	99	55-128	01/27/2009 1035
Vinyl chloride	50	43		1	86	42-132	01/27/2009 1035
Xylenes (total)	100	110		1	109	58-128	01/27/2009 1035

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		87	53-142
Toluene-d8		94	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: KQ94083-003
Batch: 94083
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Vinyl acetate	50	54		1	108	8.7	55-128	20	01/27/2009 1057
Vinyl chloride	50	54	+	1	108	23	42-132	20	01/27/2009 1057
Xylenes (total)	100	110		1	108	1.1	58-128	20	01/27/2009 1057

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		87	53-142
Toluene-d8		97	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: KQ94236-001
Batch: 94236
Analytical Method: 8260B
Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Vinyl acetate	ND		1	5.0	0.90	ug/kg	01/28/2009 2025
Vinyl chloride	ND		1	5.0	0.86	ug/kg	01/28/2009 2025
Xylenes (total)	ND		1	5.0	2.9	ug/kg	01/28/2009 2025

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		89	53-142
Toluene-d8		94	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: KQ94236-002
Batch: 94236
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Vinyl acetate	50	44		1	87	55-128	01/28/2009 1917
Vinyl chloride	50	40		1	80	42-132	01/28/2009 1917
Xylenes (total)	100	85		1	85	58-128	01/28/2009 1917

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		87	53-142
Toluene-d8		102	68-124

PQL = Practical quantitation limit
D = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: KQ94236-003
Batch: 94236
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Vinyl acetate	50	47		1	95	8.4	55-128	20	01/28/2009 1939
Vinyl chloride	50	39		1	79	1.3	42-132	20	01/28/2009 1939
Xylenes (total)	100	86		1	86	1.4	58-128	20	01/28/2009 1939

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		105	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Appendix I Metals - LCS

Sample ID: KQ93963-002
Batch: 93963
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 01/26/2009 1103

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Antimony	50	47		1	95	80-120	01/29/2009 0140
Arsenic	250	240		1	97	80-120	01/29/2009 0140
Barium	500	500		1	100	80-120	01/29/2009 0140
Beryllium	100	99		1	99	80-120	01/29/2009 0140
Cadmium	50	47		1	94	80-120	01/29/2009 0140
Chromium	250	240		1	98	80-120	01/29/2009 0140
Cobalt	100	94		1	94	80-120	01/29/2009 0140
Copper	100	98		1	98	80-120	01/29/2009 0140
Lead	250	210		1	85	80-120	01/29/2009 0140
Nickel	100	95		1	95	80-120	01/29/2009 0140
Selenium	50	45		1	90	80-120	01/29/2009 0140
Silver	250	240		1	96	80-120	01/29/2009 0140
Thallium	40	38		1	94	80-120	01/29/2009 0140
Vanadium	100	97		1	97	80-120	01/29/2009 0140
Zinc	100	100		1	100	80-120	01/29/2009 0140

PQL = Practical quantitation limit
D = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria
/here applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Appendix I Metals - MS

Sample ID: KA24001-013MS
Batch: 93963
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 01/26/2009 1103

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Antimony	ND	66	14	N	1	21	75-125	01/29/2009 0230
Arsenic	4.0	330	300		1	88	75-125	01/29/2009 0230
Barium	52	660	680		1	94	75-125	01/29/2009 0230
Beryllium	0.66	130	120		1	91	75-125	01/29/2009 0230
Cadmium	0.12	66	61		1	92	75-125	01/29/2009 0230
Chromium	39	330	340		1	92	75-125	01/29/2009 0230
Cobalt	5.4	130	130		1	93	75-125	01/29/2009 0230
Copper	11	130	150		1	103	75-125	01/29/2009 0230
Lead	21	330	300		1	83	75-125	01/29/2009 0230
Nickel	15	130	150		1	100	75-125	01/29/2009 0230
Selenium	ND	66	55		1	84	75-125	01/29/2009 0230
Silver	ND	330	310		1	93	75-125	01/29/2009 0230
Thallium	ND	53	44		1	84	75-125	01/29/2009 0230
Vanadium	57	130	180		1	95	75-125	01/29/2009 0230
Zinc	27	130	160		1	100	75-125	01/29/2009 0230

