

File Copy

1505A

Investigation # 1323599



MSW PA\_1505A\_CO\_20160406\_Investigation Report  
Texas Commission on Environmental Quality  
Investigation Report

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

**Regulated Entity Name: BLUE RIDGE LANDFILL**

**Regulated Entity Number: RN102610102**

INFORMATION COPY  
FOR R12 FILE ROOM

**Investigation # 1323599**

**Incident Numbers**

230093	230956
230952	230959
230782	230802
230810	230958
230094	230977
230975	230769
230775	230770
230803	230776
230800	230801
230811	229469
230955	230812
230981	230942
230096	230804
230786	230796
230778	230813
230950	230957
230916	229466
230943	230973
230794	230979
230809	230976
230783	229468
230982	229467

**Investigator:** RICHARD BLACKNEY

**Site Classification** TYPE 1

**Conducted:** 04/06/2016 -- 06/10/2016

**NAIC Code:** 562212

**SIC Code:** 4953

**SIC Code:** 1521

**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):** MSWC MPL - Investigation of MSW  
complaint

**Principal(s):**

**Role**

**Name**

RESPONDENT

BLUE RIDGE LANDFILL TX LP

**Contact(s):**

Role	Title	Name	Phone
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	AREA MANAGER POST COLLECTION OPERATIONS	MR MARK MEADOWS	Work (254) 221-4437
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (281) 835-6142

**Other Staff Member(s):**

Role	Name
Supervisor	ALMA JEFFERSON
QA Reviewer	TOM COLLINS

**Associated Check List**

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	1505A

**Investigation Comments:**

**INTRODUCTION**

On March 21 and 28, and April 4, 5 and 6, 2016, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 44 complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on March 21, 25 and 27, and April 2, 3, 4 and 5, 2016.

On April 6, 2016, Mr. Richard Blackney, Environmental Investigator of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted an unannounced Odor Complaint Investigation at BRL and the area surrounding it.

**BACKGROUND**

On December 18, 2015, during Investigation No. 1300533, an alleged violation for erosion of cover was noted at BRL, and remains outstanding.

On March 29, 2016, Mr. Burgess Stengl, Environmental Manager for Republic Services, sent the investigator photographs (Attachment 1) showing repairs made to a portion of the eastern slope of the landfill.

**GENERAL FACILITY AND PROCESS INFORMATION**

BRL's authorization numbers from the TCEQ Central Registry database are included in Attachment 2. BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste (MSW) Permit No. 1505A.

The landfill is authorized to accept municipal solid waste including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2 and Class 3 non-hazardous industrial waste; and liquid wastes. Class 1 waste is buried in the designated Class 1 cell of the landfill. Liquid wastes are sent to a bulking facility/solidification basin prior to disposal in the landfill. Hazardous waste may not be accepted for disposal.

The waste acceptance hours are Monday through Friday, 4:00 am to 5:00 pm, and Saturdays from 5:30 am to 12:00 pm. The surrounding land use includes industrial facilities and residential subdivisions.

Complainant Information:

See confidential files (TCEQ Incident Nos. 229466, 229467, 229468, 229469, 230093, 230094, 230096, 230769, 230770, 230775, 230776, 230778, 230782, 230783, 230786, 230794, 230796, 230800, 230801, 230802, 230803, 230804, 230809, 230810, 230811, 230812, 230813, 230916, 230942, 230943, 230950, 230952, 230955, 230956, 230957, 230958, 230959, 230973, 230975, 230976, 230977, 230979, 230981, and 230982).

Description of Alleged Effects:

A complainant described vomiting due to the odor, and a complainant described headaches.

Meteorological data at the time of the odor survey:

Wind direction: W/WSW

Wind Speed: 5.6 to 6.2 mph

Temperature: 69.6 to 70.5°F

Meteorological data taken from TCEQ's continuous air monitoring stations (Attachment 3).

Odor Survey:

The investigator arrived at the first survey point located at the 2600 block of Tidenhaven Drive in Pearland. Odor Survey (OS) No. 1 took place downwind of BRL and was conducted at 9:17 a.m. No odors were detected during the 15 minutes spent at OS No. 1.

The investigator went to OS No. 2 located at the 13800 block of Lilac View Court in Pearland. OS No. 2 took place downwind of BRL and was conducted at 9:42 a.m. Odors typical of landfill garbage were detected intermittently during the 15 minutes spent at OS No. 2, averaging to very light.

The investigator then went to OS No. 3 located at the 2800 block of Raven Ridge in Pearland. OS No. 3 took place crosswind of BRL and was conducted at 10:02 a.m. No odors were detected during the 15 minutes spent at OS No. 3.

The investigator then went to OS No. 4 located at the 13300 block of Barons Cove Lane in Pearland. OS No. 4 took place crosswind of BRL and was conducted at 10:25 a.m. No odors were detected during the 15 minutes spent at OS No. 4.

Aerial view maps of the OS locations and the OS logs are included in Attachment 3.

Summary of on-site investigation:

Following the odor survey, the investigator arrived at BRL, and met with Mr. Stengl; Mr. Matt Montagna, Landfill Operations Manager; and Mr. Mark Meadows, Area Manager Post-Collection Operations, to whom the purpose and scope of the investigation were explained. The facility representatives drove the investigator to the solidification basin, where ground wood was seen being mixed with liquid waste prior to disposal at the working face. BRL has a system of misters for the purpose of neutralizing odors, which has been extended by hundreds of feet on the eastern side of the landfill. The investigator viewed the new extension of the misting system in operation.

BRL receives Class I waste in its Class 1 disposal cell Monday through Friday, and receives MSW in the MSW cell Monday through Saturday. Six inches of soil is applied to the Class 1 cell and MSW cell at the end of each operating day. The investigator viewed the MSW and Class 1 working faces, by which piles of soil were observed. The investigator obtained copies of the cover logs for March 2016 and April 2016 (Attachment 4). The cover logs indicate that soil is applied to the working faces as required.

On the eastern slope of the landfill, the investigator viewed an area where erosion had previously been observed. That erosion gully had been repaired, but another erosion gully was noted. A photograph, taken by the investigator, is included in Attachment 5. On the western side of the landfill, the investigator observed that soil had been laid as part of BRL's effort to address all areas of erosion.

Description of Odor:

Odors typical of landfill garbage were detected during the odor survey.

Description of the Effects on the Investigator:  
No health effects were experienced by the investigator.

