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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 6, 2019

Mr. Scott Trebus
Area 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 County), Texas
Regulated Entity No.: 102610102
TCEQ MSW Permit No.: 1505A
Investigation No.: 1538669

Dear Mr. Trebus:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on January 07 - 11, 14, and 18, 2019, requests for assistance regarding the odor at the above-referenced facility. In response to this request, Ms. Reyna L. Loosmore of this office conducted an investigation on January 05 -17, 2019. 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 Ms. Loosmore at this office (713) 767-3706.

Sincerely,

A handwritten signature in cursive script that reads "Alma L. Jefferson".

Alma L. Jefferson, Manger
Waste Section
Houston Region Office

ALJ/RLL/ug

MSW PA_1505A_CO_20190105_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 # 1538669

Incident Numbers

300665	300334
300325	300963
300313	300658
300331	300669
300320	300657
300327	300329
300321	300316
300964	300333
300318	300311
300323	300330

Investigator: REYNA LOOSMORE

Site Classification TYPE 1

Conducted: 01/05/2019 -- 01/17/2019

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): MSWC MPL - Investigation of MSW
complaint

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
PARTICIPATED IN	ENVIRONMENTAL SPECIALIST	MR CHANCE SEELY	Phone (281) 835-6142
PARTICIPATED IN	DIVISION MANAGER	MR MARK MEADOWS	Phone (281) 668-9739
REGULATED ENTITY CONTACT	AREA ENVIRONMENTAL MANAGER	MR SCOTT TREBUS	Phone (713) 726-7506 Fax (713) 675-3660

BLUE RIDGE LANDFILL - FRESNO

1/5/2019 to 1/17/2019 Inv. # - 1538669

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Other Staff Member(s):

Role	Name
Investigator	ANAILELY SALINAS
QA Reviewer	BETHANY BATCHELOR
Investigator	EDWARD LICHTENBERGER
Supervisor	ALMA JEFFERSON
Investigator	TINA TRAN

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	1505A Complaint

Investigation Comments:

INTRODUCTION

On January 7, 8, 9, 10, 11, 14 and 18, 2019, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 20 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 January 4, 8, 9, 10, 12, 13 and 17, 2019.

On January 5 and 6, 2019, Ms. Anallely Salinas and Ms. Tina Tran, Emergency Response Coordinators of the TCEQ Houston Region Office, conducted odor surveys in the area surrounding BRL. On January 17, 2019, Ms. Reyna L. Loosmore and Mr. Edward Lichtenberger, Environmental Investigators of the TCEQ Houston Region Office Waste Section, conducted an unannounced on-site Odor Complaint Investigation at BRL.

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. By letter dated April 10, 2018, the TCEQ Enforcement Division approved BRL Odor Control Plan, thus requiring BRL to implement all provisions of the plan in accordance with the approved schedule.

GENERAL FACILITY AND PROCESS INFORMATION

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 a.m. to 5:00 p.m., and Saturdays from 5:30 a.m. to 12:00 p.m. The surrounding land use includes industrial facilities and residential subdivisions.

Complainant Information:

TCEQ Incident Nos. 300311, 300313, 300316, 300318, 300320, 300321, 300323, 300325, 300327, 300329, 300330, 300331, 300333, 300334, 300657, 300658, 300665, 300669, 300963 and 300964.

Description of Alleged Effects:

Headache, nausea, cough, irritation of the eyes and nose, difficulty breathing and sleeplessness were described as occurring because of the odors.

TCEQ Emergency Response Odor Surveys

BLUE RIDGE LANDFILL - FRESNO

1/5/2019 to 1/17/2019 Inv. # - 1538669

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Meteorological data at the time of the odor survey:

Date: January 5 through 6, 2019

Wind Direction: southeast (SE) to south-southeast (SSE) to east-southeast (ESE)

Wind Speed: Wind Speed: average 2.5 mph

Outdoor Temperature: 50.8 – 52.0 °F

Meteorological data taken from TCEQ's continuous air monitoring station Manvel Croix Park C84 weather station (Attachment 1).

Odor Survey (OS):

The investigators conducted OS No. 1 at 11:15 p.m., upwind of BRL near the intersection of Bailey Springs Lane and Havenwood Chase Lane. Brush/charcoal burning odors were intermittently detected during 13 of the 60 minutes spent at OS No. 1, averaging to a very light intensity.

