

MSW PA\_1505A\_CO\_20170519\_Investigation Report  
Texas Commission on Environmental Quality  
Investigation Report

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

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**Regulated Entity Name: BLUE RIDGE LANDFILL**

**Regulated Entity Number: RN102610102**

Investigation # 1415165

**Incident Numbers**

257597	257622
257574	257439
257526	257618
257559	257446
257433	257563
257540	257530
257538	257614
257575	257613
257444	257557
257441	257587
257610	257434
257600	257619
257561	257447
257430	257608
257609	257595
257436	257533
257442	257615
257527	257555
257565	257617
257621	257601
257607	257562
257611	256611
257437	257553
257431	257536
257592	257623

**Investigator:** RICHARD BLACKNEY

**Site Classification** TYPE 1

**Conducted:** 05/19/2017 -- 07/12/2017

**SIC Code:** 1521

**SIC Code:** 4953

**NAIC Code:** 562212

**Program(s):** MUNICIPAL SOLID WASTE DISPOSAL

**Investigation Type:** Compliance Investigation

**Location:** LOCATED ON 2200 FM 521

**Additional ID(s):** 1505A

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

**Local Unit:** REGION 12 - HOUSTON

**Activity Type(s):** MSWC MPL - Investigation of MSW  
complaint

**Principal(s):**

**Role**

**Name**

RESPONDENT  
RESPONDENT

BLUE RIDGE LANDFILL TX LP  
GENERIC INCIDENT PRINCIPAL

**Contact(s):**

**BLUE RIDGE LANDFILL - FRESNO**

5/19/2017 to 7/12/2017 Inv. # - 1415165

Page 2 of 5

Role	Title	Name	Phone
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (281) 668-9739
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	OPERATIONS SUPERVISOR	MR RANDY CONELEY	Cell (832) 710-9856
PARTICIPATED IN	OPERATIONS SUPERVISOR	MR RICHARD LEMMEL	Cell (832) 309-8162

**Other Staff Member(s):**

Role	Name
Supervisor	ALMA JEFFERSON
QA Reviewer	TOM COLLINS

**Associated Check List**

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

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

On May 5, 8, 9, 11, 12, 15 and 16, 2017, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 77 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 May 4, 5, 6, 7, 9, 12, 13 and 14, 2017. An additional complaint received on April 19, 2017 was in regards to the length of time that intermediate cover has been in place on sectors I-1 through I-8 (known as Phase One) of the landfill.

On May 19, 2017, Mr. Richard Blackney, Environmental Investigator of the TCEQ Houston Region Office, conducted an unannounced Odor Complaint Investigation at BRL and the area surrounding it.

**BACKGROUND**

At the time of the investigation, BRL had active alleged violations for failure to prevent nuisance odor conditions and failure to perform surface emissions monitoring in accordance with 40 Code of Federal Regulations Part 60. Agreed Order Docket No. 2016-1923-AIR-E was proposed as a result of the alleged violations. The order was signed by the TCEQ on July 12, 2017, and includes technical requirements for minimizing odors.

**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 dispose of MSW including household solid waste, commercial solid waste,

**BLUE RIDGE LANDFILL - FRESNO**

5/19/2017 to 7/12/2017 Inv. # - 1415165

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construction and demolition waste, and yard waste; Class 1, Class 2, and Class 3 non-hazardous industrial solid waste; and certain special wastes. Liquid waste will be accepted at the Liquid Waste Bulking Facility for stabilization and subsequent disposal. BRL may not accept regulated hazardous waste, prohibited polychlorinated biphenyls, or untreated medical waste.

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. 256611, 257430, 257431, 257433, 257434, 257436, 257437, 257439, 257441, 257442, 257444, 257446, 257447, 257526, 257527, 257530, 257533, 257536, 257538, 257540, 257553, 257555, 257557, 257559, 257561, 257562, 257563, 257565, 257574, 257575, 257587, 257592, 257595, 257597, 257600, 257601, 257607, 257608, 257609, 257610, 257611, 257613, 257614, 257615, 257617, 257618, 257619, 257621, 257622, 257623, 257624, 257625, 257628, 257629, 257632, 257637, 257638, 257639, 257640, 257643, 257753, 257754, 257756, 257759, 257760, 257768, 257859, 257866, 257868, 257870, 257873, 257875, 257879, 257880, 257883, 257884, 257886 and 258132). Some of the incidents for this complaint are included in Data Maintenance File Review No. 1415174.

