DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Terraquest Environmental Consultants, P.c.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Ryan D. Kerins Phone: (919) 563-9091

E-mail: rdkerins@terraquestpc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Lee County Landfill	331 Landfill Rd, Sanford, NC 27332	53-01	.1600	October 19, 2015

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Ryan D. Kerins — Project Manager — (919) 563-9091

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — 10/30/15 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1185 GEOLOGIST MICHAEL J. BROWN

100 E. Ruffin St, Mebane, NC 27302

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

October 29, 2015

Jaclynne Drummond
Compliance Hydrogeologist
NCDEQ, Division of Waste Management
Solid Waste Section, Asheville Regional Office
2090 US Highway 70, Swannanoa, NC 28778

Re: Semi-Annual Groundwater Monitoring Event (October 2015)
Lee County Landfill - Sanford, NC
NCDWM – Solid Waste Section Permit # 53-01
Terraquest Project No. 02296

Dear Ms. Drummond:

On behalf of the Lee County Department of Public Works, Terraquest Environmental Consultants, P.C. is reporting the results of a biannual ground and surface water sampling event that took pace at the Lee County Landfill in Sanford, NC on October 19, 2015. In accordance with NCDWM-SW's reporting requirements, a Solid Waste Section Environmental Monitoring Reporting Form is attached. The data from the event including analytical results, groundwater elevations, and field measured groundwater parameter data is summarized on the attached Table 1. The location of the site is shown of Figure 1, the vicinity of the site on Figure 2, and site's layout on Figure 3. Figure 4 presents the recent potentiometric surface. The full analytical report is also attached. The following summarizes the event:

On October 19, 2015, Terraquest personnel sampled monitoring wells MW5, MW6, MW9, MW10, MW12, and MW14, and collected one surface water sample, SW2. An attempt was made to sample the SW1 location, however, no water was available. All water samples were analyzed per SW-846 8260B (VOCs) and SW-846 7470A (mercury) and 6010C (RCRA Metals). A trip blank was provided with the samples throughout the process. The blank was analyzed for 8260B Appendix I. All water samples were collected following technical methods and standard procedures as outlined on the enclosed sheets. Terraquest personnel also collected dissolved oxygen, pH, temperature, and conductivity measurements from each of the sampled monitoring wells following purging of the well and directly from the surface water body at the SW2 location. These measurements are listed on the attached Table 1.

The analytical results revealed detectable concentrations of petroleum-type compounds in monitoring well MW12 only. Benzene was reported at a concentration in excess of the

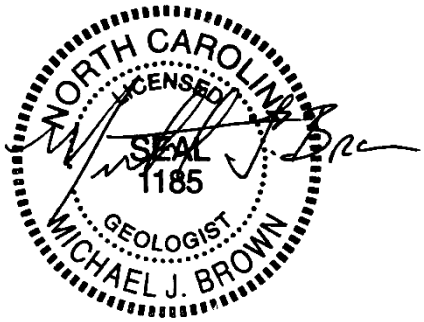
standard set forth under Title 15A of the North Carolina Administrative Code Subchapter 2L .0202(g). Results of the RCRA Metals analysis indicate that all of the monitoring wells and the surface water sample had a detection of at least one metal. The analytical results are summarized in Table 1.

A potentiometric surface map (Figure 4) depicting an interpreted groundwater flow direction at the site as measured on October 19, 2015 is attached. Based upon the water levels in monitoring wells, the groundwater flow direction is to the southeast toward Mare Brand Creek. This flow direction conforms with historical flow directions. Table 1 lists the groundwater elevations for the monitoring wells.

If you have any questions regarding the sampling event or analytical report, please contact Ryan Kerins at (919)-563-9091 or Mr. Joseph Cherry of the Lee County Public Works Department at (919)-774-8440. Thank you.

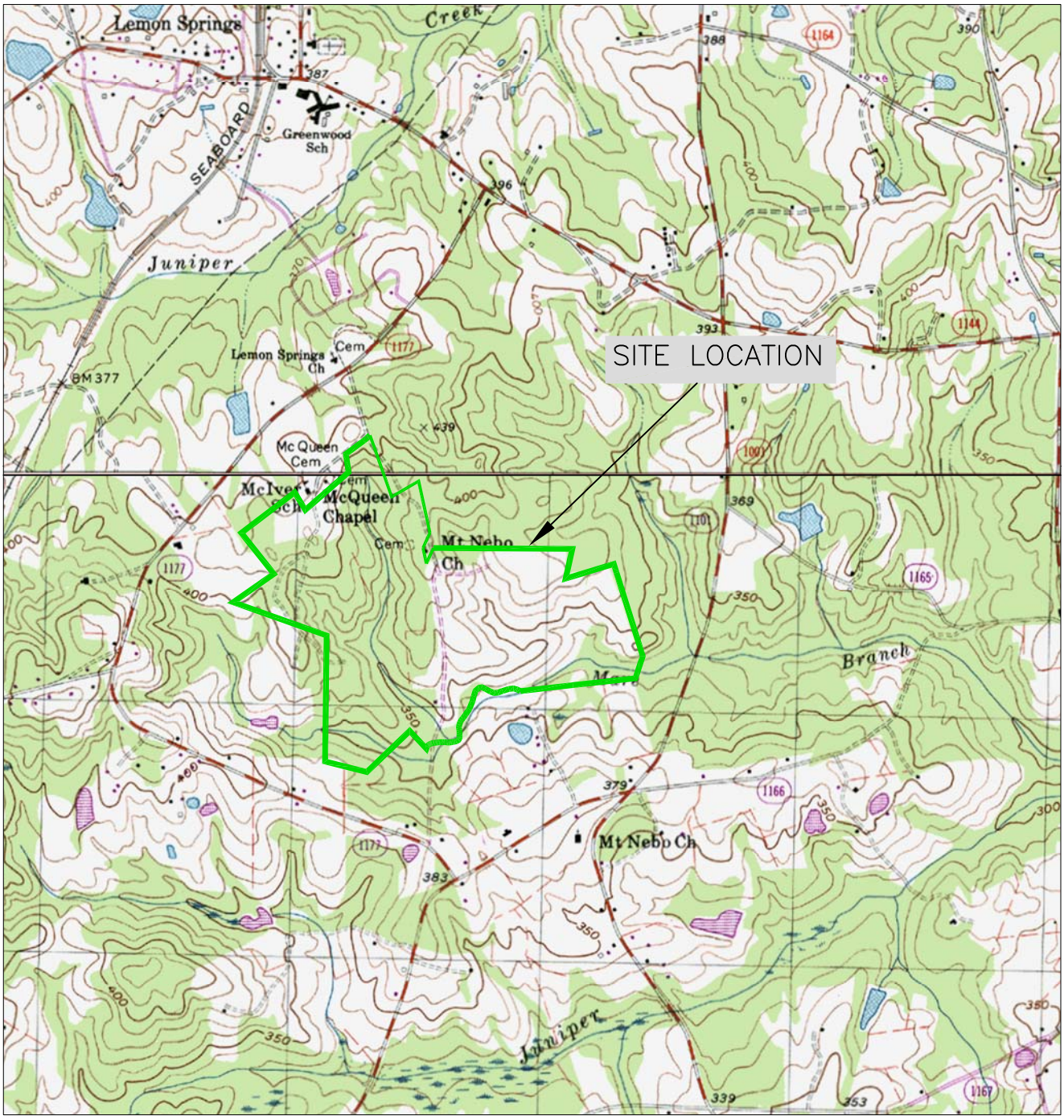
Sincerely,

TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.



Ryan D. Kerins
Project Manager

Michael J. Brown P.G.
President



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MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHICS – SANFORD AND MURCHISONTOWN, NC

GRAPHIC SCALE

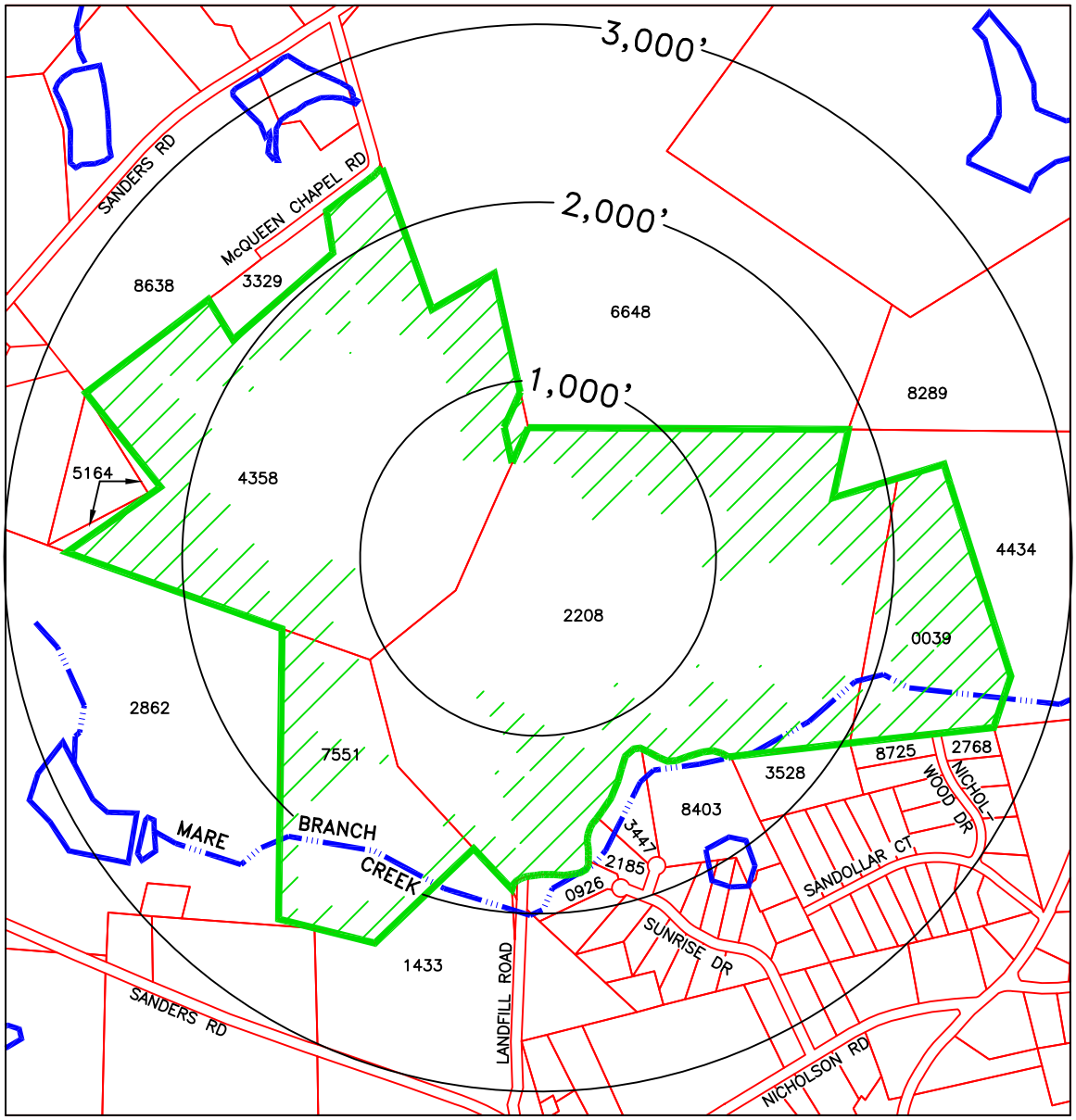
0' 2000' 4000'

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

SITE LOCATION MAP
LEE COUNTY LANDFILL
331 LANDFILL ROAD
LEE COUNTY, NORTH CAROLINA

LEE COUNTY PUBLIC WORKS SANFORD, NC

PROJECT NO.	02296	DRAWN BY:	RDK	DATE:	10/29/15
SCALE:	1" = 2000'	CHECKED BY:	JRG/MJB	FIGURE NO.	1



LEGEND

LANDFILL PROPERTY BOUNDARY

PARCEL BOUNDARIES

DISTANCE FROM LANDFILL CENTER

SURFACE WATER BODY

2106 TAX PARCEL ID (SEE TABLE 1)

GRAPHIC SCALE (1" = 1,000')

0' 500' 1,000' 2,000'