OS No. 2, located at the intersection of Shallow Falls Lane and Golden Creek Lane in Pearland and upwind of BRL, was conducted at 12:30 a.m. Garbage and sewer odors were intermittently detected during 18 of the 60 minutes spent at OS No. 2, averaging to a very light intensity.

OS No. 3, located near the intersection of Rocky Isle Drive and Longlake Drive in Pearland and upwind of BRL, was conducted at 1:45 a.m. Brush burning odors were intermittently detected during six (6) of the 60 minutes spent at OS No. 3, averaging to a very light intensity.

OS No. 4, located near the intersection of Trinity Bay Drive and Swift Creek Drive in Pearland and crosswind of BRL, was conducted at 2:52 a.m. No odors were detected during the 60 minutes spent at OS No. 4.

OS No. 5, located near the intersection of McHard Road and Amy Ridge Street in Houston and downwind of BRL, was conducted at 4:49 a.m. No odors were detected during the 60 minutes spent at OS No. 5.

An aerial view map of the OS location and the OS log are included in Attachment 1.

Summary of the on-site investigation:

On January 17, 2019, Ms. Loosmore and Mr. Lichtenberger arrived at BRL and met with Mr. Mark Meadows, Division Manager, and Mr. Chance Seely, Environmental Specialist, to whom the purpose and scope of the investigation were explained.

The facility representatives drove the investigators to the MSW and Class 1 working faces, by which piles of soil were observed. The investigators obtained a copy of the MSW and Class 1 cover logs from January 1 to 16, 2019 (Attachment 3). The cover logs indicate that six (6) inches of soil was applied at the end of each operating day to the Class 1 and MSW working faces as required.

Description of Odor:

Garbage, sewer and brush/charcoal burning odors were detected during the odor survey.

Description of the Effects on the Investigator:

No health effects were experienced by the investigators.

Description of the Terrain Features of the Area:

Terrain is flat with residences and businesses.

BLUE RIDGE LANDFILL - FRESNO

1/5/2019 to 1/17/2019 Inv. # - 1538669

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Location of the Source of the Odor:

While off-site, the investigators detected no odors from the direction of BRL. Garbage and sewer odors were detected near the wastewater treatment lift station.

Odor Frequency, Intensity, Duration and Offensiveness (FIDO) Chart Evaluation:

According to the FIDO protocol, the odor of landfill garbage is characterized as "offensive", the sewer odor is characterized as "highly offensive" and the brush/charcoal burning odor is characterized as "unpleasant". Landfill garbage odors were previously detected coming from the direction of BRL on November 24, December 2, 10 and 16, 2018. Therefore, the frequency of odors documented by the investigator is a monthly occurrence.

CONCLUSION

According to FIDO protocol, nuisance odor conditions were not confirmed during the investigation conducted on January 5, 6 and 17, 2019. The complaints are closed.

