JOYCE
ENGINEERING

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January 15, 2013

Mr. Ervin Lane
Compliance Hydrogeologist
Division of Waste Management/Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: Wilkes County Dan Johnson Landfill, Permit No. 97-02
First Quarterly Gas Monitoring Results of 2013
JOYCE Project No. 356.1201.12, Task No. 04

Dear Kent:

Attached to this letter is the landfill gas monitoring log from the January 14, 2103, first quarterly event at the Wilkes County Dan Johnson Landfill, Permit Number 97-02. During this event, Joyce Engineering (JOYCE) monitored three gas probes for the presence of landfill gas. Methane was detected above the lower explosive limit (LEL) in Gas Probe GP-2 during this monitoring event. A copy of the monitoring results will be placed in the records for this facility. If we can provide any additional information, please call me or Van Burbach at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING

Adam Cox

Adam Cox
Field Consultant

Attachments: Landfill Gas Monitoring Log

C: Kent Brandon, Solid Waste Director

Landfill Gas Monitoring Data Form

Facility Name:	Dan Johnson Closed Landfill	Permit Number:	97-02
Date of Sampling:	01/14/13	Personnel:	A. Cox/ A. Freeman
Gas Monitor Type & Serial Number:	GEM 2000 GM05194	Calibration Date:	08/17/12
Field Calibration Date & Time:	01/14/2013 1115	Calibration Gas Type:	2.5% CH4, exp. 5-2013
General Weather Conditions:	Rain, 50s	Barometer :	29.93 In-Hg

Location or LFG Well ID	Instr. purged	Time	Probe Pressure (InWg)	Time Pumped (sec.)	CH_4 (%LEL)	CH_4 (%Vol)	Notes
BP-1	Y	1302	0.00	30	0.0	0.0	
BP-2	Y	1248	0.10	30	1150.0	57.5	Bar-hole50ft from from landfill, not detections
BP-3	Y	1251	0.00	30	0.0	0.0	

Abbreviations: LEL= Lower Explosive Limit

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):

Joyce Engineering

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

Name: G. Van Ness Burbach, Ph.D., P.G. Phone: (336) 323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Dan Johnson Landfill Wilkes County	Mailing Address: 9219 Elkin Highway Roaring River, NC 28669	97-02	.0500	January 14, 2013

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.

G. VanNess Burbach, Ph.D., PG — Technical Consultant — (336) 323-0092

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

Signature — Date 1/15/13

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

2211 West Meadowview Rd. Suite 101, Greensboro, NC 27407

Facility Representative Address

C-0782

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

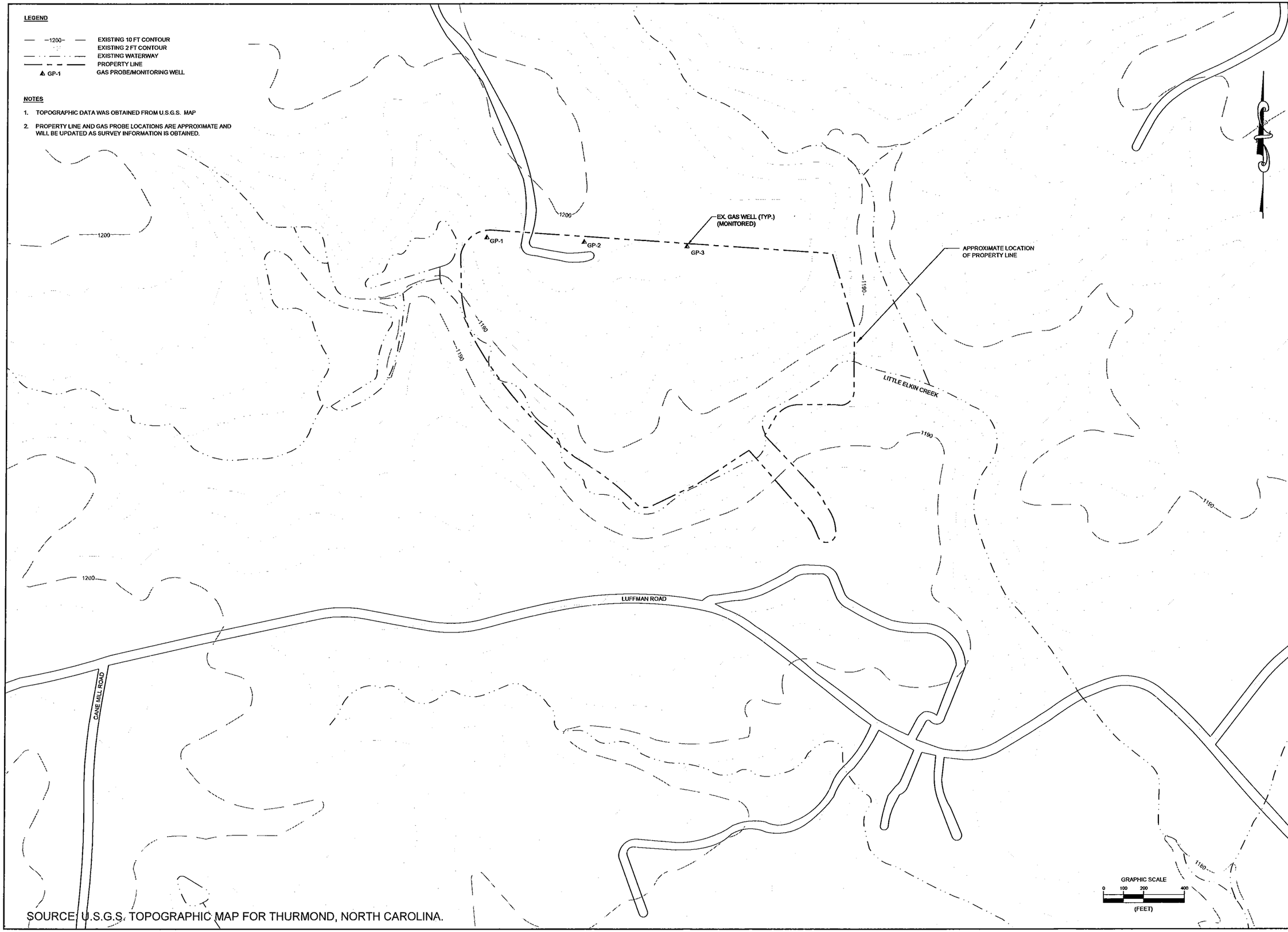
Revised 6/2009

LEGEND

- —1200— EXISTING 10 FT CONTOUR
- EXISTING 2 FT CONTOUR
- EXISTING WATERWAY
- PROPERTY LINE
- ▲ GP-1 GAS PROBE/MONITORING WELL

NOTES

1. TOPOGRAPHIC DATA WAS OBTAINED FROM U.S.G.S. MAP
2. PROPERTY LINE AND GAS PROBE LOCATIONS ARE APPROXIMATE AND WILL BE UPDATED AS SURVEY INFORMATION IS OBTAINED.



SOURCE: U.S.G.S. TOPOGRAPHIC MAP FOR THURMOND, NORTH CAROLINA.

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED HRW
DRAWN HRW
CHECKED DSG
APPROVED GVB
DATE 01/16/13

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NC CORP LIC: C-0782

DAN JOHNSON LANDFILL
WILKES COUNTY, NORTH CAROLINA

PERMIT 97-02
LANDFILL GAS MONITORING LOCATIONS

PROJECT NO.
356.1201.12.04

SCALE
AS SHOWN

DRAWING NO.
2

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