

File Copy

1505A
~~1371383~~

Investigation # 1371383

MSW PA_1505A_CO_20161013_Investigation Report
Texas Commission on Environmental Quality
Investigation Report

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

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1371383

Incident Numbers

246413 246410
246624 246414
246412

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 10/31/2016 -- 12/14/2016

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
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (713) 676-7664
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669

Other Staff Member(s):

Role	Name
QA Reviewer	CARLOS GRIGGS
Supervisor	ALMA JEFFERSON

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	complaint

Investigation Comments:

INTRODUCTION

On October 28 and 31, 2016, the Texas Commission on Environmental Quality Houston Region Office Waste Section (TCEQ Houston) received five 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 October 28, 2016.

On October 31, 2016, Mr. Richard Blackney, Environmental Investigator 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.

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. 246410, 246412, 246413, 246414 and 246624).

Description of Alleged Effects:

Sleep discomfort, stomach sickness, and headache were described.

Meteorological data at the time of the odor survey:

Wind direction: SE

Wind Speed: 9.2 to 9.7 mph

Temperature: 82.4 to 82.8 °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 13500 block of Silent Walk Drive in Pearland. Odor Survey (OS) no. 1 took place crosswind of BRL and was conducted at 12:51 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 1.

BLUE RIDGE LANDFILL - FRESNO

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The investigator went to OS site no. 2 located at the 19400 block of Post Oak Blvd. in Fresno. OS No. 2 took place crosswind of BRL and was conducted at 1:14 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 2.

The investigator then went to OS Site no. 3 located at the intersection of S. Post Oak Rd. and McHard Rd. in Houston. OS No. 3 took place downwind of BRL and was conducted at 1:43 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 3.

The investigator then went to OS Site no. 4 located at the 16600 block of Ripple Ridge Drive in Houston. OS No. 4 took place downwind of BRL and was conducted at 2:03 p.m. Odors typical of landfill garbage were detected briefly during the 15 minutes spent at OS Site No. 4, averaging to Very Light.

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 investigator arrived at BRL, and explained the purpose and scope of the investigation to Mr. Burgess Stengl, Environmental Manager, and Mr. Matt Montagna, Landfill Operations Manager.

BRL receives Class 1 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 October 2016 (Attachment 5). The cover logs indicate that soil is applied as required. No issues were noted.

On the slopes of the landfill, the investigator 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 investigator viewed the mister system in operation. To supplement the mister system, BRL is in the process of installing a vapor odor neutralizing system along the eastern property boundary of the landfill. The investigator viewed the T-posts that had been installed to support the vapor neutralizers. The vapor system was not yet operational at the time of the investigation.

The investigator observed that covers had been installed at the solidification basin. The covers open and close using a wench system.

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". The frequency of odors documented by the Waste Section investigator within the previous 90 days is a "single 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 October 31, 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.

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.

BLUE RIDGE LANDFILL - FRESNO

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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.

Investigation: 1368875

Comment Date: 11/30/2016

Compliance with this regulation was evaluated during the investigation conducted on October 13, 2016.

Investigation: 1371383

Comment Date: 01/12/2017

Compliance with this regulation was evaluated during the investigation conducted on October 31, 2016.

Recommended Corrective Action: On October 31, 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 1/20/17

Signed Alma L. Jefferson
Supervisor

Date 01/20/2017

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 20, 2017

CERTIFIED MAIL #7014 0510 0001 2634 2040
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 October 31, 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 October 31, 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.

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CERTIFIED MAIL RECEIPT CARD ("Green Card")

Division/Region: OCE-R12 Section: Waste

Record Series: _____

Primary Identification Number(Acc/URN): 1505A

Secondary Identification Number(Permit): _____

Facility: Blueridge Landfill Date of Letter: 1 - 20 - 17

Regarding: _____

COMPLETE THIS SECTION ON DELIVERY	
A. Received by (Please Print Clearly) <u>Michael Mack</u>	B. Date of Delivery <u>FEB 06 2017</u>
C. Signature <u>X M L Mack</u>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
D. Is delivery address different from item 1? If YES, enter delivery address below:	<input type="checkbox"/> Yes <input type="checkbox"/> No
RECEIVED	
3. Service REGION 12 <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
1. Article Addressed to: MR. BURGESS STENGL ENVIRONMENTAL MANAGER BLUE RIDGE LANDFILL TX, LP P.O. BOX 879 FRESNO, TX 77545	
2. Article # <u>7014 0510 0001 2634 2040</u>	
PS Form 3811, July 1999	

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
Postage	\$ <u>1505A</u>
Certified Fee	<u>R Blackney</u>
Return Receipt Fee (Endorsement Required)	<u>1-20-17</u>
Restricted Delivery Fee (Endorsement Required)	<u>other</u>
Total Postage	
Sent To	MR. BURGESS STENGL ENVIRONMENTAL MANAGER BLUE RIDGE LANDFILL TX, LP P.O. BOX 879 FRESNO, TX 77545
Street, Apt. No. or PO Box No.	
City, State, Zip	
PS Form 3800, August 2006	
See Reverse for Instructions	

7014 0510 0001 2634 2040

Domestic Return Receipt

102595-00-M-0952

ENTERED 2-27-17

Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on October 31, 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	October 2016 Cover log

ATTACHMENT 1

[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	GALVESTON COUNTY LANDFILL TX 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

[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 [Select a different site](#)

Month: Day: Year: Time Format:

October 31 2016 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

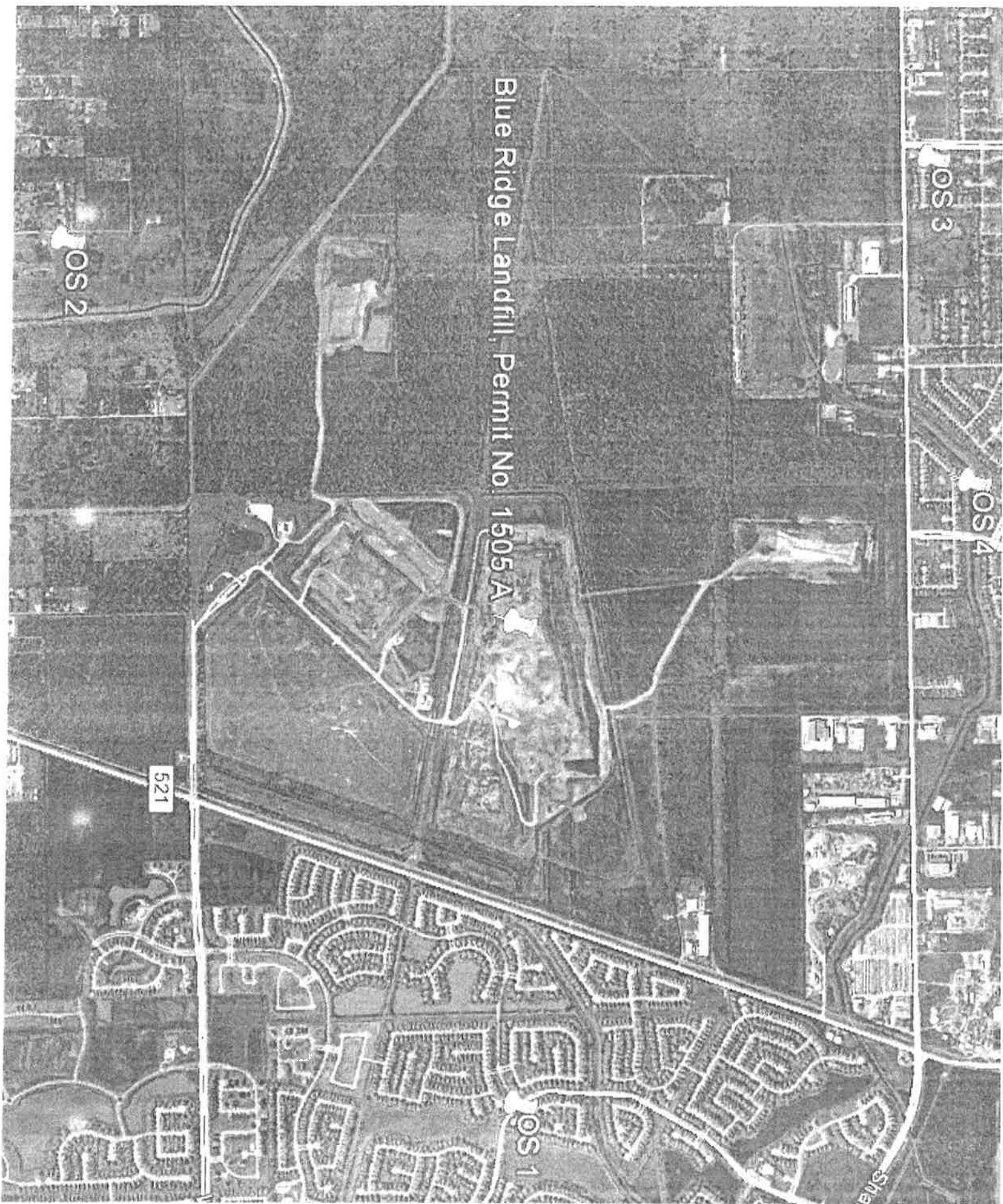
☒ Green underline for validated data

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for **Monday, October 31, 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	0.1	0.6	0.3	0.4	0.7	4.7	11.8	13.7	<u>17.4</u>	12.2	1.9	0.1	0.1	0.1	0.1	0.1	0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.3	-0.2	Nitric Oxide	
Nitrogen Dioxide	6.8	10.7	5.9	7.2	7.6	14.4	<u>22.1</u>	18.7	20.6	19.6	8.9	2.1	2.1	1.8	2.0	2.2	2.7	4.3	9.3	7.1	7.1	7.0	5.6	5.2	Nitrogen Dioxide	
Oxides of Nitrogen	7.0	11.4	6.3	7.7	8.4	19.2	34.1	32.5	<u>38.2</u>	31.9	10.9	2.2	2.2	2.0	2.1	2.3	2.7	4.1	9.3	7.1	7.1	7.0	5.4	5.1	Oxides of Nitrogen	
Ozone	7	4	3	4	2	1	2	5	7	17	38	50	<u>51</u>	51	51	48	47	41	34	33	29	25	24	25	Ozone	
Wind Speed	1.8	1.0	0.5	0.4	0.5	0.3	0.3	2.9	4.2	4.9	7.1	<u>9.9</u>	9.5	9.7	9.2	9.1	8.8	6.2	3.6	3.9	2.8	3.4	3.4	3.5	Wind Speed	
Resultant Wind Speed	1.7	1.0	0.5	0.3	0.4	0.3	0.3	2.8	4.1	4.6	6.2	<u>9.2</u>	9.0	9.2	8.6	8.6	8.5	6.1	3.5	3.9	2.7	3.4	3.4	3.5	Resultant Wind Speed	
Resultant Wind Direction	3	11	347	14	<u>355</u>	39	64	48	47	67	104	131	136	140	127	129	140	136	134	90	81	95	96	100	Resultant Wind Direction	
Maximum Wind Gust	2.7	3.1	2.5	2.6	3.1	0.3	0.3	5.2	7.8	8.8	16.4	<u>18.1</u>	16.3	16.7	15.9	16.0	14.6	12.7	6.7	5.9	4.7	5.0	5.7	4.9	Maximum Wind Gust	
Std. Dev. Wind Direction	15	19	11	25	22	26	21	14	15	19	<u>29</u>	22	19	19	19	18	14	13	13	10	14	7	9	11	Std. Dev. Wind Direction	
Outdoor Temperature	63.7	63.6	<u>62.6</u>	62.7	63.2	63.9	62.7	63.9	67.9	71.5	77.1	81.5	82.3	82.4	<u>82.8</u>	81.8	79.9	76.3	73.6	72.8	72.0	71.1	71.0	70.8	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													Param Meas
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.



13500 Lock of Silent Walk Dr.

051

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-31-16 Start Time: 12:51

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
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	
45	
46	
47	
48	
49	
50	
51	no odor
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						X
10 Min						X
1 Hour						X

052

19400 block of Post Oak

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/31/16 Start Time: 1:14

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	no odor
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	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

053

E Post Oak + . KHard Rd.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-31-16 Start Time: 1:43

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	
43	no odor
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						X
10 Min						X
1 Hour						X

OS4

16600 Block of Ripple Ridge Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-31-16 Start Time: 2:03 pm

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	no odor
4	" "
5	" "
6	" "
7	" "
8	" "
9	" "
10	" "
11	" "
12	" "
13	VL
14	no odor
15	no odor
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	

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min					<input checked="" type="checkbox"/>	
10 Min					<input checked="" type="checkbox"/>	
1 Hour						

ATTACHMENT 3

Daily Cover		Approved Alternate Daily Cover		Elevation	Inspection Date of Daily Cover	Erosion or Leachate Seep Detected	Corrective Action	Soil Stockpile Required (yd)	Rain (inches)	Riprap (inches)	Intermediate Cover		Final Cover		Inspection Date of Intermediate & Final Cover	Erosion 24 Hours after Detection	Date Erosion Corrected	Corrective Action	Final Cover Certification Report Reference	Supervisor Signature
AMT	Grid Area	T	Method								Grid Area	T	Method	Grid Area	T					
1	500	42-48	6"	B	40-42	✓														
2																				
3	500	42-48	6"	B	42-46	✓														
4	500	42-48	6"	B	46-50	✓														
5	500	42-48	6"	B	50-54	✓														
6	500	42-48	6"	B	40-44	✓														
7	500	42-48	6"	B	44-48	✓														
8	500	42-48	6"	B	48-50	✓														
9																				
10	500	42-48	6"	B	50-54	✓														
11	500	42-48	6"	B	40-44	✓														
12	500	42-48	6"	B	44-48	✓														
13	500	42-48	6"	B	48-52	✓														
14	700	42-48	6"	B	40-46	✓														
15	500	42-48	6"	B	46-48	✓														
16																				
17	500	42-48	6"	B	48-54	✓														
18	500	42-48	6"	B	40-44	✓														
19	500	42-48	6"	B	44-48	✓														
20	500	42-48	6"	B	48-52	✓														
21	500	42-48	6"	B	52-55	✓														
22	500	42-48	6"	B	40-42	✓														
23																				
24	700	42-48	6"	B	42-46	✓														
25	600	42-48	6"	B	46-50	✓														
26	700	42-48	6"	B	50-54	✓														
27	600	42-48	6"	B	40-45	✓														
28	700	42-48	6"	B	45-50	✓														
29	500	42-48	6"	B	50-52	✓														
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 7.74 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

Third Party Suspension Receiving Phase 3 During Act 2011

Third Party Receiving along on North Side in Phase 3