

File Copy

1505A

Investigation #

13 24578

MSW PA_1505A_CO_20160411_Investigation Report
Texas Commission on Environmental Quality
Investigation Report

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

INFORMATION COPY
FOR FILE ROOM

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1324578

Incident Numbers

231114	231234
231130	231071
231241	231098
231230	231109
231095	231128
231070	231142
231243	231092
231242	231133
231240	231116
231067	231139
231129	231097
231110	231073
231078	231093
231140	231118
231237	

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 04/11/2016 -- 06/24/2016

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	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (713) 676-7664

Other Staff Member(s):

Role	Name
QA Reviewer	TOM COLLINS
Supervisor	LY PHAM
Supervisor	ALMA JEFFERSON

Associated Check List

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

Investigation Comments:

INTRODUCTION

On April 7, 8, 9 and 11, 2016, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 29 complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on March 27 and April 5, 6, 7, 8 and 9, 2016.

On April 11, 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.

GENERAL FACILITY AND PROCESS INFORMATION

BRL's authorization numbers from the TCEQ Central Registry database are included in Attachment 1. 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. 231067, 231070, 231071, 231073, 231078, 231092, 231093, 231095, 231097, 231098, 231109, 231110, 231114, 231116, 231118, 231128, 231129, 231130, 231133, 231139, 231140, 231142, 231230, 231234, 231237, 231240, 231241, 231242 and 231243).

Description of Alleged Effects:

A complainant described headaches and red eyes due to the odor.

Meteorological data at the time of the odor survey:

Wind direction: S

Wind Speed: 13.6 to 14.7 mph

Temperature: 77.8 to 79.0°F

Meteorological data taken from TCEQ's continuous air monitoring stations (Attachment 2).

Odor Survey:

The investigator arrived at the first survey point located at the intersection of FM 521 and FM 2234 in Fresno.

Odor Survey (OS) No. 1 took place crosswind of BRL and was conducted at 12:00 p.m. No odors were detected during the 15 minutes spent at OS No. 1.

The investigator went to OS No. 2 located at the 15100 block of West Drive in Houston. OS No. 2 took place downwind of BRL and was conducted at 12:23 p.m. Odors typical of landfill garbage were detected intermittently during the first 10 minutes of the 25 minutes spent at OS No. 2, averaging to very light.

The investigator then went to OS No. 3 located at the 2600 block of Sweet Wind Drive in Pearland. OS No. 3 took place crosswind of BRL and was conducted at 12:56 p.m. No odors were detected during the 15 minutes spent at OS No. 3.

Aerial view maps of the OS locations and the OS logs are included in Attachment 2.

Summary of on-site investigation:

Following the odor survey, the investigator arrived at BRL, and met with Mr. Matt Montagna, Landfill Operations Manager, to whom the purpose and scope of the investigation were explained.

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 April 2016 (Attachment 3). The cover logs indicate that soil is applied to the working faces as required.

The investigator viewed the northern slope of the landfill, where erosion had been observed on December 18, 2015. The erosion appeared to have been repaired. 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. However, at least one erosion gully greater than four inches deep was observed to be in need of repair at the time of the investigation. A photograph taken by the investigator is included in Attachment 4.

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.

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, and Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As landfill odors were detected today and previously during an investigation (No. 1323599) conducted on April 6, 2016, the frequency of odors documented by the Waste Section investigator is a "monthly 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, and March 29, 2016, the facility representative sent photographs to the TCEQ showing repair of cover. On April 11, 2016, repair of many of the areas of erosion were observed, but some erosion gullies greater than four inches deep were still 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.

BLUE RIDGE LANDFILL - FRESNO

4/11/2016 to 6/24/2016 Inv. # - 1324578

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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.

Investigation: 1324578

Comment Date: 07/15/2016

Compliance with this regulation was evaluated during the investigation conducted on April 11, 2016.

Recommended Corrective Action: On January 5, 2016, and March 29, 2016, the facility representative sent photographs to the TCEQ showing repair of cover. On April 11, 2016, repair of many of the areas of erosion were observed, but some erosion gullies greater than four inches deep were still 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 Blackmer
Environmental Investigator

Date

07/28/2016

Signed

Alma L. Jefferson
Supervisor

Date

07/28/2016

Attachments: (in order of final report submittal)

☐ Enforcement Action Request (EAR)

☒ Letter to Facility (specify type): additional

☐ 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 28, 2016

CERTIFIED MAIL #7013 3020 0000 9763 2052
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:

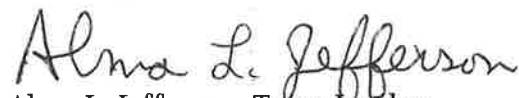
On April 11, 2016, Mr. Richard Blackney of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for municipal solid waste. Enclosed is a summary which lists the investigation findings. During a previous investigation on December 18, 2015, a concern was noted which was an alleged violation, and remains outstanding.

