



May 16, 2008

Ms. Jaclynne Drummond  
Division of Waste Management - Solid Waste Section  
401 Oberlin Road, Suite 150  
Raleigh, NC 27605

Re: Methane Monitoring Status  
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 Public Works Department, TerraQuest Environmental Consultants, P.C. is hereby reporting the status of methane monitoring for the Lee County Landfill located south of Sanford, NC. The site location, vicinity, and layout are displayed on the attached Figures 1, 2, and 3, respectively.

Due to the prior detection of gas concentrations at 100% of the LEL in M8, M27, M28, and M29, TerraQuest has initiated monitoring on a bi-weekly schedule as outlined in the NCDWM-SW-approved Methane Monitoring Plan. As detailed on the attached Table 1 LEL violations were present in M8, M27, M28, and M29 on May 9, 2008. An NCDWM-SW Environmental Monitoring Reporting Form is attached.

TerraQuest has received the NCDWM-SW's correspondence dated May 15, 2008 which requests that the property line near M8, M27, M28, and M29 be positively identified to determine the next course of action. That location will be completed shortly. TerraQuest will continue bi-weekly monitoring of the LEL violation wells in the interim.

Sincerely,

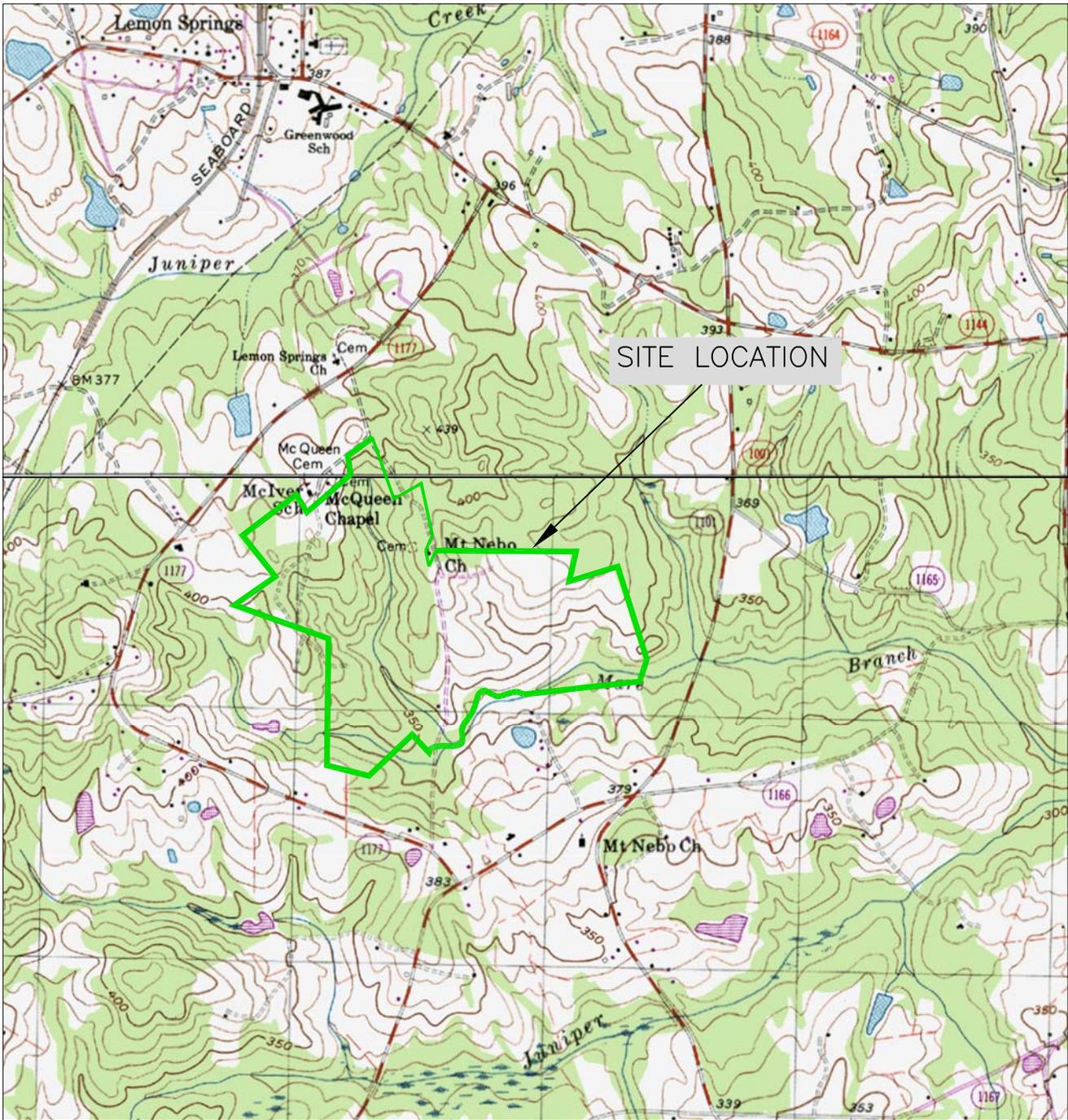
TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.