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - MB

Sample ID: KQ93975-001
Batch: 93975
Analytical Method: 6020A

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 01/26/2009 1305

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Antimony	ND		1	1.00	0.0970	ug/L	01/30/2009 1810
Arsenic	ND		1	1.00	0.261	ug/L	01/30/2009 1810
Barium	**0.0740**	**J**	**1**	**5.00**	**0.0450**	**ug/L**	**01/30/2009 1810**
Beryllium	ND		1	0.400	0.0280	ug/L	01/30/2009 1810
Cadmium	ND		1	0.100	0.0590	ug/L	01/30/2009 1810
Chromium	ND		1	5.00	0.346	ug/L	01/30/2009 1810
Cobalt	ND		1	5.00	0.0290	ug/L	01/30/2009 1810
Copper	ND		1	1.00	0.148	ug/L	01/30/2009 1810
Lead	ND		1	1.00	0.0470	ug/L	02/01/2009 2031
Nickel	ND		1	5.00	0.277	ug/L	01/30/2009 1810
Selenium	ND		1	1.00	0.253	ug/L	01/30/2009 1810
Silver	ND		1	1.00	0.0110	ug/L	01/30/2009 1810
Thallium	ND		1	0.500	0.0760	ug/L	02/01/2009 2031
Vanadium	ND		1	5.00	1.46	ug/L	01/30/2009 1810
Zinc	**1.49**	**J**	**1**	**10.0**	**1.45**	**ug/L**	**01/30/2009 1810**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - LCSD

Sample ID: KQ93975-003 **Matrix:** Aqueous
Batch: 93975 **Prep Method:** 3005A
Analytical Method: 6020A **Prep Date:** 01/26/2009 1305

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Antimony	100	94.8		1	95	7.5	80-120	20	01/30/2009 1830
Arsenic	100	101		1	101	2.2	80-120	20	01/30/2009 1830
Barium	100	101		1	101	2.8	80-120	20	01/30/2009 1830
Beryllium	100	102		1	102	0.20	80-120	20	01/30/2009 1830
Cadmium	100	98.7		1	99	1.5	80-120	20	01/30/2009 1830
Chromium	100	97.7		1	98	2.3	80-120	20	01/30/2009 1830
Cobalt	100	99.0		1	99	2.9	80-120	20	01/30/2009 1830
Copper	100	98.8		1	99	0.65	80-120	20	01/30/2009 1830
Lead	100	88.1		1	88	1.5	80-120	20	02/01/2009 2051
Nickel	100	98.7		1	99	1.9	80-120	20	01/30/2009 1830
Selenium	100	107		1	107	3.9	80-120	20	01/30/2009 1830
Silver	100	98.8		1	99	2.5	80-120	20	01/30/2009 1830
Thallium	100	86.9		1	87	1.4	80-120	20	02/01/2009 2051
Vanadium	100	100		1	100	2.0	80-120	20	01/30/2009 1830
Zinc	100	106		1	106	1.5	80-120	20	01/30/2009 1830

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-MS - MSD

Sample ID: KA24001-001MD
Batch: 93975
Analytical Method: 6020A

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 01/26/2009 1305

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Antimony	1.13	100	98.5		1	97	3.8	70-130	20	01/30/2009 1901
Arsenic	ND	100	105		1	105	1.8	70-130	20	01/30/2009 1901
Barium	19.4	100	122		1	103	2.2	70-130	20	01/30/2009 1901
Beryllium	ND	100	105		1	105	0.96	70-130	20	01/30/2009 1901
Cadmium	ND	100	98.0		1	98	2.2	70-130	20	01/30/2009 1901
Chromium	ND	100	99.0		1	99	2.2	70-130	20	01/30/2009 1901
Cobalt	0.302	100	99.1		1	99	2.0	70-130	20	01/30/2009 1901
Copper	0.245	100	99.7		1	99	0.72	70-130	20	01/30/2009 1901
Lead	0.0840	100	88.5		1	88	1.0	70-130	20	02/01/2009 2122
Nickel	ND	100	99.7		1	100	2.3	70-130	20	01/30/2009 1901
Selenium	0.599	100	104		1	104	1.8	70-130	20	01/30/2009 1901
Silver	ND	100	98.1		1	98	1.3	70-130	20	01/30/2009 1901
Thallium	ND	100	87.2		1	87	1.2	70-130	20	02/01/2009 2122
Vanadium	ND	100	103		1	103	2.2	70-130	20	01/30/2009 1901
Zinc	ND	100	105		1	105	1.2	70-130	20	01/30/2009 1901

