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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 3, 2018

CERTIFIED MAIL #7012 1010 0003 7402 1432
RETURN RECEIPT REQUESTED

Mr. Burgess Stengl, Environmental Manager
Blue Ridge Landfill TX, LP
P.O. Box 879
Fresno, Texas 77545

Re: Notice of Violation for the Methane Monitoring Investigation at:
Blue Ridge Landfill, 2200 FM 521 Rd., Fresno (Fort Bend County), Texas 77545
TCEQ Municipal Solid Waste Permit No.: 1505A

Dear Mr. Stengl:

On April 26, 2017 through November 21, 2017, Mr. Richard Blackney of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for municipal solid waste. Enclosed is a summary which lists the investigation findings.

During the investigation, a concern was noted which was an alleged violation that has been resolved based on subsequent corrective action. In addition, some concerns were noted which were additional issues for which compliance documentation is required. Please submit to this office within 30 days of receipt of this letter a written description of corrective action taken and the required documentation demonstrating that compliance has been achieved for the additional issues.

In the listing of the alleged violation, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <http://www.tceq.texas.gov> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Houston Region Office at (713) 767-3500 or the Central Office Publications Ordering Team at (512) 239-0028.

The TCEQ appreciates your assistance in this matter. If you have additional information that we are unaware of, you have the opportunity to contest the violation documented in this notice. Should you choose to do so, you must notify the Houston Region Office within 10 days from the date of this letter. At that time, Mr. Jason Ybarra, Waste Section Manager, will schedule a violation review meeting to be conducted within 21 days from the date of this letter. However, please be advised that if you decide to participate in the violation review process, the TCEQ may still require you to adhere to the compliance schedule included in the attached Summary of Investigation Findings until an official decision is made regarding the status of any or all of the contested violations.

Mr. Burgess Stengl
Page 2
January 3, 2018

If you or members of your staff have any questions, please feel free to contact Mr. Blackney in the Houston Region Office at (713) 767-3718.

Sincerely,

A handwritten signature in cursive script that reads "Alma L. Jefferson".

Alma L. Jefferson, Team Leader
Waste Section
Houston Region Office

ALJ/RLB/rsv

Enclosure: Summary of Investigation Findings

SUMMARY OF INVESTIGATION FINDINGS
Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
Methane Monitoring Investigation
Conducted on April 26, 2017

ALLEGED VIOLATION NOTED AND RESOLVED

The following alleged violation was noted and subsequently resolved based on corrective action performed by the facility:

30 Texas Administrative Code (TAC) §330.371(a)(1) / 30 TAC §330.121(a) / Landfill Gas Management Plan 3.2 Monitoring of Facility Structures

Owners or operators of all landfill units shall ensure that the concentration of methane gas generated by the facility does not exceed 1.25% by volume in facility structures. On-site structures shall be equipped with a continuous monitor/alarm that provides an audible alarm if methane concentrations exceed 1.25% by volume. During each quarterly sampling event, the continuous monitors' performance will be checked in accordance with the manufacturer's recommendations, with verification being documented in Landfill Gas Monitoring Reports.

Quarterly Gas Monitoring Reports reviewed did not indicate that the Trailer Annex has been monitored for the presence of methane gas. Gas monitoring reports did not document the verification of the performance of the continuous landfill gas monitor in the Trailer Annex.

Blue Ridge Landfill was requested to check the performance of the continuous gas monitor in the Trailer Annex during each quarterly sampling event and document the verification on Landfill Gas Monitoring Reports. The landfill was requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

This alleged violation was resolved based on documentation received from the facility on November 21, 2017, that indicated the verification of the performance of the continuous landfill gas monitor in the Trailer Annex.

OUTSTANDING ADDITIONAL ISSUES

1. Blue Ridge Landfill is requested to provide the date of installation of the Trailer Annex, as well as the date of the installation of the continuous gas monitor inside that structure.
2. Blue Ridge Landfill is requested to provide documentation of the factory calibration of the landfill gas monitoring device used during the gas monitoring conducted on April 26, 2017.
3. Blue Ridge Landfill is requested to provide the manufacturer's recommendations for calibrating, testing, and maintaining the continuous landfill gas monitors.

ADDRESSED ADDITIONAL ISSUE

At the time of the investigation, the quarterly gas monitoring reports did not indicate the expiration date of the calibration gases used during methane monitoring.

Blue Ridge Landfill was requested to provide the expiration date of the calibration gases used during the methane monitoring.

This additional issue was addressed on May 25, 2017 by the submittal of the facility's Second Quarter 2017 Gas Monitoring Report to the TCEQ Houston Region Office. The report provided the expiration date of the calibration gases used.

MSW PA_1505A_CO_20170426_Investigation Report
Texas Commission on Environmental Quality
Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

Customer: Blue Ridge Landfill TX, LP
Customer Number: CN602820599

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1416889

Investigator: RICHARD BLACKNEY

Conducted: 04/26/2017 -- 11/21/2017

Incident Numbers

Site Classification TYPE 1

SIC Code: 1521

NAIC Code: 486210

SIC Code: 4922

SIC Code: 4953

NAIC Code: 562212

Program(s): MUNICIPAL SOLID WASTE DISPOSAL

Investigation Type: Compliance Investigation

Location: LOCATED ON 2200 FM 521

Additional ID(s): 1505A

Address: 2200 FM 521 RD,
FRESNO, TX , 77545

Local Unit: REGION 12 - HOUSTON

Activity Type(s): IIIICH4 - Comprehensive evaluation
of a landfill's methane monitoring
system

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (281) 668-9739
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	DIVISION MANAGER	MR CHARLES WALKER	Work (713) 676-7611
PARTICIPATED IN	GAS TECHNICIAN	MR MARIO NUNEZ	Work (346) 224-1269

BLUE RIDGE LANDFILL - FRESNO

4/26/2017 to 11/21/2017 Inv. # - 1416889

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Other Staff Member(s):

Role	Name
Supervisor	JASON YBARRA
QA Reviewer	TOM COLLINS
Supervisor	ALMA JEFFERSON

Associated Check List

Checklist Name

MSW INVESTIGATION - EQUIPMENT
MONITORING AND SAMPLING revised 06/2013
MSW LANDFILL GAS
MSW GENERIC OTHER ISSUES OR VIOLATIONS

Unit Name

equipment
gas
generic

Investigation Comments:

INTRODUCTION

On April 26, 2017 through November 21, 2017, Mr. Richard Blackney, Environmental Investigator of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted a Municipal Solid Waste (MSW) Type I Methane Gas Monitoring Investigation at Blue Ridge Landfill (BRL) located at 2200 FM 521 Rd, (Fort Bend County), Texas 77545. Mr. Burgess Stengl, Environmental Manager, was notified of the impending investigation on April 18, 2017.