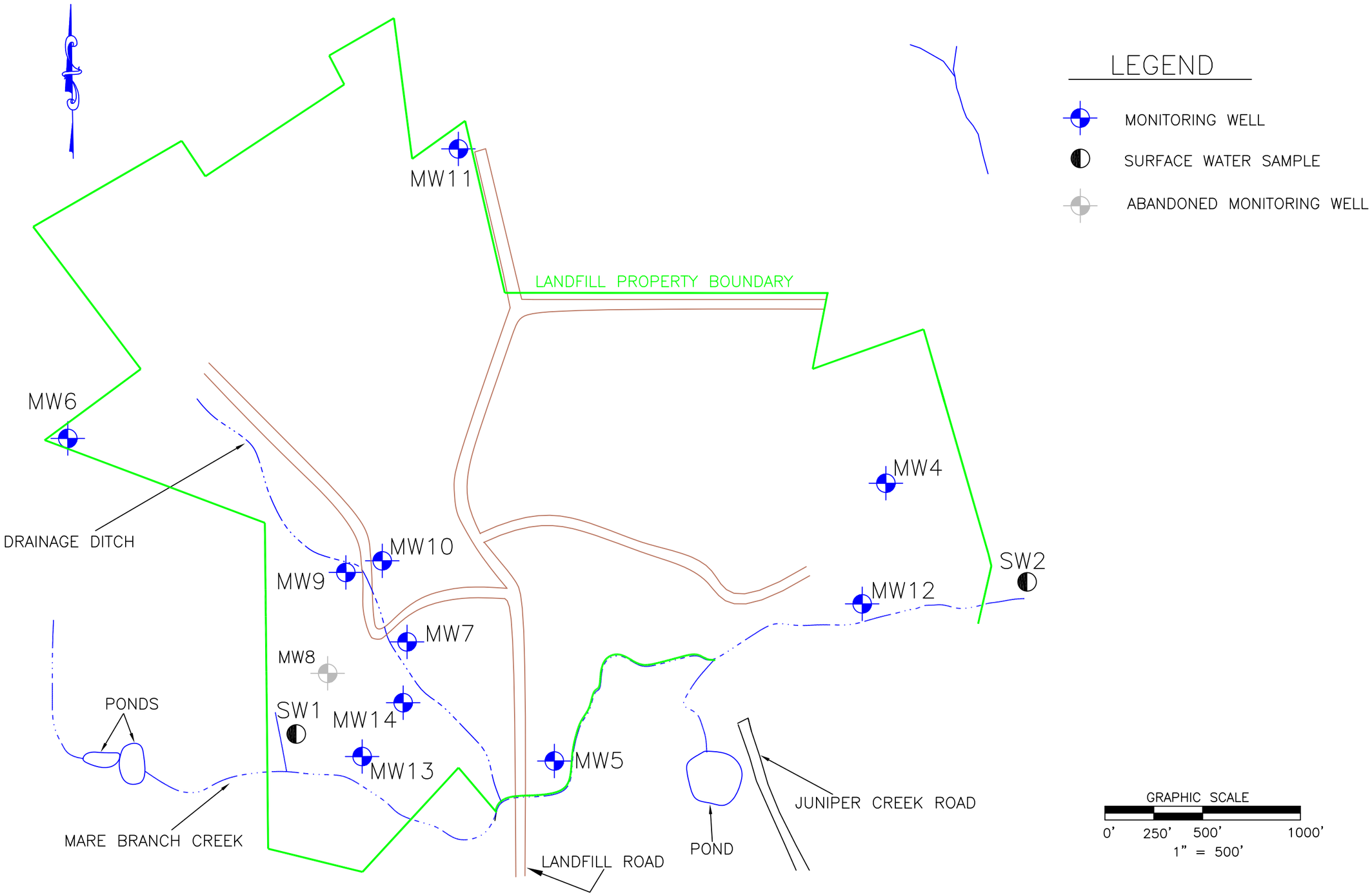
(NOTE: MAP ADAPTED FROM INFORMATION PROVIDED BY THE LEE COUNTY DEPARTMENT OF STRATEGIC SERVICES)

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

SITE VICINITY MAP
LEE COUNTY LANDFILL
331 LANDFILL ROAD
SANFORD, LEE COUNTY, NC 27332

LKEE COUNTY PUBLIC WORKS — SANFORD, NC

PROJECT NO.	02296	DRAWN BY:	RDK	DATE:	10/29/15
SCALE:	1" = 1,000'	CHECKED BY:	MJB	FIGURE NO.	2

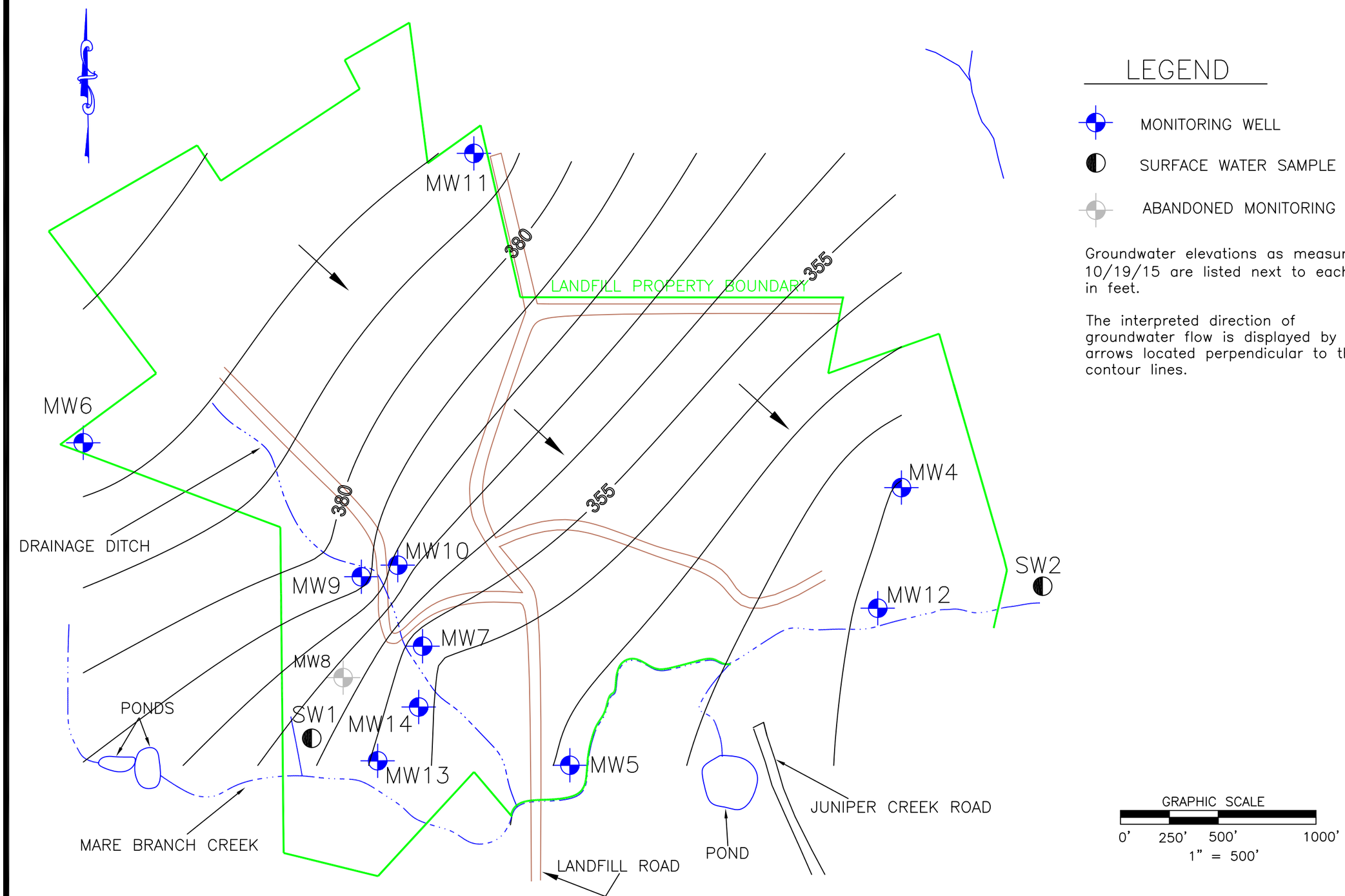


SITE LAYOUT MAP
LEE COUNTY LANDFILL

LEE COUNTY PUBLIC WORKS DEPARTMENT — SANFORD, NC

PROJECT NO: 02296	CHECKED BY: MJB/JRG	FIGURE NO. 3	
SCALE: 1" = 500'	DRAWN BY: JRG/RDK	DATE: 10/29/15	

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.



LEGEND

- MONITORING WELL
- SURFACE WATER SAMPLE
- ABANDONED MONITORING WELL

Groundwater elevations as measured on 10/19/15 are listed next to each well in feet.

The interpreted direction of groundwater flow is displayed by the arrows located perpendicular to the contour lines.

POTENTIOMETRIC SURFACE MAP (10/19/15)

LEE COUNTY LANDFILL

LEE COUNTY PUBLIC WORKS DEPARTMENT — SANFORD, NC

PROJECT NO: 02296	CHECKED BY: MJB/JRG	FIGURE NO. 4	
SCALE: 1" = 500'	DRAWN BY: JRG/RDK	DATE: 10/29/15	

TERRAquest ENVIRONMENTAL CONSULTANTS, P.C.

Table 1
Date: 10/30/15

GROUNDWATER DATA 10/19/15
Facility Name: Lee County Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE*	ANALYSIS DATE
53-01	MW4	SW328	328	Top Of Casing	345.9	feet					
53-01	MW4	SW318	318	Depth To Water	11.46	feet					
53-01	MW4		427	Groundwater Elevation	334.4	feet					
53-01	MW5	SW328	328	Top Of Casing	351.1	feet					
53-01	MW5	SW318	318	Depth To Water	6.53	feet					
53-01	MW5			Groundwater Elevation	344.6	feet					
53-01	MW5	SW320	320	pH (field)	6.35						
53-01	MW5	SW356	356	Dissolved Oxygen	1.21	mg/L					
53-01	MW5	SW325	325	Temperature	17.6	deg. C					
53-01	MW5	SW323	323	Conductivity	167	microS/sec					
53-01	MW5	71-43-2	16	Benzene	<0.16	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW5	108-88-3	196	Toluene	<0.14	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW5	100-41-4	110	Ethylbenzene	<0.19	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW5	1330-20-7	346	Total Xylenes	<0.71	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW5	7439-97-6	132	Mercury	0.0882	ug/L	BJ	1	10/19/15	*	10/27/15
53-01	MW5	7440-38-2	14	Arsenic	13.5	ug/L		1	10/19/15	*	10/28/15
53-01	MW5	7440-39-3	15	Barium	431	ug/L		1	10/19/15	*	10/28/15
53-01	MW5	7440-43-9	34	Cadmium	0.84	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW5	7440-47-3	51	Chromium	11.3	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW5	7439-92-1	131	Lead	30.4	ug/L		1	10/19/15	*	10/28/15
53-01	MW5	7782-49-2	183	Selenium	<3.09	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW5	7440-22-4	184	Silver	<0.26	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW6	SW328	328	Top Of Casing	402.1	feet					
53-01	MW6	SW318	318	Depth To Water	9.41	feet					
53-01	MW6		427	Groundwater Elevation	392.7	feet					
53-01	MW6	SW320	320	pH (field)	4.06						
53-01	MW6	SW356	356	Dissolved Oxygen	1.45	mg/L					
53-01	MW6	SW325	325	Temperature	16.3	deg. C					
53-01	MW6	SW324	324	Conductivity	37	microS/sec					
53-01	MW6	71-43-2	16	Benzene	<0.16	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW6	108-88-3	196	Toluene	<0.14	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW6	100-41-4	110	Ethylbenzene	<0.19	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW6	1330-20-7	346	Total Xylenes	<0.71	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW6	7439-97-6	132	Mercury	0.0188	ug/L	BJ	1	10/19/15	*	10/27/15
53-01	MW6	7440-38-2	14	Arsenic	<2.66	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW6	7440-39-3	15	Barium	45	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW6	7440-43-9	34	Cadmium	<0.056	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW6	7440-47-3	51	Chromium	0.44	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW6	7439-92-1	131	Lead	<0.744	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW6	7782-49-2	183	Selenium	<3.09	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW6	7440-22-4	184	Silver	<20	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW7	SW328	328	Top Of Casing	360.3	feet					
53-01	MW7	SW318	318	Depth To Water	9.15	feet					
53-01	MW7		427	Groundwater Elevation	351.2	feet					

Note:
1. * Technically, this sample set didn't have any extractions. The metals were prepped and digested. The volatiles aren't involved in any extraction process. They are loaded directly onto the instrument.

