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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 1, 2018

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 (Fort Bend), TX 77545-8214
TCEQ MSW Permit No.: 1505A
Investigation No.: 1434634

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on August 2, 3, 4, 7, 8, 9, 10, 11 and 14, 2017 requests for assistance regarding the odor at the above-referenced facility. In response to this request, Mr. Richard Blackney of this office conducted an investigation on August 15, 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.

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

MSW PA_1505A_CO_20170815_Investigation Report
Texas Commission on Environmental Quality
Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

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

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

Investigation # 1434634

Incident Numbers

265054	265056
265048	264848
265027	264851
264972	264974
264864	264878
264856	265036
265008	264877
265065	264628
265043	264849
265050	265004
264865	264867
265067	265029
264879	265040
264976	265055
265051	264508
264973	265064
264845	264875
264512	265042
265061	265045
265053	264858
264862	264871
264979	264861
265005	265062
265068	265034
264841	265063

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 08/15/2017 -- 02/26/2018

NAIC Code: 562212

NAIC Code: 486210

SIC Code: 4922

SIC Code: 4953

SIC Code: 1521

Program(s): MUNICIPAL SOLID WASTE DISPOSAL

Investigation Type: Compliance Investigation

Location: LOCATED ON 2200 FM 521

Additional ID(s): 1505A

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

Local Unit: REGION 12 - HOUSTON

Activity Type(s): MSWCMPL - Investigation of MSW
complaint

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

BLUE RIDGE LANDFILL - FRESNO**8/15/2017 to 2/26/2018 Inv. # - 1434634****Page 2 of 4****Contact(s):**

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 SPECIALIST	MR CHANCE SEELY	Cell (832) 835-8839
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669

Other Staff Member(s):

Role	Name
QA Reviewer	TOM COLLINS
Supervisor	ALMA JEFFERSON

Associated Check List**Checklist Name**

MSW COMPLAINT INVESTIGATION

Unit Name

complaint

Investigation Comments:**INTRODUCTION**

On August 2, 3, 4, 7, 8, 9, 10, 11 and 14, 2017, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 74 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 August 1, 2, 4, 5, 7, 8, 9, 10, 11 and 12, 2017.

On August 15, 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

A Notice of Enforcement was issued to BRL on October 21, 2016 for failure to prevent nuisance odor conditions. On July 12, 2017, Agreed Order Docket No. 2016-1923-AIR-E was signed by the TCEQ.

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, 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.

BLUE RIDGE LANDFILL - FRESNO

8/15/2017 to 2/26/2018 Inv. # - 1434634

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Complainant Information:

See confidential files (TCEQ Incident Nos. 264508, 264512, 264628, 264841, 264845, 264848, 264849, 264851, 264856, 264858, 264861, 264862, 264864, 264865, 264867, 264871, 264875, 264877, 264878, 264879, 264972, 264973, 264974, 264976, 264979, 265004, 265005, 265008, 265027, 265029, 265034, 265036, 265040, 265042, 265043, 265045, 265048, 265050, 265051, 265053, 265054, 265055, 265056, 265061, 265062, 265063, 265064, 265065, 265067, 265068, 265069, 265071, 265072, 265408, 265409, 265411, 265412, 265413, 265414, 265415, 265416, 265417, 265418, 265425, 265426, 265427, 265433, 265436, 265441, 265444, 265448, 265450, 265451 and 265453). Some of the incidents for this complaint are included in Data Maintenance File Review No. 1435007.

Description of Alleged Effects:

Difficulty breathing, nausea, headaches and coughing were described as occurring due to the odors.

Meteorological data at the time of the odor survey:

Resultant Wind direction: South-southwest

Resultant Wind Speed: 7.6 to 10.4 mph

Outdoor Temperature: 87.9 to 93.3 °F

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

Odor Survey (OS):

At 9:28 a.m., the investigator arrived at the first survey point located on Southbelt Industrial Drive east of Alameda Road near Pearland. No odors were detected during the 15 minutes spent at OS Site No. 1, which was downwind of BRL.