Description of the Terrain Features of the Area:  
Terrain is flat with residences and businesses.

Location of the Source of the Odor:  
The alleged source of the odor is BRL.

#### ODOR FIDO CHART EVALUATION:

According to the Frequency Intensity Duration Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As odors were previously detected coming from BRL during an investigation (No. 1308059) conducted on February 2, 2016, the frequency of odors documented by the Waste Section investigator is a "quarterly occurrence".

According to the Frequency, Intensity, Duration, and Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As odors were previously detected coming from BRL during an investigation (No. 1308059) conducted on February 2, 2016, the frequency of odors documented by the Waste Section investigator is a "quarterly occurrence".

Physical Effects Experienced by the Investigator which are Indicative of Adverse Effects upon Health:  
The investigator did not experience any physical effects during the investigation.

Normal use of Property Affected by the Odor and the Manner in which such Odor could Reasonably be Expected to Interfere with this Use:  
According to FIDO protocol, a nuisance condition was not confirmed.

#### SUMMARY OF INVESTIGATION FINDINGS

##### OUTSTANDING ALLEGED VIOLATION

The following alleged violation was noted during the investigation conducted on December 18, 2015 and remains outstanding:

Site Operating Plan 4.18 / 30 Texas Administrative Code §330.165(g) – Landfill Cover (Category C4)

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover. On January 5, 2016, the facility representative sent photographs to the TCEQ showing repair of cover at the northern slope. On March 2, 2016, that area was observed in person to have been fully repaired. However, another area of erosion of cover was observed on the eastern slope. On March 29, 2016, the facility representative sent the investigator photographs showing repairs made to that portion of the eastern slope. The repair was observed in person on April 6, 2016, but another area of erosion was also observed.

Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

##### OUTSTANDING ALLEGED VIOLATION(S)

**Track Number:** 598524

**Compliance Due Date:** To Be Determined

**Violation Start Date:** Unknown

**30 TAC Chapter 330.165(g)**

**PERMIT 1505A, Site Operating Plan 4.18.3**

Erosion gullies or washed-out areas will be repaired within 5 days of detection by restoring the cover material, grading, compacting, and seeding.

**Alleged Violation:**

**Investigation: 1300533**

Comment Date: 03/18/2016

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

**Investigation: 1308059**

Comment Date: 04/05/2016

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

**Investigation: 1314675**

Comment Date: 04/22/2016

Compliance with this regulation was evaluated during investigations on February 2, 2016 and March 2, 2016.

**Investigation: 1320039**

Comment Date: 05/16/2016

Compliance with this regulation was evaluated during the investigation on March 14, 2016.

**Investigation: 1323599**

Comment Date: 06/02/2016

Compliance with this regulation was evaluated during the investigation conducted on April 6, 2016.

**Recommended Corrective Action:** On January 5, 2016, the facility representative sent photographs to the TCEQ showing repair of cover. On February 2, 2016, the area was observed by the investigator to have been largely repaired, but it appeared there remained some gullies where cover was eroded by more than four inches. On March 2, 2016, the area appeared to have been repaired, and the cover log from February 2016 was viewed which indicated that repair of cover was completed on February 13, 2016. However, on March 2, 2016, another area of erosion of cover was observed. Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

Signed Richard Blackman  
Environmental Investigator

Date 07/01/2016

Signed Alma L. Jefferson  
Supervisor

Date 07/01/2016

**Attachments: (in order of final report submittal)**

- Enforcement Action Request (EAR)
- Letter to Facility (specify type): additional compliance request
- Investigation Report
- Sample Analysis Results
- Manifests
- Notice of Registration

- Maps, Plans, Sketches
- Photographs
- Correspondence from the facility
- Other (specify): see list of attachments



Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Jon Niermann, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

July 1, 2016

**CERTIFIED MAIL # 7002 2030 0003 4748 4220**  
**RETURN RECEIPT REQUESTED**

Mr. Burgess Stengl, Environmental Manager  
Blue Ridge Landfill TX, LP  
5757 Oates Road, Suite A  
Houston, Texas 77078

Re: Additional Compliance Documentation Needed for:  
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 6, 2016, 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 a previous investigation on December 18, 2015, a concern was noted which was an alleged violation.

We have received the compliance documentation that you submitted January 5, 2016 and March 29, 2016. However, information is still needed for the alleged violation listed in the enclosed summary. Please submit to our office within 30 days of receipt of this letter a written description of corrective action taken and the required compliance documentation demonstrating that this issue has been resolved.

The TCEQ appreciates your assistance in this matter and your compliance efforts to protect the State's environment. We look forward to receiving your response for the remaining alleged violation. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements.

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  
MSW Complaint Investigation  
Conducted on April 6, 2016

### OUTSTANDING ALLEGED VIOLATION

The following alleged violation was noted during the investigation conducted on December 18, 2015 and remains outstanding:

**Site Operating Plan 4.18.3 / 30 Texas Administrative Code §330.165(g) - Landfill Cover**

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

On January 5, 2016, the facility representative sent photographs to the TCEQ showing repair of cover at the northern slope. On March 2, 2016, that area was observed in person to have been fully repaired. However, another area of erosion of cover was observed on the eastern slope. On March 29, 2016, the facility representative sent the investigator photographs showing repairs made to that portion of the eastern slope. The repair was observed in person on April 6, 2016, but another area of erosion was also observed.

Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

## CERTIFIED MAIL RECEIPT CARD ("Green Card")

Division/Region: OCE-R12 Section: Waste  
 Record Series: MSW  
 Primary Identification Number(Acc/VRN): 1505A  
 Secondary Identification Number(Permit): \_\_\_\_\_  
 Facility: Blue Ridge Date of Letter: 7-1-16  
 Regarding: Other

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) \_\_\_\_\_ B. Date of Delivery 7-7-16

C. Signature: [Signature]  Agent  Addressee

D. Is delivery restricted item?  Yes  No  
 If YES, enter delivery address below:

JUL 08 2016

**REGION 12**

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.  
 4. Restricted Delivery? (Extra Fee)  Yes

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
  
**Mr. Burgess Stengl**  
**Environmental Manager**  
**Blue Ridge Landfill TX, LP**  
**5757 Oates Road, Ste A**  
**Houston, TX 77078**