Table 1 - CONTINUED
Date: 10/30/15

GROUNDWATER DATA 10/19/15
Facility Name: Lee County Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE*	ANALYSIS DATE
53-01	MW9	SW328	328	Top Of Casing	384.2	feet					
53-01	MW9	SW318	318	Depth To Water	6.38	feet					
53-01	MW9		427	Groundwater Elevation	377.8	feet					
53-01	MW9	SW320	320	pH (field)	3.91						
53-01	MW9	SW356	356	Dissolved Oxygen	5.09	mg/L					
53-01	MW9	SW325	325	Temperature	17.8	deg. C					
53-01	MW9	SW324	324	Conductivity	93	microS/sec					
53-01	MW9	71-43-2	16	Benzene	<0.16	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW9	108-88-3	196	Toluene	<0.14	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW9	100-41-4	110	Ethylbenzene	<0.19	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW9	1330-20-7	346	Total Xylenes	<0.71	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW9	7439-97-6	132	Mercury	<0.067	ug/L	BJ	1	10/19/15	*	10/27/15
53-01	MW9	7440-38-2	14	Arsenic	<10	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW9	7440-39-3	15	Barium	156	ug/L		1	10/19/15	*	10/28/15
53-01	MW9	7440-43-9	34	Cadmium	<0.056	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW9	7440-47-3	51	Chromium	2.24	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW9	7439-92-1	131	Lead	2.56	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW9	7782-49-2	183	Selenium	3.2	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW9	7440-22-4	184	Silver	<0.26	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW10	SW328	328	Top Of Casing	377.0	feet					
53-01	MW10	SW318	318	Depth To Water	9.04	feet					
53-01	MW10		427	Groundwater Elevation	368.0	feet					
53-01	MW10	SW320	320	pH (field)	3.85						
53-01	MW10	SW356	356	Dissolved Oxygen	3.26	mg/L					
53-01	MW10	SW325	325	Temperature	18.1	deg. C					
53-01	MW10	SW324	324	Conductivity	110	microS/sec					
53-01	MW10	71-43-2	16	Benzene	<0.16	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW10	108-88-3	196	Toluene	<0.14	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW10	100-41-4	110	Ethylbenzene	<0.19	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW10	1330-20-7	346	Total Xylenes	<0.71	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW10	7439-97-6	132	Mercury	0.116	ug/L	BJ	1	10/19/15	*	10/27/15
53-01	MW10	7440-38-2	14	Arsenic	<2.66	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW10	7440-39-3	15	Barium	187	ug/L		1	10/19/15	*	10/28/15
53-01	MW10	7440-43-9	34	Cadmium	<0.056	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW10	7440-47-3	51	Chromium	4.32	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW10	7439-92-1	131	Lead	1.56	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW10	7782-49-2	183	Selenium	3.09	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW10	7440-22-4	184	Silver	<0.26	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW11	SW328	328	Top Of Casing	399.6	feet					
53-01	MW11	SW318	318	Depth To Water	10.40	feet					
53-01	MW11		427	Groundwater Elevation	389.2	feet					
53-01	MW12	SW328	328	Top Of Casing	337.4	feet					
53-01	MW12	SW318	318	Depth To Water	3.38	feet					
53-01	MW12		427	Groundwater Elevation	334	feet					
53-01	MW12	SW320	320	pH (field)	5.75						
53-01	MW12	SW356	356	Dissolved Oxygen	1.08	mg/L					
53-01	MW12	SW325	325	Temperature	18.3	deg. C					
53-01	MW12	SW324	324	Conductivity	1,738	microS/sec					
53-01	MW12	71-43-2	16	Benzene	3.59	ug/L		1	10/19/15	*	10/26/15
53-01	MW12	108-88-3	196	Toluene	<0.14	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW12	100-41-4	110	Ethylbenzene	<0.19	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW12	1330-20-7	346	Total Xylenes	<0.71	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW12	108-90-7	39	Chlorobenzene	22.1	ug/L		1	10/19/15	*	10/26/15
53-01	MW12	75-00-3	41	Chloroethane	30.8	ug/L		1	10/19/15	*	10/26/15
53-01	MW12	108-20-3	366	Isopropyl ether	0.39	ug/L	J	1	10/19/15	*	10/26/15
53-01	MW12	98-82-8	367	Isopropylbenzene	0.84	ug/L	J	1	10/19/15	*	10/26/15
53-01	MW12	1634-04-4	369	Methyl tert-butyl ether	0.43	ug/L	J	1	10/19/15	*	10/26/15
53-01	MW12	106-46-7	71	1,4-Dichlorobenzene	4.73	ug/L		1	10/19/15	*	10/26/15
53-01	MW12	75-34-3	75	1,1-Dichloroethane	3.22	ug/L		1	10/19/15	*	10/26/15
53-01	MW12	7439-97-6	132	Mercury	0.047	ug/L	BJ	1	10/19/15	*	10/27/15
53-01	MW12	7440-38-2	14	Arsenic	7.92	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW12	7440-39-3	15	Barium	140	ug/L		1	10/19/15	*	10/28/15
53-01	MW12	7440-43-9	34	Cadmium	2.24	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW12	7440-47-3	51	Chromium	2.96	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW12	7439-92-1	131	Lead	22.7	ug/L		1	10/19/15	*	10/28/15
53-01	MW12	7782-49-2	183	Selenium	<0.309	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW12	7440-22-4	184	Silver	<0.26	ug/L	U	1	10/19/15	*	10/28/15

Note:
1. * Technically, this sample set didn't have any extractions. The metals were prepped and digested. The volatiles aren't involved in any extraction process. They are loaded directly onto the instrument.

Table 1 - CONTINUED
Date: 10/30/15

GROUNDWATER DATA 10/19/15
Facility Name: Lee County Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE*	ANALYSIS DATE
53-01	MW13	SW328	328	Top Of Casing	363.93	feet					
53-01	MW13	SW318	318	Depth To Water	9.69	feet					
53-01	MW13		427	Groundwater Elevation	354.2	feet					
53-01	MW14	SW328	328	Top Of Casing	358.61	feet					
53-01	MW14	SW318	318	Depth To Water	7.41	feet					
53-01	MW14		427	Groundwater Elevation	351.2	feet					
53-01	MW14	SW320	320	pH (field)	5.85						
53-01	MW14	SW356	356	Dissolved Oxygen	0.97	mg/L					
53-01	MW14	SW325	325	Temperature	16.5	deg. C					
53-01	MW14	SW324	324	Conductivity	110	microS/sec					
53-01	MW14	71-43-2	16	Benzene	<0.16	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW14	108-88-3	196	Toluene	<0.14	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW14	100-41-4	110	Ethylbenzene	<0.19	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW14	1330-20-7	346	Total Xylenes	<0.71	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW14	7439-97-6	132	Mercury	0.0748	ug/L	BJ	1	10/19/15	*	10/27/15
53-01	MW14	7440-38-2	14	Arsenic	4.32	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW14	7440-39-3	15	Barium	207	ug/L		1	10/19/15	*	10/28/15
53-01	MW14	7440-43-9	34	Cadmium	0.52	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW14	7440-47-3	51	Chromium	11.2	ug/L	J	1	10/19/15	*	10/28/15
53-01	MW14	7439-92-1	131	Lead	75.7	ug/L		1	10/19/15	*	10/28/15
53-01	MW14	7782-49-2	183	Selenium	<3.09	ug/L	U	1	10/19/15	*	10/28/15
53-01	MW14	7440-22-4	184	Silver	<0.26	ug/L	U	1	10/19/15	*	10/28/15
53-01	SW2	SW320	320	pH (field)	5.73						
53-01	SW2	SW356	356	Dissolved Oxygen	6.59	mg/L					
53-01	SW2	SW325	325	Temperature	13.1	deg. C					
53-01	SW2	SW324	324	Conductivity	118	microS/sec					
53-01	SW2	71-43-2	16	Benzene	<0.16	ug/L	U	1	10/19/15	*	10/26/15
53-01	SW2	108-88-3	196	Toluene	<0.14	ug/L	U	1	10/19/15	*	10/26/15
53-01	SW2	100-41-4	110	Ethylbenzene	<0.19	ug/L	U	1	10/19/15	*	10/26/15
53-01	SW2	1330-20-7	346	Total Xylenes	<0.71	ug/L	U	1	10/19/15	*	10/26/15
53-01	SW2	7439-97-6	132	Mercury	0.0608	ug/L	BJ	1	10/19/15	*	10/27/15
53-01	SW2	7440-38-2	14	Arsenic	<2.66	ug/L	U	1	10/19/15	*	10/28/15
53-01	SW2	7440-39-3	15	Barium	80.3	ug/L		1	10/19/15	*	10/28/15
53-01	SW2	7440-43-9	34	Cadmium	0.28	ug/L	J	1	10/19/15	*	10/28/15
53-01	SW2	7440-47-3	51	Chromium	1.16	ug/L	J	1	10/19/15	*	10/28/15
53-01	SW2	7439-92-1	131	Lead	<0.744	ug/L	U	1	10/19/15	*	10/28/15
53-01	SW2	7782-49-2	183	Selenium	<3.09	ug/L	U	1	10/19/15	*	10/28/15
53-01	SW2	7440-22-4	184	Silver	<0.26	ug/L	U	1	10/19/15	*	10/28/15
53-01	TRIP BLANK	71-43-2	16	Benzene	<0.16	ug/L	U	1	10/19/15	*	10/26/15
53-01	TRIP BLANK	108-88-3	196	Toluene	<0.14	ug/L	U	1	10/19/15	*	10/26/15
53-01	TRIP BLANK	100-41-4	110	Ethylbenzene	<0.19	ug/L	U	1	10/19/15	*	10/26/15
53-01	TRIP BLANK	1330-20-7	346	Total Xylenes	<0.71	ug/L	U	1	10/19/15	*	10/26/15
53-01	MW12	1634-04-4	369	Methyl tert-butyl ether	<0.18	ug/L	U	1	10/19/15	*	10/26/15

Note:
1. * Technically, this sample set didn't have any extractions. The metals were prepped and digested. The volatiles aren't involved in any extraction process. They are loaded directly onto the instrument.

TECHNICAL METHODS/STANDARD PROCEDURES

Groundwater Sampling

Groundwater samples are collected from temporary or permanent monitoring wells according to established sampling protocol. When multiple monitoring wells or sampling points are sampled, sampling is completed beginning with the least contaminated well to the most contaminated well, if it is known. When permanent monitoring wells for petroleum sites are sampled, the well is purged of a minimum of three well-bore volumes prior to sample collection in order to assure that sampled water is representative of aquifer conditions. In temporary wells, the first water which migrates into the open borehole is sampled. Samples from both temporary and permanent monitoring wells are collected using individually wrapped disposable polyethylene bailers by field personnel wearing disposable nitrile gloves. Only one well is sampled with a given bailer in order to prevent sample cross-contamination. During both well purging and sampling, proper protective clothing and equipment is used and is dependent upon the type and level of contaminants present. Also, field personnel change gloves between different samples to reduce the chance of cross-contamination. Water samples are transferred from the bailer to laboratory-prepared sampling containers using slow emptying devices to reduce the chance of contamination loss through volatilization. Preservatives, such as acids, are provided by the laboratory in pre-prepared containers in which collected samples are placed if in-field preservation is necessary. The samples are labeled with the project name, project number, sample identification, required analysis, and date and time of collection. The samples are placed on ice, shipped to a certified laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Surface Water Sampling

Surface water samples, specifically samples from creeks or streams, are collected from a moving/flowing portion of the creek or stream to ensure that stagnant water is not collected. Field personnel are careful to collect samples from flowing areas that are not so turbulent as to cause a loss of volatile contaminants which might have been contained in the creek's/stream's water. Samples are collected by field personnel wearing disposable nitrile gloves. Field personnel change gloves between different locations to reduce the chance of cross-contamination. Samples are collected directly from the appropriate creek or stream location and placed into the appropriate laboratory-prepared containers. Preservatives, such as acids, are provided by the laboratory in pre-prepared containers in which collected samples are placed if in-field preservation is necessary. The samples are labeled with the project name, project number, sample identification, required analysis, and date and time of collection. The samples are cooled on ice to approximately four degrees centigrade, shipped to a certified laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Field Measurements

Field measurements taken to determine the pH, conductivity, temperature, and dissolved oxygen concentration of a particular groundwater sample are taken directly after a particular monitoring well has been adequately purged. This ensures that the groundwater parameter data collected is representative of the aquifer conditions at a given location. Once purging of the monitoring well is complete, the decontaminated probe head and cord of the appropriate unit is lowered into the required monitoring well. If the depth to water in a specific monitoring well is greater than the length of cord for a particular unit, a new, disposable bailer is slowly lowered into the appropriate monitoring well and a representative groundwater sample is retrieved. A slow pouring device is fitted onto the end of the disposable bailer and the sample is slowly poured into a new, disposable plastic cup. Groundwater parameter data are then collected from the groundwater in the cup using the required unit.

For pH, conductivity, and temperature, a Hanna Instruments Model 991300 portable meter is utilized. This unit is periodically calibrated and maintained in accordance with the unit's operations manual by field personnel. Prior to data collection, the unit is properly decontaminated to prevent cross-contamination. The unit is decontaminated between each sample. The procedure used for sample measurement involves lowering the meter's probe into the new, disposable cup containing the groundwater sample to be measured and slowly stirring the probe to force groundwater across the probe's membrane. The measurements displayed by the meter are then recorded.