The investigation included an opening conference and gas probe sampling on April 26, 2017. On that day, BRL was represented by Mr. Stengl and Mr. Mario Nunez, Gas Technician. On May 2, 2017, Mr. Jason Ybarra, Waste Section Manager of the TCEQ Houston Region Office, joined the investigator for a review of gas records. On that day, BRL was represented by Mr. Stengl, Mr. Matt Montagna, Landfill Operations Manager and Mr. Charles Walker, Division Manager. An exit interview was conducted at BRL on May 4, 2017. Ms. Alma Jefferson, Waste Section Team Leader of the TCEQ Houston Region Office, was present on the day of the exit interview.

BACKGROUND

At the time of the investigation, BRL had active alleged violations for failure to prevent nuisance odor conditions and failure to perform surface emissions monitoring in accordance with 40 Code of Federal Regulations Part 60. Agreed Order Docket No. 2016-1923-AIR-E was proposed as a result of the alleged violations.

GENERAL FACILITY AND PROCESS INFORMATION

BRL is a Type I landfill, located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas and is authorized to operate by TCEQ MSW Permit No. 1505A. It is authorized to dispose of MSW including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2, and Class 3 non-hazardous industrial solid waste; and certain special wastes. Liquid waste will be accepted at the Liquid Waste Bulking Facility for stabilization and subsequent disposal. BRL may not accept regulated hazardous waste, prohibited polychlorinated biphenyls, or untreated medical waste. A Facility Location Map and information from the TCEQ Central Registry database are included in Attachment 1.

Landfill Gas (LFG) Activities:

LFG migration is monitored quarterly around the perimeter of the facility. A 2011 map of the locations of existing and proposed landfill gas probes is included in Attachment 2. Since that time, some of the proposed probes have come into use, and some of the existing probes have been abandoned. At the time of the investigation, 27 probes were monitored. The mechanic shop, scale house, lab room and a meeting room are also monitored for the presence of LFG.

Summary of on-site investigation:

Upon arrival on April 26, 2017, the investigator met Mr. Stengl and explained the purpose of the investigation, which was to conduct perimeter gas monitoring. Mr. Nunez arrived to conduct sampling for the landfill. Calibration of both the Landtec GEM 2000 LFG monitoring device used by the investigator and the Landtec GEM 2000 used by Mr. Nunez was conducted prior to sampling on April 26, 2017. The Calibration Log Sheet for the

BLUE RIDGE LANDFILL - FRESNO

4/26/2017 to 11/21/2017 Inv. # - 1416889

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device used by the TCEQ investigator is included in Attachment 3. Calibration of the TCEQ Landtec GEM 2000 LFG analyzer (serial No. 7153) was conducted in accordance with Standard Operating Procedures for the device.

The investigator accompanied the facility representatives at each of the gas monitoring probes located around the perimeter of the landfill property. Mr. Nunez analyzed the gas from each probe first, followed by Mr. Blackney analyzing the gas with the TCEQ device. All monitoring probes appeared to be in good condition, were well protected, and were locked. Concentrations of methane, oxygen, and carbon dioxide as measured by the TCEQ investigator are included in Attachment 4. The methane concentration at each of the probes was 0%.

Methane monitoring continued with indoor ambient air analysis at the on-site structures, which include the mechanic shop; the scale house, lab room and meeting room (which are in the same structure); and the Trailer Annex. Methane concentrations in each structure were 0%.

Review of Records:

A review of records pertaining to LFG was conducted on May 2, 2017. The facility's LFG Management Plan requires that on-site structures be equipped with a continuous monitor/alarm that provides an audible alarm if methane concentrations exceed 1.25% by volume. It states that during each quarterly sampling event, the continuous monitors' performance will be checked in accordance with the manufacturer's recommendations and that verification will be documented in LFG Monitoring Reports.

The investigator viewed quarterly LFG Reports for monitoring conducted on February 11, 2015, June 15, 2015, September 2, 2015, October 5, 2015, February 5, 2016, June 1, 2016, August 1, 2016, December 29, 2016 and January 30, 2017. There were no concentrations of methane gas that exceeded 5% by volume, which is the limit set by 30 Texas Administrative Code §330.371(a)(2).

Quarterly Gas Monitoring Reports reviewed did not indicate that the Trailer Annex has been monitored for the presence of methane gas. Gas monitoring reports did not document the verification of the performance of the continuous landfill gas monitor in the Trailer Annex. December 29, 2016 gas results are included in Attachment 5 as an example. This is discussed further in the Summary of Investigation Findings section.

In addition, the Quarterly Gas Monitoring Reports did not indicate the expiration date of the calibration gases used during methane monitoring.

ADDITIONAL INFORMATION

On May 4, 2017, the investigator visited the Trailer Annex and observed a continuous gas monitor in the structure.

On May 25, 2017, Mr. Stengl sent the investigator an electronic mail that included the landfill's second quarter gas monitoring report for the sampling conducted on April 26, 2017. Methane concentrations were zero for all readings. The report provided the expiration date of the calibration gases that were used for the monitoring, and is included in Attachment 6.

An Exit Interview Form was sent to the facility on June 8, 2017 (Attachment 7).

On November 21, 2017, Mr. Stengl sent the investigator an e-mail (Attachment 8) that included the landfill's third quarter gas monitoring report for sampling conducted on September 25, 2017. The report included documentation of the verification of the continuous landfill gas monitor in the Trailer Annex. The e-mail also included a revised version of the second quarter gas monitoring report.

SUMMARY OF INVESTIGATION FINDINGS

ALLEGED VIOLATION NOTED AND RESOLVED

The following alleged violation was noted and subsequently resolved based on corrective action performed by the facility:

30 Texas Administrative Code (TAC) §330.371(a)(1) / 30 TAC §330.121(a) / Landfill Gas Management Plan 3.2 Monitoring of Facility Structures (Category C4)

BLUE RIDGE LANDFILL - FRESNO

4/26/2017 to 11/21/2017 Inv. # - 1416889

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Owners or operators of all landfill units shall ensure that the concentration of methane gas generated by the facility does not exceed 1.25% by volume in facility structures. On-site structures shall be equipped with a continuous monitor/alarm that provides an audible alarm if methane concentrations exceed 1.25% by volume. During each quarterly sampling event, the continuous monitors' performance will be checked in accordance with the manufacturer's recommendations, with verification being documented in Landfill Gas Monitoring Reports.

Quarterly Gas Monitoring Reports reviewed did not indicate that the Trailer Annex has been monitored for the presence of methane gas. Gas monitoring reports did not document the verification of the performance of the continuous landfill gas monitor in the Trailer Annex.

Blue Ridge Landfill was requested to check the performance of the continuous gas monitor in the Trailer Annex during each quarterly sampling event and document the verification on Landfill Gas Monitoring Reports. The landfill was requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

This alleged violation was resolved based on documentation received from the facility on November 21, 2017, that indicated the verification of the performance of the continuous landfill gas monitor in the Trailer Annex.