2. Article Number ( 7002 2030 0003 4748 4220 ) Domestic Return Receipt

PS Form 3811, July 1999 102595-00-M-0992

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE

Postage	\$ <u>1505A</u>	Postmark Here
Certified Fee	<u>R BlackKns</u>	
Return Receipt Fee (Endorsement Required)	<u>7.1.16</u>	
Restricted Delivery Fee (Endorsement Required)	<u>Other</u>	
Total Postage		
Sent To		
Mr. Burgess Stengl		
Environmental Manager		
Blue Ridge Landfill TX, LP		
5757 Oates Road, Ste A		
Houston, TX 77078		

PS Form 3800, June 2002 See Reverse for Instructions

ENTERED  
7-12-16  
 RSV



**Blue Ridge Landfill**  
**2200 F.M. 521, Fresno (Fort Bend County), TX 77545**  
**Municipal Solid Waste Permit No. 1505A**  
**MSW Complaint Investigation**  
**Conducted on April 6, 2016**

List of Attachments

- |              |                                                           |
|--------------|-----------------------------------------------------------|
| Attachment 1 | Photographs sent by Blue Ridge Landfill on March 29, 2016 |
| Attachment 2 | Central Registry Information for Blue Ridge Landfill      |
| Attachment 3 | Map of Odor Survey locations and Odor Logs                |
| Attachment 4 | March and April 2016 Cover logs                           |
| Attachment 5 | Photograph taken on April 6, 2016 by Mr. Blackney         |

# ATTACHMENT 1

**Richard Blackney**

---

**From:** Stengl, Burgess <[REDACTED]>  
**Sent:** Tuesday, March 29, 2016 11:15 AM  
**To:** Richard Blackney  
**Cc:** Montagna, Matthew  
**Subject:** Blue Ridge Landfill - Phase III East Side Slope Pics  
**Attachments:** 2016-03-25 10.24.01.jpg; 2016-03-25 10.23.32.jpg

Richard, per our discussion, attached are the pictures showing the repairs made on the east slope of Phase 3 of the Blue Ridge Landfill (MSW 1505A).

Please let me know if you have any questions, or need additional information.

Thank you,

**Burgess Stengl**  
Environmental Manager

5757A Oates Road, Houston, TX 77078

e [REDACTED]  
o 713-676-7669 c [REDACTED]  
f 713-676-7882 w [www.RepublicServices.com](http://www.RepublicServices.com)



We'll handle it from here."

[REDACTED]









# **ATTACHMENT 2**



Questions or Comments &gt;&gt;

[Query Home](#)[Customer Search](#)[RE Search](#)[ID Search](#)[Document Search](#)[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)**1-5 of 5 Records**

CN Number	Customer Name	Customer Role	Details
CN600343826	BFI WASTE SYSTEMS OF NORTH AMERICA INC	OWNER OPERATOR	↔
CN601527963	BFI WASTE SERVICES OF TEXAS LP	OWNER	↔
CN601721657	LONGHORN EXCAVATORS INC	OPERATOR	↔
CN602820599	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	TXR15NZ96	CANCELLED
STORMWATER	PERMIT	TXR15QJ54	EXPIRED
STORMWATER	PERMIT	TXR15RD60	EXPIRED

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# **ATTACHMENT 3**



Air Quality Maps    Data Reports    AutoGC    **Water Data**    Site Info

## Manvel Croix Park C84 Data by Site by Date (all parameters)

Use this form to retrieve hourly data collected at Manvel Croix Park C84. Although this is the most current data, it is not considered official until it has been certified by the technical staff. This information is updated hourly.

This web page provides the most current hourly averaged data available. Our convention for time-tagging data is the beginning of each hour. For example, values shown for the noon hour are based on measurements taken from noon to 1:00 p.m. The noon average will not be calculated until after 1:00 p.m. The noon average will then be available on our external server from 1:15 p.m. to 1:30 p.m. This results in an apparent one-hour time lag in the data. We also present our data in Local Standard Time for each measuring site. For most of Texas this is Central Standard Time. During Daylight Savings, this introduces another apparent one-hour time lag in the data.

Use the controls below to select a different date or time format. Click on the Generate Report button once you have made your selections. Click on the Plot Data button once the tabular report has been generated to open a separate window containing data plots.

CAMS 84    Manvel Croix Park C84   

Month:    Day:    Year:    Time Format:

April    5    2016    12 Hour (AM/PM)       

Green underline for validated data

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for **Wednesday, April 6, 2016**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Param Meas			
	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00		10:00	11:00	
Nitric Oxide	1.3	1.2	1.2	2.2	<u>3.4</u>	2.3	2.2	2.9	1.2	0.9	1.8	1.4	1.2	PMA	PMA	1.4	1.8	CAL	CAL	CAL	CAL	CAL	0.3	<b>-0.5</b>	Nitric Oxide	
Nitrogen Dioxide	0.2	-0.1	0.4	1.2	<b>13.8</b>	9.6	5.8	6.6	0.9	-0.3	<b>-0.9</b>	-0.4	-0.4	PMA	PMA	-0.7	0.2	CAL	CAL	CAL	CAL	CAL	5.6	3.7	Nitrogen Dioxide	
Oxides of Nitrogen	1.5	1.1	1.6	3.4	<b>16.9</b>	11.8	7.9	9.4	2.1	<b>0.6</b>	0.9	1.0	0.7	PMA	PMA	0.6	2.0	CAL	CAL	CAL	CAL	CAL	5.7	3.2	Oxides of Nitrogen	
Ozone	29	33	32	27	<b>7</b>	20	23	22	35	42	42	41	43	PMA	PMA	CAL	CAL	<b>54</b>	53	51	45	36	28	26	Ozone	
Wind Speed	4.4	5.5	3.2	<b>1.5</b>	2.1	5.0	4.3	5.0	5.7	6.7	<b>6.1</b>	<b>7.8</b>	7.8	9.3	<b>10.3</b>	9.4	8.6	6.5	5.2	5.8	4.9	3.7	2.6	2.5	Wind Speed	
Resultant Wind Speed	4.3	5.5	3.2	<b>0.8</b>	1.7	4.9	4.1	4.9	5.0	6.2	5.6	7.3	7.3	8.5	<b>9.9</b>	9.1	8.3	6.3	5.1	5.7	4.8	3.6	2.5	2.4	Resultant Wind Speed	
Resultant Wind Direction	148	154	154	<b>145</b>	169	167	176	193	<b>289</b>	266	255	256	224	256	277	280	278	281	284	289	288	281	284	286	Resultant Wind Direction	
Maximum Wind Gust	6.9	8.2	6.0	<b>3.6</b>	7.0	8.8	8.5	10.1	10.2	13.8	12.4	14.8	<b>20.3</b>	20.2	19.6	18.2	15.8	13.3	10.1	9.9	9.0	6.0	5.5	5.8	Maximum Wind Gust	
Std. Dev. Wind Direction	<b>9</b>	10	11	<b>55</b>	34	10	13	14	28	21	24	22	21	23	15	15	15	14	11	10	10	11	10	16	Std. Dev. Wind Direction	
Outdoor Temperature	57.5	57.8	57.2	<b>56.7</b>	56.9	58.1	59.1	62.7	67.1	69.6	70.5	71.0	71.7	74.5	75.3	76.2	<b>76.9</b>	76.9	75.0	71.9	69.4	66.4	63.8	62.1	Outdoor Temperature	
Parameter Measured	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Param Meas	
Morning													Afternoon													
Maximum values for each parameter are <b>bold</b> within the table. Minimum values are <b>bold italic</b> .																										
R - Data from this instrument meets EPA quality assurance criteria for regulatory purposes.																										