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 85147

Client: S&ME, Inc.
Report to Contact: Courtney Withers
Telephone No. / Fax No. / E-mail: 704-523-4726
Quote No.:
Address: 9815 Northern Pine Blvd
Sampler's Signature: Courtney R. Withers
Waybill No.:
Page 2 of 2
City: Charlotte State: NC Zip Code: 28273
Printed name: Courtney Withers
Analysis (Attach list if more space is needed.)
Project Name: Lincoln County Landfill
Project No.: 13360-08-356B
PO No.:
Lot No.: K124001

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab	Comp	Soil	Sludge	Non-Aqueous	Aqueous	HCl	HNO3	NaOH	H2SO4	NaHSO4	Zn(Ac)2	Other	Remarks / Cooler I.D.
Soil-1	1/23/09	1315	G		X			B						1	X X X	
Soil-2	1/23/09	1320	G		X			B						1	X X X	
Soil-3	1/23/09	1400	G		X			B						1	X X X	
Soil-4	1/23/09	1420	G		X			B						1	X X X	
Soil-5	1/23/09	1440	G		X			B						1	X X X	
Soil-6	1/23/09	1630	G		X			B						1	X X X	
Soil-7	1/23/09	1635	G		X			B						1	X X X	

Potential Hazard Identification: X Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client X Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): X Standard ☐ Rush (Specify):

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by: Courtney R. Withers	1/23/09	1830	1. Received by:		
2. Relinquished by:			2. Received by:		
3. Relinquished by: Fed Ex	1/24/09	0950	3. Received by: Scott Moffett	1/24/09	0950

Comments:

LAB USE ONLY: Received on ice (Circle) (Yes) No Ice Pack

Receipt Temp: 2.3 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: C-410-012 Effective Date: 08-04-08

SHEALY ENVIRONMENTAL SERVICES, INC.

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-2**
Date Sampled: **01/23/2009 1320**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-008**
Matrix: **Solid**
% Solids: **77.8** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0121	DLB		94047	10.72