For dissolved oxygen concentration measurements, a YSI® Model 55 Handheld Dissolved Oxygen System is utilized. This unit is periodically calibrated and maintained in accordance with the unit's operations manual by field personnel. Prior to data collection, the unit is properly decontaminated to prevent cross-contamination. The unit is decontaminated between each sample. The procedure used for sample measurement involves adjusting the unit for the correct altitude where the sampling will take place and adjusting the reported units desired. Once this is done, the unit's probe is inserted into the groundwater sample to be measured and the probe is slowly stirred to force the groundwater across the probe's membrane. The measurements displayed by the unit are then recorded.

Analytical Report 517846

for

Terraquest Environmental Consultants, P.C.

Project Manager: Ryan Kerins

Lee Co. Landfill

02296

28-OCT-15

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

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28-OCT-15

Project Manager: **Ryan Kerins**
Terraquest Environmental Consultants, P.C.
100 E. Ruffin Street
Mebane, NC 27302

Reference: XENCO Report No(s): **517846**
Lee Co. Landfill
Project Address: NC

Ryan Kerins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 517846. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 517846 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW5	W	10-19-15 13:45		517846-001
MW6	W	10-19-15 12:05		517846-002
MW9	W	10-19-15 11:15		517846-003
MW10	W	10-19-15 11:35		517846-004
MW12	W	10-19-15 13:15		517846-005
MW14	W	10-19-15 10:50		517846-006
SW2	W	10-19-15 14:30		517846-007
Trip Blank	W	10-19-15 00:00		517846-008

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Hits Summary 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id : **MW5**
Lab Sample Id : 517846-001

Matrix : Ground Water
Date Collected : 10.19.15 13.45
Date Received : 10.21.15 09.50

% Moisture :

Analytical Method : Mercury by SW-846 7470A
Seq Number 979955

Prep Method: SW7470P
Date Prep: 10.23.15 10.33

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.0000882	mg/L	10.27.15 07.57	BJ	1

Analytical Method : RCRA Metals by SW846-6010C
Seq Number 980071

Prep Method: SW3010A_LL
Date Prep: 10.28.15 12.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	0.0135	mg/L	10.28.15 14.15		1
Barium	7440-39-3	0.431	mg/L	10.28.15 14.15		1
Cadmium	7440-43-9	0.000840	mg/L	10.28.15 14.15	J	1
Chromium	7440-47-3	0.0113	mg/L	10.28.15 14.15	J	1
Lead	7439-92-1	0.0304	mg/L	10.28.15 14.15		1

Sample Id : **MW6**
Lab Sample Id : 517846-002

Matrix : Ground Water
Date Collected : 10.19.15 12.05
Date Received : 10.21.15 09.50

% Moisture :

Analytical Method : Mercury by SW-846 7470A
Seq Number 979955

Prep Method: SW7470P
Date Prep: 10.23.15 10.33

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.0000188	mg/L	10.27.15 08.15	BJ	1

Analytical Method : RCRA Metals by SW846-6010C
Seq Number 980071

Prep Method: SW3010A_LL
Date Prep: 10.28.15 12.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Barium	7440-39-3	0.0450	mg/L	10.28.15 14.32	J	1
Chromium	7440-47-3	0.000440	mg/L	10.28.15 14.32	J	1

Hits Summary 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id : **MW9**
Lab Sample Id : 517846-003

Matrix : Ground Water
Date Collected : 10.19.15 11.15
Date Received : 10.21.15 09.50

% Moisture :

Analytical Method : Mercury by SW-846 7470A
Seq Number 979955

Prep Method: SW7470P
Date Prep: 10.23.15 10.33

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.0000670	mg/L	10.27.15 08.18	BJ	1

Analytical Method : RCRA Metals by SW846-6010C
Seq Number 980071

Prep Method: SW3010A_LL
Date Prep: 10.28.15 12.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Barium	7440-39-3	0.156	mg/L	10.28.15 14.39		1
Chromium	7440-47-3	0.00224	mg/L	10.28.15 14.39	J	1
Lead	7439-92-1	0.00256	mg/L	10.28.15 14.39	J	1
Selenium	7782-49-2	0.00320	mg/L	10.28.15 14.39	J	1

Sample Id : **MW10**
Lab Sample Id : 517846-004

Matrix : Ground Water
Date Collected : 10.19.15 11.35
Date Received : 10.21.15 09.50

% Moisture :

Analytical Method : Mercury by SW-846 7470A
Seq Number 979955

Prep Method: SW7470P
Date Prep: 10.23.15 10.33

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.000116	mg/L	10.27.15 08.21	BJ	1

Analytical Method : RCRA Metals by SW846-6010C
Seq Number 980071

Prep Method: SW3010A_LL
Date Prep: 10.28.15 12.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Barium	7440-39-3	0.187	mg/L	10.28.15 14.41		1
Chromium	7440-47-3	0.00432	mg/L	10.28.15 14.41	J	1
Lead	7439-92-1	0.00156	mg/L	10.28.15 14.41	J	1

Hits Summary 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id : **MW12**
Lab Sample Id : 517846-005

Matrix : Ground Water
Date Collected : 10.19.15 13.15
Date Received : 10.21.15 09.50

% Moisture :

Analytical Method : Mercury by SW-846 7470A
Seq Number 979955

Prep Method: SW7470P
Date Prep: 10.23.15 10.33

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.0000474	mg/L	10.27.15 08.24	BJ	1

Analytical Method : RCRA Metals by SW846-6010C
Seq Number 980071

Prep Method: SW3010A_LL
Date Prep: 10.28.15 12.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	0.00792	mg/L	10.28.15 14.43	J	1
Barium	7440-39-3	1.40	mg/L	10.28.15 14.43		1
Cadmium	7440-43-9	0.00224	mg/L	10.28.15 14.43	J	1
Chromium	7440-47-3	0.00296	mg/L	10.28.15 14.43	J	1
Lead	7439-92-1	0.0227	mg/L	10.28.15 14.43		1

Analytical Method : VOCs by SW-846 8260B
Seq Number 979967

Prep Method: SW5030B
Date Prep: 10.26.15 12.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
1,1-Dichloroethane	75-34-3	3.22	ug/L	10.26.15 17.22		1
1,4-Dichlorobenzene	106-46-7	4.73	ug/L	10.26.15 17.22		1
Benzene	71-43-2	3.59	ug/L	10.26.15 17.22		1
Chlorobenzene	108-90-7	22.1	ug/L	10.26.15 17.22		1
Chloroethane	75-00-3	30.8	ug/L	10.26.15 17.22		1
Isopropyl ether	108-20-3	0.390	ug/L	10.26.15 17.22	J	1
Isopropylbenzene	98-82-8	0.840	ug/L	10.26.15 17.22	J	1
Methyl tert-butyl ether	1634-04-4	0.430	ug/L	10.26.15 17.22	J	1

Hits Summary 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id : **MW14**
Lab Sample Id : 517846-006

Matrix : Ground Water
Date Collected : 10.19.15 10.50
Date Received : 10.21.15 09.50

% Moisture :

Analytical Method : Mercury by SW-846 7470A
Seq Number 979955

Prep Method: SW7470P
Date Prep: 10.23.15 10.33

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.0000748	mg/L	10.27.15 08.27	BJ	1

Analytical Method : RCRA Metals by SW846-6010C
Seq Number 980071

Prep Method: SW3010A_LL
Date Prep: 10.28.15 12.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	0.00432	mg/L	10.28.15 14.44	J	1
Barium	7440-39-3	0.207	mg/L	10.28.15 14.44		1
Cadmium	7440-43-9	0.000520	mg/L	10.28.15 14.44	J	1
Chromium	7440-47-3	0.0112	mg/L	10.28.15 14.44	J	1
Lead	7439-92-1	0.0757	mg/L	10.28.15 14.44		1

Sample Id : **SW2**
Lab Sample Id : 517846-007

Matrix : Ground Water
Date Collected : 10.19.15 14.30
Date Received : 10.21.15 09.50

% Moisture :

Analytical Method : Mercury by SW-846 7470A
Seq Number 979955

Prep Method: SW7470P
Date Prep: 10.23.15 10.33

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.0000608	mg/L	10.27.15 08.30	BJ	1

Analytical Method : RCRA Metals by SW846-6010C
Seq Number 980071

Prep Method: SW3010A_LL
Date Prep: 10.28.15 12.48

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Barium	7440-39-3	0.0803	mg/L	10.28.15 14.46		1
Cadmium	7440-43-9	0.000280	mg/L	10.28.15 14.46	J	1
Chromium	7440-47-3	0.00116	mg/L	10.28.15 14.46	J	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW5** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-001 Date Collected: 10.19.15 13.45

Analytical Method: Mercury by SW-846 7470A Prep Method: SW7470P

Tech: HAP % Moisture:

Analyst: ABA Date Prep: 10.23.15 10.33

Seq Number: 979955

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0000882**	0.00200	0.0000101	mg/L	10.27.15 07.57	BJ	1

Analytical Method: RCRA Metals by SW846-6010C Prep Method: SW3010A_LL

Tech: ABA % Moisture:

Analyst: ABA Date Prep: 10.28.15 12.48

Seq Number: 980071

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	**0.0135**	0.0100	0.00266	mg/L	10.28.15 14.15		1
Barium	7440-39-3	**0.431**	0.0500	0.000916	mg/L	10.28.15 14.15		1
Cadmium	7440-43-9	**0.000840**	0.00500	0.0000560	mg/L	10.28.15 14.15	J	1
Chromium	7440-47-3	**0.0113**	0.0500	0.000160	mg/L	10.28.15 14.15	J	1
Lead	7439-92-1	**0.0304**	0.0100	0.000744	mg/L	10.28.15 14.15		1
Selenium	7782-49-2	U	0.0500	0.00309	mg/L	10.28.15 14.15	U	1
Silver	7440-22-4	U	0.0200	0.000260	mg/L	10.28.15 14.15	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW5**
Lab Sample Id: 517846-001

Matrix: Ground Water
Date Collected: 10.19.15 13.45

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 15.47	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 15.47	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 15.47	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	10.26.15 15.47	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 15.47	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 15.47	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 15.47	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 15.47	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 15.47	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 15.47	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 15.47	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 15.47	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 15.47	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 15.47	UX	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 15.47	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 15.47	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 15.47	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	10.26.15 15.47	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 15.47	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 15.47	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 15.47	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 15.47	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 15.47	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 15.47	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 15.47	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 15.47	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	10.26.15 15.47	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 15.47	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 15.47	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 15.47	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 15.47	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 15.47	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 15.47	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	10.26.15 15.47	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 15.47	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	10.26.15 15.47	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 15.47	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 15.47	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 15.47	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW5**
Lab Sample Id: 517846-001

Matrix: Ground Water
Date Collected: 10.19.15 13.45

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 15.47	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 15.47	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 15.47	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 15.47	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	10.26.15 15.47	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	10.26.15 15.47	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 15.47	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	10.26.15 15.47	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 15.47	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 15.47	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 15.47	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 15.47	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 15.47	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 15.47	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 15.47	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 15.47	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 15.47	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 15.47	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 15.47	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 15.47	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 15.47	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 15.47	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 15.47	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 15.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	86	%	53-159	10.26.15 15.47	
4-Bromofluorobenzene	460-00-4	98	%	30-186	10.26.15 15.47	
Toluene-D8	2037-26-5	96	%	70-130	10.26.15 15.47	

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW6** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-002 Date Collected: 10.19.15 12.05

Analytical Method: Mercury by SW-846 7470A Prep Method: SW7470P

Tech: HAP % Moisture:

Analyst: ABA Date Prep: 10.23.15 10.33

Seq Number: 979955

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0000188**	0.00200	0.0000101	mg/L	10.27.15 08.15	BJ	1

Analytical Method: RCRA Metals by SW846-6010C Prep Method: SW3010A_LL

Tech: ABA % Moisture:

Analyst: ABA Date Prep: 10.28.15 12.48

Seq Number: 980071

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	U	0.0100	0.00266	mg/L	10.28.15 14.32	U	1
Barium	7440-39-3	**0.0450**	0.0500	0.000916	mg/L	10.28.15 14.32	J	1
Cadmium	7440-43-9	U	0.00500	0.0000560	mg/L	10.28.15 14.32	U	1
Chromium	7440-47-3	**0.000440**	0.0500	0.000160	mg/L	10.28.15 14.32	J	1
Lead	7439-92-1	U	0.0100	0.000744	mg/L	10.28.15 14.32	U	1
Selenium	7782-49-2	U	0.0500	0.00309	mg/L	10.28.15 14.32	U	1
Silver	7440-22-4	U	0.0200	0.000260	mg/L	10.28.15 14.32	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW6**
Lab Sample Id: 517846-002

