

DENR USE ONLY:

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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):

Smith Gardner, Inc.

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

Name: Madeline German

Phone: 919-828-0577 x222

E-mail: madeline@smithgardnerinc.com

Facility name:

Facility Address:

Facility Permit #

NC Landfill Rule:  
(.0500 or .1600)

Actual sampling dates (e.g.,  
October 20-24, 2006)

Chatham County Closed MSW  
Landfill

811 County Landfill Road, Pittsboro, NC

19-01

.0500

February 26, 2016

### 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.

Madeline German, PG

Geologist

919-828-0577x222

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Signature

Date

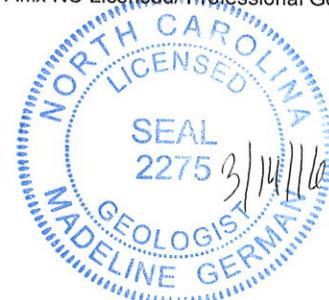
Affix NC Licensed/Professional Geologist Seal

14 N. Boylan Ave, Raleigh, NC 27603

Facility Representative Address

CO828

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





**NC Division of Waste Management - Solid Waste Section**  
**Landfill Gas Monitoring Data 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).

Facility Name: Chatham County Closed MSW Landfill Permit Number: 19-01  
 Date of Sampling: 2/26/16 NC Landfill Rule (.0500 or .1600): .0500  
 Name and Position of Sample Collector: Spencer W. Hollomon, Staff Engineer  
 Type and Serial Number of Gas Meter: Envision 1510204 Calibration Date of Gas Meter: 10/20/15  
 Date and Time of Field Calibration: 2/26/2016 10:00  
 Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 10/2018  
 Pump Rate of Gas Meter: 0.5 L/min  
 Ambient Air Temperature: 48 Barometric Pressure: 30.10 in Hg General Weather Conditions: Sunny

**Instructions:** Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume can be converted to % LEL as follows: % methane by volume = % LEL/20