OUTSTANDING ADDITIONAL ISSUES

1. Blue Ridge Landfill is requested to provide the date of installation of the Trailer Annex, as well as the date of the installation of the continuous gas monitor inside that structure.
2. Blue Ridge Landfill is requested to provide documentation of the factory calibration of the landfill gas monitoring device used during the gas monitoring conducted on April 26, 2017.
3. Blue Ridge Landfill is requested to provide the manufacturer's recommendations for calibrating, testing, and maintaining the continuous landfill gas monitors.

ADDRESSED ADDITIONAL ISSUE

At the time of the investigation, the quarterly gas monitoring reports did not indicate the expiration date of the calibration gases used during methane monitoring.

Blue Ridge Landfill was requested to provide the expiration date of the calibration gases used during the methane monitoring.

This additional issue was addressed on May 25, 2017 by the submittal of the facility's Second Quarter 2017 Gas Monitoring Report to the TCEQ Houston Region Office. The report provided the expiration date of the calibration gases used.

NOV Date 01/03/2018 **Method** WRITTEN

**ALLEGED VIOLATION(S) NOTED AND RESOLVED
ASSOCIATED TO A NOTICE OF VIOLATION**

Track Number: 660559

Resolution Status Date: 11/21/2017

Violation Start Date: Unknown

Violation End Date: 11/21/2017

30 TAC Chapter 330.121(a)

30 TAC Chapter 330.371(a)(1)

PERMIT 1505A, Landfill Gas Management Plan 3.2

During each quarterly sampling event, the continuous monitors' performance will be checked in accordance with the manufacturer's recommendations. The verification will be documented on the LGMR form.

Alleged Violation:

Investigation: 1416889

Comment Date: 11/21/2017

Owners or operators of all landfill units shall ensure that the concentration of methane gas generated by the facility does not exceed 1.25% by volume in facility structures. On-site structures shall be equipped with a continuous monitor/alarm that provides an audible alarm if methane concentrations exceed 1.25% by volume. During each quarterly sampling event, the continuous monitors' performance will be checked in accordance with the manufacturer's recommendations, with verification being documented in Landfill Gas Monitoring Reports.

Quarterly Gas Monitoring Reports reviewed did not indicate that the Trailer Annex has been monitored for the presence of methane gas. Gas monitoring reports did not document the verification of the performance of the continuous landfill gas monitor in the Trailer Annex.

Recommended Corrective Action: Blue Ridge Landfill was requested to check the performance of the continuous gas monitor in the Trailer Annex during each quarterly sampling event and document the verification on Landfill Gas Monitoring Reports. The landfill was requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

Resolution: This alleged violation was resolved based on documentation received from the facility on November 21, 2017, that indicated the verification of the performance of the continuous landfill gas monitor in the Trailer Annex.

Additional Issues

Description Other violations noted during the investigation? (If non-compliant then describe violation in the comment section.)

Additional Comments

Blue Ridge Landfill is requested to provide the date of installation of the Trailer Annex, as well as the date of the installation of the continuous gas monitor inside that structure.

Description Other violations noted during the investigation? (If non-compliant then describe violation in the comment section.)

Additional Comments

Blue Ridge Landfill is requested to provide documentation of the factory calibration of the landfill gas monitoring device used during the gas monitoring conducted on April 26, 2017.

Description Other violations noted during the investigation? (If non-compliant then describe violation in the comment section.)

Additional Comments

Blue Ridge Landfill is requested to provide the manufacturer's recommendations for calibrating, testing, and maintaining the continuous landfill gas monitors.

Description Other violations noted during the investigation? (If non-compliant then describe violation in the comment section.)

Additional Comments

At the time of the investigation, the quarterly gas monitoring reports did not indicate the expiration date of the calibration gases used during methane monitoring.

Blue Ridge Landfill was requested to provide the expiration date of the calibration gases used during the methane monitoring.

This additional issue was addressed on May 25, 2017 by the submittal of the facility's Second Quarter 2017 Gas Monitoring Report to the TCEQ Houston Region Office. The report provided the expiration date of the calibration gases used.

Signed Richard Bladonay
Environmental Investigator

Date 1-3-2018

Signed Alma L. Jefferson
Supervisor

Date 01/03/2018

Attachments: (in order of final report submittal)

☐ Enforcement Action Request (EAR)

☒ Letter to Facility (specify type) : NOV

☐ Investigation Report

☐ Sample Analysis Results

☐ Manifests

☐ Notice of Registration

☒ Maps, Plans, Sketches

☐ Photographs

☒ Correspondence from the facility

☒ Other (specify) :

See list of attachments

Blue Ridge Landfill
2200 FM 521 Rd, (Fort Bend County), Texas 77545
Municipal Solid Waste Permit No. 1505A
Methane Monitoring Investigation conducted April 26, 2017

LIST OF ATTACHMENTS

ATTACHMENT 1	Facility Site Map and Information from the TCEQ Central Registry Database
ATTACHMENT 2	Gas Probe Location map
ATTACHMENT 3	TCEQ Calibration Record
ATTACHMENT 4	TCEQ Gas Analysis Readings
ATTACHMENT 5	December 29, 2016 Gas Monitoring Results
ATTACHMENT 6	Blue Ridge Landfill 2 nd Quarter 2017 Gas Monitoring Report
ATTACHMENT 7	Exit Interview Form
ATTACHMENT 8	November 21, 2017 e-mail from Blue Ridge Landfill

ATTACHMENT 1

McHard Rd

Blue Ridge Landfill, Permit No. 1505 A

521

[Questions or Comments >>](#)[Query Home](#)[Customer Search](#)[RE Search](#)[ID Search](#)[Document Search](#)[Search Results](#)[TCEQ Home](#)

Central Registry Query - Regulated Entity Information

Regulated Entity Information

RN Number: RN102610102

Name: BLUE RIDGE LANDFILL

Primary Business: MUNICIPAL SOLID WASTE LANDFILL

Street Address: 2200 FM 521 RD, FRESNO TX 77545 8214

County: FORT BEND

Nearest City: FRESNO

State: TX

Near ZIP Code: 77545

Physical Location: LOCATED ON 2200 FM 521

Affiliated Customers - Current

Your Search Returned 5 Current Affiliation Records (View Affiliation History)

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

1-5 of 5 Records

CN Number ▲	Customer Name	Customer Role(s)	Details
CN600343826	BFI WASTE SYSTEMS OF NORTH AMERICA INC	OWNER OPERATOR	↔
CN601527963	BFI WASTE SERVICES OF TEXAS LP	OWNER	↔
CN601721657	LONGHORN EXCAVATORS INC	OPERATOR	↔
CN602620599	BLUE RIDGE LANDFILL TX LP	OWNER OPERATOR	↔
CN603713595	GRISHAM & JHA GROUP LLC	OPERATOR	↔

Industry Type Codes

Code	Classification	Name
562212	NAICS	Solid Waste Landfill
1521	SIC	General Contractors-Single-Family Houses
1629	SIC	Heavy Construction
1794	SIC	Excavation Work
4953	SIC	Refuse Systems

Permits, Registrations, or Other Authorizations

There are a total of 21 programs and IDs for this regulated entity. Click on a column name to change the sort order.