A handwritten signature in black ink, appearing to read "R. Kerins".

Ryan D. Kerins  
Project Manager

Attachments: Figure 1 – Site Location Map  
Figure 2 – Site Vicinity Map  
Figure 3 – Site Layout Map  
Table 1 – Methane Monitoring  
NCDWM-SW Environmental Monitoring Reporting Form

cc: Joe Cherry – Lee County Public Works Department



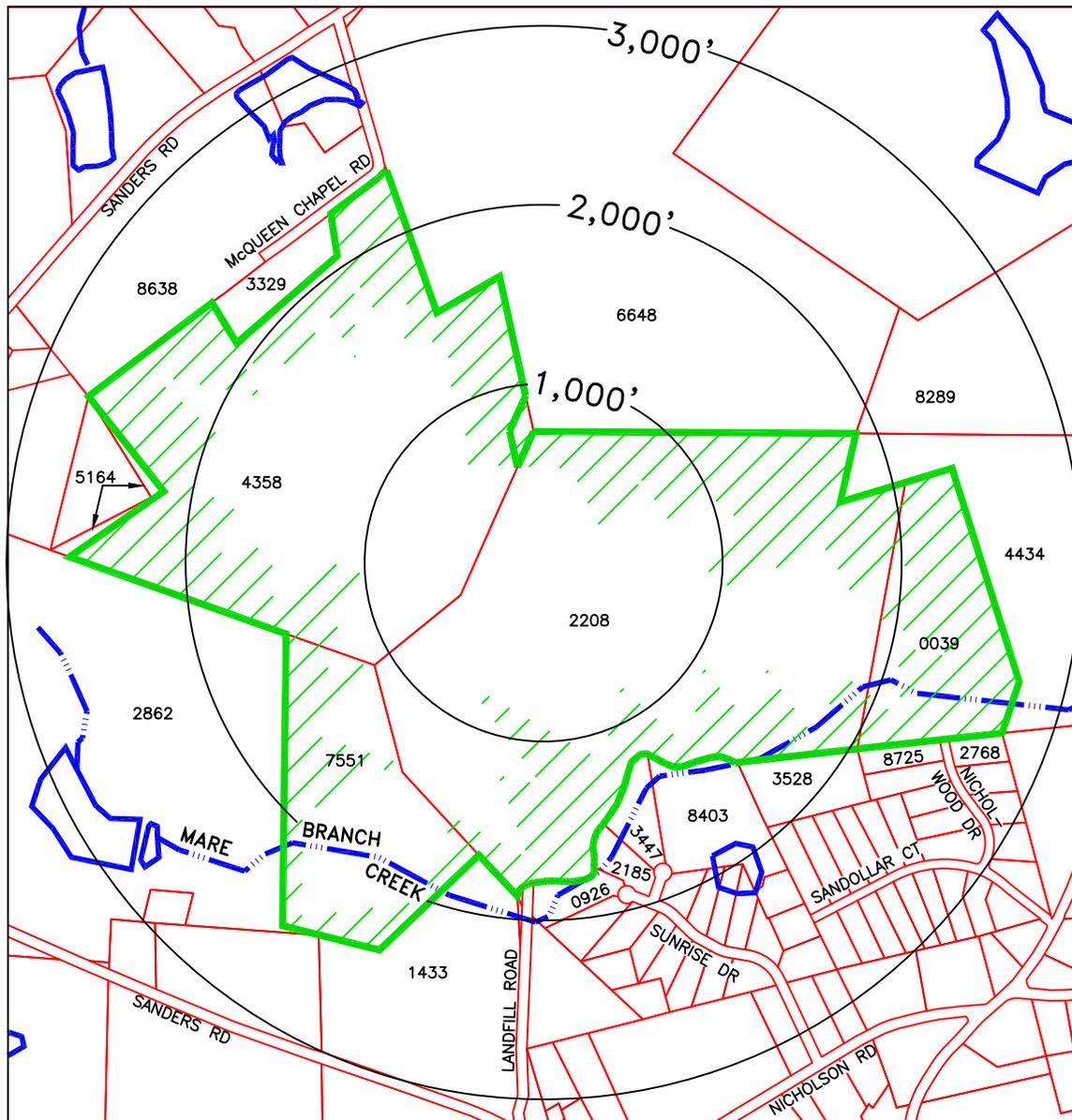
MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHICS – SANFORD AND MURCHISONTOWN, NC