No Violations Associated to this Investigation

Signed 
Environmental Investigator

Date 02/06/2019

Signed 
Supervisor

Date 02/06/2019

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

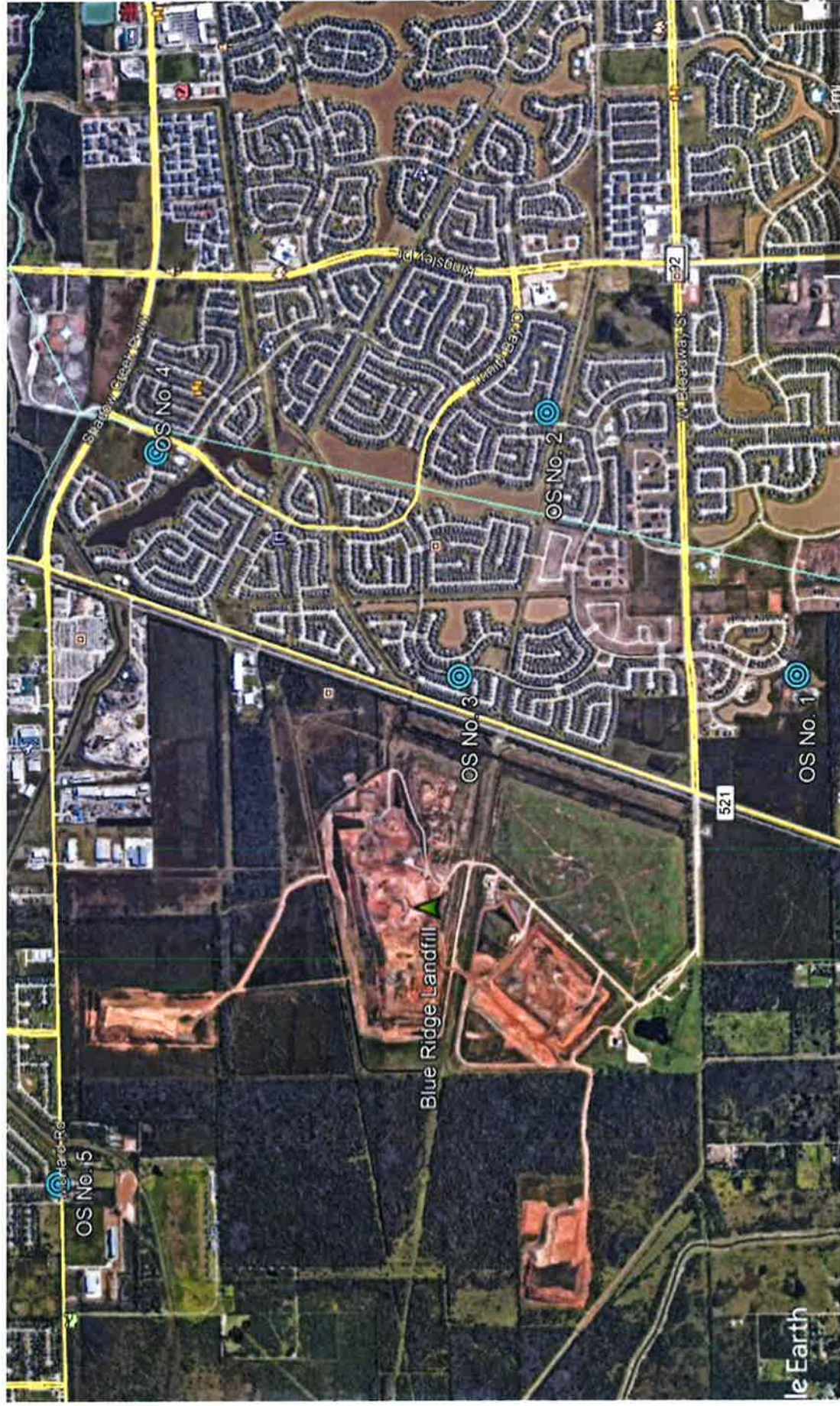
**Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on January 5-6 and 17, 2019**

List of Attachments

Attachment 1: Meteorological Information, Map of Odor Survey locations and Odor Logs

Attachment 2: January 2019 Cover Logs

ATTACHMENT 1



TCEQ Emergency Response Section

January 5 through 6, 2019 Odor Surveys

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.

Find Site: CAMS AQS Description
 CAMS 84 Manvel Croix Park C84 **Select a different site**

Month: **Day: Year: Time Format:**
 January 5 2019 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 **Saturday, January 5, 2019**. All times shown are in CST.

Parameter Measured	Morning												Afternoon												
	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	
<u>Nitric Oxide</u>	5.8	9.6	4.9	3.7	13.3	6.7	4.8	58.0	26.8	4.0	1.8	0.8	0.1	-0.1	-0.2	-0.1	-0.1	-0.2	-0.3	-0.3	-0.3	-0.4	-0.2	-0.2	-0.2
<u>Nitrogen Dioxide</u>	16.2	16.8	15.8	12.5	12.8	8.7	9.8	13.9	15.0	11.5	9.0	6.4	4.5	3.2	3.6	3.4	4.6	8.0	11.2	8.6	8.6	8.0	9.8	9.8	9.8
<u>Oxides of Nitrogen</u>	22.2	26.7	21.0	16.4	26.3	15.6	14.8	72.5	42.2	15.7	10.9	7.4	4.6	3.1	3.4	3.3	4.6	7.9	11.1	8.4	8.3	7.9	9.8	9.8	9.8
<u>Ozone</u>	0	0	0	0	0	0	0	0	4	19	30	38	47	52	58	53	39	29	28	25	23	23	23	23	23
<u>Wind Speed</u>	1.7	1.2	1.3	1.1	1.2	0.7	1.3	1.7	1.6	2.7	3.5	5.8	6.1	5.7	4.6	3.8	6.0	7.0	5.3	4.3	3.8	2.8	2.8	2.8	2.8
<u>Resultant Wind Speed</u>	1.3	1.2	1.2	0.9	0.9	0.4	1.2	1.6	1.4	2.5	3.3	5.2	5.6	5.3	4.2	3.3	5.6	7.0	5.2	4.3	3.7	2.8	2.8	2.8	2.8