1-21 of 21 Records

Program ▲	ID Type	ID Number	ID Status
AIR EMISSIONS INVENTORY	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR NEW SOURCE PERMITS	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR NEW SOURCE PERMITS	AFS NUM	4815700111	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	32691	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	51882	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	55939	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	77271	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	77703	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	81004	ACTIVE
AIR OPERATING PERMITS	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR OPERATING PERMITS	PERMIT	1472	ACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	89429	ACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505	INACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505A	ACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	64950	ACTIVE
PETROLEUM STORAGE TANK STAGE II			
STORMWATER	PERMIT	TXR05N415	CANCELLED
STORMWATER	PERMIT	TXR05S302	ACTIVE
STORMWATER	PERMIT	TXR15N296	CANCELLED
STORMWATER	PERMIT	TXR15QJ54	EXPIRED
STORMWATER	PERMIT	TXR15RD60	EXPIRED

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Statewide Links: [Texas.gov](#) | [Texas Homeland Security](#) | [TxDOT Statewide Archive](#) | [Texas Veterans Portal](#)

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ATTACHMENT 2



1. TOPOGRAPHIC MAPPING PREPARED BY BASE MAPPING FROM AERIAL PHOTOGRAPHY FLOWN 2-08-10. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM SOUTH CENTRAL ZONE MAD 1983. ELEVATIONS ARE BASED ON NAVD 1988, 1991 ADJUSTMENT.
2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PROVIDED BY THE WILSON SURVEY GROUP DATED, JANUARY 2006.

ATTACHMENT 3

CALIBRATION LOG SHEET

Last Revision 01/29/2010

Manufacturer: LandTech Model: GEM 2000
 Serial Number : 7153 TCEQ Property No.: 040595-01
 Location: Region 10 Beaumont

SENSOR DATA- Operator Initials: RB

Sensor	CO	Methane	O2
Calibration Date	4 '25' 17	4 '25' 17	4 '25' 17
Cal Gas Applied	35 %	50 %	4 %
Actual Reading	35.7 %	50.4 %	4.4 %
Gas Lot No. Cylinder No.	TCAP-399-1	TCAP-399-1	TCAP-161-4-1
Gas Expires Date	2/26/2019	2/26/2019	2/26/2019

Notes: _____

SENSOR DATA - Operator Initials: RB

Sensor	CO	Methane	O2
Calibration Date	4 '26' 17	4 '26' 17	4 '26' 17
Cal Gas Applied	15 35 %	15 50 %	4 %
Actual Reading	15.1 %	15.3 %	4.4 %
Gas Lot No. Cylinder No.	1812846	1812846	4630199
Gas Expires Date	March 1, 2018	March 1, 2018	October 2019

Notes: recalibrated using different cylinders

SENSOR DATA - Operator Initials:

Sensor	CO	Methane	O2
Calibration Date	/ /	/ /	/ /
Cal Gas Applied	35 %	50 %	4 %
Actual Reading	%	%	%
Gas Lot No. Cylinder No.			
Gas Expires Date			

Notes: _____

ATTACHMENT 4

MSW LANDFILL GAS MONITORING REPORT

Regulated Entity Name:	Blue Ridge Landfill, MSW Permit No. 1505A	Meteorological Data <small>(source: KAXH weather station)</small>			
Investigator:	Richard Blackney	Pressure:	29.55 in	Temperature:	75.6 °F
Investigation Date:	April 26, 2017	Instrument Data			
Monitoring Probe Type:	Permanent GMP	Model:		GEM 2000	
Investigator Signature:	<i>Richard Blackney</i>	Serial Number:		7153	
Signature Date:	8-24-2017	Calibration Date:		April 26, 2017	

Probe No.	% Methane	% Oxygen	% Carbon Dioxide
8	0	13.0	4.5
7	0	20.5	0
6	0	20.5	0
5	0	20.5	0
4A	0	19.9	0.6
4B	0	20.1	0.1
3	0	17.4	2.6
2	0	14.4	1.7
9	0	20.3	0
10A	0	20.4	0
10B	0	20.4	0
12	0	7.6	4.8
13	0	7.6	4.5
14	0	20.4	0
15	0	20.3	0.1
16	0	9.1	4.5
17A	0	14.2	1.9
17B	0	2.8	3.9
18A	0	19.4	0.4
18B	0	18.9	0.3
33	0	20.2	0.4
34	0	20.6	0
35	0	20.6	0
36	0	20.6	0
37	0	7.5	7.0
1	0	2.9	6.3
11	0	20.3	0

ATTACHMENT 5

Explosive Gas Monitoring Report
Blue Ridge Landfill
Fresno, Texas



Date: 12/29/2016
 Time: 9:00 12:10
 Technician: Austin Holmes
 Monitoring Device: GEM 2000
 Air Temperature (deg F.): 70
 Date Last Calibrated: 12/29/2016
 Barometric Press (in Hg): 30.29
 Relative Humidity (%): 55%
 Weather Conditions: Overcast Skies

Quarterly Probe Monitoring:

Probe No.	Date/Time	Methane (%)	LEL (%)	Oxygen (%)	Pressure ("H2O)	COMMENTS
BLRGGM1	12/29/2016 9:22	0.0	0	22.3	0.03	
BLRGGM2	12/29/2016 9:25	0.0	0	21.2	0.01	
BLRGGM3	12/29/2016 9:28	0.0	0	21.6	0.04	
BLRGGM4A	12/29/2016 9:31	0.0	0	12.6	0.00	
BLRGGM4B	12/29/2016 9:32	0.0	0	20.0	0.00	
BLRGGM5	12/29/2016 9:35	0.0	0	22.2	0.01	
BLRGGM6	12/29/2016 9:37	0.0	0	22.2	-0.02	
BLRGGM7	12/29/2016 9:41	0.0	0	16.7	0.02	
BLRGGM8	12/29/2016 9:46	0.0	0	18.9	-0.01	
BLRGGM9	12/29/2016 9:49	0.0	0	18.5	0.02	
BLRGP10A	12/29/2016 9:53	0.0	0	9.9	-0.02	
BLRGP10B	12/29/2016 9:54	0.0	0	12.6	0.00	
BLRGGM11	12/29/2016 9:57	0.0	0	20.7	0.00	
BLRGGM12	12/29/2016 10:01	0.0	0	8.7	0.00	
BLRGGM13	12/29/2016 10:04	0.0	0	14.0	0.00	
BLRGGM14	12/29/2016 10:12	0.0	0	21.3	0.01	
BLRGGM15	12/29/2016 10:14	0.0	0	21.6	0.00	
BLRGGM16	12/29/2016 10:19	0.0	0	16.5	0.00	
BLRGP17A	12/29/2016 11:08	0.0	0	19.6	-0.01	
BLRGP17B	12/29/2016 11:11	0.0	0	20.4	0.00	
BLRGP18A	12/29/2016 11:14	0.0	0	20.5	0.00	
BLRGP18B	12/29/2016 11:15	0.0	0	13.8	-0.05	
BLRGP21A	12/29/2016 11:26	0.0	0	20.3	0.02	
BLRGP21B	12/29/2016 11:28	0.0	0	19.6	0.01	
BLRGGM33	12/29/2016 11:31	0.0	0	18.7	0.01	
BLRGGM34	12/29/2016 11:34	0.0	0	18.7	0.02	
BLRGGM35	12/29/2016 11:39	0.0	0	21.8	0.01	
BLRGGM36	12/29/2016 11:42	0.0	0	18.7	0.01	
BLRGGM37	12/29/2016 11:52	0.0	0	21.7	0.03	
BLRGMCSF	12/29/2016 11:56	0.0	0	22.0	0.00	Mechanic Shop
BLRGSCHS	12/29/2016 12:04	0.0	0	22.1	0.00	Scale House
BLRGLBRM	12/29/2016 11:58	0.0	0	22.1	0.01	Lab Room
BLRGMTRM	12/29/2016 11:55	0.0	0	22.0	0.02	Meeting Room