Summary of on-site investigation:

Following the first odor survey, the investigator arrived at BRL and met with Mr. Matt Montagna, Landfill Operations Manager, Mr. Burgess Stengl, Environmental Manager, and Mr. Chance Seely, Environmental Specialist to whom the purpose and scope of the investigation were explained. For the site observations, Mr. Montagna and Mr. Seely 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 August 1 through 14, 2017 (Attachment 3). The cover log indicated that soil is applied to the working face as required.

BRL has a system of misters for the purpose of neutralizing odors. The investigator viewed the misting system in operation, as well as another odor control system using vapor rather than mist.

Odor Survey, continued:

At 11:34 a.m., the investigator arrived at the second survey point located near the intersection of Kirby Drive and Shadow Creek Parkway in Pearland. No odors were detected during the 15 minutes spent at OS Site No. 2.

At 11:56 a.m., the investigator arrived at the third survey point located on the 2700 block of Biscayne Bay Drive in Pearland. No odors were detected during the 10 minutes spent at OS Site No. 3.

At 12:15 p.m., the investigator arrived at the fourth survey point located on the 1900 block of Cayman Bend Lane in Pearland. Garbage odors were detected during two of the 15 minutes spent at OS Site No. 4, which was downwind of BRL.

At 12:42 p.m., the investigator arrived at the fifth survey point located at the intersection of Chevery Drive and Summerlyn Drive near Houston. No odors were detected during the 15 minutes spent at OS Site No. 5.

An aerial view map of the OS locations and the OS logs are included in Attachment 2.

Description of Odor:

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

Description of the Effects on the Investigator:

BLUE RIDGE LANDFILL - FRESNO

8/15/2017 to 2/26/2018 Inv. # - 1434634

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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 odors were coming from the direction of 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 August 15 odor survey, landfill odors had also been detected by the investigator on July 21, 2017. Therefore, the frequency of odors documented by the investigator was a monthly occurrence.

CONCLUSION

According to FIDO protocol, a nuisance odor condition was not confirmed during the investigation conducted on August 15, 2017.

No Violations Associated to this Investigation

Signed

Richard Blackrey
Environmental Investigator

Date

3-1-2018

Signed

Alma L. Jefferson
Supervisor

Date

03/01/2018

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

Texas Commission on Environmental Quality Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

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

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1435007

Incident Numbers

265436	265441
265451	265418
265415	265069
265425	265411
265444	265071
265426	265453
265433	265448
265072	265412
265427	265409
265414	265416
265408	265413
265417	265450

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 08/15/2017 -- 02/26/2018

NAIC Code: 562212

NAIC Code: 486210

SIC Code: 4922

SIC Code: 4953

SIC Code: 1521

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
------	-------	------	-------

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. 1434634.

No Violations Associated to this Investigation

Signed

Richard Blackrey
Environmental Investigator

Date

3-1-2018

Signed

Alma L. Jefferson
Supervisor

Date

03/01/2018

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

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 15, 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	August 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	
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	PENDING
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	89429	ACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505	INACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505A	ACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	64950	ACTIVE
PETROLEUM STORAGE TANK STAGE II			
STORMWATER	PERMIT	TXR05N415	CANCELLED
STORMWATER	PERMIT	TXR05S302	ACTIVE
STORMWATER	PERMIT	TXR15NZ96	CANCELLED
STORMWATER	PERMIT	TXR15QJ54	EXPIRED
STORMWATER	PERMIT	TXR15RD60	EXPIRED

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ATTACHMENT 2


**TEXAS COMMISSION
ON ENVIRONMENTAL QUALITY**

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

Manvel Croix Park C84 Daily Summary

Use the controls below to select a different date or time format. Click on the Generate Report button once you have made your selections.

Click on the Plot Data button once the tabular report has been generated to open a separate window containing data plots.

CAMS 84 Manvel Croix Park C84

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 **Tuesday, August 15, 2017**. 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	0.3	0.8	2.4	0.8	7.3	3.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.4	0.2	0.1	Nitric Oxide
Nitrogen Dioxide	2.5	2.1	4.1	5.6	8.2	7.8	8.4	4.4	0.6	0.4	0.5	0.4	0.6	0.5	0.4	0.5	0.8	0.8	1.2	2.6	4.0	5.6	5.1	2.3	Nitrogen Dioxide
Oxides of Nitrogen	2.5	2.1	4.3	6.4	10.6	8.6	15.5	7.4	0.7	0.5	0.5	0.4	0.6	0.5	0.5	0.6	0.8	0.8	1.3	2.5	4.0	6.0	5.2	2.3	Oxides of Nitrogen
Ozone	8	7	3	3	1	1	2	8	14	16	16	17	17	19	20	19	20	18	16	12	8	5	5	7	Ozone
Wind Speed	4.4	3.5	2.3	3.3	2.4	2.7	2.2	4.7	6.5	8.2	6.7	9.2	10.4	10.9	10.6	10.6	13.3	10.8	8.7	6.7	4.6	2.9	3.4	3.6	Wind Speed
Resultant Wind Speed	4.3	3.4	2.3	3.2	2.3	2.5	2.2	4.4	6.0	7.6	6.1	8.6	9.8	10.4	10.1	10.0	12.8	10.5	8.5	6.6	4.5	2.9	3.3	3.5	Resultant Wind Speed
Resultant Wind Direction	160	156	138	149	162	194	169	198	216	209	220	193	188	190	196	189	168	178	170	160	154	151	158	170	Resultant Wind Direction
Maximum Wind Gust	6.9	6.9	5.0	5.4	3.7	5.5	4.6	10.6	14.5	16.9	13.4	19.1	19.1	20.1	23.7	18.9	22.3	20.6	18.2	12.3	8.1	5.1	5.4	6.5	Maximum Wind Gust
Std. Dev. Wind Direction	10	11	8	12	16	18	14	20	22	22	23	21	19	17	18	18	15	13	12	11	10	13	9	12	Std. Dev. Wind Direction
Outdoor Temperature	79.1	78.5	77.6	77.8	77.6	78.1	79.3	83.5	85.6	87.9	90.1	91.7	92.5	93.3	93.9	93.6	91.1	89.0	87.6	84.8	82.7	81.3	80.4	80.0	Outdoor Temperature
Internal Station Temperature	82.0	82.0	81.9	81.6	81.9	81.9	82.0	82.5	83.1	83.1	83.4	83.4	89.0	86.4	84.0	83.9	83.5	83.4	83.2	82.7	82.2	82.1	81.9	82.0	Internal Station Temperature
Parameter Measured	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Parameter Measured
Morning												Afternoon													
X,XX												Indicates the internal temperature is above the recommended upper limit.													
a												- This site uses a recommended upper limit of 87 degrees Fahrenheit for this monitor.													
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

August 14, 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	2.8	6:00 am	-0.1	7:00 pm
Nitrogen Dioxide	1 R	6.6	6:00 am	0.4	10:00 am
Oxides of Nitrogen	1	9.3	6:00 am	0.5	10:00 am
Ozone	1 R	22	2:00 pm	1	2:00 am
Wind Speed	1	11.5	4:00 pm	1.2	1:00 am
Resultant Wind Speed	1	11.1	4:00 pm	0.9	1:00 am
Resultant Wind Direction	1	205	10:00 am	136	9:00 pm
Maximum Wind Gust	1	19.7	5:00 pm	2.8	1:00 am
Std. Dev. Wind Direction	1	43	1:00 am	9	8:00 pm
Outdoor Temperature	1	93.3	1:00 pm	77.7	3:00 am
Internal Station Temperature	1	83.5	1:00 pm	81.6	3:00 am
R - Data from this instrument meets EPA quality assurance criteria for regulatory purposes.					



