

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):

Henderson County Solid Waste Facility

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

Name: Natalie J. Berry P.E.

Phone: (828) 694-6521

E-mail: nberry@hendersoncountync.org

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Henderson County Closed Landfill	191 Transfer Station Drive	45-01	.1600/.0500	June 26, 2014

### 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.

Natalie J. Berry P.E.

Assistant County Engineer

(828) 694-6521

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

*Natalie Jo Berry*  
Signature

6/27/2014

Date

Affix NC Licensed/ Professional Geologist Seal

100 N. King Street, Hendersonville, NC 28792

Facility Representative Address

NC 035614

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

Revised 6/2009





# Henderson County Engineering

## Solid Waste Division

100 N. King Street, Suite 210  
Hendersonville, North Carolina 28792  
(828) 694-6521 | [www.hendersoncountync.org](http://www.hendersoncountync.org)



June 27, 2014

Ms. Jaclynne Drummond  
Compliance Hydrogeologist  
North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
1646 Mail Service Center  
Raleigh, NC 27699-1646  
Phone: 1-919-707-8294

RE: Methane Monitoring results – second quarterly event of 2014  
Closed Henderson County Landfill, Permit No. 45-01  
Henderson County, North Carolina

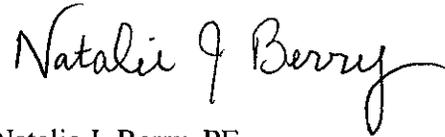
Dear Jaclynne,

Attached are the results from the June 26, 2014, second quarterly methane monitoring event conducted at the Henderson County Closed Landfill in 2014. These are the on-going methane gas monitoring events that take place since the landfill gas collection and monitoring system was removed April 2013 by Enerdyne. Golder Associates on behalf of Henderson County submitted a Landfill Gas Remediation Plan – Phase 1 Plan on September 26, 2013, in which this office responded October 17, 2013 in a positive manner. In the Phase I plan, a portion of the plan was to vent landfill gas extraction wells within the area of the exceedances.

As always during each methane gas monitoring event, when exceedances are indicated, Henderson County will continue to report them within 7 days to this office. If you refer to the attachment “Boundary Probe Monitoring Log” two monitoring wells (MP-5), and (TR-2) had detections of methane noted above the lower explosive limit (LEL) during this event. No methane was detected in the facility structures during this compliance monitoring event.

Please allow this letter report to act as the 7-day notification of methane exceedances as required by the North Carolina Solid Waste Management Regulations. As you know the exceedances are likely due to the recent shutdown of the active landfill gas system that was operated at the landfill by Enerdyne until April 2013. If you have any questions or concerns, please contact us at (828)-694-6521.

Sincerely,



Natalie J. Berry, PE  
Henderson County Engineering Department  
Assistant County Engineer

Attachments: Boundary Gas Probe Monitoring Log – June 26, 2014  
Methane Monitoring Location Map (provided by Golder Associates)  
Environmental Monitoring Reporting Form

cc: Marcus A. Jones PE, Director of Henderson County Engineering  
Greg Wiggins, Manager of Henderson County Solid Waste Operations  
Rachel Kirkman PG, Associate and Senior Geologist - Golder Associates  
David "Dusty" Y. Reedy II, PG, Senior Project Hydrogeologist – Golder Associates



DATE: 6/26/2014**BOUNDARY PROBE MONITORING LOG**Project Name: Henderson County Landfill  
Site Contact: Greg Wiggins, Operations ManagerDENR Permit Number: 45-01  
Technician(s): Natalie J Berry/Earl GillespieHigh Temperature: 85°  
Starting Barometric Pressure: 27.83  
Monitoring Equipment: Gem 2000 PlusLow Temperature: 85°  
End Barometric Pressure: 27.83

Monitoring Point	Time	% Methane (CH <sub>4</sub> )	% Carbon Dioxide (CO <sub>2</sub> )	% Oxygen (O <sub>2</sub> )	H <sub>2</sub> S (ppm)	Comments
MP-1	1:45:00 PM	0.0	4.5	16.2	0.0	Located outside of brickhouse
MP-3	1:55:00 PM	0.0	2.2	18.5	0.0	Located near old plant
MP-4	2:00:00 PM	1.1	9.0	12.4	0.0	Located in field past old plant
MP-5	2:10:00 PM	51.9	36.2	1.5	0.0	Located @ foot of drive to trace barn
MP-6	2:35:00 PM	2.7	3.1	16.0	0.0	Located hillside below trace barn
LFG-101	3:00:00 PM	0.0	4.0	12.0	0.0	Located below cc roadway
LFG-102	2:55:00 PM	0.0	3.4	15.0	0.0	Located next to cc roadway
LFG-103	2:40:00 PM	0.0	6.1	13.4	0.0	Located up employee road off cc road
TR-1	2:30:00 PM	0.0	2.3	17.6	0.0	Located to right of trace barn
TR-2	2:25:00 PM	9.8	16.5	8.0	0.0	Located in frt of trace barn on rt sde dry
TR-3	2:20:00 PM	0.0	13.2	9.1	0.0	Located above MP-5 on lft sde of drive
Activity Building	3:10:00 PM	0.1	0.0	20.5	0.0	Located at 800 Stoney Mtn Road
Animal Shelter	3:25:00 PM	0.0	0.0	20.7	0.0	Located at 828 Stoney Mtn Road
Break House	3:50:00 PM	0.0	0.0	20.6	0.0	Located at 802 Stoney Mtn Road
Bus Garage	3:20:00 PM	0.0	0.0	20.6	0.0	Located at 812 Stoney Mtn Road
Convenience Center	3:45:00 PM	0.0	0.0	20.5	0.0	Located at 265 Convenience Center Dr
Maintenance Shop	3:30:00 PM	0.1	0.0	20.7	0.0	Located at 256 Transfer Station Dr
Scalehouse	3:40:00 PM	0.0	0.0	20.6	0.0	Located at 191 Transfer Station Dr
Trace Barn	2:32:00 PM	0.0	0.0	19.7	0.0	Located at 234 Foxwood Dr

Completed by: Earl Gillespie/Natalie J. Berry