Onsite Structures	Verify if Continuous LFG Alarm is Operational		Continuous LFG Alarm Activated (LEL>25%) During Previous Quarter	
	Yes	No	Yes	No
Mechanic Shop	X			X
Scale House	X			X
Meeting Room	X			X

Additional Comments: Probe GMP 20 was plugged and abandoned on February 11, 2016 during cell expansion.

ATTACHMENT 6



Blue Ridge Landfill

Fresno, Texas

Explosive Gas Monitoring

2nd Quarter Report 2017

Prepared By:



Tetra Tech
3600 Brecksville Road
Richfield, Ohio 44286
(330) 659-5930

Explosive Gas Monitoring Report

Blue Ridge Landfill

Fresno, Texas



Date: 4/26/2017
 Time: 7:30 12:40 Date Last Calibrated: 4/26/2017
 Technician: Mario Nunez Barometric Press (in Hg): 29.58
 Monitoring Device: GEM 2000NAV Relative Humidity (%): 69%
 Air Temperature (deg F.): 78 Weather Conditions: Overcast Skies

Quarterly Probe Monitoring:

Probe No.	Date/Time	(%) Methane 1-100	(%) ¹ LEL 1-100	Pressure ("w.c.") ²	Oxygen (%)	Probe Integrity Verified Yes/No	COMMENTS
BRLCG001	4/26/2017 7:35	15.0	>100	71.60	0.0	N/A	Calibration
BRLCG002	4/26/2017 7:37	0.0	0	39.20	4.0	N/A	Calibration
BLRGMP1	4/26/2017 11:45	0.0	0	0.13	6.0	Yes	None
BLRGMP2	4/26/2017 9:28	0.0	0	0.14	15.4	Yes	None
BLRGMP3	4/26/2017 9:23	0.0	0	0.12	18.2	Yes	None
BLRGMP4A	4/26/2017 9:16	0.0	0	0.11	20.2	Yes	None
BLRGMP4B	4/26/2017 9:18	0.0	0	0.12	20.5	Yes	None
BLRGMP5	4/26/2017 9:11	0.0	0	0.12	21.0	Yes	None
BLRGMP6	4/26/2017 9:07	0.0	0	0.10	21.2	Yes	None
BLRGMP7	4/26/2017 9:00	0.0	0	0.12	21.1	Yes	None
BLRGMP8	4/26/2017 8:54	0.0	0	0.11	12.3	Yes	None
BLRGMP9	4/26/2017 9:44	0.0	0	0.24	20.6	Yes	None
BLGMP10A	4/26/2017 9:51	0.0	0	0.14	20.7	Yes	None
BLGMP10B	4/26/2017 9:53	0.0	0	0.14	20.7	Yes	None
BLRGMP11	4/26/2017 12:04	0.0	0	0.13	20.5	Yes	None
BLRGMP12	4/26/2017 10:00	0.0	0	0.10	10.5	Yes	None
BLRGMP13	4/26/2017 10:12	0.0	0	0.13	7.7	Yes	None
BLRGMP14	4/26/2017 10:23	0.0	0	0.01	20.7	Yes	None
BLRGMP15	4/26/2017 10:28	0.0	0	0.12	20.4	Yes	None
BLRGMP16	4/26/2017 10:34	0.0	0	0.07	10.8	Yes	None
BLGMP17A	4/26/2017 10:50	0.0	0	0.12	13.6	Yes	None
BLGMP17B	4/26/2017 10:51	0.0	0	0.11	4.7	Yes	None
BLGMP18A	4/26/2017 10:56	0.0	0	0.13	19.2	Yes	None
BLGMP18B	4/26/2017 10:58	0.0	0	-0.20	18.0	Yes	None
BLRGMP33	4/26/2017 11:07	0.0	0	0.07	20.3	Yes	None
BLRGMP34	4/26/2017 11:13	0.0	0	-0.04	20.6	Yes	None
BLRGMP35	4/26/2017 11:18	0.0	0	0.08	20.6	Yes	None
BLRGMP36	4/26/2017 11:25	0.0	0	0.05	20.6	Yes	None
BLRGMP37	4/26/2017 11:37	0.0	0	0.13	9.3	Yes	None
BLRGM CSP	4/26/2017 12:26	0.0	0	0.13	20.9	N/A	Mechanic Shop
BLRGSCHS	4/26/2017 12:33	0.0	0	0.16	20.9	N/A	Scale House
BLRGLBRM	4/26/2017 12:32	0.0	0	0.16	20.9	N/A	Lab Room
BLRGMTRM	4/26/2017 12:31	0.0	0	0.15	20.9	N/A	Meeting Room

Onsite Structures	Verify if Continuous LFG Alarm is Operational		Continuous LFG Alarm Activated (LEL>25%) During Previous Quarter	
	Yes	No	Yes	No
Mechanic Shop	X			X
Scalehouse	X			X
Meeting Room	X			X

1 % LEL = (20) x (observed % methane) - Note: Record >100% in LEL column if percent methane is over 5%

2 "w.c." - Inches Water Column

Additional Comments: Probe GMP20 was plugged and abandoned on February 11, 2016 during cell expansion. Probes GMP21A and GMP21B have been plugged and abandon due to cell expansion.