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,


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 11, 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, and March 29, 2016, the facility representative sent photographs to the TCEQ showing repair of cover. On April 11, 2016, repair of many of the areas of erosion were observed, but some erosion gullies greater than four inches deep were still 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 / Region 12 Section: WasteRecord Series: I H W RegPrimary Identification Number (Acct/RN): 1505 A

Secondary Identification Number (Permit): _____

Facility: Blue Ridge Landfill Date of Letter: 7 • 28 • 16Regarding: Other - Compliance Request

COMPLETE THIS SECTION ON DELIVERY	
A. Received by (Please Print Clearly)	B. Date of Delivery <u>8-1-16</u>
C. Signature <u>[Signature]</u>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
D. Is delivery address different from item 1? If YES, enter RECEIVED	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>MR. BURGESS STENGL ENVIRONMENTAL MANAGER BLUE RIDGE LANDFILL TX, LP 5757 OATES ROAD, STE. A HOUSTON, TX 77078</p>	
<p>AUG 02 2016 REGION 12</p>	
<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Registered <input type="checkbox"/> Insured Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> C.O.D.</p>	
<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>2. Article 7013 3020 0000 9763 2052</p>	
<p>PS Form 3811, July 1999</p>	
<p>Domestic Return Receipt 102595-00-M-0952</p>	
<p>U.S. Postal Service TM CERTIFIED MAIL TM RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)</p>	
<p>For delivery information visit our website at www.usps.com</p>	
<p>OFFICIAL USE</p>	
Postage	\$ <u>1505 A</u>
Certified Fee	<u>R Blackney</u>
Return Receipt Fee (Endorsement Required)	<u>7.28.16</u>
Restricted Delivery Fee (Endorsement Required)	<u>Other</u>
Total Po	<u>MR. BURGESS STENGL</u>
Sent To	<u>ENVIRONMENTAL MANAGER</u>
Street, Ap or PO Box	<u>BLUE RIDGE LANDFILL TX, LP</u>
City, State	<u>5757 OATES ROAD, STE. A</u> <u>HOUSTON, TX 77078</u>
<p>PS Form 3800, August 2006</p>	
<p>See Reverse for Instructions</p>	
<p>ENTERED 8-22-16 <u>[Signature]</u></p>	

**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 11, 2016**

List of Attachments

Attachment 1	Central Registry Information for Blue Ridge Landfill
Attachment 2	Map of Odor Survey locations and Odor Logs
Attachment 3	2016 Cover logs
Attachment 4	Photograph taken on April 11, 2016 by Mr. Blackney

ATTACHMENT 1

[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](#))**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 2


**TEXAS COMMISSION
ON ENVIRONMENTAL QUALITY**

[Calibrations](#)
[Air Quality Maps](#)
[Data Reports](#)
[AutoQC](#)
[Water Data](#)
[Comms](#)
[Log Files](#)
[Configuration](#)
[Site Info](#)

Manvel Croix Park C84 Daily Summary

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 [Select a different site](#)

Month: Day: Year: Time Format:

April 11 2016 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

☒ Green underline for validated data

☒ Include Non-Public Monitors

☐ Emulate WWW Report

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for **Monday, April 11, 2016**. All times shown are in CST.

