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Date:	7/14/2017
Title:	Investigation
Tertiary ID	1434800

AIR CP_102610102_CP_20170714_INVESTIGATION_1434800_
Texas Commission on Environmental Quality
Investigation Report

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

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

Investigation # 1434800

Investigator: SETH TATE

Conducted: 07/14/2017 -- 07/14/2017

Program(s): AIR OPERATING PERMITS

Investigation Type: Site Assessment

Additional ID(s): FG0536E
1472

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

Incident Numbers

Site Classification MAJOR SOURCE

SIC Code: 1521

SIC Code: 4953

NAIC Code: 562212

Location: LOCATED ON 2200 FM 521

Local Unit: REGION 12 - HOUSTON

Activity Type(s): FLAIRODOR - AIR FLAIRODOR - FOC
INV ODOR SURVEY

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL SPECIALIST	MR CHANCE SEELY	Cell (832) 835-8839
REGULATED ENTITY MAIL CONTACT	OPERATIONS MANAGER	MATT MONTAGNA	Office (281) 668-9739

Other Staff Member(s):

Role	Name
Investigator	WILLIAM JORN
Supervisor	AMY MESSICK
QA Reviewer	AMY MESSICK

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
AIR GENERIC INVESTIGATION (10 ITEMS)	Zipcode 77584
AIR FOCUSED INVESTIGATION - GENERAL MONITORING	Zipcode 77584
AIR INVESTIGATION - EQUIPMENT MONITORING AND SAMPLING revised 06/2013	Zipcode 77584

Investigation Comments:

INTRODUCTION/ INVESTIGATION SUMMARY

Introduction

On July 14, 2017, investigators Mr. Seth Tate & Mr. William Austin Jorn of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted a focused odor survey investigation (Investigation Typecode FI AIR ODOR) in the city of Pearland, and in Fort Bend, Brazoria, and Harris counties in the west Pearland area. The purpose of this investigation was to conduct odor surveys to determine if odors were present in the area and identify potential sources.

Investigation Narrative

The investigation took place on July 14, 2017. The surrounding land use is a mix of residential, industrial, and commercial areas. The terrain is flat with sporadic forest. Meteorological conditions were as follows: Cloud Cover: Scattered Clouds; Temperature: 75.8° Fahrenheit; 91% Humidity; Wind Direction: N/A; Wind Speed: 0 miles per hour; Source of Meteorological Conditions: Kestrel Weather Meter Model 4500.

The investigators arrived at the sewer lift station off Biscayne Bay Drive at approximately 06:35 A.M. and surveyed the southeast corner of the lift station (See Attachment 1 – Map). The investigators conducted a 15 minute odor survey (See Attachment 2 – Log 1). The investigators detected no odors. The investigators left at approximately 06:55 A.M.

The investigators arrived at Mountain Sage Drive at approximately 07:02 A.M. and surveyed the eastern side of the Blue Ridge Landfill (See Attachment 1). Meteorological conditions were as follows: Cloud Cover: Scattered Clouds; Temperature: 77.9° Fahrenheit; 89.5% Humidity; Wind Direction: N/A; Wind Speed: 0 miles per hour; Source of Meteorological Conditions: Kestrel Weather Meter Model 4500. The investigators detected a landfill/garbage odor. The investigators conducted a 30 minute odor survey (See Attachment 1 – Log 2). The investigators left the area at approximately 07:45 A.M.

The investigators arrived at Shadow Creek Parkway at approximately 07:57 A.M. and surveyed the eastern side of the Akzo Nobel Surface Chemistry (See Attachment 1). Meteorological conditions were as follows: Cloud Cover: N/A; Temperature: 83.4° Fahrenheit; 80.2% Humidity; Wind Direction: East Northeast; Wind Speed: 1 mile per hour; Source of Meteorological Conditions: Kestrel Weather Meter Model 4500. The investigators conducted a 15 minute odor survey (See Attachment 1 – Log 3). The investigators detected no odors. The investigators left at approximately 08:16 A.M.

The investigators arrived at West Riley Road at 9:17 am and surveyed the eastern side of the Lone Star Disposal and Recycling facility (See Attachment 1). Meteorological conditions were as follows: Cloud Cover: N/A; Temperature: 85.0° Fahrenheit; 75.3% Humidity; Wind Direction: East Northeast; Wind Speed: 1.2 miles per hour; Source of Meteorological Conditions: Kestrel Weather Meter Model 4500. The investigators conducted a 15 minute odor survey (See Attachment 2 – Log 4). The investigators detected no odors. The investigators left at approximately 08:41 A.M.