Blue Ridge Landfill

Fresno, Texas

Daily GEM Calibration Logs



REPUBLIC - Blue Ridge LF

Daily GEM Calibration Log

DATE: April 26, 2017

SITE: Blue Ridge LF

TECHNICIAN: Mario Nunez

INSTRUMENT S/N: GM10989

INSTRUMENT TYPE: GEM2000NAV

Calibration No. 1

TIME: 7:35

TEMP: 78

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

N/A

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

Lot: 1812846

Expiration Date of Calibration Gas:

March 2018

LOT #: 4 % O₂ / Balance Gas:

Lot: 4630099

Expiration Date of Calibration Gas:

Oct 2019

Calibration No. 2

TIME: N/A

TEMP: N/A

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

N/A

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

N/A

Expiration Date of Calibration Gas:

N/A

LOT #: 4 % O₂ / Balance Gas:

N/A

Expiration Date of Calibration Gas:

N/A

Calibration No. 3

TIME: N/A

TEMP: N/A

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

N/A

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

N/A

Expiration Date of Calibration Gas:

N/A

LOT #: 4 % O₂ / Balance Gas:

N/A

Expiration Date of Calibration Gas:

N/A



Blue Ridge Landfill

Fresno, Texas

Calibration Gas Certificate of Analysis



ANALYSIS CERTIFICATION

METHOD OF PREPARATION: GRAVIMETRIC / PRESSURE TRANSFILLING

ANALYTICAL PRINCIPLE: GAS CHROMATOGRAPHY (TCD)

ACCURACY:: $\pm 2\%$ Relative

LOT Number	COMP 1 CH ₄	COMP 2 CO ₂	COMP 3 N ₂	COMP 4	COMP 5	COMP 6	Exp Date
1812846	15%	15%	Balance				March/2018

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company. Results are in mole percent, unless otherwise indicated. Mixtures are prepared by either partial pressure or gravimetric method. Gas mixtures are traceable to N.I.S.T. weights and/or N.I.S.T. gas mixture reference materials

No effecting environmental conditions during analysis.

FILL PRESSURE 500 PSIG @ 70f

EXPIRATION DATE: March 1, 2018

CERTIFICATION DATE: February 26, 2015

ANALYSIS BY: Sue Kukte

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

The only liability of this company for gas which fails to comply with this analysis shall be replacement thereof by the company without extra cost.

LANDTEC North America, Inc.
850 S. Via Lata, Suite 112
Colton, CA 92324
Phone: (909) 783-3636 ♦ Fax: (909) 825-0591

ATTACHMENT 7

EXIT INTERVIEW FORM: Potential Violations and/or Records Requested

Regulated Entity/Site Name		Blue Ridge Landfill		TCEQ Add. ID No.		Permit No. 1505A	
Investigation Type	MSW	Contact Made In-House (Y/N)	Y	Purpose of Investigation	Methane Monitoring Investigation		
Regulated Entity Contact	Mr. Burgess Stengl			Date Contacted	4/26/2017		
Title	Environmental Manager			Date E-mailed:	6/8/2017		

NOTICE: The information provided in this Note is intended to provide clarity to issues that have arisen to the date of this Note during the investigation process between the agency and the company and *does not represent agency findings related to violations*. Any potential or alleged violations discovered after the date of this Note will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in this investigation's final report.

Issue		For Records Request, identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues, include the rule in question with the clearly described potential problem. Other type of issues: fully describe.	
No.	Type ¹	Rule Citation (if known)	Description of Issue
1	AV/ RR	30 Texas Administrative Code (TAC) §330.371(a)(1) 30 TAC §330.121(a) / Landfill Gas Management Plan 3.2 Monitoring of Facility Structures	Quarterly Gas Monitoring Reports give no indication that the Trailer Annex has been monitored for the presence of methane gas. Failure to document on gas monitoring reports the verification of the performance of the continuous landfill gas monitor in the Trailer Annex. Provide the date of installation of the Trailer Annex, as well as the date of the installation of the continuous gas monitor inside that structure.
2	O		The Quarterly Gas Monitoring Reports did not indicate the expiration date of the calibration gases used during methane monitoring. The 2 nd quarter 2017 Report received on May 25, 2017 included the expiration dates.
3	RR		Provide documentation of the factory calibration of the landfill gas monitoring device used during the gas monitoring conducted on April 26, 2017.
4	RR		Provide the manufacturer's recommendations for calibrating, testing, and maintaining the continuous landfill gas monitors.

Note 1: Issue Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the investigator advise the regulated entity representative that continued operation is not authorized?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Document Acknowledgment. Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

<i>Richard Blackney</i>	16-8-17	
Investigator Name (Signed & Printed)	Date	Regulated Entity Representative Name (Signed & Printed)
		Date

If you have questions about any information on this form, please contact your local TCEQ Regional Office. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282/

ATTACHMENT 8

Richard Blackney

From: Stengl, Burgess <[REDACTED]>
Sent: Tuesday, November 21, 2017 9:25 AM
To: Richard Blackney
Cc: Seely, Chance
Subject: RE: quarterly gas monitoring next Wednesday
Attachments: Blue Ridge - 3rd Quarter EGM Report 2017.pdf; Blue Ridge Landfill - 2nd Quarter EGM Report 2017.pdf

Richard, yes we have one from the day you were out in April (2nd quarter), and then the 3rd quarter also. The reporting sheets have been adjusted to add the Engineering Annex so to clearly identify it. See the attached.

Let me know if you have any additional questions.

Burgess Stengl
Environmental Manager

USPS: P.O. Box 879, Fresno, TX 77545
Overnight Pkgs: 2200 FM 521, Fresno, TX 77545
e [REDACTED]
o 713-676-7669 c 713-851-0506
f 713-676-7882 w www.RepublicServices.com



We'll handle it from here."

[REDACTED]

From: Richard Blackney [mailto:Richard.Blackney@tceq.texas.gov]
Sent: Monday, November 20, 2017 3:06 PM
To: Stengl, Burgess
Subject: RE: quarterly gas monitoring next Wednesday

Hello Burgess, since the time that you sent me your 2nd Quarter Gas Monitoring Report, have the subsequent reports indicated that the trailer/Engineering Annex has been monitored for methane?