GRAPHIC SCALE



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

LEE COUNTY PUBLIC WORKS			SANFORD, NC
PROJECT NO.	02296	DRAWN BY:	RDJ DATE: 5/16/08
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'

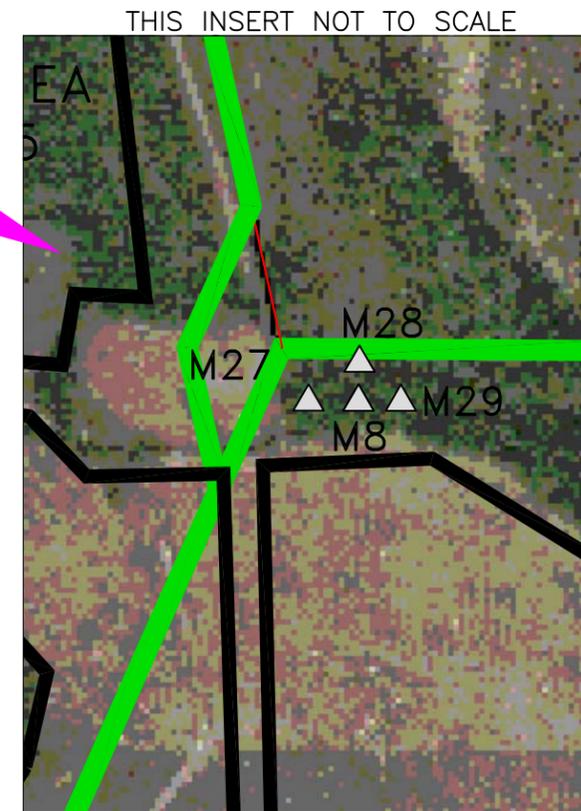
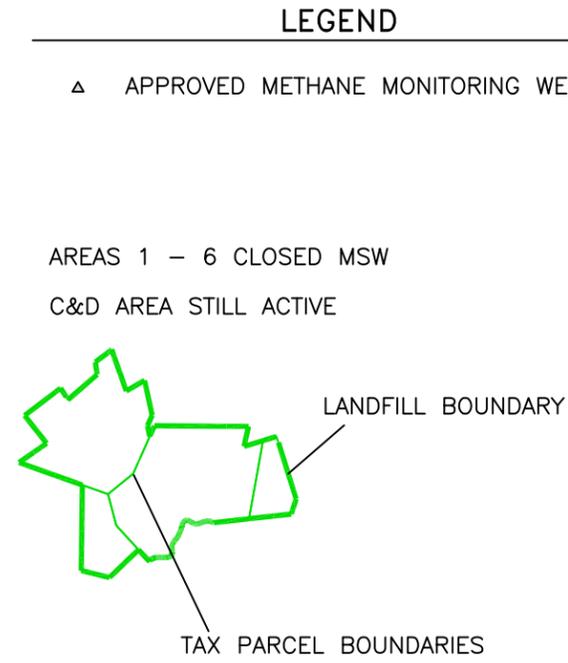
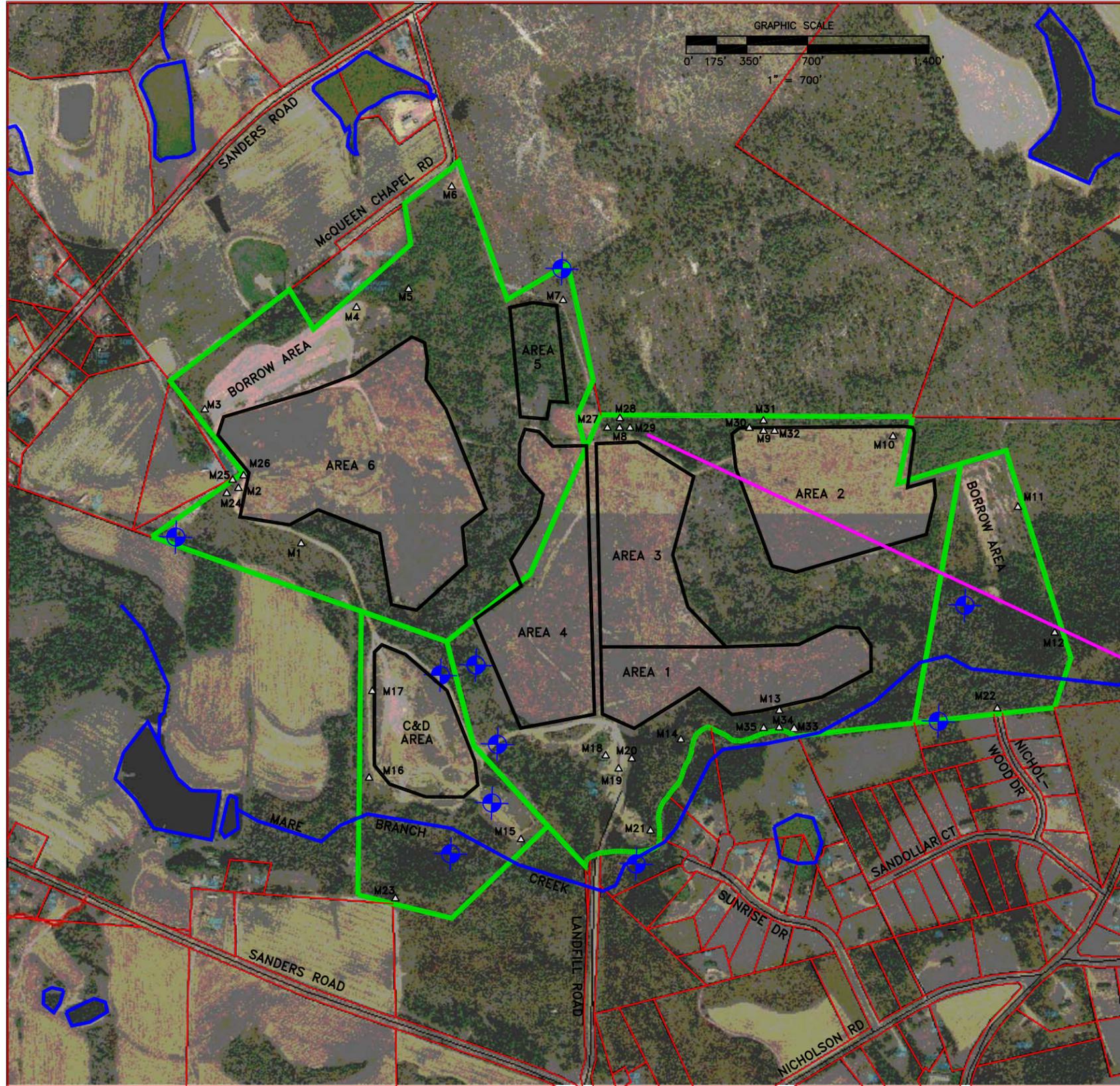
(NOTE: MAP ADAPTED FROM INFORMATION PROVIDED BY THE LEE COUNTY DEPARTMENT OF STRATEGIC SERVICES)