The investigators arrived at Reflection Bay Wastewater Treatment Plant at approximately 08:50 A.M. (See Attachment 1). Meteorological conditions were as follows: Cloud Cover: N/A; Temperature: 88.6° Fahrenheit; 68.9% Humidity; Wind Direction: East; Wind Speed: 2.3 miles per hour; Precipitation: 0.0 inches; Source of Meteorological Conditions: Kestrel Weather Meter Model 4500. The investigators conducted a 15 minute odor survey (See Attachment 2 – Log 5). No odors were detected. The investigators left the site at 11:25 am.

BLUE RIDGE LANDFILL - FRESNO

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The investigators arrived at Kirby Drive at 11:35 am and surveyed the eastern side of Syntech Chemicals (See Attachment 1). Meteorological conditions were as follows: Cloud Cover: N/A; Temperature: 90.5° Fahrenheit; 66.4% Humidity; Wind Direction: East Southeast; Wind Speed: 2.2 miles per hour; Source of Meteorological Conditions: Kestrel Weather Meter Model 4500. The investigators detected a fishy amine odor, however, it was only detected when close to the fence line of the facility. When the investigators were equidistant from the facility as the nearest off-property receptor, the odor was not detectable. The investigators conducted a 15 minute odor survey (See attachment 2 – Log 6). The investigators left the area at approximately 09:45 A.M.

The investigators utilized a Multi-RAE gas monitor, Jerome, and TVA during the investigation. The Multi-RAE did not indicate that there were high levels of VOC or H₂S. The Jerome indicated an H₂S level of 0.01 ppm. The TVA indicated VOC level of 0.012 ppm.

Two odors were detected during the odor surveys: the landfill garbage odor and the fishy amine odor. According to the TCEQ Frequency, Intensity, Duration, and Offensiveness (FIDO) chart, the landfill gas odor is characterized as offensive. During the investigation, the strongest landfill garbage odor was moderate for three minutes. The landfill garbage odor was fluctuating for the majority of the odor survey due to shifts in wind direction. According to the TCEQ FIDO chart, the fishy amine odor is characterized as offensive. During the investigation, the strongest fishy amine odor was strong for two minutes.

Investigators arrived at the Blue Ridge Landfill Facility at approximately 10:10 A.M. The facility representatives present during the investigation were Mr. Burgess Stengl, Environmental Manager & Mr. Chance Seely, Environmental Specialist. The investigators explained the purpose, scope, and procedures of the investigation. Investigators asked for copies of the most recent cover logs. The investigators, accompanied by Mr. Stengl and Mr. Seely, then began a tour of the landfill operations.

The driving tour of the landfill began at the Phase 1 area. Investigators observed heavy equipment conducting dirt work to fill in the low lying spots of the Phase 1 area. A new air odorizing system was also being installed along the perimeter of the Phase 1 area. Compromise of the Phase 1 cover integrity was not observed by investigators during the driving tour.

Next the investigators toured the Phase 3 area. The working face of the landfill was active during the tour. The investigators observed garbage being dumped into the working area and covered with dirt. Driving around the perimeter of Phase 3, investigators observed heavy equipment forming intermittent berms on the side walls of the Phase 3 area to reduce runoff erosion. Compromise of the Phase 3 cover integrity was not observed by investigators during the driving tour.

Finally the tour ended with viewing the two flares (ground and candlestick), leachate tanks, and leachate collection system. Mr. Tate employed the Optical Gas Imaging Camera camera to locate fugitive emissions from equipment. No excessive emissions were observed.

The investigators departed the facility at approximately 11:35 A.M.

Exit Interview

As no violations were alleged an exit interview was not conducted.

GENERAL FACILITY AND PROCESS INFORMATION

Process Description

Blue Ridge Landfill is a municipal solid waste landfill with a landfill gas collection and control system.

BACKGROUND

Agreed Orders Court Orders, and Other Compliance Agreements

Based on review of CCEDS and the regional office files, there were no agreed orders, court orders, or other compliance agreements for the site.

BLUE RIDGE LANDFILL - FRESNO

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Prior Enforcement Issues

Based on a review of CCEDS and the regional office files, violations were issued by the TCEQ to the alleged source during the past five years. There are no repeat violations.

Complaints

Based on a review of CCEDS and regional office files, there have been hundreds of odor complaints received from within the survey area and numerous investigations related to odors. At the time of the review, multiple related investigations were being conducted by the Region 12 Office.

ADDITIONAL INFORMATION

Conclusions, Recommendations, and Current Enforcement Actions

Two distinct odors were detected throughout the investigation. The Frequency, Intensity, Duration and Offensiveness (FIDO) chart categorizes the landfill garbage odor as offensive and the fishy amine odor as offensive. In order to constitute a nuisance, a highly offensive odor has to last one hour with a very strong intensity as a single occurrence. An offensive odor has to last more than four hours on single occurrence to constitute a nuisance. The investigators documented an offensive odor present for 4 minutes.

Additional Issues

No additional issues were noted during this investigation.

REPORT ATTACHMENTS

1. Odor Survey Location Maps
2. Investigators' Odor Logs

No Violations Associated to this Investigation

Signed



Environmental Investigator

Date

11/17/17

Signed



Supervisor

Date

11/28/17

BLUE RIDGE LANDFILL - FRESNO

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Attachments: (in order of final report submittal)

☐ Enforcement Action Request (EAR)

☐ Maps, Plans, Sketches

☐ Letter to Facility (specify type) : _____

☐ Photographs

☐ Investigation Report

☐ Correspondence from the facility

☐ Sample Analysis Results

☒ Other (specify) :

☐ Manifests

See Report Attachments

☐ Notice of Registration

- Attachment 1, Odor Survey Locations
 - RN104-046-545
 - Zipcode 77584
 - July 14, 2017



Google earth

miles 2
km 3



Investigation Type: FI-000N
 Air Account NO: RN104-046-545
 Attachment: 1
 Page 1 of 1

- Attachment 2, Investigator Odor Logs
 - RN104-046-545
 - Zipcode 77584
 - July 14, 2017

Supplemental Investigator's Odor Intensity Time Log

Investigator: W. Austin Jern

Location: L1 BBS Lift station

Date of Investigation: 7/14/17

Start Time: 6:40

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	VL
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Investigation Type: FE-01291
 Air Account NO: R1104-046-545
 Attachment: 2
 Page 1 of 24

Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Blank

Investigation Type: FF-0100N
Air Account NO: KN-104-046-545
Attachment: 2
Page 2 of 24

Supplemental Investigator's Odor Intensity Time Log

Investigator: SETH TAIG
Date of Investigation: 7/14/17

Location: LI BLS
Start Time: 0640

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Investigation Type: FI - Odor
Air Account NO: RN104-046-545
Attachment: 2
Page 3 of 24

Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

MAANK

Investigation Type: FI ODOR
Air Account NO: RM104-046-549
Attachment: 2
Page 4 of 24

Supplemental Investigator's Odor Intensity Time Log

Investigator: W. Austin Jern

Location: L2 MSDR

Date of Investigation: 7/14/17

Start Time: 7:10

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

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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49	Investigation Type: <u>FI ODOR</u>
50	Air Account NO: <u>11104-246-548</u>
51	Attachment: <u>2</u>
52	Page <u>5</u> of <u>24</u>
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Odor Description: Landfill Garbage / waste

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

MAVR

Investigation Type: FI ODOR
Air Account NO: RN109-
Attachment: 2
Page 6 of 24

Supplemental Investigator's Odor Intensity Time Log

Investigator: SETH TATE
Date of Investigation: 07/14/17

Location: L2 MSDR
Start Time: 0710

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

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Investigation Type: FE-ODOR
Air Account NO: RN104-016-545
Attachment: 2
Page 7 of 29

Odor Description: Reverse / Carbage

Offensiveness: Highly _____ Offensive ✓ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

MAANK

Investigation Type: FI-ODOR

Air Account NO: RN104-

Attachment: 2

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Supplemental Investigator's Odor Intensity Time Log

Investigator: W. Austin

Location: L3 Akzo Nobel

Date of Investigation: 7/14/17

Start Time: 8:00

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Investigation Type: FE-000R
 Air Account NO: R104-046-595
 Attachment: 2
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Odor Description: NA

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

WANK

Investigation Type: FI ODOR
Air Account NO: RN104-
Attachment: 2
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Supplemental Investigator's Odor Intensity Time Log

Investigator: SETH TATE Location: L3 AK20
 Date of Investigation: 07/14/2017 Start Time: 0800

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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51	Investigation Type: <u>FD-ODOR</u>
52	Air Account NO: <u>RW104-046-545</u>
53	Attachment: <u>21</u>
54	Page <u>11</u> of <u>24</u>
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Odor Description: N/A

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

WANK

Investigation Type: FI 010012
Air Account NO: RN 104-
Attachment: 2
Page 12 of 24

Supplemental Investigator's Odor Intensity Time Log

Investigator: W. Austin Jern

Location: L4 Rikky Road

Date of Investigation: 7/14/17

Start Time: 8:25

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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51	Investigation Type: <u>FE-0100R</u>
52	Air Account NO: <u>W104-046-545</u>
53	Attachment: <u>2</u>
54	Page <u>13</u> of <u>24</u>
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Odor Description: NA

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

BLANK

Investigation Type: F-I-ODOR

Air Account NO: RN104 -

Attachment: 2

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Supplemental Investigator's Odor Intensity Time Log

Investigator: SETH TATE
Date of Investigation: 07/14/17

Location: LY For LSLR
Start Time: 0826

Minutes	Odor Intensity VL, L, M, S, VS
1 min	N/D
2	N/D
3	N/D
4	N/D
5	N/D
6	N/D
7	N/D
8	N/D
9	N/D
10	N/D
11	N/D
12	N/D
13	N/D
14	N/D
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Investigation Type: FI-ODOR
Air Account NO: KN104-046-545
Attachment: 2
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Odor Description: N/A

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Blank

Investigation Type: FI-000N
Air Account NO: RN109-
Attachment: 2
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Supplemental Investigator's Odor Intensity Time Log

Investigator: W. Austin Jern

Location: L5 RBWNTF

Date of Investigation: 7/14/17

Start Time: 8:55

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Investigation Type: PF-200N
 Air Account NO: RN 109-046-545
 Attachment: J
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Odor Description: NA

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Blank

Investigation Type: F-I ODR
Air Account NO: RN104-
Attachment: 2
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Supplemental Investigator's Odor Intensity Time Log

Investigator: SETH TATE

Location: LS NB W21P

Date of Investigation: 07/14/17

Start Time: 0858

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Investigation Type: FD-8100R
 Air Account NO: RN 104-246-545
 Attachment: 2
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Odor Description: NI

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

BLANK

Investigation Type: FI-OPOR
Air Account NO: RNP4-
Attachment: 2
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Supplemental Investigator's Odor Intensity Time Log

Investigator: W. Austin Jern

Location: 6 Syntech

Date of Investigation: 7/14/10

Start Time: 9:25

Minutes	Odor Intensity VL, L, M, S, VS
1 min	L
2	ND
3	VL
4	S
5	S
6	ND
7	M
8	M
9	ND
10	L
11	ND
12	VL
13	ND
14	ND
15	VL
16	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Investigation Type: FI-ODOR
 Air Account NO: KN 104-046-545
 Attachment: 2
 Page 21 of 29

Odor Description: Sweet odor / fishy amine odor

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Mr. Anik

Investigation Type: FIOR
Air Account NO: RNP4
Attachment: 2
Page 22 of 24

Supplemental Investigator's Odor Intensity Time Log

Investigator: SETH TATE

Location: LG Syn

Date of Investigation: 07/14/17

Start Time: 0925

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

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
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Investigation Type: FI odor
 Air Account NO: R2104-046-545
 Attachment: 2
 Page 23 of 24

Odor Description: Fishy & Sweet odors amine like

Offensiveness: Highly Offensive ✓ Unpleasant Not Unpleasant

Weighted Average Intensity:

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

Blank

Investigation Type: FI-ODOR
Air Account NO: RA104-096-545
Attachment: 2
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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 28, 2017

Mr. Matthew Montagna, Operations Manager
Blue Ridge Landfill TX, LP
2200 FM 521 Road
Fresno, Texas 77545

Re: Site Assessment at:
Blue Ridge Landfill, 2200 FM 521 Road, Fresno (Fort Bend County), Texas
Regulated Entity No.: 102-610-102, TCEQ ID No.: FG-0536-E
Investigation No.: 1434800

Dear Mr. Montagna

On July 14, 2017, Mr. Seth Tate of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for air quality. No violations are being alleged as a result of the investigation.

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 these matters, please feel free to contact Mr. Seth Tate in the Houston Region Office at (713) 767-3619.

Sincerely,

A handwritten signature in black ink, appearing to read "Amy Messick".

Amy Messick, Air Section Team Leader
Houston Region Office

ASM/SWT/swf

cc: Mr. Burgess Stengl, Environmental Manager, Blue Ridge Landfill TX, LP, 2200 FM 521 Road, Fresno, Texas 77545