**Description of Alleged Effects:**

Nausea, headaches, and coughing were described as occurring due to the odors.

**Meteorological data at the time of the odor survey:**

Resultant Wind direction: Southeast  
Resultant Wind Speed: 13.6 to 15.3 mph  
Outdoor Temperature: 83.1 to 83.9 °F

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

**Odor Survey (OS):**

At 9:47 a.m., the investigator arrived at the first survey point located on Alameda School Road ¼ mile north of McHard Road in Pearland. No odors were detected during the 5 minutes spent at OS Site No. 1.

At 9:56 a.m., the investigator arrived at the second survey point located on Riley Road between Park Alameda Dr. and Alameda School Road near Pearland. No odors were detected during the 5 minutes spent at OS Site No. 2.

At 10:04 a.m., the investigator arrived at the third survey point located on Alameda School Road ½ mile north of Kingsley Drive near Pearland. No odors were detected during the 5 minutes spent at OS Site No. 3.

At 10:18 a.m., the investigator arrived at the fourth survey point located at the intersection of Hiram Clarke Rd and Clarke Springs Dr. in Houston. No odors were detected during the 5 minutes spent at OS Site No. 4.

At 10:29 a.m., the investigator arrived at the fifth survey point located at the 16600 block of Sidonie Drive in Houston. OS Site No. 5 was located downwind of BRL. No odors were detected during the 5 minutes spent at OS Site No. 5.

At 10:38 a.m., the investigator arrived at the sixth survey point located at the 16600 block of W Ripple Ridge Dr. in Houston. OS Site No. 6 was located downwind of BRL. No odors were detected during the 5 minutes spent at OS Site No. 6.

At 10:45 a.m., the investigator arrived at the seventh survey point located at the intersection of South Dr. and West Dr. near Houston. No odors were detected during the 5 minutes spent at OS Site No. 7.

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

**Summary of on-site investigation:**

Following OS No. 7, the investigator arrived at BRL, and met with Mr. Matt Montagna, Landfill Operations Manager, and Mr. Burgess Stengl, Environmental Manager, to whom the purpose and scope of the investigation were explained. For the site observations, Mr. Randy Conely and Mr. Richard Lemmel, Operations Supervisors,

accompanied the investigator within the landfill property.

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 and MSW working faces 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 a copy of the MSW working face cover log for May 2017 (Attachment 3). The cover log indicated that soil is applied to the working faces as required.

BRL has a system of misters for the purpose of neutralizing odors. The investigator viewed the misting system in operation. BRL had also installed and begun operating another odor control system, this one using vapor rather than mist.

Odor Survey, continued:

At 12:20 p.m., the investigator arrived at the eighth survey point located at the 2700 block of Biscayne Bay Drive in Pearland. No odors were detected during the 5 minutes spent at OS Site No. 8.

At 12:34 p.m., the investigator arrived at the ninth survey point located at the intersection of Blucbonnet Dr. and Feld Dr. near Houston. No odors were detected during the 5 minutes spent at OS Site No. 9.

Description of Odor:

Landfill odors were not 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 Frequency, Intensity, Duration and Offensiveness (FIDO) Chart Evaluation:

According to the FIDO protocol, the odor of landfill garbage is characterized as "offensive". Prior to the May 19 odor survey, landfill odors had been detected on April 17 and 26, 2017. Therefore, the frequency of odors documented by the investigator was a monthly occurrence. According to FIDO protocol, a nuisance condition was not confirmed.

#### ADDITIONAL INFORMATION

Under Permit No. 1505A, BRL is considered to be a single waste disposal unit. Closure activities, including installation of final cover, are required to begin when the entire unit has reached final approved contours, or no later than one year after the most recent receipt of wastes. Regarding the complaint about Phase One of the landfill, intermediate cover remains in place there since BRL has not reached its maximum contours, and waste is still being received. No alleged violations were noted regarding cover.

#### CONCLUSION

Nuisance conditions were not confirmed during the investigation conducted on May 19, 2017.