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**55**		**12**	**4.0**	**ug/kg**	**1**
Acrylonitrile	107-13-1	8260B	ND		30	3.6	ug/kg	1
Benzene	71-43-2	8260B	ND		3.0	0.66	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		3.0	0.60	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		3.0	1.0	ug/kg	1
Bromoform	75-25-2	8260B	ND		3.0	0.42	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		3.0	1.1	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**65**		**6.0**	**1.4**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260B	ND		3.0	0.78	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		3.0	1.1	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		3.0	1.0	ug/kg	1
Chloroethane	75-00-3	8260B	ND		3.0	0.78	ug/kg	1
Chloroform	67-66-3	8260B	ND		3.0	0.50	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		3.0	0.60	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		3.0	0.90	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		3.0	1.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		3.0	0.51	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		3.0	0.57	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		6.0	0.48	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		3.0	1.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		3.0	1.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		3.0	0.44	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		3.0	0.60	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		3.0	1.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		3.0	0.46	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		3.0	0.90	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		3.0	0.54	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		3.0	0.41	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		3.0	0.49	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		3.0	1.0	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		6.0	0.78	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		3.0	0.32	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		6.0	0.90	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		3.0	1.6	ug/kg	1
Styrene	100-42-5	8260B	ND		3.0	0.66	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		3.0	0.84	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		3.0	0.28	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		3.0	1.4	ug/kg	1
Toluene	108-88-3	8260B	ND		3.0	1.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		3.0	0.51	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		3.0	0.47	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		3.0	1.1	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		3.0	0.90	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		3.0	0.51	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: **S&ME, Inc.**
Description: **SW-1 upgradient**
Date Sampled: **01/23/2009 1530**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 1840	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2101	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	**7440-36-0**	**6020A**	**1.13**		**1.00**	**0.0970**	**ug/L**	**1**
Arsenic	7440-38-2	6020A	ND		1.00	0.261	ug/L	1
Barium	**7440-39-3**	**6020A**	**19.4**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.400	0.0280	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	ND		5.00	0.346	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.302**	**J**	**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.245**	**J**	**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.0840**	**J**	**1.00**	**0.0470**	**ug/L**	**2**
Nickel	7440-02-0	6020A	ND		5.00	0.277	ug/L	1
Selenium	**7782-49-2**	**6020A**	**0.599**	**J**	**1.00**	**0.253**	**ug/L**	**1**
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	2
Vanadium	7440-62-2	6020A	ND		5.00	1.46	ug/L	1
Zinc	7440-66-6	6020A	ND		10.0	1.45	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **SW-2**
Date Sampled: **01/23/2009 1700**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1350	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: **S&ME, Inc.**
Description: **SW-2**
Date Sampled: **01/23/2009 1700**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 1921	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2142	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	1
Arsenic	**7440-38-2**	**6020A**	**0.270**	**J**	**1.00**	**0.261**	**ug/L**	**1**
Barium	**7440-39-3**	**6020A**	**48.2**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	**7440-41-7**	**6020A**	**0.0480**	**J**	**0.400**	**0.0280**	**ug/L**	**1**
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	ND		5.00	0.346	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**2.23**	**J**	**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.51**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.558**	**J**	**1.00**	**0.0470**	**ug/L**	**2**
Nickel	**7440-02-0**	**6020A**	**0.889**	**J**	**5.00**	**0.277**	**ug/L**	**1**
Selenium	**7782-49-2**	**6020A**	**0.391**	**J**	**1.00**	**0.253**	**ug/L**	**1**
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	2
Vanadium	**7440-62-2**	**6020A**	**2.22**	**J**	**5.00**	**1.46**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**8.10**	**BJ**	**10.0**	**1.45**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **SW-3**
Date Sampled: **01/23/2009 1245**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1412	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: **S&ME, Inc.**
Description: **SW-3**
Date Sampled: **01/23/2009 1245**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 1951	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2212	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.00	0.261	ug/L	1
Barium	**7440-39-3**	**6020A**	**22.1**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.400	0.0280	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	ND		5.00	0.346	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.702**	**J**	**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.17**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.0770**	**J**	**1.00**	**0.0470**	**ug/L**	**2**
Nickel	**7440-02-0**	**6020A**	**0.643**	**J**	**5.00**	**0.277**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.00	0.253	ug/L	1
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	2
Vanadium	7440-62-2	6020A	ND		5.00	1.46	ug/L	1
Zinc	**7440-66-6**	**6020A**	**4.11**	**BJ**	**10.0**	**1.45**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **SW-4**
Date Sampled: **01/23/2009 1600**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1434	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: **S&ME, Inc.**
Description: **SW-4**
Date Sampled: **01/23/2009 1600**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 2001	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2222	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.00	0.261	ug/L	1
Barium	**7440-39-3**	**6020A**	**22.7**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	**7440-41-7**	**6020A**	**0.0320**	**J**	**0.400**	**0.0280**	**ug/L**	**1**
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	ND		5.00	0.346	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**1.13**	**J**	**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.62**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.796**	**J**	**1.00**	**0.0470**	**ug/L**	**2**
Nickel	**7440-02-0**	**6020A**	**0.609**	**J**	**5.00**	**0.277**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.00	0.253	ug/L	1
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	2
Vanadium	**7440-62-2**	**6020A**	**2.88**	**J**	**5.00**	**1.46**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**7.45**	**BJ**	**10.0**	**1.45**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **SW-5**
Date Sampled: **01/23/2009 1605**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1455	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: **S&ME, Inc.**
Description: **SW-5**
Date Sampled: **01/23/2009 1605**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 2011	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2232	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.00	0.261	ug/L	1
Barium	**7440-39-3**	**6020A**	**52.6**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	**7440-41-7**	**6020A**	**0.175**	**J**	**0.400**	**0.0280**	**ug/L**	**1**
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	**7440-47-3**	**6020A**	**2.35**	**J**	**5.00**	**0.346**	**ug/L**	**1**
Cobalt	**7440-48-4**	**6020A**	**6.30**		**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**3.19**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**3.30**		**1.00**	**0.0470**	**ug/L**	**2**
Nickel	**7440-02-0**	**6020A**	**1.77**	**J**	**5.00**	**0.277**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.00	0.253	ug/L	1
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	**7440-28-0**	**6020A**	**0.0960**	**J**	**0.500**	**0.0760**	**ug/L**	**2**
Vanadium	**7440-62-2**	**6020A**	**8.74**		**5.00**	**1.46**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**11.2**	**B**	**10.0**	**1.45**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Trip Blank**
Date Sampled: **01/24/2009 0950**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1516	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		98	70-130