Matrix: Ground Water
Date Collected: 10.19.15 12.05

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 16.11	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 16.11	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 16.11	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	10.26.15 16.11	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 16.11	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 16.11	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 16.11	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 16.11	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 16.11	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 16.11	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 16.11	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 16.11	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 16.11	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 16.11	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 16.11	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 16.11	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 16.11	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	10.26.15 16.11	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 16.11	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 16.11	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 16.11	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 16.11	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 16.11	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 16.11	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 16.11	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 16.11	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	10.26.15 16.11	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 16.11	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 16.11	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 16.11	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 16.11	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 16.11	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 16.11	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	10.26.15 16.11	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 16.11	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	10.26.15 16.11	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 16.11	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 16.11	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 16.11	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW6**
Lab Sample Id: 517846-002

Matrix: Ground Water
Date Collected: 10.19.15 12.05

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 16.11	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 16.11	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 16.11	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 16.11	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	10.26.15 16.11	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	10.26.15 16.11	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 16.11	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	10.26.15 16.11	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 16.11	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 16.11	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 16.11	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 16.11	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 16.11	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 16.11	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 16.11	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 16.11	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 16.11	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 16.11	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 16.11	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 16.11	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 16.11	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 16.11	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 16.11	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 16.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	88	%	53-159	10.26.15 16.11	
4-Bromofluorobenzene	460-00-4	97	%	30-186	10.26.15 16.11	
Toluene-D8	2037-26-5	98	%	70-130	10.26.15 16.11	

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW9** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-003 Date Collected: 10.19.15 11.15

Analytical Method: Mercury by SW-846 7470A Prep Method: SW7470P

Tech: HAP % Moisture:

Analyst: ABA Date Prep: 10.23.15 10.33

Seq Number: 979955

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0000670**	0.00200	0.0000101	mg/L	10.27.15 08.18	BJ	1

Analytical Method: RCRA Metals by SW846-6010C Prep Method: SW3010A_LL

Tech: ABA % Moisture:

Analyst: ABA Date Prep: 10.28.15 12.48

Seq Number: 980071

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	U	0.0100	0.00266	mg/L	10.28.15 14.39	U	1
Barium	7440-39-3	**0.156**	0.0500	0.000916	mg/L	10.28.15 14.39		1
Cadmium	7440-43-9	U	0.00500	0.0000560	mg/L	10.28.15 14.39	U	1
Chromium	7440-47-3	**0.00224**	0.0500	0.000160	mg/L	10.28.15 14.39	J	1
Lead	7439-92-1	**0.00256**	0.0100	0.000744	mg/L	10.28.15 14.39	J	1
Selenium	7782-49-2	**0.00320**	0.0500	0.00309	mg/L	10.28.15 14.39	J	1
Silver	7440-22-4	U	0.0200	0.000260	mg/L	10.28.15 14.39	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW9**
Lab Sample Id: 517846-003

Matrix: Ground Water
Date Collected: 10.19.15 11.15

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 16.35	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 16.35	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 16.35	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	10.26.15 16.35	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 16.35	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 16.35	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 16.35	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 16.35	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 16.35	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 16.35	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 16.35	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 16.35	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 16.35	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 16.35	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 16.35	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 16.35	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 16.35	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	10.26.15 16.35	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 16.35	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 16.35	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 16.35	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 16.35	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 16.35	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 16.35	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 16.35	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 16.35	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	10.26.15 16.35	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 16.35	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 16.35	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 16.35	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 16.35	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 16.35	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 16.35	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	10.26.15 16.35	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 16.35	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	10.26.15 16.35	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 16.35	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 16.35	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 16.35	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW9**
Lab Sample Id: 517846-003

Matrix: Ground Water
Date Collected: 10.19.15 11.15

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 16.35	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 16.35	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 16.35	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 16.35	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	10.26.15 16.35	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	10.26.15 16.35	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 16.35	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	10.26.15 16.35	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 16.35	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 16.35	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 16.35	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 16.35	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 16.35	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 16.35	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 16.35	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 16.35	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 16.35	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 16.35	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 16.35	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 16.35	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 16.35	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 16.35	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 16.35	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 16.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	87	%	53-159	10.26.15 16.35	
4-Bromofluorobenzene	460-00-4	99	%	30-186	10.26.15 16.35	
Toluene-D8	2037-26-5	97	%	70-130	10.26.15 16.35	

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW10** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-004 Date Collected: 10.19.15 11.35

Analytical Method: Mercury by SW-846 7470A Prep Method: SW7470P

Tech: HAP % Moisture:

Analyst: ABA Date Prep: 10.23.15 10.33

Seq Number: 979955

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.000116**	0.00200	0.0000101	mg/L	10.27.15 08.21	BJ	1

Analytical Method: RCRA Metals by SW846-6010C Prep Method: SW3010A_LL

Tech: ABA % Moisture:

Analyst: ABA Date Prep: 10.28.15 12.48

Seq Number: 980071

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	U	0.0100	0.00266	mg/L	10.28.15 14.41	U	1
Barium	7440-39-3	**0.187**	0.0500	0.000916	mg/L	10.28.15 14.41		1
Cadmium	7440-43-9	U	0.00500	0.0000560	mg/L	10.28.15 14.41	U	1
Chromium	7440-47-3	**0.00432**	0.0500	0.000160	mg/L	10.28.15 14.41	J	1
Lead	7439-92-1	**0.00156**	0.0100	0.000744	mg/L	10.28.15 14.41	J	1
Selenium	7782-49-2	U	0.0500	0.00309	mg/L	10.28.15 14.41	U	1
Silver	7440-22-4	U	0.0200	0.000260	mg/L	10.28.15 14.41	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW10** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-004 Date Collected: 10.19.15 11.35

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: ZHO Date Prep: 10.26.15 12.48

Seq Number: 979967

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 16.58	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 16.58	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 16.58	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	10.26.15 16.58	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 16.58	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 16.58	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 16.58	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 16.58	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 16.58	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 16.58	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 16.58	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 16.58	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 16.58	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 16.58	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 16.58	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 16.58	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 16.58	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	10.26.15 16.58	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 16.58	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 16.58	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 16.58	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 16.58	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 16.58	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 16.58	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 16.58	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 16.58	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	10.26.15 16.58	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 16.58	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 16.58	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 16.58	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 16.58	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 16.58	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 16.58	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	10.26.15 16.58	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 16.58	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	10.26.15 16.58	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 16.58	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 16.58	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 16.58	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW10**
Lab Sample Id: 517846-004

Matrix: Ground Water
Date Collected: 10.19.15 11.35

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 16.58	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 16.58	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 16.58	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 16.58	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	10.26.15 16.58	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	10.26.15 16.58	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 16.58	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	10.26.15 16.58	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 16.58	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 16.58	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 16.58	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 16.58	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 16.58	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 16.58	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 16.58	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 16.58	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 16.58	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 16.58	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 16.58	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 16.58	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 16.58	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 16.58	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 16.58	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 16.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	10.26.15 16.58	
4-Bromofluorobenzene	460-00-4	100	%	30-186	10.26.15 16.58	
Toluene-D8	2037-26-5	99	%	70-130	10.26.15 16.58	

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW12** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-005 Date Collected: 10.19.15 13.15

Analytical Method: Mercury by SW-846 7470A Prep Method: SW7470P

Tech: HAP % Moisture:

Analyst: ABA Date Prep: 10.23.15 10.33

Seq Number: 979955

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0000474**	0.00200	0.0000101	mg/L	10.27.15 08.24	BJ	1

Analytical Method: RCRA Metals by SW846-6010C Prep Method: SW3010A_LL

Tech: ABA % Moisture:

Analyst: ABA Date Prep: 10.28.15 12.48

Seq Number: 980071

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	**0.00792**	0.0100	0.00266	mg/L	10.28.15 14.43	J	1
Barium	7440-39-3	**1.40**	0.0500	0.000916	mg/L	10.28.15 14.43		1
Cadmium	7440-43-9	**0.00224**	0.00500	0.0000560	mg/L	10.28.15 14.43	J	1
Chromium	7440-47-3	**0.00296**	0.0500	0.000160	mg/L	10.28.15 14.43	J	1
Lead	7439-92-1	**0.0227**	0.0100	0.000744	mg/L	10.28.15 14.43		1
Selenium	7782-49-2	U	0.0500	0.00309	mg/L	10.28.15 14.43	U	1
Silver	7440-22-4	U	0.0200	0.000260	mg/L	10.28.15 14.43	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW12** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-005 Date Collected: 10.19.15 13.15

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: ZHO Date Prep: 10.26.15 12.48

Seq Number: 979967

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 17.22	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 17.22	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 17.22	U	1
1,1-Dichloroethane	75-34-3	**3.22**	1.00	0.110	ug/L	10.26.15 17.22		1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 17.22	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 17.22	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 17.22	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 17.22	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 17.22	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 17.22	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 17.22	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 17.22	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 17.22	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 17.22	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 17.22	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 17.22	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 17.22	U	1
1,4-Dichlorobenzene	106-46-7	**4.73**	1.00	0.170	ug/L	10.26.15 17.22		1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 17.22	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 17.22	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 17.22	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 17.22	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 17.22	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 17.22	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 17.22	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 17.22	U	1
Benzene	71-43-2	**3.59**	1.00	0.160	ug/L	10.26.15 17.22		1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 17.22	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 17.22	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 17.22	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 17.22	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 17.22	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 17.22	U	1
Chlorobenzene	108-90-7	**22.1**	1.00	0.150	ug/L	10.26.15 17.22		1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 17.22	U	1
Chloroethane	75-00-3	**30.8**	1.00	0.260	ug/L	10.26.15 17.22		1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 17.22	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 17.22	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 17.22	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW12**
Lab Sample Id: 517846-005

Matrix: Ground Water
Date Collected: 10.19.15 13.15

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 17.22	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 17.22	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 17.22	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 17.22	U	1
Isopropyl ether	108-20-3	**0.390**	1.00	0.0800	ug/L	10.26.15 17.22	J	1
Isopropylbenzene	98-82-8	**0.840**	1.00	0.150	ug/L	10.26.15 17.22	J	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 17.22	U	1
Methyl tert-butyl ether	1634-04-4	**0.430**	2.00	0.180	ug/L	10.26.15 17.22	J	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 17.22	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 17.22	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 17.22	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 17.22	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 17.22	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 17.22	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 17.22	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 17.22	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 17.22	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 17.22	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 17.22	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 17.22	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 17.22	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 17.22	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 17.22	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 17.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	10.26.15 17.22	
4-Bromofluorobenzene	460-00-4	100	%	30-186	10.26.15 17.22	
Toluene-D8	2037-26-5	95	%	70-130	10.26.15 17.22	

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW14** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-006 Date Collected: 10.19.15 10.50

Analytical Method: Mercury by SW-846 7470A Prep Method: SW7470P

Tech: HAP % Moisture:

Analyst: ABA Date Prep: 10.23.15 10.33

Seq Number: 979955

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0000748**	0.00200	0.0000101	mg/L	10.27.15 08.27	BJ	1

Analytical Method: RCRA Metals by SW846-6010C Prep Method: SW3010A_LL

Tech: ABA % Moisture:

Analyst: ABA Date Prep: 10.28.15 12.48

Seq Number: 980071

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	**0.00432**	0.0100	0.00266	mg/L	10.28.15 14.44	J	1
Barium	7440-39-3	**0.207**	0.0500	0.000916	mg/L	10.28.15 14.44		1
Cadmium	7440-43-9	**0.000520**	0.00500	0.0000560	mg/L	10.28.15 14.44	J	1
Chromium	7440-47-3	**0.0112**	0.0500	0.000160	mg/L	10.28.15 14.44	J	1
Lead	7439-92-1	**0.0757**	0.0100	0.000744	mg/L	10.28.15 14.44		1
Selenium	7782-49-2	U	0.0500	0.00309	mg/L	10.28.15 14.44	U	1
Silver	7440-22-4	U	0.0200	0.000260	mg/L	10.28.15 14.44	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW14**
Lab Sample Id: 517846-006

Matrix: Ground Water
Date Collected: 10.19.15 10.50

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 17.46	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 17.46	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 17.46	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	10.26.15 17.46	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 17.46	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 17.46	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 17.46	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 17.46	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 17.46	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 17.46	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 17.46	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 17.46	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 17.46	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 17.46	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 17.46	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 17.46	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 17.46	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	10.26.15 17.46	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 17.46	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 17.46	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 17.46	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 17.46	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 17.46	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 17.46	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 17.46	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 17.46	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	10.26.15 17.46	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 17.46	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 17.46	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 17.46	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 17.46	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 17.46	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 17.46	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	10.26.15 17.46	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 17.46	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	10.26.15 17.46	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 17.46	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 17.46	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 17.46	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **MW14**
Lab Sample Id: 517846-006

Matrix: Ground Water
Date Collected: 10.19.15 10.50

Date Received:10.21.15 09.50

Analytical Method: VOCs by SW-846 8260B
Tech: MWE
Analyst: ZHO
Seq Number: 979967