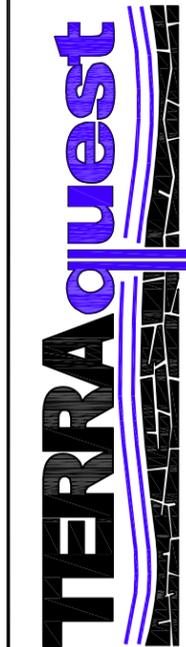
SITE VICINITY MAP

LEE COUNTY LANDFILL  
 331 LANDFILL ROAD  
 SANFORD, LEE COUNTY, NC 27332

LKEE COUNTY PUBLIC WORKS			SANFORD, NC	
PROJECT NO.	02296	DRAWN BY:	RDK	DATE: 5/16/08
SCALE:	1" = 1,000'	CHECKED BY:	MJB	FIGURE NO. 2



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



SITE LAYOUT MAP - AERIAL VIEW  
LEE COUNTY LANDFILL  
SANFORD, LEE COUNTY, NC

LEE COUNTY PUBLIC WORKS	SANFORD, NC
PROJECT NO: 02296	CHECKED BY: MJB
SCALE: 1" = 700'	DRAWN BY: RDK
	FIGURE NO. 3
	DATE: 5/16/08

Table 1

## METHANE MONITORING 5/9/08

Date: 5/16/08

Facility Name: Lee County Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECT DATE
53-01	SITE	SW325	325	ambient temperature	26.0	°C	NOON 5/9/08
53-01	SITE			barometric pressure	29.65	"Hg	NOON 5/9/08
53-01	SITE			barometric pressure	1003.9	hPA	NOON 5/9/08
53-01	M8	SW329	329	methane gas - OVM reading	100	%LEL	5/9/2008
53-01	M8	SW318	318	Depth To Water	11.19	feet	5/9/2008
53-01	M27	SW329	329	methane gas - OVM reading	100	%LEL	5/9/2008
53-01	M27	SW318	318	Depth To Water	9.68	feet	5/9/2008
53-01	M28	SW329	329	methane gas - OVM reading	100	%LEL	5/9/2008
53-01	M28	SW318	318	Depth To Water	7.74	feet	5/9/2008
53-01	M29	SW329	329	methane gas - OVM reading	100	%LEL	5/9/2008
53-01	M29	SW318	318	Depth To Water	8.37	feet	5/9/2008

NC DENR  
Division of Waste Management - Solid Waste

**Environmental Monitoring  
Reporting Form**

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

**Instructions:**

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

**Solid Waste Monitoring Data Submittal Information**

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

TerraQuest Environmental Consultants, P.C.

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

Name: Ryan 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	May 9, 2008

**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  Methane gas monitoring data  
 Groundwater monitoring data from private water supply wells  Corrective action data (specify) \_\_\_\_\_  
 Leachate monitoring data  Other(specify) \_\_\_\_\_  
 Surface water monitoring data

**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 Kerins Project Manager (919) 563-9091  
Facility Representative Name (Print) Title (Area Code) Telephone Number

Signature [Signature] Date 5/16/08  
Affix NC Licensed/ Professional Geologist/Engineer Seal here:

