

File Copy

1505 A

Investigation # 1351787

MSW PA_1505A_CO_20160805_Investigation Report
Texas Commission on Environmental Quality
Investigation Report

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INFORMATION COPY
FOR R12 FILE ROOM

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

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1351787

Incident Numbers

239551

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 08/05/2016 -- 10/18/2016

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
MSWC SE - On-site followup
investigation

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
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
Supervisor	ALMA JEFFERSON
QA Reviewer	CARLOS GRIGGS
Investigator	CARLOS GRIGGS

Associated Check List

Checklist Name

MSW COMPLAINT INVESTIGATION

Unit Name

1505A

Investigation Comments:

INTRODUCTION

On July 22, 2016, the Texas Commission on Environmental Quality Houston Region Office Waste Section (TCEQ Houston) received a complaint alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545.

On August 5, 2016, Mr. Richard Blackney and Mr. Carlos Griggs, Environmental Investigators of TCEQ Houston, conducted an unannounced Odor Complaint Investigation at BRL and the area surrounding it. An On-Site Follow-up Investigation was also conducted to determine the status of an outstanding violation at BRL for erosion of cover.

BACKGROUND

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

On July 21, 2016, TCEQ Houston received a letter (Attachment 1) from Mr. Burgess Stengl, Environmental Manager for BRL. The letter included photographs showing repair made to erosion at BRL.

On August 1, 2016, TCEQ Houston received a letter from Mr. Stengl requesting additional time to repair erosion cause by rain on July 25, 26, 27 and 28, 2016. On August 2, 2106, TCEQ Houston sent BRL a letter allowing for additional time to make repairs, and requesting documentation demonstrating compliance. The letters are included in Attachment 2.

GENERAL FACILITY AND PROCESS INFORMATION

BRL's authorization numbers from the TCEQ Central Registry database are included in Attachment 3. 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 No. 239551).

Description of Alleged Effects:

No health effects were alleged.

Meteorological data at the time of the odor survey:

Wind direction: SW, S

Wind Speed: 2.4 to 2.8 mph

Temperature: 87.7 to 89.5°F

Meteorological data taken from TCEQ's continuous air monitoring stations (Attachment 4).

Odor Survey:

The investigators arrived at the first survey point located at the intersection of McHard Road and South Post Oak Road in Houston. Odor Survey (OS) no. 1 took place crosswind of BRL and was conducted at 9:19 a.m. No landfill

odors were detected during the 15 minutes spent at OS site no. 1.

The investigators went to OS site no. 2 located at the 4600 block of Ripple Ridge Drive in Houston. OS No. 2 took place downwind of BRL and was conducted at 9:37 a.m. No landfill odors were detected during the 15 minutes spent at OS site no. 2.

The investigators then went to OS Site no. 3 located at the 16600 block of Sidonie Drive in Houston. OS No. 3 took place downwind of BRL and was conducted at 9:55 a.m. No landfill odors were detected during the 15 minutes spent at OS site no. 3.

Aerial view maps of the OS locations and the OS logs are included in Attachment 4.

Summary of on-site investigation:

Following the odor survey, the investigators 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 investigators viewed the MSW and Class 1 working faces, by which piles of soil were observed. The investigators obtained copies of the cover logs for July and August 2016 (Attachment 5). The cover logs indicate that soil is applied as required. No issues were noted.

On the slopes of the landfill, the investigators observed that soil had been laid as part of BRL's effort to address all areas of erosion. New vegetation was observed to be growing on the soil, indicating that it had been seeded. 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.

BRL has a system of misters for the purpose of neutralizing odors. The investigators viewed the misting system in operation.

Description of Odor:

Odors typical of landfill garbage were not detected during the odor survey.

Description of the Effects on the Investigators:

No health effects were experienced by the investigators.

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 previously during an investigation conducted on July 11, 2016 (Investigation No. 1344778), the frequency of odors documented by the Waste Section investigators is a "single occurrence".

Physical Effects Experienced by the Investigators which are Indicative of Adverse Effects upon Health:

The investigators 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 July 21, 2016, the TCEQ Houston Region Office received a letter from the facility representative that included photographs showing repair made to erosion at BRL.

On August 1, 2016, the TCEQ Houston Region Office received a letter from the facility representative requesting additional time to repair erosion cause by rain on July 25, 26, 27 and 28, 2016.

On August 5, 2016, repair of many of the areas of erosion was 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.

NOV Date 11/29/2016 **Method** PARTIAL COMPLIANCE LETTER

**OUTSTANDING ALLEGED VIOLATION(S)
ASSOCIATED TO A NOTICE OF VIOLATION**

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.

Investigation: 1324578

Comment Date: 07/15/2016

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

Investigation: 1329398

Comment Date: 07/28/2016

Compliance with this regulation was evaluated during the investigation on April 25, 2016.

Investigation: 1335255

Comment Date: 09/01/2016

Compliance with this regulation was evaluated during the investigation conducted on May 17, 2016.

Investigation: 1337197

Comment Date: 09/26/2016

Compliance with this regulation was evaluated during the investigation conducted on June 3, 2016.

Investigation: 1341981

Comment Date: 10/10/2016

Compliance with this regulation was evaluated during the investigation conducted on June 20, 2016.

Investigation: 1344778

Comment Date: 10/28/2016

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

Investigation: 1351787

Comment Date: 11/18/2016

Compliance with this regulation was evaluated during the investigation conducted on August 5, 2016.

Recommended Corrective Action: On July 21, 2016, the TCEQ Houston Region Office received a letter from the facility representative that included photographs showing repair made to erosion at BRL.

On August 1, 2016, the TCEQ Houston Region Office received a letter from the facility representative requesting additional time to repair erosion cause by rain on July 25, 26, 27 and 28, 2016.

On August 5, 2016, repair of many of the areas of erosion was 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 Blackney
Environmental Investigator

Date 11-29-2016

Signed Alma L. Jefferson
Supervisor

Date 11/29/2016

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

TCEQ Complaint Report

08/05/2016
1:43:34PM

COPY

Incident No: 239551
Media Type: WASTE
Start Date: 7/22/2016
Received Date: 07/22/2016
Method : PHONE

Staff Member: RBLACKNE
Status: Closed
Status Date: 08/05/2016
Priority: Within 14 Calendar Days

Regulated Entity: BLUE RIDGE LANDFILL

RN102610102

Address: 2200 FM 521 RD
FRESNO, FORT BEND County, TX 77545
Physical Location: LOCATED ON 2200 FM 521

Responsible Party: BLUE RIDGE LANDFILL TX LP

Title: ENVIRONMENTAL
MANAGER

Address: 5757 OATES RD STE A, HOUSTON, TX 77078
Work Phone: (713)676-7669

Number Complaining: 1

Frequency: INTERMITTENT

Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL

Nature: ODOR

Effect: ENVIRONMENTAL

Initial Problem

Complainant alleges a decaying trash odor coming from this facility.

Action Taken

This complaint has been assigned and will be further investigated by an Environmental Investigator.

Closure Comments

More information will be available upon approval of the investigation report.

Investigation Number: 1351787

YORK

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

November 29, 2016

CERTIFIED MAIL #7013 3020 0000 9763 2434
RETURN RECEIPT REQUESTED

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

Re: Blue Ridge Landfill, 2200 FM 521 Rd., Fresno (Fort Bend County), Texas 77545
TCEQ Municipal Solid Waste Permit No.: 1505A

Dear Mr. Stengl:

On August 5, 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 will monitor your progress in implementing corrective action. Please be advised, though, that if we determine during follow-up monitoring that you are not working towards compliance, further enforcement action will be considered.

The TCEQ appreciates your assistance in this matter and anticipates that you will resolve the alleged violation as required in order to protect the State's environment. 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 August 5, 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 July 21, 2016, the TCEQ Houston Region Office received a letter from the facility representative that included photographs showing repair made to erosion at BRL.

On August 1, 2016, the TCEQ Houston Region Office received a letter from the facility representative requesting additional time to repair erosion cause by rain on July 25, 26, 27 and 28, 2016.

On August 5, 2016, repair of many of the areas of erosion was 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.

Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on August 5, 2016

List of Attachments

Attachment 1	July 20, 2016 letter from Blue Ridge Landfill
Attachment 2	July 29, 2016 letter from Blue Ridge Landfill and August 2, 2016 response letter
Attachment 3	Central Registry Information for Blue Ridge Landfill
Attachment 4	Map of Odor Survey locations and Odor Logs
Attachment 5	July and August 2016 Cover logs

ATTACHMENT 1



July 20, 2016

Ms. Alma L. Jefferson, Team Leader
Region 12, Waste Section
Texas Commission on Environmental Quality (TCEQ)
5425 Polk Ave., Ste. H
Houston, TX 77023

Re: Outstanding Alleged Violations
Response to Additional Compliance Documentation Needed
Blue Ridge Landfill – TCEQ Permit No. MSW- 1505A
Fort Bend County, Texas

Dear Ms. Jefferson:

This letter is submitted on behalf of the Blue Ridge Landfill TX, LP (Landfill) to respond to your July 1, 2016 request for additional compliance documentation for an outstanding alleged violation. The outstanding alleged violation involves erosion of cover that was observed at the Landfill by Mr. Richard Blackney on April 6, 2016. I have attached three photos of the areas that Mr. Blackney observed having erosion of more than four inches in depth (Attachments).

This letter, along with the three photographs, should be adequate documentation that the Blue Ridge Landfill continues to strive for compliance with the TCEQ regulations regardless of weather-related issues.

Please contact me at 713-676-7669 if you require additional information or have any questions regarding this documentation.

Sincerely,

A handwritten signature in cursive script that reads "Burgess Stengl".

Burgess Stengl
Environmental Manager

Attachments

RECEIVED

JUL 21 2016

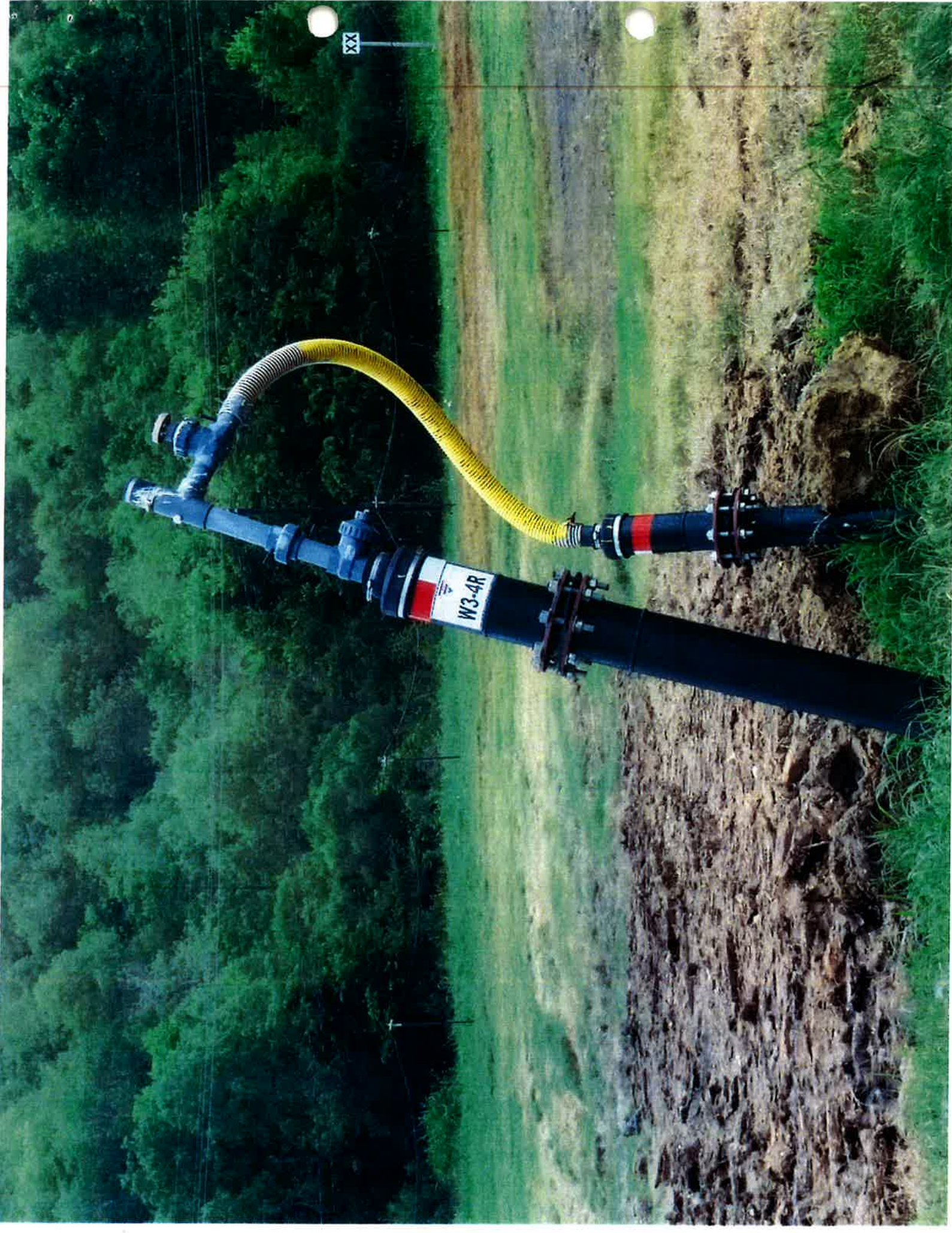
REGION 12

Attachments

RECEIVED
JUL 21 2016
REGION 12







ATTACHMENT 2



July 29, 2016

Mr. Jason Ybarra
Texas Commission on Environmental Quality (TCEQ)
5425 Polk Avenue, Suite H
Houston, Texas 77023

**Re: Request for Additional Time to Repair Erosion
Blue Ridge Landfill TX, LP
2200 FM 521
Fresno, TX 77545
MSW Permit No: 1505A**

Dear Mr. Ybarra,

In accordance with Section 4.18 of the approved Site Operating Plan (SOP), Blue Ridge Landfill is requesting additional time to repair erosion caused by rain on July 25, 26, 27 and 28, 2016. During that period of time, over five inches of rain fell. The SOP requires erosion to be repaired within five days of detection, however, the repairs cannot be made within this timeframe due to the wet soil on the slopes. Safety and environmental compliance are at the forefront of the Blue Ridge Landfill, therefore, the repairs will be made as soon as possible.

If you have any questions regarding this request, please feel free to contact me at 713-676-7669.

Sincerely,

A handwritten signature in dark ink, appearing to read "Burgess Stengl", is written over the printed name.

Burgess Stengl
Environmental Manager

Cc: Matt Montagna, Blue Ridge Landfill

RECEIVED
AUG 01 2016
REGION 12



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 2, 2016

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

Re: Request for Additional Time to Repair Erosion at:
Blue Ridge Landfill, 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545
TCEQ MSW Permit No.: 1505A

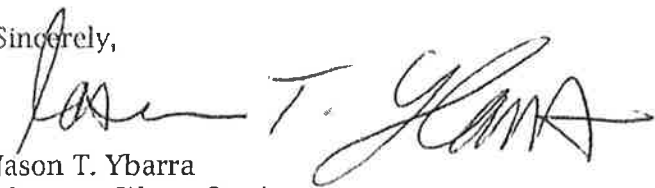
Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office has received your July 29, 2016 letter requesting additional time to repair erosion caused by rain on July 25, 26, 27, and 28, 2016 at the Blue Ridge Landfill.

In accordance with Title 30 Texas Administrative Code § 330.165(g), erosion of cover must be repaired within five days of detection 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 TCEQ Houston Region Office's evaluation indicates the information presented is sufficient to allow additional time for repair. Please submit to this office within 30 days of repair the required documentation demonstrating that compliance has been achieved.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding this matter, please feel free to contact me in the Houston Region Office at (713) 767-3615.

Sincerely,


Jason T. Ybarra
Manager, Waste Section
Houston Region Office

JTY/ALJ/rsv

cc: Mr. Matt Montagna, Blue Ridge Landfill TX, LP, 2200 FM 521 Road, Fresno, RX 77545
Mr. Chance Goodin, Manager, TCEQ MSW Permits, MC-124

ATTACHMENT 3

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

Central Registry Query - Regulated Entity Information

Regulated Entity Information

RN Number: RN102610102**Name:** BLUE RIDGE LANDFILL**Primary Business:** MUNICIPAL SOLID WASTE LANDFILL**Street Address:** 2200 FM 521 RD, FRESNO TX 77545 8214**County:** FORT BEND**Nearest City:** FRESNO**State:** TX**Near ZIP Code:** 77545**Physical Location:** LOCATED ON 2200 FM 521

Affiliated Customers - Current

Your Search Returned **5** Current Affiliation Records ([View Affiliation History](#))

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

1-5 of 5 Records

CN Number ▲	Customer Name	Customer Role(s)	Details
CN600343826	BFI WASTE SYSTEMS OF NORTH AMERICA INC	OWNER OPERATOR	↔
CN601527963	BFI WASTE SERVICES OF TEXAS LP	OWNER	↔
CN601721657	LONGHORN EXCAVATORS INC	OPERATOR	↔
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 4


**TEXAS COMMISSION
ON ENVIRONMENTAL QUALITY**

Air Quality Maps

Data Reports

AutoQC

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:

August 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 **Friday, August 5, 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	-0.1	-0.1	0.2	-0.7	2.3	<u>14.4</u>	7.4	3.4	0.6	-0.5	-0.5	0.2	-0.5	-0.6	-0.4	-0.6	-1.4	-0.2	-0.4	-1.3	0.2	0.7	-0.2	0.0	Nitric Oxide
Nitrogen Dioxide	2.7	1.5	1.3	0.6	8.8	<u>12.2</u>	9.3	6.3	1.3	0.1	-0.7	-0.8	-0.5	0.5	0.3	-0.3	0.4	-0.1	0.1	1.6	2.7	3.8	2.8	1.8	Nitrogen Dioxide
Oxides of Nitrogen	2.5	1.4	1.4	-0.2	10.7	<u>26.0</u>	16.4	9.4	1.9	-0.5	-1.2	-0.6	-0.9	-0.1	-0.1	-0.9	-1.0	-0.3	-0.3	0.2	2.7	4.3	2.5	1.8	Oxides of Nitrogen
Ozone	17	11	8	6	3	0	4	12	18	21	24	26	28	29	27	27	<u>30</u>	23	21	18	12	8	8	8	Ozone
Wind Speed	1.2	1.2	1.0	0.9	1.3	2.1	1.5	<u>2.5</u>	<u>3.6</u>	<u>3.9</u>	2.9	4.0	5.6	7.1	6.5	6.8	4.5	<u>8.3</u>	<u>7.8</u>	<u>5.9</u>	<u>3.9</u>	<u>3.6</u>	<u>3.4</u>	<u>3.3</u>	Wind Speed
Resultant Wind Speed	1.1	0.8	0.8	0.6	1.2	2.0	1.3	2.2	3.1	2.8	2.4	2.3	4.9	6.6	5.8	6.2	4.0	<u>8.2</u>	7.6	5.8	3.8	3.6	3.3	3.2	Resultant Wind Speed
Resultant Wind Direction	151	299	297	<u>351</u>	77	85	66	171	193	242	191	306	140	118	195	180	196	168	165	165	156	168	177	176	Resultant Wind Direction
Maximum Wind Gust	2.1	2.2	1.9	2.2	2.2	3.2	3.6	5.4	8.0	14.5	7.8	8.8	<u>14.7</u>	14.2	14.5	14.2	10.7	14.7	13.3	9.9	8.1	5.8	5.4	6.0	Maximum Wind Gust
Std. Dev. Wind Direction	17	45	34	49	19	21	24	27	30	43	34	53	30	21	26	24	27	11	10	8	9	9	10	11	Std. Dev. Wind Direction
Outdoor Temperature	79.0	78.7	78.9	<u>78.4</u>	79.2	79.0	79.5	84.0	86.5	87.7	89.5	90.5	<u>91.7</u>	91.3	91.3	91.0	90.9	91.1	89.2	85.8	83.3	81.4	80.1	79.7	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	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.																									

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.

OS 10

McHard + S-Post Oak

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 8-5-16 Start Time: 9:19

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
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12	
13	
14	
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16	
17	
18	
19	no odor
20	" "
21	" "
22	" "
23	" "
24	" "
25	" "
26	" "
27	" "
28	" "
29	" "
30	" "

Minutes	Odor Intensity VL, L, M, S, VS
31 min	no odor
32	" "
33	" "
34	
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36	
37	
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41	
42	
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Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OSZ

4600 block of Ripple Ridge

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 8-5-16 Start Time: 9:37

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	no odor
38	" "
39	" "
40	" "
41	" "
42	" "
43	" "
44	" "
45	" "
46	" "
47	" "
48	" "
49	" "
50	" "
51	" "
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Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

053

16600 block of Sidonie

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 8-5-16 Start Time: 9:55

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
2	" "
3	" "
4	" "
5	" "
6	" "
7	" "
8	" "
9	" "
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
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39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	no odor
56	" "
57	" "
58	" "
59	" "
60	" "

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

S. Post Oak Rd

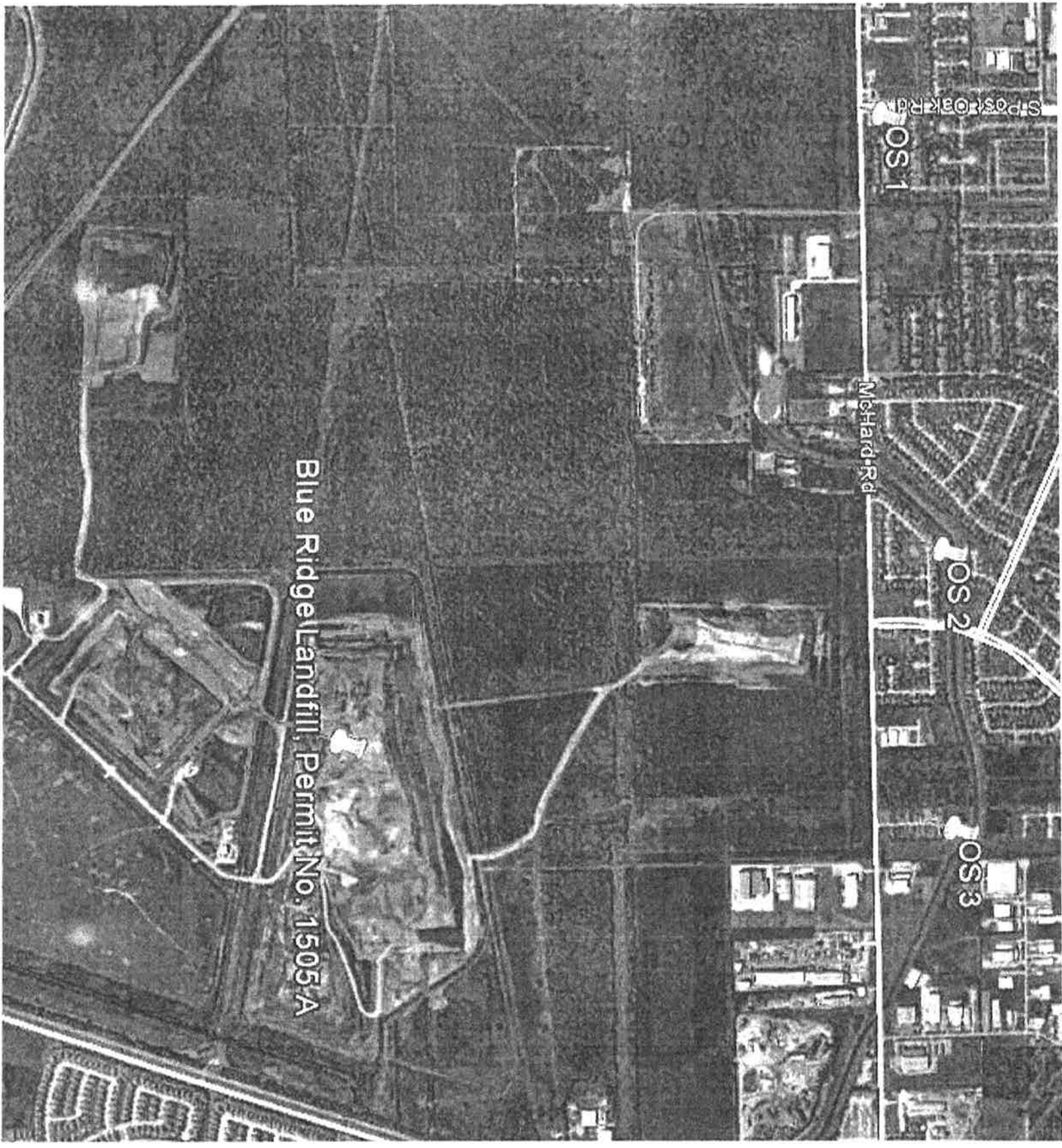
OS 1

McHard Rd

OS 2

OS 3

Blue Ridge Landfill, Permit No. 1505-A



ATTACHMENT 5

Daily Cover				Approved Alternate Daily Cover				Elevation	Inspection Date of Daily Cover ¹	Erosion of Leachate Seep Detected ²	Date of Erosion or Leachate Seep Corrected ³	Corrective Action ⁴	Soil Stockpile Required ⁵ (yd ³)	Rain (inches)	Rain (inches) ≥ 0.5"	Intermediate Cover				Final Cover				Erosion Detected ≥ 4"	Date Erosion Corrected ⁶	Corrective Action ⁷	Final Cover Certification Report Reference	Month / Year	Supervisor Signature
AMT ⁸	Grid Area	T ⁹	Method ¹⁰	Grid Area	AMT ¹¹	T ¹²	Method ¹³	MSL								12" Soil	Grid Area	T ¹⁴	Method ¹⁵	Grid Area	T ¹⁶	Method ¹⁷							
1	750	36-34	B	—	—	—	—	114-118	✓																				
2	750	36-34	B	—	—	—	—	115-120	✓																				
3																													
4	750	36-34	B	—	—	—	—	120-120	✓																				
5	750	36-34	B	—	—	—	—	120-125	✓																				
6	750	36-34	B	—	—	—	—	117-118	✓																				
7	750	36-34	B	—	—	—	—	118-122	✓																				
8	750	36-34	B	—	—	—	—	122-125	✓																				
9	750	36-34	B	—	—	—	—	114-118	✓																				
10																													
11	750	36-34	B	—	—	—	—	118-122	✓																				
12	750	36-34	B	—	—	—	—	122-125	✓																				
13	750	36-34	B	—	—	—	—	114-118	✓																				
14	750	36-34	B	—	—	—	—	118-122	✓																				
15	750	36-34	B	—	—	—	—	122-125	✓																				
16	750	36-34	B	—	—	—	—	114-118	✓																				
17																													
18	750	36-34	B	—	—	—	—	116-120	✓																				
19	750	36-34	B	—	—	—	—	120-125	✓																				
20	750	36-34	B	—	—	—	—	118-122	✓																				
21	750	36-34	B	—	—	—	—	122-125	✓																				
22	750	36-34	B	—	—	—	—	118-122	✓																				
23	750	36-34	B	—	—	—	—	118-122	✓																				
24																													
25	750	36-34	B	—	—	—	—	114-118	✓																				
26	750	36-34	B	—	—	—	—	118-122	✓																				
27	750	36-34	B	—	—	—	—	122-125	✓																				
28	750	36-34	B	—	—	—	—	114-118	✓																				
29	750	36-34	B	—	—	—	—	118-122	✓																				
30	750	36-34	B	—	—	—	—	122-125	✓																				
31																													

AMT = Amount of cover (soil) in yd³ 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 event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form

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 unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay

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 of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area

Signature certifies work accomplished as stated in the Cover Application Log

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16	Placed Top cover on South Slope 7-11H
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25	Added Intermediate cover on South Slope 1-2
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MSW

Month / Year: AUGUST 2016

Line	Daily Cover				Approved Alternate Daily Cover				Elevation	MSL	Inspection Date of Daily Cover ²	Erosion or Leachate Seep Detected	Corrective Action ⁴	Soil Stockpile Required ⁵ (yd ³)	Rain (Inches) ± 0.5"	Rain (Inches) ± 0.5"	Intermediate Cover				Final Cover				Final Cover Certification Report Reference	Supervisor Signature
	AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³									AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³		
1	750	45-46	4"	B	1	-	-	-	118-123		✓															
2	750	45-46	6"	B	1	-	-	-	123-135		✓															
3	1100	45-46	4"	B	1	-	-	-	114-118		✓															
4	1200	45-46	4"	B	1	-	-	-	118-123		✓															
5																										
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29																										
30																										
31																										

AMT = Amount of cover (soil) in yd³ 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 event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan, Section 4.18. Additional documentation area on back of form.

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 unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.

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

SOP Section 7.7.4 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 allocated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.

Signature certifies work accomplished as stated in the Cover Application Log

1	News let com on top of hill 24-11
2	" " " " " " " " " "
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Daily Cover				Alternate Daily Cover				Elevation		Inspection Date of Daily Cover ¹	Erosion or Leachate Seep Detected ²	Corrective Action ³	Soil Stockpile Required ⁴ (yd ³)	Rain (inches) 2.0-5.0"	Rain (inches) 5.0-6.0"	Intermediate Cover			Final Cover			Inspection Date of Intermediate & Final Cover ⁵	Erosion 2 ft Detected ⁶	Date Erosion Corrected ⁷	Corrective Action ⁸	Final Cover Certification Report Reference	Supervisor Signature
AMT ⁹	Grid Area	T ¹⁰	Method ¹¹	AMT ⁹	Grid Area	T ¹⁰	Method ¹¹	MSL								Grid Area	AMT ⁹	T ¹⁰	Method ¹¹	Grid Area	AMT ⁹	T ¹⁰	Method ¹¹				
1	500	Q-24	B	—	—	—	—	49'	—	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	500	Q-24	B	—	—	—	—	49'	—	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	500	Q-24	B	—	—	—	—	50'	—	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	500	Q-24	B	—	—	—	—	50'	—	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	500	Q-24	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

AMT = Amount of cover (soil) in yd³ 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 event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form.
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 unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.
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 of the working face. A 50 yd³ soil stockpile is required within 100 ft of the Regulated Asbestos-Containing Material (RACM) disposal area.
Signature certifies work accomplished as stated in the Cover Application Log.

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