Date Prep: 10.26.15 12.48

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 17.46	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 17.46	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 17.46	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 17.46	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	10.26.15 17.46	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	10.26.15 17.46	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 17.46	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	10.26.15 17.46	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 17.46	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 17.46	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 17.46	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 17.46	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 17.46	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 17.46	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 17.46	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 17.46	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 17.46	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 17.46	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 17.46	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 17.46	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 17.46	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 17.46	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 17.46	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 17.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	91	%	53-159	10.26.15 17.46	
4-Bromofluorobenzene	460-00-4	101	%	30-186	10.26.15 17.46	
Toluene-D8	2037-26-5	97	%	70-130	10.26.15 17.46	

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **SW2** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-007 Date Collected: 10.19.15 14.30

Analytical Method: Mercury by SW-846 7470A Prep Method: SW7470P

Tech: HAP % Moisture:

Analyst: ABA Date Prep: 10.23.15 10.33

Seq Number: 979955

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0000608**	0.00200	0.0000101	mg/L	10.27.15 08.30	BJ	1

Analytical Method: RCRA Metals by SW846-6010C Prep Method: SW3010A_LL

Tech: ABA % Moisture:

Analyst: ABA Date Prep: 10.28.15 12.48

Seq Number: 980071

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	U	0.0100	0.00266	mg/L	10.28.15 14.46	U	1
Barium	7440-39-3	**0.0803**	0.0500	0.000916	mg/L	10.28.15 14.46		1
Cadmium	7440-43-9	**0.000280**	0.00500	0.0000560	mg/L	10.28.15 14.46	J	1
Chromium	7440-47-3	**0.00116**	0.0500	0.000160	mg/L	10.28.15 14.46	J	1
Lead	7439-92-1	U	0.0100	0.000744	mg/L	10.28.15 14.46	U	1
Selenium	7782-49-2	U	0.0500	0.00309	mg/L	10.28.15 14.46	U	1
Silver	7440-22-4	U	0.0200	0.000260	mg/L	10.28.15 14.46	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **SW2** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-007 Date Collected: 10.19.15 14.30

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: ZHO Date Prep: 10.26.15 12.48

Seq Number: 979967

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 18.10	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 18.10	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 18.10	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	10.26.15 18.10	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 18.10	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 18.10	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 18.10	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 18.10	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 18.10	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 18.10	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 18.10	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 18.10	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 18.10	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 18.10	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 18.10	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 18.10	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 18.10	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	10.26.15 18.10	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 18.10	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 18.10	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 18.10	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 18.10	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 18.10	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 18.10	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 18.10	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 18.10	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	10.26.15 18.10	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 18.10	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 18.10	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 18.10	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 18.10	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 18.10	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 18.10	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	10.26.15 18.10	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 18.10	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	10.26.15 18.10	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 18.10	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 18.10	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 18.10	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **SW2** Matrix: Ground Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-007 Date Collected: 10.19.15 14.30

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: ZHO Date Prep: 10.26.15 12.48

Seq Number: 979967

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 18.10	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 18.10	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 18.10	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 18.10	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	10.26.15 18.10	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	10.26.15 18.10	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 18.10	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	10.26.15 18.10	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 18.10	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 18.10	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 18.10	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 18.10	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 18.10	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 18.10	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 18.10	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 18.10	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 18.10	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 18.10	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 18.10	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 18.10	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 18.10	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 18.10	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 18.10	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 18.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	10.26.15 18.10	
4-Bromofluorobenzene	460-00-4	101	%	30-186	10.26.15 18.10	
Toluene-D8	2037-26-5	97	%	70-130	10.26.15 18.10	

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **Trip Blank** Matrix: Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-008 Date Collected: 10.19.15 00.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: ZHO Date Prep: 10.26.15 12.48

Seq Number: 979967

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 15.24	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 15.24	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 15.24	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	10.26.15 15.24	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 15.24	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 15.24	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 15.24	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 15.24	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 15.24	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 15.24	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 15.24	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 15.24	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 15.24	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 15.24	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 15.24	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 15.24	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 15.24	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	10.26.15 15.24	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 15.24	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 15.24	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 15.24	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 15.24	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 15.24	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 15.24	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 15.24	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 15.24	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	10.26.15 15.24	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 15.24	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 15.24	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 15.24	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 15.24	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 15.24	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 15.24	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	10.26.15 15.24	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 15.24	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	10.26.15 15.24	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 15.24	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 15.24	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 15.24	U	1

Certificate of Analytical Results 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **Trip Blank** Matrix: Water Date Received:10.21.15 09.50

Lab Sample Id: 517846-008 Date Collected: 10.19.15 00.00

Analytical Method: VOCs by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: ZHO Date Prep: 10.26.15 12.48

Seq Number: 979967

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 15.24	U	1
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 15.24	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 15.24	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 15.24	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	10.26.15 15.24	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	10.26.15 15.24	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 15.24	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	10.26.15 15.24	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 15.24	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 15.24	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 15.24	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 15.24	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 15.24	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 15.24	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 15.24	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 15.24	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 15.24	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 15.24	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 15.24	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 15.24	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 15.24	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 15.24	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 15.24	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 15.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	86	%	53-159	10.26.15 15.24	
4-Bromofluorobenzene	460-00-4	101	%	30-186	10.26.15 15.24	
Toluene-D8	2037-26-5	98	%	70-130	10.26.15 15.24	

QC Summary 517846

Terraquest Environmental Consultants, P.C.

Lee Co. Landfill

Analytical Method: **Mercury by SW-846 7470A** Prep Method: SW7470P
Seq Number: 979955 Matrix: Water Date Prep: 10.23.15
MB Sample Id: 699870-1-BLK LCS Sample Id: 699870-1-BKS LCSD Sample Id: 699870-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.0000180	0.00300	0.00303	101	0.00312	104	85-115	3	20	mg/L	10.27.15 07:51	

Analytical Method: **Mercury by SW-846 7470A** Prep Method: SW7470P
Seq Number: 979955 Matrix: Ground Water Date Prep: 10.23.15
Parent Sample Id: 517846-001 MD Sample Id: 517846-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.0000882	0.0000807	9	20	mg/L	10.27.15 08:00	J

Analytical Method: **Mercury by SW-846 7470A** Prep Method: SW7470P
Seq Number: 979955 Matrix: Ground Water Date Prep: 10.23.15
Parent Sample Id: 517846-001 MS Sample Id: 517846-001 S MSD Sample Id: 517846-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.0000882	0.00300	0.00312	101	0.00300	97	85-115	4	20	mg/L	10.27.15 08:03	

Analytical Method: **RCRA Metals by SW846-6010C** Prep Method: SW3010A_LL
Seq Number: 980071 Matrix: Water Date Prep: 10.28.15
MB Sample Id: 700082-1-BLK LCS Sample Id: 700082-1-BKS LCSD Sample Id: 700082-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.00266	0.400	0.407	102	0.408	102	75-125	0	20	mg/L	10.28.15 14:11	
Barium	<0.000916	0.400	0.424	106	0.419	105	75-125	1	20	mg/L	10.28.15 14:11	
Cadmium	<0.0000560	0.400	0.410	103	0.408	102	75-125	0	20	mg/L	10.28.15 14:11	
Chromium	0.000400	0.400	0.419	105	0.413	103	75-125	1	20	mg/L	10.28.15 14:11	
Lead	<0.000744	0.400	0.423	106	0.418	105	75-125	1	20	mg/L	10.28.15 14:11	
Selenium	0.00320	0.400	0.403	101	0.401	100	75-125	0	20	mg/L	10.28.15 14:11	
Silver	<0.000260	0.0400	0.0358	90	0.0355	89	75-125	1	20	mg/L	10.28.15 14:11	

QC Summary 517846

Terraquest Environmental Consultants, P.C.

Lee Co. Landfill

Analytical Method: **RCRA Metals by SW846-6010C** Prep Method: SW3010A_LL
Seq Number: 980071 Matrix: Ground Water Date Prep: 10.28.15
Parent Sample Id: 517846-001 MD Sample Id: 517846-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	0.0135	0.0139	3	20	mg/L	10.28.15 14:17	
Barium	0.431	0.446	3	20	mg/L	10.28.15 14:17	
Cadmium	0.000840	0.000880	5	20	mg/L	10.28.15 14:17	J
Chromium	0.0113	0.0147	26	20	mg/L	10.28.15 14:17	FJ
Lead	0.0304	0.0335	10	20	mg/L	10.28.15 14:17	
Selenium	<0.00309	<0.00309	0	20	mg/L	10.28.15 14:17	U
Silver	<0.000260	<0.000260	0	20	mg/L	10.28.15 14:17	U

Analytical Method: **RCRA Metals by SW846-6010C** Prep Method: SW3010A_LL
Seq Number: 980071 Matrix: Ground Water Date Prep: 10.28.15
Parent Sample Id: 517846-001 MS Sample Id: 517846-001 S MSD Sample Id: 517846-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	0.0135	0.400	0.424	103	0.423	102	75-125	0	20	mg/L	10.28.15 14:19	
Barium	0.431	0.400	0.832	100	0.827	99	75-125	1	20	mg/L	10.28.15 14:19	
Cadmium	0.000840	0.400	0.404	101	0.404	101	75-125	0	20	mg/L	10.28.15 14:19	
Chromium	0.0113	0.400	0.427	104	0.427	104	75-125	0	20	mg/L	10.28.15 14:19	
Lead	0.0304	0.400	0.440	102	0.439	102	75-125	0	20	mg/L	10.28.15 14:19	
Selenium	<0.00309	0.400	0.389	97	0.394	99	75-125	1	20	mg/L	10.28.15 14:19	
Silver	<0.000260	0.0400	0.0333	83	0.0330	83	75-125	1	20	mg/L	10.28.15 14:19	

QC Summary 517846

Terraquest Environmental Consultants, P.C.

Lee Co. Landfill

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 979967 Matrix: Water Date Prep: 10.26.15