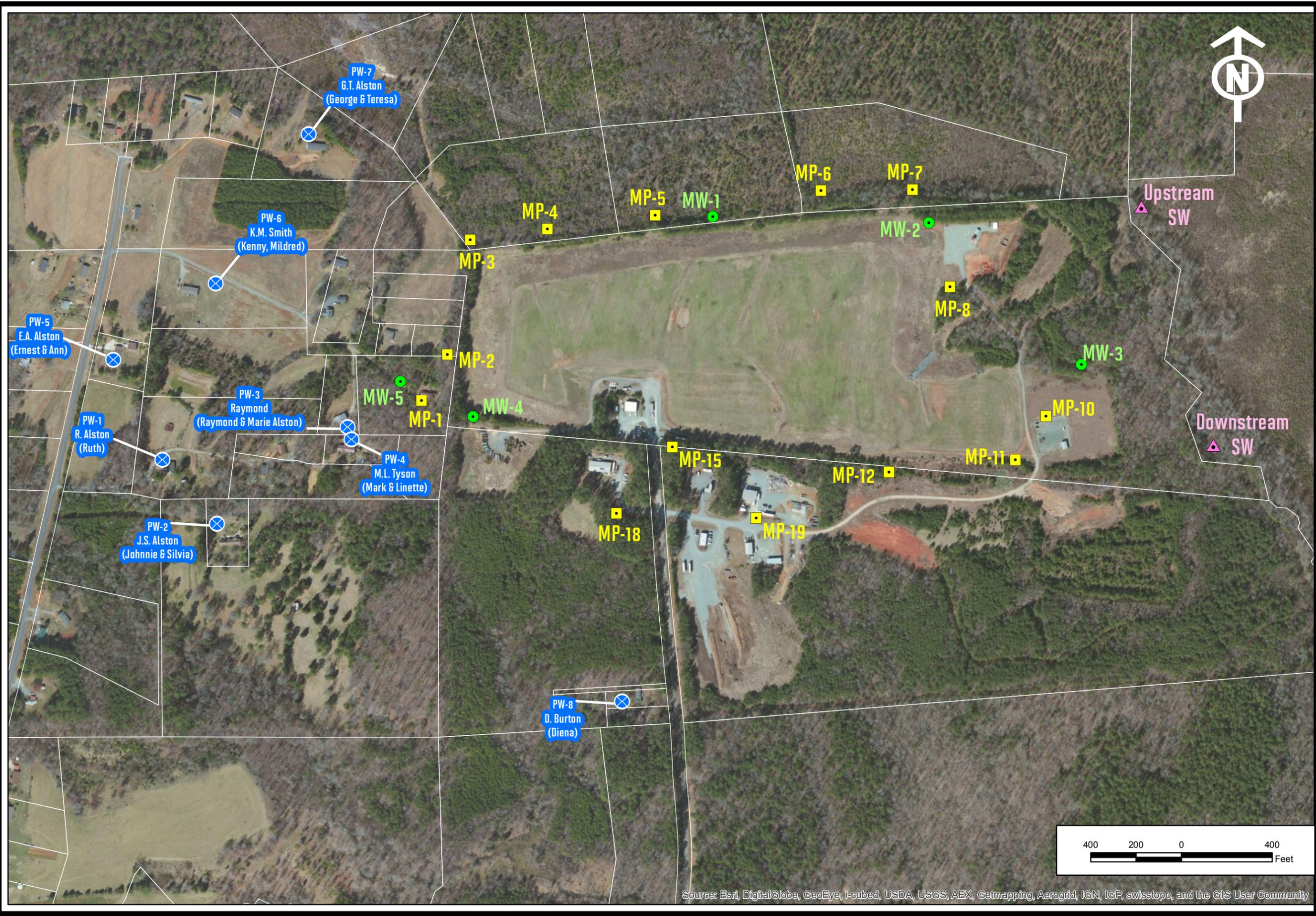
Location or LFG Well ID	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
Maint Bldg									
NE Corner	> 60 s	11:20	> 60 s	0	0	0	21.8	0	
SE Corner	> 60 s	11:22	> 60 s	0	0	0	21.2	0	
NW Corner	> 60 s	11:24	> 60s	0	0	0	21.8	0	
SW Corner	> 60 s	11:26	> 60 s	0	0	0	21.1	0	
Animal Shltr									
NW Side	> 60 s	11:44	> 60 s	0	0	0	21.8	0	
NE Side	> 60 s	11:46	> 60 s	0	0	0	21.0	0	
SE Side	> 60 s	11:48	> 60 s	0	0	0	21.8	0	
SW Side	> 60 s	11:50	> 60 s	0	0	0	21.0	0	
Office Bldg									
NE Corner	> 60 s	11:52	> 60 s	0	0	0	21.0	0	
SE Corner	> 60 s	11:54	> 60 s	0	0	0	21.8	0	
NW Corner	> 60 s	11:56	> 60 s	0	0	0	21.8	0	
SW Corner	> 60 s	11:58	> 60 s	0	0	0	21.1	0	
Admin Bldg									
SW Corner	> 60 s	12:00	> 60 s	0	0	0	21.7	0	
SE Corner	> 60 s	12:02	> 60 s	0	0	0	21.7	0	
NE Corner	> 60 s	12:04	> 60 s	0	0	0	21.2	0	
NW Corner	> 60 s	12:06	> 60 s	0	0	0	21.7	0	

If your facility has more gas monitoring locations than there is room on this form, please attach additional sheets listing the same information as contained on this form.

**Certification** To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Spencer W. Hollomon  
Digitally signed by Spencer W. Hollomon  
 DN: cn=Spencer W. Hollomon, email=spencer@solidwaste.nc.gov, Date: 2016.02.26 15:16:21 -0500  
 \_\_\_\_\_  
 SIGNATURE

**STAFF ENGINEER, S+G**  
 \_\_\_\_\_  
 TITLE



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

<b>SMITH + GARDNER</b> <small>NC LIC. NO. C-0828 (ENGINEERING)</small> <small>14 N. Boylan Avenue, Raleigh NC 27603   919.828.0577</small>									
<b>MONITORING NETWORKS</b> <b>CHATHAM COUNTY LANDFILL</b> <b>CHATHAM COUNTY, NC</b>	<table border="1"> <tr> <td> <small>DRAWN:</small> DMM         </td> <td> <small>APPROVED:</small> DMM         </td> <td> <small>SCALE:</small> 1:4800         </td> <td> <small>FIGURE NO.:</small> 1         </td> </tr> <tr> <td> <small>DATE:</small> Nov. 2013         </td> <td> <small>PROJECT NO.:</small> TBD         </td> <td colspan="2"> <small>FILENAME:</small> </td> </tr> </table>	<small>DRAWN:</small> DMM	<small>APPROVED:</small> DMM	<small>SCALE:</small> 1:4800	<small>FIGURE NO.:</small> 1	<small>DATE:</small> Nov. 2013	<small>PROJECT NO.:</small> TBD	<small>FILENAME:</small>	
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