**PLEASE NOTE:** This data has not been verified by the TCEQ and may change. This is the most current data, but it is not official until it has been certified by our technical staff. Data is collected from TCEQ ambient monitoring sites and may include data collected by other outside agencies. This data is updated hourly. All times shown are in local standard time unless otherwise indicated.

Following EPA reporting guidelines, negative values may be displayed in our hourly criteria air quality data beginning 1/1/2013, down to the negative of the EPA listed Method Detection Limit (MDL) for the particular instrument that made the measurements. The reported concentrations can be negative due to zero drift in the electronic instrument output, data logger channel, or calibration adjustments to the data. Prior to 1/1/2013, slightly negative values were automatically set to zero.





Blue Ridge Landfill, Permit No. 1505 A

OS#1

2600 <sup>Block</sup> <sub>of</sub> Tilden Avenue Dr.

### Supplemental Investigator's Odor Intensity Time Log

WNW

Date of Investigation: 4-6-2016 Start Time: 9:17

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	no odor
18	" "
19	" "
20	" "
21	" "
22	" "
23	" "
24	" "
25	" "
26	" "
27	" "
28	" "
29	" "
30	" "

Minutes	Odor Intensity VL, L, M, S, VS
31 min	" "
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

Offensiveness: Highly \_\_\_\_\_ Offensive \_\_\_\_\_ Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_

**Weighted Average Intensity:**

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						X
1 Hour						

OS#2

73800 block of Dilac View Ct.

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 4-6-2016 Start Time: 9:42

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	no odor
43	" "
44	" "
45	" "
46	" "
47	" "
48	VL
49	no odor
50	" "
51	" "
52	" "
53	VL
54	no odor
55	" "
56	" "
57	
58	
59	
60	

Offensiveness: Highly \_\_\_\_\_ Offensive  Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_

**Weighted Average Intensity:**

	VS	S	M	L	VL	No Odor
1 Min						
10 Min					X	
1 Hour						

OS# 3

2800 block of

Naven Ridge

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 4-6-2016 Start Time: 10:02

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	no odor
3	" "
4	" "
5	" "
6	" "
7	" "
8	" "
9	" "
10	" "
11	" "
12	" "
13	" "
14	" "
15	" "
16	" "
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
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46	
47	
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56	
57	
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59	
60	

Offensiveness: Highly \_\_\_\_\_ Offensive \_\_\_\_\_ Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_

**Weighted Average Intensity:**

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						X
1 Hour						

OS# 4

13300 block of Barons Cove Ln

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 4-6-2016 Start Time: 10:25

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	no odor
26	" "
27	" "
28	" "
29	" "
30	" "

Minutes	Odor Intensity VL, L, M, S, VS
31 min	no odor
32	" "
33	" "
34	" "
35	" "
36	" "
37	" "
38	" "
39	" "
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
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55	
56	
57	
58	
59	
60	

Offensiveness: Highly \_\_\_\_\_ Offensive \_\_\_\_\_ Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_

**Weighted Average Intensity:**

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						X
1 Hour						

# ATTACHMENT 4

MSW

	Daily Cover				Approved Alternate Daily Cover				Elevation MSL	Inspection Date of Daily Cover <sup>4</sup>	Erosion or Leachate Seep Detected	Date Erosion or Leachate Seep Corrected <sup>5</sup>	Corrective Action <sup>6</sup>	Soil Stockpile Required <sup>7</sup> (yd <sup>3</sup> )	Rain (inches)	Rain (inches) ≥ 0.5" <sup>8</sup>
	6" Soil				Spray-On or Tarps											
	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>		√=Inspected	√=Yes					√=Yes
1	1100	49-50	6"	B	-	-	-	-	112-116	✓						
2	1100	49-50	6"	B	-	-	-	-	116-118	✓						
3	1100	49-50	6"	B	-	-	-	-	118-120	✓						
4	1100	49-50	6"	B	-	-	-	-	120-122	✓						
5	750	49-50	6"	B	-	-	-	-	122-124	✓						
6																
7	1500	48-49	6"	B	-	-	-	-	116-118	✓						
8	1100	47-48	6"	B	-	-	-	-	118-122	✓				.50"		✓
9	stock	47-48	6"	B	-	-	-	-	112-115	✓				.30"		✓
10	stock	47-48	6"	B	-	-	-	-	115-118	✓				.60		✓
11	stock	47-48	6"	B	-	-	-	-	118-120	✓				.20		✓
12	1500	47-48	6"	B	-	-	-	-	120-122	✓				.20		✓
13																
14	1500	47-48	6"	B	-	-	-	-	108-110	✓						
15	1500	47-48	6"	B	-	-	-	-	110-112	✓						
16	1500	47-48	6"	B	-	-	-	-	112-114	✓						
17	1500	47-48	6"	B	-	-	-	-	114-116	✓						
18	1500	47-48	6"	B	-	-	-	-	116-120	✓						
19	1100	47-48	6"	B	-	-	-	-	120-121	✓						
20																
21	1100	47-48	6"	B	-	-	-	-	121-124	✓						
22	1100	47-48	6"	B	-	-	-	-	105-108	✓						
23	1100	47-48	6"	B	-	-	-	-	106-112	✓				.40		✓
24	1100	47-48	6"	B	-	-	-	-	112-116	✓						
25	1100	47-48	6"	B	-	-	-	-	116-120	✓						
26	1100	47-48	6"	B	-	-	-	-	120-124	✓						
27																
28	1500	47-48	6"	B	-	-	-	-	109-112	✓						
29	1500	47-48	6"	B	-	-	-	-	112-114	✓						
30	1500	47-48	6"	B	-	-	-	-	116-120	✓				.10		✓
31	1500	47-48	6"	B	-	-	-	-	120-124	✓						

AMT = Amount of cover (soil) in yd<sup>3</sup> or alternate daily cover in bags or tarp area

T = Thickness in inches

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On

Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall eve

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unlc

Corrective Action: R = Restoring cover material; G = Grading. M = Compacting; S = Seeding

SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The mount of soil required is dependent upon the maximum anticipated size c

Signature certifies work accomplished as stated in the Cover Application Log.