**No Violations Associated to this Investigation**

Signed Richard Blackney  
Environmental Investigator

Date 8-11-2017

Signed Alma L. Jefferson  
Supervisor

Date 08/11/2017

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

- Enforcement Action Request (EAR)
- Letter to Facility (specify type): No Action Letter
- Investigation Report
- Sample Analysis Results
- Manifests
- Notice of Registration

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



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**Investigation Report**

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

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**Regulated Entity Name: BLUE RIDGE LANDFILL**  
**Regulated Entity Number: RN102610102**

Investigation # 1415174

**Incident Numbers**

257643	257629
257873	257879
257637	257639
257624	257768
257632	257880
257638	257875
257754	257640
257753	257759
257625	257884
257866	257628
257859	257868
257883	257760
257870	257756
258132	257886

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 05/19/2017 -- 07/12/2017

SIC Code: 1521

SIC Code: 4953

NAIC Code: 562212

Program(s): MUNICIPAL SOLID WASTE DISPOSAL

Investigation Type: Data Maintenance File Review

Location: LOCATED ON 2200 FM 521

Additional ID(s): 1505A

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

Local Unit:  
Activity Type(s):

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
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Other Staff Member(s):

Role	Name
Supervisor	ALMA JEFFERSON

**Associated Check List**

Checklist Name

Unit Name

**Investigation Comments:**

This Data Maintenance File Review was created to associate additional incidents for Investigation No. 1415165.

**No Violations Associated to this Investigation**

Signed

Richard Blackney  
Environmental Investigator

Date

8-11-2017

Signed

Alma L. Jefferson  
Supervisor

Date

08/11/2017

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

- Enforcement Action Request (EAR)
- Letter to Facility (specify type): No Action Letter
- 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*

August 11, 2017

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

Re: Investigation Request at:  
Blue Ridge Landfill, 2200 FM 521 Rd, Fresno, TX 77545-8214  
TCEQ MSW Permit No.: 1505A  
**Investigation Nos.: 1415165, 1415174**

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on April 19, May 5, 8, 9, 11, 12, 15, and 16, 2017 requests for assistance regarding the odor and intermediate cover at the above-referenced facility. In response to this request, Mr. Richard Blackney of this office conducted an investigation on May 19, 2017. No violations are being alleged as a result of the investigation.

For more information about our complaint process, you may access the publication GI-278: *Do You Want to Make an Environmental Complaint? Do You Have Information or Evidence?* on our website at [www.tceq.texas.gov](http://www.tceq.texas.gov).

We appreciate your assistance in this matter and your interest in protecting the quality of our environment. If you have any questions concerning these findings, or if we can be of further assistance, please contact Mr. Blackney at this office (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



**Blue Ridge Landfill**  
**2200 F.M. 521, Fresno (Fort Bend County), TX 77545**  
**Municipal Solid Waste Permit No. 1505A**  
**MSW Complaint Investigation**  
**Conducted on May 19, 2017**

List of Attachments

Attachment 1	Blue Ridge Landfill Information from the TCEQ Central Registry Database
Attachment 2	Meteorological Information, Map of Odor Survey locations and Odor Logs
Attachment 3	May 2017 Cover Log

# 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](#) )

*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	<a href="#">↔</a>
CN601527963	BFI WASTE SERVICES OF TEXAS LP	OWNER	<a href="#">↔</a>
CN601721657	LONGHORN EXCAVATORS INC	OPERATOR	<a href="#">↔</a>
CN603713595	BLUE RIDGE LANDFILL TX LP	OWNER OPERATOR	<a href="#">↔</a>
CN603713595	GRISHAM & JHA GROUP LLC	OPERATOR	<a href="#">↔</a>

### Industry Type Codes

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

### Permits, Registrations, or Other Authorizations

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

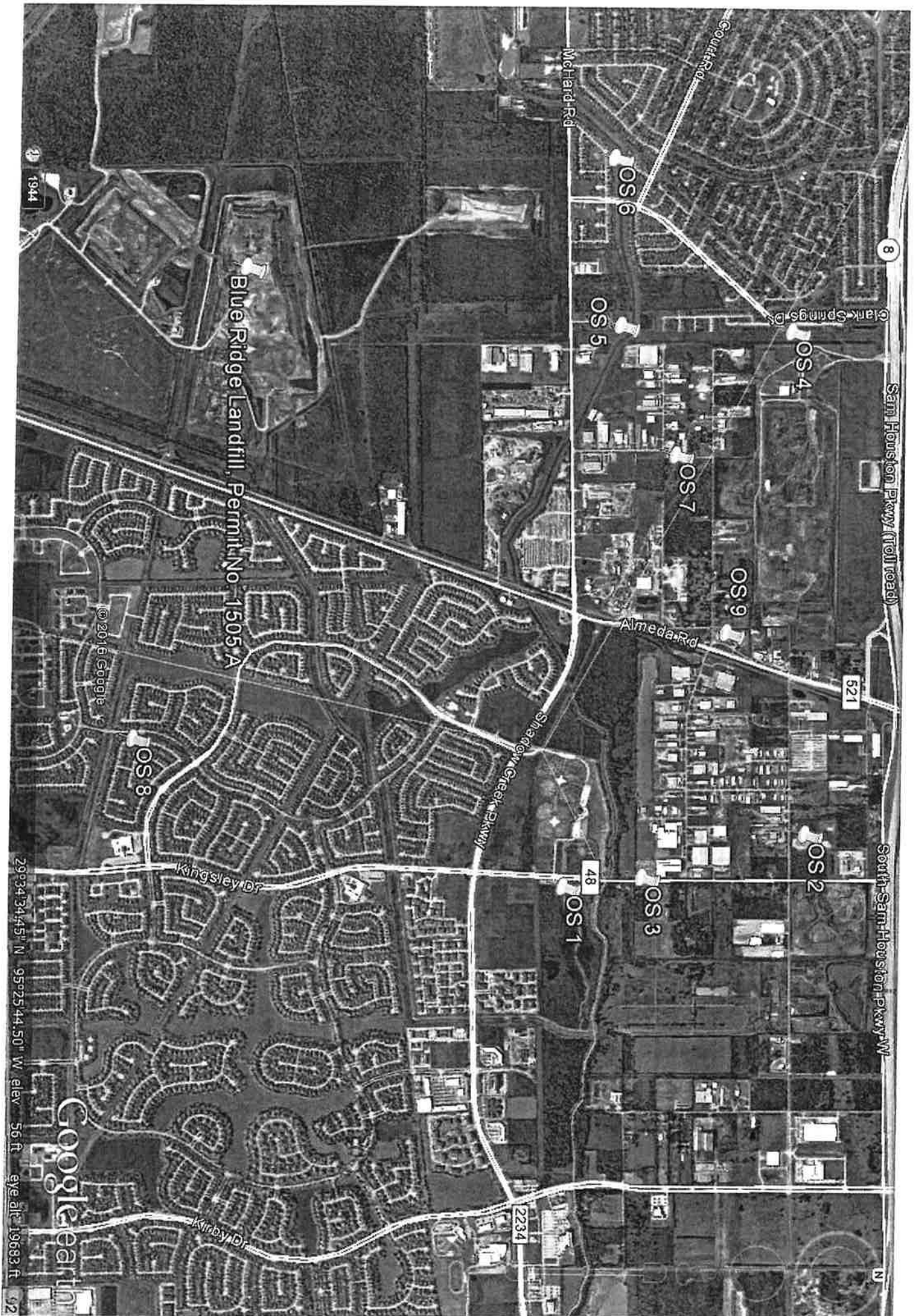
#### 1-21 of 21 Records

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

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# **ATTACHMENT 2**



8

Sam Houston Pkwy (toll road)

521

South Sam Houston Pkwy W

N

OS 6

OS 5

OS 4

OS 7

OS 9

Alameda Rd

OS 2

OS 3

OS 1

48

2234

Blue Ridge Landfill, Permit No. 1505 A

© 2016 Google

Google earth

29°34'34.45" N 95°25'44.50" W elev 56 ft eye alt 19683 ft

1944

92



## 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 C64 ▼ Select a different site

Month: Day: Year: Time Format:

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 Friday, May 19, 2017. All times shown are in CST.

Parameter Measured	Morning												Afternoon											Pa Me			
	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	-0.0	0.1	-0.0	-0.0	0.2	0.5	<b>0.7</b>	0.6	0.5	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.2	0.1	0.1	0.1	-0.0	0.0	0.0	Nitr		
Nitrogen Dioxide	1.2	0.6	0.5	1.7	3.6	<b>4.9</b>	3.4	2.0	1.5	1.3	1.2	1.3	1.5	1.3	1.0	1.0	0.9	1.1	1.2	0.6	0.4	0.4	<b>0.3</b>	1.0	Nitr Dio		
Oxides of Nitrogen	1.1	0.7	0.5	1.6	3.8	<b>5.5</b>	4.1	2.6	2.0	1.6	1.5	1.5	1.9	1.7	1.2	1.4	1.1	1.2	1.2	0.6	0.5	0.4	<b>0.3</b>	1.0	Oxide Nitr		
Ozone	23	24	26	23	20	<b>17</b>	19	22	25	26	27	<b>28</b>	27	27	25	24	25	23	22	23	22	21	21	20	Ozo		
Wind Speed	8.4	8.5	8.1	<b>6.9</b>	7.8	7.4	9.3	12.3	15.4	14.6	15.6	<b>15.7</b>	14.0	15.5	15.6	14.2	12.3	9.3	9.3	11.1	9.7	9.1	9.6	7.0	Win		
Resultant Wind Speed	8.2	8.4	8.0	<b>6.8</b>	7.6	7.2	9.1	11.9	15.0	14.1	15.2	<b>15.3</b>	13.6	15.0	15.2	13.7	11.9	9.0	9.0	10.8	9.5	8.9	9.4	6.8	Res Win		
Resultant Wind Direction	152	154	155	153	148	137	139	149	153	<b>157</b>	153	154	145	155	157	145	140	<b>135</b>	136	142	140	141	147	154	Res Win Dire		
Maximum Wind Gust	15.2	15.1	16.4	14.2	16.2	<b>13.6</b>	18.1	23.1	26.9	24.6	27.8	24.6	25.4	<b>28.2</b>	25.5	25.5	20.2	18.8	19.4	19.6	18.0	16.0	18.0	14.1	Max Win		
Std. Dev. Wind Direction	13	<b>11</b>	11	11	13	12	13	13	11	14	13	13	14	14	14	14	<b>15</b>	14	13	14	13	13	13	17	Std. Win Dire		
Outdoor Temperature	77.9	77.8	77.9	77.6	77.5	<b>76.8</b>	77.9	79.7	80.8	81.9	83.1	83.7	83.9	<b>85.0</b>	85.0	84.0	82.8	80.9	79.6	79.1	78.5	78.0	78.1	77.9	Out Tem		
Internal Station Temperature	<b>81.7</b>	81.8	82.0	81.9	81.9	81.8	81.9	82.1	82.5	82.6	82.6	82.7	82.8	<b>83.1</b>	83.1	83.1	82.8	82.6	82.1	82.1	82.0	82.0	82.0	81.9	Inte Stat Tem		
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	Pa Me		
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

May 18, 2017

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	0.5	8:00 am	-0.1	Midnite
Nitrogen Dioxide	1 R	4.3	6:00 am	0.0	Midnite
Oxides of Nitrogen	1	4.7	6:00 am	-0.1	Midnite
Ozone	1 R	35	10:00 am	22	4:00 am
Wind Speed	1	16.9	1:00 pm	7.6	6:00 am
Resultant Wind Speed	1	16.5	1:00 pm	7.4	6:00 am
Resultant Wind Direction	1	161	1:00 pm	136	7:00 pm
Maximum Wind Gust	1	28.6	3:00 pm	13.9	6:00 am
Std. Dev. Wind Direction	1	14	11:00 am	11	Midnite
Outdoor Temperature	1	85.1	11:00 am	76.9	3:00 am
Internal Station Temperature	1	83.1	11:00 am	81.7	3:00 am

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



OS 1

Alameda School Rd

1/4 mi north of McHare Rd.

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 9:47am

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	
44	
45	
46	
47	no odor
48	" "
49	" "
50	" "
51	" "
52	
53	
54	
55	
56	
57	
58	
59	
60	

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

**Weighted Average Intensity:**

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

OS #2

Kiley Rd.

between ~~XXXX~~

near Alameda + Alameda School

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 9:56 am

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	
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						

# Alameda Road Nature Reserve

Alameda San Joaquin  
Rd.  
1/2  
mi.  
north  
of  
Kingblay  
Drive

## Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 10:04 am

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	no odor
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	

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

### Weighted Average Intensity:

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

end

Hiram Clarke

OS # 4

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 10:18

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	no odor
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

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

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

Weighted Average Intensity:

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

OS# 5

16600 block Sidewalk

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 10:29 am

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	no odor
30	" "

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

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

**Weighted Average Intensity:**

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

16600 block Ripple Ridge

OS#-6

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 10:38 am

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	no odor
39	" "
40	" "
41	" "
42	" "
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

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

**Weighted Average Intensity:**

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

OS# 7

South Dr. + West Dr.

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 10:45am

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	
44	
45	no odor
46	" "
47	" "
48	" "
49	" "
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

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

**Weighted Average Intensity:**

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

2700 block

Biscayne Bay Drive

OS#8

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 12:20pm

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	no odor
21	" "
22	" "
23	" "
24	" "
25	
26	
27	
28	
29	
30	

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

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

**Weighted Average Intensity:**

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



05#9

Bluebonnet Drive + Field Drive

### Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-19-17 Start Time: 12:34 pm

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	no odor
35	" "
36	" "
37	" "
38	" "
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

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

**Weighted Average Intensity:**

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

# ATTACHMENT 3

**COVER APPLICATION LOG**

Month / Year: **MAY 2017**

**MSW**

Supervisor Signature:

Line #	Daily Cover		Approved Alternate Daily Cover		Elevation MSL	Inspection Date of Daily Cover <sup>4</sup>	Erosion or Leachate Seep Detected <sup>5</sup>	Date Erosion or Leachate Seep Corrected <sup>6</sup>	Corrective Action <sup>6</sup>	Soil Stockpile Required <sup>7</sup> (yd <sup>3</sup> )	Rain (inches) ≥ 0.5" <sup>8</sup>	Rain (inches) ≥ 0.5" <sup>8</sup>	Intermediate Cover 12" Soil			Final Cover Per Final Closure Plan			Inspection Date of Intermediate & Final Cover <sup>9</sup>	Erosion ≥ 4" Detected <sup>10</sup>	Date Erosion Corrected <sup>11</sup>	Corrective Action <sup>12</sup>	Final Cover Certification Report Reference	Supervisor Signature <sup>13</sup>			
	AMT <sup>1</sup>	Grid Area T <sup>2</sup>	Method <sup>2</sup>	AMT <sup>1</sup>									Grid Area T <sup>2</sup>	Method <sup>2</sup>	AMT <sup>1</sup>	Grid Area T <sup>2</sup>	Method <sup>2</sup>	AMT <sup>1</sup>							Grid Area T <sup>2</sup>	Method <sup>2</sup>	
1	600	48-50	6"	B	102-126	✓																					
2	600	49-50	6"	B	80-86	✓																					
3	600	49-50	6"	B	86-92																						
4	600	49-50	6"	B	92-98																						
5	600	49-50	6"	B	98-104																						
6	600	49-50	6"	B	104-107																						
7																											
8	600	49-50	6"	B	107-115																						
9	600	49-50	6"	B	115-120																						
10	600	49-50	6"	B	120-126																						
11	600	49-50	6"	B	82-86																						
12	600	49-50	6"	B	86-94																						
13	500	49-50	6"	B	97-100																						
14																											
15	600	49-50	6"	B	100-116																						
16	600	49-50	6"	B	116-122																						
17	600	49-50	6"	B	40-44																						
18	600	49-50	6"	B	44-48																						
19																											
20																											
21																											
22																											
23																											
24																											
25																											
26																											
27																											
28																											
29																											
30																											
31																											

AMT = Amount of cover (soil) in yd<sup>3</sup> or alternate daily cover in bags or tarp area  
 T = Thickness in inches  
 Methods A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On  
 Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall 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 yd<sup>3</sup> 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	Clearing Beams Phase III North Slope BG, GG, Phase I top deck of Phase I filled & graded low spots
2	Revised South Slope Phase III S-LL. Refined & Graded low spots on Phase I / A-R / 15-18
3	of Phase Slope West Side Phase III
4	Revised North Slope Phase III K-T
5	Revised North Slope Phase III T-AA
6	
7	
8	Graded & Filled low spots Phase I Top Deck
9	Constructed secondary beam outside north side Phase III L-T, raised low spots top deck on Phase I O-R / 18-20
10	Constructed secondary beam Phase III north side L-T, filled / paved low spots top deck on Phase I O-R / 18-20
11	Constructed 2nd beam on Phase III north side L-T, Graded low spots on Phase I top deck O-R / 20-24
12	Revised 2nd beam on Phase III north side L-T
13	Filled & Graded low spots on top deck Phase I O-R / 20-22
14	
15	Filled & Graded low spots on top deck Phase I
16	Filled & Graded low spots on top deck Phase I
17	Filled & Graded low spots on top deck Phase I, started beam Phase III west slope
18	Constructed beam Phase III west slope
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	