Richard Blackney

From: Stengl, Burgess [mailto:[\[REDACTED\]](mailto:[REDACTED])]
Sent: Thursday, May 25, 2017 2:27 PM
To: Richard Blackney <Richard.Blackney@tceq.texas.gov>
Cc: Montagna, Matthew <[REDACTED]>
Subject: RE: quarterly gas monitoring next Wednesday



Blue Ridge Landfill

Fresno, Texas

Explosive Gas Monitoring

2nd Quarter Report 2017

Prepared By:



Tetra Tech
3600 Brecksville Road
Richfield, Ohio 44286
(330) 659-5930

Explosive Gas Monitoring Report

Blue Ridge Landfill

Fresno, Texas



Date: 4/26/2017
 Time: 7:30 12:40 Date Last Calibrated: 4/26/2017
 Technician: Mario Nunez Barometric Press (in Hg): 29.58
 Monitoring Device: GEM 2000NAV Relative Humidity (%): 69%
 Air Temperature (deg F.): 78 Weather Conditions: Overcast Skies

Quarterly Probe Monitoring:

Probe No.	Date/Time	(%) Methane 1 100	(%) ¹ LEL 1-100	Pressure ("w.c.") ²	Oxygen (%)	Probe Integrity Verified Yes/No	COMMENTS
BRLCG001	4/26/2017 7:35	15.0	>100	71.60	0.0	N/A	Calibration
BRLCG002	4/26/2017 7:37	0.0	0	39.20	4.0	N/A	Calibration
BLRGMP1	4/26/2017 11:45	0.0	0	0.13	6.0	Yes	None
BLRGMP2	4/26/2017 9:28	0.0	0	0.14	15.4	Yes	None
BLRGMP3	4/26/2017 9:23	0.0	0	0.12	18.2	Yes	None
BLRGMP4A	4/26/2017 9:16	0.0	0	0.11	20.2	Yes	None
BLRGMP4B	4/26/2017 9:18	0.0	0	0.12	20.5	Yes	None
BLRGMP5	4/26/2017 9:11	0.0	0	0.12	21.0	Yes	None
BLRGMP6	4/26/2017 9:07	0.0	0	0.10	21.2	Yes	None
BLRGMP7	4/26/2017 9:00	0.0	0	0.12	21.1	Yes	None
BLRGMP8	4/26/2017 8:54	0.0	0	0.11	12.3	Yes	None
BLRGMP9	4/26/2017 9:44	0.0	0	0.24	20.6	Yes	None
BLGMP10A	4/26/2017 9:51	0.0	0	0.14	20.7	Yes	None
BLGMP10B	4/26/2017 9:53	0.0	0	0.14	20.7	Yes	None
BLRGMP11	4/26/2017 12:04	0.0	0	0.13	20.5	Yes	None
BLRGMP12	4/26/2017 10:00	0.0	0	0.10	10.5	Yes	None
BLRGMP13	4/26/2017 10:12	0.0	0	0.13	7.7	Yes	None
BLRGMP14	4/26/2017 10:23	0.0	0	0.01	20.7	Yes	None
BLRGMP15	4/26/2017 10:28	0.0	0	0.12	20.4	Yes	None
BLRGMP16	4/26/2017 10:34	0.0	0	0.07	10.8	Yes	None
BLGMP17A	4/26/2017 10:50	0.0	0	0.12	13.6	Yes	None
BLGMP17B	4/26/2017 10:51	0.0	0	0.11	4.7	Yes	None
BLGMP18A	4/26/2017 10:56	0.0	0	0.13	19.2	Yes	None
BLGMP18B	4/26/2017 10:58	0.0	0	-0.20	18.0	Yes	None
BLRGMP33	4/26/2017 11:07	0.0	0	0.07	20.3	Yes	None
BLRGMP34	4/26/2017 11:13	0.0	0	-0.04	20.6	Yes	None
BLRGMP35	4/26/2017 11:18	0.0	0	0.08	20.6	Yes	None
BLRGMP36	4/26/2017 11:25	0.0	0	0.05	20.6	Yes	None
BLRGMP37	4/26/2017 11:37	0.0	0	0.13	9.3	Yes	None
BLRGM CSP	4/26/2017 12:26	0.0	0	0.13	20.9	N/A	Mechanic Shop
BLRGSCHS	4/26/2017 12:33	0.0	0	0.16	20.9	N/A	Scale House
BLRGLBRM	4/26/2017 12:32	0.0	0	0.16	20.9	N/A	Lab Room
BLRGMTRM	4/26/2017 12:31	0.0	0	0.15	20.9	N/A	Meeting Room

Onsite Structures	Verify if Continuous LFG Alarm is Operational		Continuous LFG Alarm Activated (LEL>25%) During Previous Quarter	
	Yes	No	Yes	No
Mechanic Shop	X			X
Scalehouse	X			X
Engineering Annex	X			X
Meeting Room	X			X

1 % LEL = (20) x (observed % methane) - Note: Record >100% in LEL column if percent methane is over 5%

2 "w.c." - Inches Water Column

Additional Comments: Probe GMP20 was plugged and abandoned on February 11, 2016 during cell expansion. Probes GMP21A and GMP21B have been plugged and abandon due to cell expansion.



Blue Ridge Landfill

Fresno, Texas

Daily GEM Calibration Logs



REPUBLIC - Blue Ridge LF

Daily GEM Calibration Log

DATE: April 26, 2017

SITE: Blue Ridge LF

TECHNICIAN: Mario Nunez

INSTRUMENT S/N: GM10989

INSTRUMENT TYPE: GEM2000NAV

Calibration No. 1

TIME: 7:35

TEMP: 78

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

N/A

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

Lot: 1812846

Expiration Date of Calibration Gas:

March 2018

LOT #: 4 % O₂ / Balance Gas:

Lot: 4630099

Expiration Date of Calibration Gas:

Oct 2019

Calibration No. 2

TIME: N/A

TEMP: N/A

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

N/A

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

N/A

Expiration Date of Calibration Gas:

N/A

LOT #: 4 % O₂ / Balance Gas:

N/A

Expiration Date of Calibration Gas:

N/A

Calibration No. 3

TIME: N/A

TEMP: N/A

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

N/A

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

N/A

Expiration Date of Calibration Gas:

N/A

LOT #: 4 % O₂ / Balance Gas:

N/A

Expiration Date of Calibration Gas:

N/A



Blue Ridge Landfill

Fresno, Texas

Calibration Gas Certificate of Analysis



ANALYSIS CERTIFICATION

METHOD OF PREPARATION: GRAVIMETRIC / PRESSURE TRANSFILLING

ANALYTICAL PRINCIPLE: GAS CHROMATOGRAPHY (TCD)

ACCURACY:: $\pm 2\%$ Relative

LOT Number	COMP 1 CH ₄	COMP 2 CO ₂	COMP 3 N ₂	COMP 4	COMP 5	COMP 6	Exp Date
1812846	15%	15%	Balance				March/2018

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company. Results are in mole percent, unless otherwise indicated. Mixtures are prepared by either partial pressure or gravimetric method. Gas mixtures are traceable to N.I.S.T. weights and/or N.I.S.T. gas mixture reference materials

No effecting environmental conditions during analysis.

FILL PRESSURE 500 PSIG @ 70f

EXPIRATION DATE: March 1, 2018

CERTIFICATION DATE: February 26, 2015

ANALYSIS BY: Sue Kukte

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

The only liability of this company for gas which fails to comply with this analysis shall be replacement thereof by the company without extra cost.