APPLICATION LOG

Month / Year: **March 2016**

Intermediate Cover 12" Soil				Final Cover Per Final Closure Plan				Inspection Date of Intermediate & Final Cover <sup>1</sup>	Erosion ≥ 4" Detected	Date Erosion Corrected <sup>5</sup>	Corrective Action <sup>6</sup>	Final Cover Certification Report Reference	Supervisor Signature <sup>8</sup>
AT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>	√=Inspected	√=Yes				
										3-2-16	Rep. R		
								✓ 3-2-16					
								✓ 3-11-16					
								✓ 3-17-16					
								✓ 3-21-16					
66-JJ N. Slope	12"	B											
DD-88 N. Slope	12"	B											
								✓ 3-31-16					

0.5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form.  
 approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.

working face. A 50 yd<sup>3</sup> soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.



1	
2	Erosion Peril Detected on the East side of phase 3 Highway
3	
4	
5	
6	
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28	
29	
30	
31	

Fuzzy up slope. / Repair on same Day.

Daily Cover				Approved Alternate Daily Cover				Elevation	Inspection	Erosion or	Date	Corrective	Soil	Rain	Rain
6" Soil				Spray-On or Tarps				MSL	Date of Daily Cover <sup>4</sup>	Leachate Seep Detected	Erosion or Leachate Seep Corrected <sup>5</sup>	Action <sup>6</sup>	Stockpile Required <sup>7</sup> (yd <sup>3</sup> )	(inches)	(inches ≥ 0.5")
AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>		√=Inspected	√=Yes					√=Yes
1	450	R-25	6"	B	-	-	-	49	✓						
2	450	R-25	6"	B	-	-	-	49	✓						
3	540	R-25	6"	B	-	-	-	49	✓						
4	540	R-25	6"	B	-	-	-	49	✓						
5															
6															
7	540	R-25	6"	B	-	-	-	49	✓						
8	stock	Q-25	6"	B	-	-	-	43	✓						
9	stock	Q-25	6"	B	-	-	-	43	✓						
10	stock	Q-25	6"	B	-	-	-	43	✓						
11	stock	Q-25	6"	B	-	-	-	44	✓						
12															
13															
14	stock	Q-25	6"	B	-	-	-	44	✓						
15	540	Q-25	6"	B	-	-	-	44	✓						
16	310	Q-25	6"	B	-	-	-	44	✓						
17	stock	Q-25	6"	B	-	-	-	44	✓						
18	750	Q-25	6"	B	-	-	-	44	✓						
19															
20															
21	750	Q-25	6"	B	-	-	-	45	✓						
22	stock	Q-25	6"	B	-	-	-	45	✓						
23	stock	Q-25	6"	B	-	-	-	45	✓						
24	750	Q-25	6"	B	-	-	-	45	✓						
25	stock	Q-25	6"	B	-	-	-	45	✓						
26															
27															
28	750	Q-25	6"	B	-	-	-	45	✓						
29	500	Q-25	6"	B	-	-	-	46	✓						
30	stock	Q-25	6"	B	-	-	-	46	✓						
31	500	Q-25	6"	B	-	-	-	46	✓						

AMT = Amount of cover (soil) in yd<sup>3</sup> or alternate daily cover in bags or tarp area

T = Thickness in inches

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On

Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection

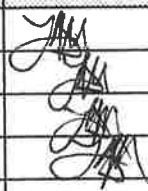
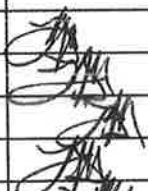
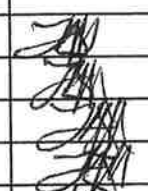
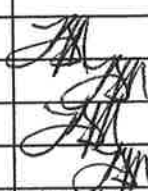
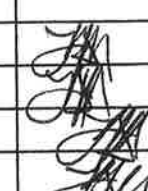
Corrective Action: R = Restoring cover material; G = Grading, M = Compacting; S = Seeding

SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum anticipated size

Signature certifies work accomplished as stated in the Cover Application Log.

**CLASS I NON HAZARDOUS**

Month / Year: March 2016

Intermediate Cover			Final Cover				Inspection Date of Intermediate & Final Cover <sup>4</sup>	Erosion $\geq$ 4" Detected	Date Erosion Corrected <sup>5</sup>	Corrective Action <sup>6</sup>	Final Cover Certification Report Reference	Supervisor Signature <sup>8</sup>
12" Soil			Per Final Closure Plan									
Grid Area	T <sup>2</sup>	Method <sup>3</sup>	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>	$\checkmark$ =Inspected	$\checkmark$ =Yes				
												
												
												
												
												

5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form. roved by TCEQ Regional Office. If not corrected within 5 days, attach documentation starting reasons for delay.

orking face. A 50 yd<sup>3</sup> soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material (RACM) disposal area.