MB Sample Id: 700028-1-BLK LCS Sample Id: 700028-1-BKS LCSD Sample Id: 700028-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	50.7	101	49.3	99	65-130	3	20	ug/L	10.26.15 13:49	
1,1,2,2-Tetrachloroethane	<0.180	50.0	46.9	94	47.6	95	65-130	1	20	ug/L	10.26.15 13:49	
1,1,2-Trichloroethane	<0.250	50.0	47.6	95	48.3	97	75-125	1	20	ug/L	10.26.15 13:49	
1,1-Dichloroethane	<0.110	50.0	42.4	85	41.3	83	70-135	3	20	ug/L	10.26.15 13:49	
1,1-Dichloroethene	<0.200	50.0	52.1	104	50.2	100	70-130	4	20	ug/L	10.26.15 13:49	
1,1-Dichloropropene	<0.100	50.0	48.0	96	46.5	93	75-130	3	20	ug/L	10.26.15 13:49	
1,2,3-Trichlorobenzene	<0.250	50.0	50.3	101	49.1	98	55-140	2	20	ug/L	10.26.15 13:49	
1,2,3-Trichloropropane	<0.210	50.0	45.2	90	45.5	91	75-125	1	20	ug/L	10.26.15 13:49	
1,2,4-Trichlorobenzene	<0.170	50.0	54.1	108	52.7	105	65-135	3	20	ug/L	10.26.15 13:49	
1,2,4-Trimethylbenzene	<0.140	50.0	54.5	109	53.0	106	75-130	3	20	ug/L	10.26.15 13:49	
1,2-Dibromoethane (EDB)	<0.180	50.0	52.4	105	51.8	104	80-120	1	20	ug/L	10.26.15 13:49	
1,2-Dichlorobenzene	<0.140	50.0	53.1	106	53.2	106	70-120	0	20	ug/L	10.26.15 13:49	
1,2-Dichloroethane	<0.180	50.0	41.2	82	40.2	80	70-130	2	20	ug/L	10.26.15 13:49	
1,2-Dichloropropane	<0.150	50.0	45.0	90	44.4	89	75-125	1	20	ug/L	10.26.15 13:49	
1,3,5-Trimethylbenzene	<0.170	50.0	54.4	109	52.4	105	75-130	4	20	ug/L	10.26.15 13:49	
1,3-Dichlorobenzene	<0.170	50.0	55.0	110	53.7	107	75-125	2	20	ug/L	10.26.15 13:49	
1,3-Dichloropropane	<0.190	50.0	46.8	94	47.2	94	75-125	1	20	ug/L	10.26.15 13:49	
1,4-Dichlorobenzene	<0.170	50.0	52.8	106	50.2	100	75-125	5	20	ug/L	10.26.15 13:49	
2,2-Dichloropropane	<0.210	50.0	53.3	107	51.2	102	70-130	4	20	ug/L	10.26.15 13:49	
2-Butanone (MEK)	<0.280	100	76.1	76	78.4	78	30-150	3	20	ug/L	10.26.15 13:49	
2-Chlorotoluene	<0.190	50.0	51.7	103	50.2	100	75-125	3	20	ug/L	10.26.15 13:49	
2-Hexanone	<0.320	100	80.6	81	83.9	84	55-130	4	20	ug/L	10.26.15 13:49	
4-Chlorotoluene	<0.130	50.0	52.5	105	51.0	102	75-130	3	20	ug/L	10.26.15 13:49	
4-Isopropyltoluene	<0.130	50.0	57.0	114	54.7	109	75-130	4	20	ug/L	10.26.15 13:49	
4-Methyl-2-pentanone (MIBK)	<0.260	100	78.2	78	81.4	81	60-135	4	20	ug/L	10.26.15 13:49	
Acetone	<0.350	100	75.2	75	77.5	78	40-140	3	20	ug/L	10.26.15 13:49	
Benzene	<0.160	50.0	49.0	98	49.1	98	80-120	0	20	ug/L	10.26.15 13:49	
Bromobenzene	<0.210	50.0	47.1	94	46.7	93	75-125	1	20	ug/L	10.26.15 13:49	
Bromochloromethane	<0.200	50.0	53.3	107	53.7	107	65-130	1	20	ug/L	10.26.15 13:49	
Bromodichloromethane	<0.250	50.0	51.8	104	51.4	103	75-120	1	20	ug/L	10.26.15 13:49	
Bromoform	<0.170	50.0	48.7	97	48.7	97	70-130	0	20	ug/L	10.26.15 13:49	
Bromomethane	<0.250	50.0	69.9	140	70.7	141	30-145	1	20	ug/L	10.26.15 13:49	
Carbon tetrachloride	<0.330	50.0	51.1	102	49.1	98	65-140	4	20	ug/L	10.26.15 13:49	
Chlorobenzene	<0.150	50.0	54.3	109	52.3	105	80-120	4	20	ug/L	10.26.15 13:49	
Chlorodibromomethane	<0.150	50.0	49.3	99	48.4	97	60-135	2	20	ug/L	10.26.15 13:49	
Chloroethane	<0.260	50.0	46.6	93	48.7	97	60-135	4	20	ug/L	10.26.15 13:49	
Chloroform	<0.160	50.0	47.2	94	46.5	93	65-135	1	20	ug/L	10.26.15 13:49	
Chloromethane	<0.250	50.0	50.8	102	51.7	103	40-125	2	20	ug/L	10.26.15 13:49	
cis-1,2-Dichloroethene	<0.210	50.0	51.7	103	51.5	103	70-125	0	20	ug/L	10.26.15 13:49	
cis-1,3-Dichloropropene	<0.100	50.0	48.3	97	47.3	95	70-130	2	20	ug/L	10.26.15 13:49	
Dichlorodifluoromethane	<0.220	50.0	58.5	117	54.8	110	30-155	7	20	ug/L	10.26.15 13:49	
Ethanol	<8.00	2000	1590	80	1690	85	65-135	6	20	ug/L	10.26.15 13:49	
Ethylbenzene	<0.190	50.0	51.3	103	49.8	100	75-125	3	20	ug/L	10.26.15 13:49	
Isopropyl ether	<0.0800	50.0	41.0	82	40.1	80	65-135	2	20	ug/L	10.26.15 13:49	
Isopropylbenzene	<0.150	50.0	56.3	113	54.5	109	75-125	3	20	ug/L	10.26.15 13:49	
m,p-Xylenes	<0.510	100	113	113	109	109	75-130	4	20	ug/L	10.26.15 13:49	
Methyl tert-butyl ether	<0.180	100	92.8	93	90.9	91	65-125	2	20	ug/L	10.26.15 13:49	
Methylene chloride	<0.420	50.0	47.6	95	46.0	92	55-140	3	20	ug/L	10.26.15 13:49	
Naphthalene	<0.220	50.0	39.7	79	40.7	81	55-140	2	20	ug/L	10.26.15 13:49	
n-Butylbenzene	<0.170	50.0	53.1	106	49.9	100	70-130	6	20	ug/L	10.26.15 13:49	
n-Propylbenzene	<0.180	50.0	52.7	105	50.6	101	70-130	4	20	ug/L	10.26.15 13:49	
o-Xylene	<0.200	50.0	57.2	114	56.3	113	80-120	2	20	ug/L	10.26.15 13:49	

QC Summary 517846

Terraquest Environmental Consultants, P.C.

Lee Co. Landfill

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 979967 Matrix: Water Date Prep: 10.26.15

MB Sample Id: 700028-1-BLK LCS Sample Id: 700028-1-BKS LCSD Sample Id: 700028-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	56.1	112	53.2	106	70-125	5	20	ug/L	10.26.15 13:49	
Styrene	<0.180	50.0	58.2	116	56.6	113	65-135	3	20	ug/L	10.26.15 13:49	
tert-Butylbenzene	<0.180	50.0	57.7	115	55.7	111	70-130	4	20	ug/L	10.26.15 13:49	
Tetrachloroethene	<0.160	50.0	55.6	111	52.0	104	45-150	7	20	ug/L	10.26.15 13:49	
Toluene	<0.140	50.0	50.0	100	49.2	98	75-120	2	20	ug/L	10.26.15 13:49	
trans-1,2-Dichloroethene	<0.210	50.0	51.1	102	49.8	100	60-140	3	20	ug/L	10.26.15 13:49	
trans-1,3-Dichloropropene	<0.110	50.0	46.4	93	45.5	91	55-140	2	20	ug/L	10.26.15 13:49	
Trichloroethene	<0.190	50.0	51.3	103	48.7	97	70-125	5	20	ug/L	10.26.15 13:49	
Trichlorofluoromethane	<0.530	50.0	49.0	98	46.9	94	60-145	4	20	ug/L	10.26.15 13:49	
Vinyl acetate	<0.720	50.0	38.5	77	38.5	77	65-135	0	20	ug/L	10.26.15 13:49	
Vinyl chloride	<0.190	50.0	53.4	107	53.0	106	50-145	1	20	ug/L	10.26.15 13:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	85		78		76		53-159	%	10.26.15 13:49
4-Bromofluorobenzene	99		90		90		30-186	%	10.26.15 13:49
Toluene-D8	97		94		93		70-130	%	10.26.15 13:49

QC Summary 517846

Terraquest Environmental Consultants, P.C.

Lee Co. Landfill

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 979967 Matrix: Ground Water Date Prep: 10.26.15

Parent Sample Id: 517846-001 MS Sample Id: 517846-001 S MSD Sample Id: 517846-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1-Trichloroethane	<0.160	50.0	43.3	87	42.6	85	59-138	2	20	ug/L	10.26.15 23:19	
1,1,2,2-Tetrachloroethane	<0.180	50.0	43.2	86	45.7	91	63-126	6	20	ug/L	10.26.15 23:19	
1,1,2-Trichloroethane	<0.250	50.0	43.9	88	44.6	89	72-115	2	20	ug/L	10.26.15 23:19	
1,1-Dichloroethane	<0.110	50.0	37.6	75	36.8	74	69-132	2	20	ug/L	10.26.15 23:19	
1,1-Dichloroethene	<0.200	50.0	45.5	91	46.8	94	62-131	3	20	ug/L	10.26.15 23:19	
1,1-Dichloropropene	<0.100	50.0	39.7	79	39.9	80	74-123	1	20	ug/L	10.26.15 23:19	
1,2,3-Trichlorobenzene	<0.250	50.0	37.4	75	40.4	81	48-122	8	20	ug/L	10.26.15 23:19	
1,2,3-Trichloropropane	<0.210	50.0	42.4	85	43.8	88	59-119	3	20	ug/L	10.26.15 23:19	
1,2,4-Trichlorobenzene	<0.170	50.0	36.8	74	38.6	77	34-131	5	20	ug/L	10.26.15 23:19	
1,2,4-Trimethylbenzene	<0.140	50.0	41.8	84	42.2	84	47-139	1	20	ug/L	10.26.15 23:19	
1,2-Dibromoethane (EDB)	<0.180	50.0	46.6	93	49.0	98	66-125	5	20	ug/L	10.26.15 23:19	
1,2-Dichlorobenzene	<0.140	50.0	44.4	89	45.1	90	58-124	2	20	ug/L	10.26.15 23:19	
1,2-Dichloroethane	<0.180	50.0	37.0	74	37.0	74	55-141	0	20	ug/L	10.26.15 23:19	
1,2-Dichloropropane	<0.150	50.0	38.1	76	39.1	78	78-121	3	20	ug/L	10.26.15 23:19	X
1,3,5-Trimethylbenzene	<0.170	50.0	41.0	82	41.5	83	53-129	1	20	ug/L	10.26.15 23:19	
1,3-Dichlorobenzene	<0.170	50.0	44.7	89	45.2	90	62-120	1	20	ug/L	10.26.15 23:19	
1,3-Dichloropropane	<0.190	50.0	42.9	86	42.8	86	66-123	0	20	ug/L	10.26.15 23:19	
1,4-Dichlorobenzene	<0.170	50.0	42.8	86	43.9	88	64-114	3	20	ug/L	10.26.15 23:19	
2,2-Dichloropropane	<0.210	50.0	38.4	77	35.9	72	40-159	7	20	ug/L	10.26.15 23:19	
2-Butanone (MEK)	<0.280	100	82.3	82	85.7	86	50-152	4	20	ug/L	10.26.15 23:19	
2-Chlorotoluene	<0.190	50.0	42.4	85	42.7	85	60-129	1	20	ug/L	10.26.15 23:19	
2-Hexanone	<0.320	100	82.7	83	90.6	91	55-136	9	20	ug/L	10.26.15 23:19	
4-Chlorotoluene	<0.130	50.0	42.8	86	43.3	87	64-124	1	20	ug/L	10.26.15 23:19	
4-Isopropyltoluene	<0.130	50.0	45.1	90	45.6	91	62-121	1	20	ug/L	10.26.15 23:19	
4-Methyl-2-pentanone (MIBK)	<0.260	100	78.3	78	83.0	83	65-132	6	20	ug/L	10.26.15 23:19	
Acetone	<0.350	100	79.4	79	83.5	84	40-140	5	20	ug/L	10.26.15 23:19	
Benzene	<0.160	50.0	41.7	83	41.1	82	77-118	1	20	ug/L	10.26.15 23:19	
Bromobenzene	<0.210	50.0	39.3	79	40.6	81	66-121	3	20	ug/L	10.26.15 23:19	
Bromochloromethane	<0.200	50.0	50.4	101	48.1	96	64-130	5	20	ug/L	10.26.15 23:19	
Bromodichloromethane	<0.250	50.0	46.5	93	45.3	91	68-125	3	20	ug/L	10.26.15 23:19	
Bromoform	<0.170	50.0	44.5	89	44.3	89	53-112	0	20	ug/L	10.26.15 23:19	
Bromomethane	<0.250	50.0	59.8	120	63.6	127	63-137	6	20	ug/L	10.26.15 23:19	
Carbon tetrachloride	<0.330	50.0	44.1	88	43.8	88	56-138	1	20	ug/L	10.26.15 23:19	
Chlorobenzene	<0.150	50.0	45.1	90	46.3	93	71-114	3	20	ug/L	10.26.15 23:19	
Chlorodibromomethane	<0.150	50.0	44.7	89	44.3	89	53-125	1	20	ug/L	10.26.15 23:19	
Chloroethane	<0.260	50.0	41.7	83	41.1	82	60-137	1	20	ug/L	10.26.15 23:19	
Chloroform	<0.160	50.0	40.9	82	41.1	82	65-131	0	20	ug/L	10.26.15 23:19	
Chloromethane	<0.250	50.0	48.5	97	48.1	96	48-151	1	20	ug/L	10.26.15 23:19	
cis-1,2-Dichloroethene	<0.210	50.0	44.7	89	45.2	90	22-185	1	20	ug/L	10.26.15 23:19	
cis-1,3-Dichloropropene	<0.100	50.0	37.5	75	36.9	74	67-113	2	20	ug/L	10.26.15 23:19	
Dichlorodifluoromethane	<0.220	50.0	50.6	101	51.0	102	38-145	1	20	ug/L	10.26.15 23:19	
Ethanol	<8.00	2000	1810	91	2000	100	38-162	10	20	ug/L	10.26.15 23:19	
Ethylbenzene	<0.190	50.0	42.9	86	42.8	86	66-127	0	20	ug/L	10.26.15 23:19	
Isopropyl ether	<0.0800	50.0	35.7	71	36.9	74	59-148	3	20	ug/L	10.26.15 23:19	
Isopropylbenzene	<0.150	50.0	46.1	92	46.4	93	58-127	1	20	ug/L	10.26.15 23:19	
m,p-Xylenes	<0.510	100	94.0	94	94.9	95	65-126	1	20	ug/L	10.26.15 23:19	
Methyl tert-butyl ether	<0.180	100	84.9	85	85.6	86	58-141	1	20	ug/L	10.26.15 23:19	
Methylene chloride	<0.420	50.0	43.3	87	41.8	84	63-150	4	20	ug/L	10.26.15 23:19	
Naphthalene	<0.220	50.0	36.1	72	39.4	79	30-148	9	20	ug/L	10.26.15 23:19	
n-Butylbenzene	<0.170	50.0	38.8	78	39.9	80	63-122	3	20	ug/L	10.26.15 23:19	
n-Propylbenzene	<0.180	50.0	42.0	84	42.4	85	64-127	1	20	ug/L	10.26.15 23:19	
o-Xylene	<0.200	50.0	49.7	99	47.8	96	64-123	4	20	ug/L	10.26.15 23:19	

QC Summary 517846

Terraquest Environmental Consultants, P.C.