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ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-1**
Date Sampled: **01/23/2009 1315**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-007**
Matrix: **Solid**
% Solids: **76.2** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/28/2009 2122	IVC		94236	7.64

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		17	5.8	ug/kg	1
Acrylonitrile	107-13-1	8260B	ND		43	5.2	ug/kg	1
Benzene	71-43-2	8260B	ND		4.3	0.94	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		4.3	0.86	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.3	1.4	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.3	0.60	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.3	1.5	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**3.4**	**J**	**8.6**	**2.1**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260B	ND		4.3	1.1	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.3	1.5	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.3	1.4	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.3	1.1	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.3	0.71	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.3	0.86	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.3	1.3	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.3	1.4	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.3	0.73	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		4.3	0.82	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		8.6	0.69	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.3	1.4	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.3	1.4	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.3	0.63	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.3	0.86	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.3	1.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.3	0.65	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.3	1.3	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.3	0.78	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.3	0.58	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.3	0.70	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.3	1.4	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		8.6	1.1	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		4.3	0.46	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		8.6	1.3	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.3	2.2	ug/kg	1
Styrene	100-42-5	8260B	ND		4.3	0.94	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		4.3	1.2	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.3	0.40	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.3	2.0	ug/kg	1
Toluene	108-88-3	8260B	ND		4.3	1.4	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.3	0.73	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.3	0.68	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		4.3	1.6	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.3	1.3	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.3	0.73	ug/kg	1

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Appendix I Metals

Client: S&ME, Inc.
Description: Soil-1
Date Sampled: 01/23/2009 1315
Date Received: 01/24/2009

Laboratory ID: KA24001-007
Matrix: Solid
% Solids: 76.2 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0147	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	0.35	J	0.66	0.23	mg/kg	1
Arsenic	7440-38-2	6010C	4.4		0.66	0.25	mg/kg	1
Barium	7440-39-3	6010C	39		1.7	0.12	mg/kg	1
Beryllium	7440-41-7	6010C	0.62		0.26	0.037	mg/kg	1
Cadmium	7440-43-9	6010C	0.10	J	0.13	0.014	mg/kg	1
Chromium	7440-47-3	6010C	31		0.33	0.066	mg/kg	1
Cobalt	7440-48-4	6010C	6.4		1.7	0.12	mg/kg	1
Copper	7440-50-8	6010C	11		0.33	0.064	mg/kg	1
Lead	7439-92-1	6010C	13		0.66	0.12	mg/kg	1
Nickel	7440-02-0	6010C	8.7		2.6	0.20	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.66	0.23	mg/kg	1
Silver	7440-22-4	6010C	ND		0.33	0.055	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.3	0.33	mg/kg	1
Vanadium	7440-62-2	6010C	64		3.3	0.20	mg/kg	1
Zinc	7440-66-6	6010C	28		3.3	0.44	mg/kg	1

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