# **ATTACHMENT 5**



**Blue Ridge Landfill**  
**2200 F.M. 521, Fresno (Fort Bend County), TX 77545**  
**Municipal Solid Waste Permit No. 1505A**  
**MSW Complaint Investigation**  
**Conducted on April 6, 2016**  
**Photograph by Richard Blackney**



Photograph 1 of 1: An erosion gully



MSW PA\_1505A\_CO\_20100406\_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**

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**Regulated Entity Name: BLUE RIDGE LANDFILL**

**Regulated Entity Number: RN102610102**

**Investigation # 1323599**

**Incident Numbers**

230093	230956
230952	230959
230782	230802
230810	230958
230094	230977
230975	230769
230775	230770
230803	230776
230800	230801
230811	229469
230955	230812
230981	230942
230096	230804
230786	230796
230778	230813
230950	230957
230916	229466
230943	230973
230794	230979
230809	230976
230783	229468
230982	229467

**Investigator:** RICHARD BLACKNEY

**Site Classification** TYPE 1

**Conducted:** 04/06/2016 -- 06/10/2016

**NAIC Code:** 562212

**SIC Code:** 4953

**SIC Code:** 1521

**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):** MSWCMPL - Investigation of MSW  
complaint

**Principal(s):**

**Role**

**Name**

RESPONDENT

BLUE RIDGE LANDFILL TX LP

**Contact(s):**

Role	Title	Name	Phone
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	AREA MANAGER POST COLLECTION OPERATIONS	MR MARK MEADOWS	Work (254) 221-4437
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (281) 835-6142

**Other Staff Member(s):**

Role	Name
Supervisor	ALMA JEFFERSON
QA Reviewer	TOM COLLINS

**Associated Check List**

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	1505A

**Investigation Comments:****INTRODUCTION**

On March 21 and 28, and April 4, 5 and 6, 2016, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 44 complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on March 21, 25 and 27, and April 2, 3, 4 and 5, 2016.

On April 6, 2016, Mr. Richard Blackney, Environmental Investigator of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted an unannounced Odor Complaint Investigation at BRL and the area surrounding it.

**BACKGROUND**

On December 18, 2015, during Investigation No. 1300533, an alleged violation for erosion of cover was noted at BRL, and remains outstanding.

On March 29, 2016, Mr. Burgess Stengl, Environmental Manager for Republic Services, sent the investigator photographs (Attachment 1) showing repairs made to a portion of the eastern slope of the landfill.

**GENERAL FACILITY AND PROCESS INFORMATION**

BRL's authorization numbers from the TCEQ Central Registry database are included in Attachment 2. BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste (MSW) Permit No. 1505A.

The landfill is authorized to accept municipal solid waste including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2 and Class 3 non-hazardous industrial waste; and liquid wastes. Class 1 waste is buried in the designated Class 1 cell of the landfill. Liquid wastes are sent to a bulking facility/solidification basin prior to disposal in the landfill. Hazardous waste may not be accepted for disposal.

The waste acceptance hours are Monday through Friday, 4:00 am to 5:00 pm, and Saturdays from 5:30 am to 12:00 pm. The surrounding land use includes industrial facilities and residential subdivisions.

Complainant Information:

See confidential files (TCEQ Incident Nos. 229466, 229467, 229468, 229469, 230093, 230094, 230096, 230769, 230770, 230775, 230776, 230778, 230782, 230783, 230786, 230794, 230796, 230800, 230801, 230802, 230803, 230804, 230809, 230810, 230811, 230812, 230813, 230916, 230942, 230943, 230950, 230952, 230955, 230956, 230957, 230958, 230959, 230973, 230975, 230976, 230977, 230979, 230981, and 230982).

Description of Alleged Effects:

A complainant described vomiting due to the odor, and a complainant described headaches.

Meteorological data at the time of the odor survey:

Wind direction: W/WSW

Wind Speed: 5.6 to 6.2 mph

Temperature: 69.6 to 70.5°F

Meteorological data taken from TCEQ's continuous air monitoring stations (Attachment 3).

Odor Survey:

The investigator arrived at the first survey point located at the 2600 block of Tidenhaven Drive in Pearland. Odor Survey (OS) No. 1 took place downwind of BRL and was conducted at 9:17 a.m. No odors were detected during the 15 minutes spent at OS No. 1.

The investigator went to OS No. 2 located at the 13800 block of Lilac View Court in Pearland. OS No. 2 took place downwind of BRL and was conducted at 9:42 a.m. Odors typical of landfill garbage were detected intermittently during the 15 minutes spent at OS No. 2, averaging to very light.

The investigator then went to OS No. 3 located at the 2800 block of Raven Ridge in Pearland. OS No. 3 took place crosswind of BRL and was conducted at 10:02 a.m. No odors were detected during the 15 minutes spent at OS No. 3.

The investigator then went to OS No. 4 located at the 13300 block of Barons Cove Lane in Pearland. OS No. 4 took place crosswind of BRL and was conducted at 10:25 a.m. No odors were detected during the 15 minutes spent at OS No. 4.

Aerial view maps of the OS locations and the OS logs are included in Attachment 3.

Summary of on-site investigation:

Following the odor survey, the investigator arrived at BRL, and met with Mr. Stengl; Mr. Matt Montagna, Landfill Operations Manager; and Mr. Mark Meadows, Area Manager Post-Collection Operations, to whom the purpose and scope of the investigation were explained. The facility representatives drove the investigator to the solidification basin, where ground wood was seen being mixed with liquid waste prior to disposal at the working face. BRL has a system of misters for the purpose of neutralizing odors, which has been extended by hundreds of feet on the eastern side of the landfill. The investigator viewed the new extension of the misting system in operation.

BRL receives Class I waste in its Class 1 disposal cell Monday through Friday, and receives MSW in the MSW cell Monday through Saturday. Six inches of soil is applied to the Class 1 cell and MSW cell at the end of each operating day. The investigator viewed the MSW and Class 1 working faces, by which piles of soil were observed. The investigator obtained copies of the cover logs for March 2016 and April 2016 (Attachment 4). The cover logs indicate that soil is applied to the working faces as required.

On the eastern slope of the landfill, the investigator viewed an area where erosion had previously been observed. That erosion gully had been repaired, but another erosion gully was noted. A photograph, taken by the investigator, is included in Attachment 5. On the western side of the landfill, the investigator observed that soil had been laid as part of BRL's effort to address all areas of erosion.

Description of Odor:

Odors typical of landfill garbage were detected during the odor survey.

Description of the Effects on the Investigator:  
No health effects were experienced by the investigator.

Description of the Terrain Features of the Area:  
Terrain is flat with residences and businesses.

Location of the Source of the Odor:  
The alleged source of the odor is BRL.

**ODOR FIDO CHART EVALUATION:**

According to the Frequency Intensity Duration Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As odors were previously detected coming from BRL during an investigation (No. 1308059) conducted on February 2, 2016, the frequency of odors documented by the Waste Section investigator is a "quarterly occurrence".

According to the Frequency, Intensity, Duration, and Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As odors were previously detected coming from BRL during an investigation (No. 1308059) conducted on February 2, 2016, the frequency of odors documented by the Waste Section investigator is a "quarterly occurrence".