Blue Ridge Landfill, Permit No. 1505 A

081

Supplemental Investigator's Odor Intensity Time Log

Investigator: R. Blackney
Date of Investigation: 8-15-2017Location: Southbelt Industrial east of Alameda
Start Time: 9:28am

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	no odors
29	" "
30	" "

Minutes	Odor Intensity VL, L, M, S, VS
31 min	no odors
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	

Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

052

Supplemental Investigator's Odor Intensity Time Log

Investigator: Richard BlackneyLocation: north of Kirby + 2234Date of Investigation: 8-15-2010Start Time: 11:34am

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	

Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Richard Blackney

053

2700 block of Biscayne

Bay Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 8-15-2017 Start Time: 11:56 am

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

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

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

054

Supplemental Investigator's Odor Intensity Time Log

Investigator: R. BlackneyLocation: 1900 block of Cayman Bend St.Date of Investigation: 8-15-2017Start Time: 12:15 pm

Ln.

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	VL garbage odor
16	no odor
17	" "
18	" "
19	" "
20	" "
21	VL garbage odor
22	no odor
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	

Odor Description: garbageOffensiveness: Highly _____ Offensive X Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

downwind of Blue Ridge Landfill

055

Supplemental Investigator's Odor Intensity Time Log

Investigator: R. Blackney Location: Cherry Dr & Summerlyn Dr.
 Date of Investigation: 8-15-2007 Start Time: 12:42

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

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

Odor Description: _____

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

BIO-RIDGE LANDFILL, MSW-19004																	Month / Year: MAR 2011			
Daily Cover		Approved Alternate Daily Cover					Elevation		Inspection Date of Daily Cover ¹		Erosion of Leachate Seep Detected ²		Date of Erosion Corrected ³		Corrective Action ⁴		Final Cover Certification Report Reference		Supervisor Signature ⁵	
Grid Area	T ²	Method ¹	Grid Area	T ²	Method ¹	MSL	MSL	Unexpected	Yes	Corrected	Yes	Corrected	Yes	Corrected	Yes	Corrected	Yes	Corrected	Yes	Corrected
1	600	44-45	6"	B	—	—	64-67	✓												
2	600	44-45	6"	B	—	—	67-71	✓												
3	600	44-45	6"	B	—	—	71-74	✓												
4	600	44-45	6"	B	—	—	74-78	✓												
5	500	44-45	6"	B	—	—	78-80	✓												
6	600	44-45	6"	B	—	—	80-85	✓												
7	600	44-45	6"	B	—	—	85-89	✓												
8	600	44-45	6"	B	—	—	89-93	✓												
9	700	44-45	6"	B	—	—	93-96	✓												
10	700	44-45	6"	B	—	—	96-98	✓												
11	700	44-45	6"	B	—	—	98-100	✓												
12	600	44-45	6"	B	—	—	100-102	✓												
13	600	44-45	6"	B	—	—	102-104	✓												
14	700	44-45	6"	B	—	—	104-106	✓												
15	600	44-45	6"	B	—	—	106-108	✓												
16	600	44-45	6"	B	—	—	108-110	✓												
17	600	44-45	6"	B	—	—	110-112	✓												
18	600	44-45	6"	B	—	—	112-114	✓												
19	600	44-45	6"	B	—	—	114-116	✓												
20	600	44-45	6"	B	—	—	116-118	✓												
21	600	44-45	6"	B	—	—	118-120	✓												
22	600	44-45	6"	B	—	—	120-122	✓												
23	600	44-45	6"	B	—	—	122-124	✓												
24	600	44-45	6"	B	—	—	124-126	✓												
25	600	44-45	6"	B	—	—	126-128	✓												
26	600	44-45	6"	B	—	—	128-130	✓												
27	600	44-45	6"	B	—	—	130-132	✓												
28	600	44-45	6"	B	—	—	132-134	✓												
29	600	44-45	6"	B	—	—	134-136	✓												
30	600	44-45	6"	B	—	—	136-138	✓												
31	600	44-45	6"	B	—	—	138-140	✓												

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

MSW Month / Year: August 2017