Lee Co. Landfill

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Seq Number: 979967 Matrix: Ground Water Date Prep: 10.26.15

Parent Sample Id: 517846-001 MS Sample Id: 517846-001 S MSD Sample Id: 517846-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
sec-Butylbenzene	<0.210	50.0	44.4	89	45.3	91	59-124	2	20	ug/L	10.26.15 23:19	
Styrene	<0.180	50.0	48.2	96	49.0	98	50-133	2	20	ug/L	10.26.15 23:19	
tert-Butylbenzene	<0.180	50.0	46.8	94	47.7	95	58-125	2	20	ug/L	10.26.15 23:19	
Tetrachloroethene	<0.160	50.0	42.7	85	44.0	88	52-125	3	20	ug/L	10.26.15 23:19	
Toluene	<0.140	50.0	42.4	85	42.5	85	65-123	0	20	ug/L	10.26.15 23:19	
trans-1,2-Dichloroethene	<0.210	50.0	45.6	91	43.2	86	65-135	5	20	ug/L	10.26.15 23:19	
trans-1,3-Dichloropropene	<0.110	50.0	39.7	79	39.2	78	50-125	1	20	ug/L	10.26.15 23:19	
Trichloroethene	<0.190	50.0	43.9	88	42.8	86	65-125	3	20	ug/L	10.26.15 23:19	
Trichlorofluoromethane	<0.530	50.0	48.3	97	48.6	97	51-145	1	20	ug/L	10.26.15 23:19	
Vinyl acetate	<0.720	50.0	30.2	60	30.6	61	49-135	1	20	ug/L	10.26.15 23:19	
Vinyl chloride	<0.190	50.0	48.1	96	50.2	100	52-140	4	20	ug/L	10.26.15 23:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	82		78		53-159	%	10.26.15 23:19
4-Bromofluorobenzene	87		88		30-186	%	10.26.15 23:19
Toluene-D8	88		90		70-130	%	10.26.15 23:19

Blank Summary 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **699870-1-BLK** Matrix: WATER

Lab Sample Id: **699870-1-BLK**

Analytical Method: **Mercury by SW-846 7470A** Prep Method: SW7470P

Tech: HAP

Analyst: ABA Date Prep: 10.23.15 10:33

Seq Number: 979955

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	0.0000180	0.00200	0.0000101	mg/L	10.27.15 07:48	J	1

Blank Summary 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **700028-1-BLK** Matrix: WATER

Lab Sample Id: **700028-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: MWE

Analyst: ZHO Date Prep: 10.26.15 12:48

Seq Number: 979967

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.160	ug/L	10.26.15 15:00	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	1.00	0.180	ug/L	10.26.15 15:00	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.250	ug/L	10.26.15 15:00	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.110	ug/L	10.26.15 15:00	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.200	ug/L	10.26.15 15:00	U	1
1,1-Dichloropropene	563-58-6	U	1.00	0.100	ug/L	10.26.15 15:00	U	1
1,2,3-Trichlorobenzene	87-61-6	U	1.00	0.250	ug/L	10.26.15 15:00	U	1
1,2,3-Trichloropropane	96-18-4	U	1.00	0.210	ug/L	10.26.15 15:00	U	1
1,2,4-Trichlorobenzene	120-82-1	U	1.00	0.170	ug/L	10.26.15 15:00	U	1
1,2,4-Trimethylbenzene	95-63-6	U	1.00	0.140	ug/L	10.26.15 15:00	U	1
1,2-Dibromoethane (EDB)	106-93-4	U	1.00	0.180	ug/L	10.26.15 15:00	U	1
1,2-Dichlorobenzene	95-50-1	U	1.00	0.140	ug/L	10.26.15 15:00	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	10.26.15 15:00	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.150	ug/L	10.26.15 15:00	U	1
1,3,5-Trimethylbenzene	108-67-8	U	1.00	0.170	ug/L	10.26.15 15:00	U	1
1,3-Dichlorobenzene	541-73-1	U	1.00	0.170	ug/L	10.26.15 15:00	U	1
1,3-Dichloropropane	142-28-9	U	1.00	0.190	ug/L	10.26.15 15:00	U	1
1,4-Dichlorobenzene	106-46-7	U	1.00	0.170	ug/L	10.26.15 15:00	U	1
2,2-Dichloropropane	594-20-7	U	1.00	0.210	ug/L	10.26.15 15:00	U	1
2-Butanone (MEK)	78-93-3	U	2.00	0.280	ug/L	10.26.15 15:00	U	1
2-Chlorotoluene	95-49-8	U	1.00	0.190	ug/L	10.26.15 15:00	U	1
2-Hexanone	591-78-6	U	2.00	0.320	ug/L	10.26.15 15:00	U	1
4-Chlorotoluene	106-43-4	U	1.00	0.130	ug/L	10.26.15 15:00	U	1
4-Isopropyltoluene	99-87-6	U	1.00	0.130	ug/L	10.26.15 15:00	U	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.00	0.260	ug/L	10.26.15 15:00	U	1
Acetone	67-64-1	U	2.00	0.350	ug/L	10.26.15 15:00	U	1
Benzene	71-43-2	U	1.00	0.160	ug/L	10.26.15 15:00	U	1
Bromobenzene	108-86-1	U	1.00	0.210	ug/L	10.26.15 15:00	U	1
Bromochloromethane	74-97-5	U	1.00	0.200	ug/L	10.26.15 15:00	U	1
Bromodichloromethane	75-27-4	U	1.00	0.250	ug/L	10.26.15 15:00	U	1
Bromoform	75-25-2	U	1.00	0.170	ug/L	10.26.15 15:00	U	1
Bromomethane	74-83-9	U	1.00	0.250	ug/L	10.26.15 15:00	U	1
Carbon tetrachloride	56-23-5	U	1.00	0.330	ug/L	10.26.15 15:00	U	1
Chlorobenzene	108-90-7	U	1.00	0.150	ug/L	10.26.15 15:00	U	1
Chlorodibromomethane	124-48-1	U	1.00	0.150	ug/L	10.26.15 15:00	U	1
Chloroethane	75-00-3	U	1.00	0.260	ug/L	10.26.15 15:00	U	1
Chloroform	67-66-3	U	1.00	0.160	ug/L	10.26.15 15:00	U	1
Chloromethane	74-87-3	U	1.00	0.250	ug/L	10.26.15 15:00	U	1
cis-1,2-Dichloroethene	156-59-2	U	1.00	0.210	ug/L	10.26.15 15:00	U	1
cis-1,3-Dichloropropene	10061-01-5	U	1.00	0.100	ug/L	10.26.15 15:00	U	1

Blank Summary 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **700028-1-BLK** Matrix: WATER

Lab Sample Id: **700028-1-BLK**

Analytical Method: **VOCs by SW-846 8260B** Prep Method: SW5030B

Tech: MWE

Analyst: ZHO Date Prep: 10.26.15 12:48

Seq Number: 979967

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Dichlorodifluoromethane	75-71-8	U	1.00	0.220	ug/L	10.26.15 15:00	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	10.26.15 15:00	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	10.26.15 15:00	U	1
Isopropyl ether	108-20-3	U	1.00	0.0800	ug/L	10.26.15 15:00	U	1
Isopropylbenzene	98-82-8	U	1.00	0.150	ug/L	10.26.15 15:00	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	10.26.15 15:00	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	10.26.15 15:00	U	1
Methylene chloride	75-09-2	U	1.00	0.420	ug/L	10.26.15 15:00	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	10.26.15 15:00	U	1
n-Butylbenzene	104-51-8	U	1.00	0.170	ug/L	10.26.15 15:00	U	1
n-Propylbenzene	103-65-1	U	1.00	0.180	ug/L	10.26.15 15:00	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	10.26.15 15:00	U	1
sec-Butylbenzene	135-98-8	U	1.00	0.210	ug/L	10.26.15 15:00	U	1
Styrene	100-42-5	U	1.00	0.180	ug/L	10.26.15 15:00	U	1
tert-Butylbenzene	98-06-6	U	1.00	0.180	ug/L	10.26.15 15:00	U	1
Tetrachloroethene	127-18-4	U	1.00	0.160	ug/L	10.26.15 15:00	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	10.26.15 15:00	U	1
trans-1,2-Dichloroethene	156-60-5	U	1.00	0.210	ug/L	10.26.15 15:00	U	1
trans-1,3-Dichloropropene	10061-02-6	U	1.00	0.110	ug/L	10.26.15 15:00	U	1
Trichloroethene	79-01-6	U	1.00	0.190	ug/L	10.26.15 15:00	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.530	ug/L	10.26.15 15:00	U	1
Vinyl acetate	108-05-4	U	1.00	0.720	ug/L	10.26.15 15:00	U	1
Vinyl chloride	75-01-4	U	1.00	0.190	ug/L	10.26.15 15:00	U	1

Blank Summary 517846

Terraquest Environmental Consultants, P.C., Mebane, NC

Lee Co. Landfill

Sample Id: **700082-1-BLK** Matrix: WATER

Lab Sample Id: **700082-1-BLK**

Analytical Method: **RCRA Metals by SW846-6010C** Prep Method: SW3010A_LL

Tech: ABA

Analyst: ABA Date Prep: 10.28.15 12:48

Seq Number: 980071

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Arsenic	7440-38-2	U	0.0100	0.00266	mg/L	10.28.15 14:10	U	1
Barium	7440-39-3	U	0.0500	0.000916	mg/L	10.28.15 14:10	U	1
Cadmium	7440-43-9	U	0.00500	0.0000560	mg/L	10.28.15 14:10	U	1
Chromium	7440-47-3	0.000400	0.0500	0.000160	mg/L	10.28.15 14:10	J	1
Lead	7439-92-1	U	0.0100	0.000744	mg/L	10.28.15 14:10	U	1
Selenium	7782-49-2	0.00320	0.0500	0.00309	mg/L	10.28.15 14:10	J	1
Silver	7440-22-4	U	0.0500	0.000260	mg/L	10.28.15 14:10	U	1

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL301280
Page 1 of 1

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: TerraQuest Environmental
Address: 100 E. Raffin St. Mebane NC. 27302
Results Sent to: Megan Webster
Email address: MWebster@TerraquestNC.Com
Contact Phone #: 919-563-9091 Cell#:
Project Name (Site): Lee Co. Landfill
Project Number (ID): 02296
Regulatory Program:

Receiver's Initials/Temp: M / 2.2°C
Custody Seal(s): ___ Y N Lab Work Order # 517846
P.O.# (if required): 10191502296
Field Comments / Lab Precautions:

Sampler(s): (signature)
Sampler(s): (printed) Wesley J. Sawells

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8260B	6 RCRA Metals
Container Type:								VC	P
Chemical Preservation Code:								1	2
1	MW5		10/19/15 - 1345	GW		X	3	X	X
2	MW6		1205			X		X	X
3	MW9		1115			X		X	X
4	MW10		1135			X		X	X
5	MW12		1315			X		X	X
6	MW14		1050			X		X	X
7	SW2		1430			X		X	X
8	Trip Blank					X			
9									
10									

1) Relinquished By:	Date / Time	2) Received By: Date / Time 10-21-15 9:30
3) Relinquished By:	Date / Time	4) Received By: Date / Time
5) Relinquished By:	Date / Time	6) Received By: Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

GSX.
TRK# 0215 8047 7448 9060

WED - 21 OCT AA
STANDARD OVERNIGHT

NG LIYA

30071
GA-US
ATL

FID 5038535 20OCT15 GSXA 539C3/401A/31D0

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Terraquest Environmental Consultants, F

Date/ Time Received: 10/21/2015 09:50:00 AM

Work Order #: 517846

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6 *Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Sample instructions complete on Chain of Custody?	**Yes**
#9 Any missing/extra samples?	**No**
#10 Chain of Custody signed when relinquished/ received?	**Yes**
#11 Chain of Custody agrees with sample label(s)?	**Yes**
#12 Container label(s) legible and intact?	**Yes**
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#14 Samples in proper container/ bottle?	**Yes**
#15 Samples properly preserved?	**Yes**
#16 Sample container(s) intact?	**Yes**
#17 Sufficient sample amount for indicated test(s)?	**Yes**
#18 All samples received within hold time?	**Yes**
#19 Subcontract of sample(s)?	**No**
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**Yes**
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: DL

PH Device/Lot#: I016662-9

Checklist completed by: Dario Lagunas

Date: 10/21/2015

Checklist reviewed by: Debbie Simmons

Date: 10/26/2015