Physical Effects Experienced by the Investigator which are Indicative of Adverse Effects upon Health:  
The investigator did not experience any physical effects during the investigation.

Normal use of Property Affected by the Odor and the Manner in which such Odor could Reasonably be Expected to Interfere with this Use:  
According to FIDO protocol, a nuisance condition was not confirmed.

**SUMMARY OF INVESTIGATION FINDINGS**

**OUTSTANDING ALLEGED VIOLATION**

The following alleged violation was noted during the investigation conducted on December 18, 2015 and remains outstanding:

Site Operating Plan 4.18 / 30 Texas Administrative Code §330.165(g) – Landfill Cover (Category C4)

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

On January 5, 2016, the facility representative sent photographs to the TCEQ showing repair of cover at the northern slope. On March 2, 2016, that area was observed in person to have been fully repaired. However, another area of erosion of cover was observed on the eastern slope. On March 29, 2016, the facility representative sent the investigator photographs showing repairs made to that portion of the eastern slope. The repair was observed in person on April 6, 2016, but another area of erosion was also observed.

Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

**OUTSTANDING ALLEGED VIOLATION(S)**



**Track Number:** 598524

**Compliance Due Date:** To Be Determined

**Violation Start Date:** Unknown

**30 TAC Chapter 330.165(g)**

**PERMIT 1505A, Site Operating Plan 4.18.3**

Erosion gullies or washed-out areas will be repaired within 5 days of detection by restoring the cover material, grading, compacting, and seeding.

**Alleged Violation:**

**Investigation: 1300533**

Comment Date: 03/18/2016

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

**Investigation: 1308059**

Comment Date: 04/05/2016

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

**Investigation: 1314675**

Comment Date: 04/22/2016

Compliance with this regulation was evaluated during investigations on February 2, 2016 and March 2, 2016.

**Investigation: 1320039**

Comment Date: 05/16/2016

Compliance with this regulation was evaluated during the investigation on March 14, 2016.

**Investigation: 1323599**

Comment Date: 06/02/2016

Compliance with this regulation was evaluated during the investigation conducted on April 6, 2016.

**Recommended Corrective Action:** On January 5, 2016, the facility representative sent photographs to the TCEQ showing repair of cover. On February 2, 2016, the area was observed by the investigator to have been largely repaired, but it appeared there remained some gullies where cover was eroded by more than four inches. On March 2, 2016, the area appeared to have been repaired, and the cover log from February 2016 was viewed which indicated that repair of cover was completed on February 13, 2016. However, on March 2, 2016, another area of erosion of cover was observed. Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

Signed Richard Blackman  
Environmental Investigator

Date 07/01/2016

Signed Alma L. Jefferson  
Supervisor

Date 07/01/2016

**Attachments: (in order of final report submittal)**

- Enforcement Action Request (EAR)
- Letter to Facility (specify type): additional compliance request
- Investigation Report
- Sample Analysis Results
- Manifests
- Notice of Registration

- Maps, Plans, Sketches
- Photographs
- Correspondence from the facility
- Other (specify): see list of attachments

MSW PA\_1505A\_CO\_20160406\_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**

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**Regulated Entity Name: BLUE RIDGE LANDFILL**

**Regulated Entity Number: RN102610102**

**Investigation # 1323599**

**Incident Numbers**

230093	230956
230952	230959
230782	230802
230810	230958
230094	230977
230975	230769
230775	230770
230803	230776
230800	230801
230811	229469
230955	230812
230981	230942
230096	230804
230786	230796
230778	230813
230950	230957
230916	229466
230943	230973
230794	230979
230809	230976
230783	229468
230982	229467

**Investigator:** RICHARD BLACKNEY

**Site Classification** TYPE 1

**Conducted:** 04/06/2016 -- 06/10/2016

**NAIC Code:** 562212

**SIC Code:** 4953

**SIC Code:** 1521

**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):** MSWC MPL - Investigation of MSW  
complaint

**Principal(s):**

**Role**

**Name**

RESPONDENT

BLUE RIDGE LANDFILL TX LP

**Contact(s):**

Role	Title	Name	Phone
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	AREA MANAGER POST COLLECTION OPERATIONS	MR MARK MEADOWS	Work (254) 221-4437
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (281) 835-6142

**Other Staff Member(s):**

Role	Name
Supervisor	ALMA JEFFERSON
QA Reviewer	TOM COLLINS

**Associated Check List**

Checklist Name	Unit Name
MSW COMPLAINT INVESTIGATION	1505A

**Investigation Comments:**

**INTRODUCTION**

On March 21 and 28, and April 4, 5 and 6, 2016, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 44 complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on March 21, 25 and 27, and April 2, 3, 4 and 5, 2016.

On April 6, 2016, Mr. Richard Blackney, Environmental Investigator of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted an unannounced Odor Complaint Investigation at BRL and the area surrounding it.

**BACKGROUND**

On December 18, 2015, during Investigation No. 1300533, an alleged violation for erosion of cover was noted at BRL, and remains outstanding.

On March 29, 2016, Mr. Burgess Stengl, Environmental Manager for Republic Services, sent the investigator photographs (Attachment 1) showing repairs made to a portion of the eastern slope of the landfill.

**GENERAL FACILITY AND PROCESS INFORMATION**

BRL's authorization numbers from the TCEQ Central Registry database are included in Attachment 2. BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste (MSW) Permit No. 1505A.

The landfill is authorized to accept municipal solid waste including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2 and Class 3 non-hazardous industrial waste; and liquid wastes. Class 1 waste is buried in the designated Class 1 cell of the landfill. Liquid wastes are sent to a bulking facility/solidification basin prior to disposal in the landfill. Hazardous waste may not be accepted for disposal.

The waste acceptance hours are Monday through Friday, 4:00 am to 5:00 pm, and Saturdays from 5:30 am to 12:00 pm. The surrounding land use includes industrial facilities and residential subdivisions.

Complainant Information:

See confidential files (TCEQ Incident Nos. 229466, 229467, 229468, 229469, 230093, 230094, 230096, 230769, 230770, 230775, 230776, 230778, 230782, 230783, 230786, 230794, 230796, 230800, 230801, 230802, 230803, 230804, 230809, 230810, 230811, 230812, 230813, 230916, 230942, 230943, 230950, 230952, 230955, 230956, 230957, 230958, 230959, 230973, 230975, 230976, 230977, 230979, 230981, and 230982).