Parameter Measured	Morning												Afternoon												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		
Nitric Oxide	-0.7	-0.3	-0.2	-0.6	-0.7	-0.9	-0.4	0.2	-0.8	-0.4	-0.8	-0.6	-0.9	-0.6	-1.0	-0.8	-0.8	-0.7	-0.9	-0.5	-1.1	-0.4	-0.3	-0.7	Nitric Oxide	
Nitrogen Dioxide	NEG	-2.4	-1.9	-0.7	-1.0	-0.4	-0.2	0.3	-0.7	-0.1	-1.0	-1.2	-1.1	-0.5	-1.6	-1.1	-1.1	-1.6	-1.7	-1.8	-2.6	-2.3	-2.1	NEG	Nitrogen Dioxide	
Oxides of Nitrogen	-3.4	-2.7	-2.1	-1.2	-1.7	-1.3	-0.6	0.5	-1.5	-0.5	-1.8	-1.7	-2.0	-1.1	-2.5	-1.8	-1.9	-2.3	-2.5	-2.3	-3.7	-2.6	-2.3	-3.7	Oxides of Nitrogen	
Ozone	36	33	32	34	35	34	32	30	33	35	36	34	34	34	35	36	35	34	32	30	27	24	23	Ozone		
Wind Speed	8.2	8.6	10.3	13.1	12.0	11.1	8.8	9.2	9.9	12.8	12.1	12.9	14.7	13.6	10.8	12.3	11.8	7.7	6.2	5.8	5.6	4.5	2.4	1.8	Wind Speed	
Resultant Wind Speed	8.0	8.4	10.1	12.9	11.7	10.8	8.6	9.0	9.6	12.5	11.7	12.7	14.4	13.3	10.5	12.0	11.5	7.5	6.0	5.7	5.5	4.4	2.2	1.6	Resultant Wind Speed	
Resultant Wind Direction	174	170	157	152	165	159	159	153	160	158	172	184	181	178	185	183	181	177	187	186	173	182	197	270	Resultant Wind Direction	
Maximum Wind Gust	14.7	15.9	18.4	21.4	20.8	19.2	15.7	16.7	15.4	24.4	21.0	24.8	27.8	24.2	19.3	21.4	20.7	14.6	11.1	11.2	10.5	8.8	6.2	4.0	Maximum Wind Gust	
Std. Dev. Wind Direction	12	11	12	11	11	12	11	11	13	12	15	12	12	12	13	12	12	12	13	11	13	12	20	26	Std. Dev. Wind Direction	
Outdoor Temperature	71.5	70.5	70.3	70.5	70.7	70.7	71.0	72.0	74.2	76.8	79.0	79.3	79.0	77.8	76.9	76.6	75.9	75.3	75.0	74.4	73.1	71.6	71.4	71.9	Outdoor Temperature	
Internal Station Temperature	80.6	80.5	80.5	80.4	80.5	80.6	80.6	80.6	81.0	81.2	81.6	81.4	81.1	81.1	81.1	81.1	81.1	81.1	81.0	80.9	80.9	80.7	80.6	80.7	Internal Station 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	Parameter Measured	
Morning													Afternoon													
x.xx Indicates the data has been validated.																										
Maximum values for each parameter are bold within the table. Minimum values are bold italic .																										
R - Data from this instrument meets EPA quality assurance criteria for regulatory purposes.																										

Previous Day

April 10, 2016

Daily maxima and minima for CAMS 84.

All times shown are CST.

Parameter	POC	Daily Maximum		Daily Minimum	
		Value	Hour	Value	Hour
Nitric Oxide	1	-0.2	5:00 am	-1.0	3:00 pm
Nitrogen Dioxide	1 R	3.2	5:00 am	-2.3	11:00 pm
Oxides of Nitrogen	1	3.0	5:00 am	-2.6	11:00 pm
Ozone	1 R	49	9:00 am	19	5:00 am
Wind Speed	1	19.0	4:00 pm	2.1	3:00 am
Resultant Wind Speed	1	18.6	4:00 pm	2.0	3:00 am
Resultant Wind Direction	1	165	11:00 pm	63	4:00 am
Maximum Wind Gust	1	33.1	4:00 pm	3.0	3:00 am
Std. Dev. Wind Direction	1	18	3:00 am	9	5:00 am
Outdoor Temperature	1	77.4	Noon	60.1	5:00 am
Internal Station Temperature	1	81.4	1:00 pm	79.5	6:00 am
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

OS # 1

FM 521 + 223 +

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:

4-11-16

Start Time:

12:00 pm

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
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	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	no odor

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OS #2

15100 block of West Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 4-11-16 Start Time: 12:23

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	L
24	no odor
25	VL
26	no odor
27	no odor
28	no odor
29	VL
30	no odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	no odor
32	VL
33	no odor
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 X Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OS#3

2000 block of Sweet Wind Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: _____ Start Time: 12:56

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
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	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	no odor
57	'' ''
58	'' ''
59	'' ''
60	'' ''

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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



ATTACHMENT 3

msc

[illegible]

Page 1 of 2

Month / Year: April 2016

[illegible]

COVER APPLICATION LOG CLASS I NON HAZARDOUS

[illegible]

Month / Year: APRIL 2016

[illegible]

ATTACHMENT 4

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 11, 2016
Photograph by Richard Blackney



Photograph 1 of 1: Erosion gullies