LANDTEC North America, Inc.
850 S. Via Lata, Suite 112
Colton, CA 92324
Phone: (909) 783-3636 ♦ Fax: (909) 825-0591



Blue Ridge Landfill

Fresno, Texas

Explosive Gas Monitoring

3rd Quarter Report 2017

Prepared By:



TETRA TECH

Tetra Tech
3600 Brecksville Road
Richfield, Ohio 44286
(330) 659-5930

Explosive Gas Monitoring Report

Blue Ridge Landfill

Fresno, Texas



Date: 9/25/2017
 Time: 10:17 15:28 Date Last Calibrated: 9/25/2017
 Technician: Mario Nunez Barometric Press (in Hg): 29.70
 Monitoring Device: GEM 2000NAV Relative Humidity (%): 84%
 Air Temperature (deg F.): 95 Weather Conditions: Overcast Skies

Quarterly Probe Monitoring:

Probe No.	Date/Time	(%) Methane 1-100	(%) ¹ LEL 1-100	Pressure ("w.c.") ²	Oxygen (%)	Probe Integrity Verified Yes/No	COMMENTS
BRLCG001	9/25/2017 10:17	15.0	>100	108.54	0.0	N/A	Calibration
BRLCG002	9/25/2017 10:19	0.0	0	75.06	3.9	N/A	Calibration
BLRGMP1	9/25/2017 12:48	0.0	0	-0.01	8.8	Yes	None
BLRGMP2	9/25/2017 10:58	0.0	0	0.01	19.9	Yes	None
BLRGMP3	9/25/2017 10:54	0.0	0	-0.01	12.9	Yes	None
BLRGMP4A	9/25/2017 10:43	0.0	0	-0.01	14.0	Yes	None
BLRGMP4B	9/25/2017 10:45	0.0	0	0.00	16.4	Yes	None
BLRGMP5	9/25/2017 10:40	0.0	0	0.00	20.2	Yes	None
BLRGMP6	9/25/2017 10:37	0.0	0	-0.01	20.2	Yes	None
BLRGMP7	9/25/2017 10:34	0.0	0	0.02	19.8	Yes	None
BLRGMP8	9/25/2017 10:30	0.0	0	-0.03	11.0	Yes	None
BLRGMP9	9/25/2017 14:05	0.0	0	-0.04	20.7	Yes	None
BLGMP10A	9/25/2017 11:25	0.0	0	-0.01	20.3	Yes	None
BLGMP10B	9/25/2017 11:22	0.0	0	-0.01	19.8	Yes	None
BLRGMP11	9/25/2017 11:28	0.0	0	0.00	20.4	Yes	None
BLRGMP12	9/25/2017 11:32	0.0	0	-0.02	10.4	Yes	None
BLRGMP13	9/25/2017 11:46	0.0	0	0.00	3.0	Yes	None
BLRGMP14	9/25/2017 11:53	0.0	0	-0.02	20.2	Yes	None
BLRGMP15	9/25/2017 11:56	0.0	0	-0.97	18.5	Yes	None
BLRGMP16	9/25/2017 12:01	0.0	0	0.00	19.4	Yes	None
BLGMP17A	9/25/2017 12:08	0.0	0	0.08	15.6	Yes	None
BLGMP17B	9/25/2017 12:10	0.0	0	0.00	7.8	Yes	None
BLGMP18A	9/25/2017 12:14	0.0	0	0.00	15.8	Yes	None
BLGMP18B	9/25/2017 12:16	0.0	0	0.00	9.3	Yes	None
BLRGMP33	9/25/2017 12:23	0.0	0	-0.01	20.3	Yes	None
BLRGMP34	9/25/2017 12:27	0.0	0	0.02	11.8	Yes	None
BLRGMP35	9/25/2017 12:31	0.0	0	0.01	11.3	Yes	None
BLRGMP36	9/25/2017 12:35	0.0	0	0.00	4.9	Yes	None
BLRGMP37	9/25/2017 12:42	0.0	0	0.02	3.9	Yes	None
BLRGMCS	9/25/2017 15:11	0.0	0	-0.02	21.1	N/A	Mechanic Shop
BLRGSCHS	9/25/2017 15:21	0.0	0	0.00	21.3	N/A	Scale House
BLRGLBRM	9/25/2017 15:28	0.0	0	0.00	21.2	N/A	Lab Room
BLRGMTRM	9/25/2017 15:16	0.0	0	-0.01	21.3	N/A	Meeting Room

Onsite Structures	Verify if Continuous LFG Alarm is Operational		Continuous LFG Alarm Activated (LEL>25%) During Previous Quarter	
	Yes	No	Yes	No
Mechanic Shop	X			X
Scalehouse	X			X
Engineering Annex	X			X
Meeting Room	X			X

1 % LEL = (20) x (observed % methane) - Note: Record >100% in LEL column if percent methane is over 5%

2 "w.c." - Inches Water Column

Additional Comments: Probe GMP20 was plugged and abandoned on February 11, 2016 during cell expansion. Probes GMP21A and GMP21B have been plugged and abandon due to cell expansion.



Blue Ridge Landfill

Fresno, Texas

Daily GEM Calibration Logs



REPUBLIC - Blue Ridge LF

Daily GEM Calibration Log

DATE: September 25, 2017

SITE: Blue Ridge LF

TECHNICIAN: Mario Nunez

INSTRUMENT S/N: GM13058

INSTRUMENT TYPE: GEM2000nav

Calibration No. 1

TIME: 10:17

TEMP: 82

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

Lot: TKAP-399-S-1

LOT #: 4 % O₂ / Balance Gas:

4630099

Calibration No. 2

TIME:

TEMP:

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

LOT #: 4 % O₂ / Balance Gas:

Calibration No. 3

TIME:

TEMP:

LOT #: 50% CH₄ / 35% CO₂ / Balance Gas:

(Probes Only) LOT #: 15% CH₄ / 15% CO₂ / Balance Gas:

LOT #: 4 % O₂ / Balance Gas:



Blue Ridge Landfill

Fresno, Texas

Calibration Gas Certificate of Analysis



ANALYSIS CERTIFICATION

METHOD OF PREPARATION: GRAVIMETRIC / PRESSURE TRANSFILLING

ANALYTICAL PRINCIPLE: GAS CHROMATOGRAPHY (TCD)

ACCURACY:: $\pm 2\%$ Relative

LOT Number	COMP 1 CH ₄	COMP 2 CO ₂	COMP 3 N ₂	COMP 4	COMP 5	COMP 6	Exp Date
1812846	15%	15%	Balance				March/2018

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company. Results are in mole percent, unless otherwise indicated. Mixtures are prepared by either partial pressure or gravimetric method. Gas mixtures are traceable to N.I.S.T. weights and/or N.I.S.T. gas mixture reference materials

No effecting environmental conditions during analysis.

FILL PRESSURE 500 PSIG @ 70f

EXPIRATION DATE: March 1, 2018

CERTIFICATION DATE: February 26, 2015

ANALYSIS BY: Sue Kukte

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

The only liability of this company for gas which fails to comply with this analysis shall be replacement thereof by the company without extra cost.

LANDTEC North America, Inc.
850 S. Via Lata, Suite 112
Colton, CA 92324
Phone: (909) 783-3636 ♦ Fax: (909) 825-0591