Description of Alleged Effects:

A complainant described vomiting due to the odor, and a complainant described headaches.

Meteorological data at the time of the odor survey:

Wind direction: W/WSW

Wind Speed: 5.6 to 6.2 mph

Temperature: 69.6 to 70.5°F

Meteorological data taken from TCEQ's continuous air monitoring stations (Attachment 3).

Odor Survey:

The investigator arrived at the first survey point located at the 2600 block of Tidenhaven Drive in Pearland. Odor Survey (OS) No. 1 took place downwind of BRL and was conducted at 9:17 a.m. No odors were detected during the 15 minutes spent at OS No. 1.

The investigator went to OS No. 2 located at the 13800 block of Lilac View Court in Pearland. OS No. 2 took place downwind of BRL and was conducted at 9:42 a.m. Odors typical of landfill garbage were detected intermittently during the 15 minutes spent at OS No. 2, averaging to very light.

The investigator then went to OS No. 3 located at the 2800 block of Raven Ridge in Pearland. OS No. 3 took place crosswind of BRL and was conducted at 10:02 a.m. No odors were detected during the 15 minutes spent at OS No. 3.

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Aerial view maps of the OS locations and the OS logs are included in Attachment 3.

Summary of on-site investigation:

Following the odor survey, the investigator arrived at BRL, and met with Mr. Stengl; Mr. Matt Montagna, Landfill Operations Manager; and Mr. Mark Meadows, Area Manager Post-Collection Operations, to whom the purpose and scope of the investigation were explained. The facility representatives drove the investigator to the solidification basin, where ground wood was seen being mixed with liquid waste prior to disposal at the working face. BRL has a system of misters for the purpose of neutralizing odors, which has been extended by hundreds of feet on the eastern side of the landfill. The investigator viewed the new extension of the misting system in operation.

BRL receives Class I waste in its Class 1 disposal cell Monday through Friday, and receives MSW in the MSW cell Monday through Saturday. Six inches of soil is applied to the Class 1 cell and MSW cell at the end of each operating day. The investigator viewed the MSW and Class 1 working faces, by which piles of soil were observed. The investigator obtained copies of the cover logs for March 2016 and April 2016 (Attachment 4). The cover logs indicate that soil is applied to the working faces as required.

On the eastern slope of the landfill, the investigator viewed an area where erosion had previously been observed. That erosion gully had been repaired, but another erosion gully was noted. A photograph, taken by the investigator, is included in Attachment 5. On the western side of the landfill, the investigator observed that soil had been laid as part of BRL's effort to address all areas of erosion.

Description of Odor:

Odors typical of landfill garbage were detected during the odor survey.

Description of the Effects on the Investigator:  
No health effects were experienced by the investigator.

Description of the Terrain Features of the Area:  
Terrain is flat with residences and businesses.

Location of the Source of the Odor:  
The alleged source of the odor is BRL.

**ODOR FIDO CHART EVALUATION:**

According to the Frequency Intensity Duration Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As odors were previously detected coming from BRL during an investigation (No. 1308059) conducted on February 2, 2016, the frequency of odors documented by the Waste Section investigator is a "quarterly occurrence".

According to the Frequency, Intensity, Duration, and Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As odors were previously detected coming from BRL during an investigation (No. 1308059) conducted on February 2, 2016, the frequency of odors documented by the Waste Section investigator is a "quarterly occurrence".

Physical Effects Experienced by the Investigator which are Indicative of Adverse Effects upon Health:  
The investigator did not experience any physical effects during the investigation.

Normal use of Property Affected by the Odor and the Manner in which such Odor could Reasonably be Expected to Interfere with this Use:  
According to FIDO protocol, a nuisance condition was not confirmed.

**SUMMARY OF INVESTIGATION FINDINGS**

**OUTSTANDING ALLEGED VIOLATION**

The following alleged violation was noted during the investigation conducted on December 18, 2015 and remains outstanding:

Site Operating Plan 4.18 / 30 Texas Administrative Code §320.165(g) – Landfill Cover (Category C4)

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

On January 5, 2016, the facility representative sent photographs to the TCEQ showing repair of cover at the northern slope. On March 2, 2016, that area was observed in person to have been fully repaired. However, another area of erosion of cover was observed on the eastern slope. On March 29, 2016, the facility representative sent the investigator photographs showing repairs made to that portion of the eastern slope. The repair was observed in person on April 6, 2016, but another area of erosion was also observed.

Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

**OUTSTANDING ALLEGED VIOLATION(S)**

Track Number: 598524

Compliance Due Date: To Be Determined

Violation Start Date: Unknown

**30 TAC Chapter 330.165(g)**

**PERMIT 1505A, Site Operating Plan 4.18.3**

Erosion gullies or washed-out areas will be repaired within 5 days of detection by restoring the cover material, grading, compacting, and seeding.

**Alleged Violation:**

**Investigation: 1300533**

Comment Date: 03/18/2016

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

**Investigation: 1308059**

Comment Date: 04/05/2016

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

**Investigation: 1314675**

Comment Date: 04/22/2016

Compliance with this regulation was evaluated during investigations on February 2, 2016 and March 2, 2016.

**Investigation: 1320039**

Comment Date: 05/16/2016

Compliance with this regulation was evaluated during the investigation on March 14, 2016.

**Investigation: 1323599**

Comment Date: 06/02/2016

Compliance with this regulation was evaluated during the investigation conducted on April 6, 2016.

**Recommended Corrective Action:** On January 5, 2016, the facility representative sent photographs to the TCEQ showing repair of cover. On February 2, 2016, the area was observed by the investigator to have been largely repaired, but it appeared there remained some gullies where cover was eroded by more than four inches. On March 2, 2016, the area appeared to have been repaired, and the cover log from February 2016 was viewed which indicated that repair of cover was completed on February 13, 2016. However, on March 2, 2016, another area of erosion of cover was observed. Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

Signed Richard Blackney  
Environmental Investigator

Date 07/01/2016

Signed Alma L. Jefferson  
Supervisor

Date 07/01/2016

**Attachments: (in order of final report submittal)**

- Enforcement Action Request (EAR)
- Letter to Facility (specify type): additional compliance request
- Investigation Report
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- Notice of Registration

- Maps, Plans, Sketches
- Photographs
- Correspondence from the facility
- Other (specify): see list of attachments