Resultant Wind Direction	164	189	178	196	153	294	189	121	149	194	185	199	210	200	195	191	157	152	150	152	165	174	151	158
Maximum Wind Gust	3.0	2.4	2.3	1.9	1.8	1.4	3.0	2.8	2.7	5.5	6.6	11.0	11.7	12.1	11.8	7.6	12.9	11.6	8.2	6.8	6.1	4.1	3.5	
Std. Dev. Wind Direction	39	14	22	33	40	54	15	22	29	19	21	24	23	21	24	31	19	9	11	10	11	8	21	
Outdoor Temperature	46.5	46.0	45.1	44.6	43.6	43.1	42.6	42.7	47.1	54.3	59.9	63.5	66.1	68.2	69.8	70.5	69.0	62.3	57.6	54.7	53.2	52.0	50.5	
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	
	Morning												Afternoon											

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, 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.

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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.

Find Site: CAMS | AQS | Description
 CAMS 84 Manvel Croix Park C84 ▼ Select a different site

Month: Day: Year: Time Format:
 January ▼ 6 ▼ 2019 ▼ 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 **Sunday, January 6, 2019**. All times shown are in CST.

Parameter Measured	Morning												Afternoon										
	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
Nitric Oxide	-0.2	SPN	SPN	SPN	SPN	0.7	8.9	4.2	0.5	-0.1	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.5	-0.3	-0.3
Nitrogen Dioxide	8.6	SPN	SPN	SPN	SPN	15.5	17.2	10.6	4.3	2.1	1.7	1.5	1.5	1.7	1.7	2.2	4.0	3.8	4.4	5.3	5.9	5.2	5.2
Oxides of Nitrogen	8.5	SPN	SPN	SPN	SPN	16.4	26.3	14.9	4.8	1.9	1.4	1.2	1.2	1.3	1.3	1.9	3.7	3.5	4.0	4.8	5.8	4.5	4.5
Ozone	20	22	22	23	22	18	1	15	29	36	41	42	41	40	39	38	33	29	27	24	21	20	20
Wind Speed	2.4	2.8	2.7	2.3	2.6	2.1	1.2	3.2	7.7	10.7	13.3	12.4	11.9	12.4	11.9	10.0	7.9	7.2	7.3	4.9	3.5	3.8	3.8
Resultant Wind Speed	2.4	2.8	2.7	2.3	2.5	2.1	1.1	3.1	7.5	10.4	13.0	12.1	11.6	12.0	11.6	9.8	7.8	7.1	7.2	4.9	3.5	3.5	3.7

Resultant Wind Direction	133	148	145	118	118	113	107	133	159	169	171	170	173	168	179	173	158	142	147	145	152	141	
Maximum Wind Gust	3.7	4.3	3.9	3.3	4.3	3.1	2.8	7.4	12.8	19.4	21.2	22.3	19.5	20.4	20.2	18.2	13.6	11.3	14.0	7.9	5.9	6.0	
Std. Dev. Wind Direction	10	9	9	7	10	9	14	13	12	13	12	12	13	14	13	11	10	9	9	9	10	9	
Outdoor Temperature	51.1	51.2	50.8	51.0	51.9	52.0	51.4	51.3	54.5	62.1	67.2	70.0	70.3	70.5	69.6	68.3	66.7	63.5	61.8	60.5	59.5	58.0	
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
	Morning												Afternoon										

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Last Modified Tuesday, 30 Jan 2018

1st pt.

Supplemental Investigator's Odor Intensity Time Log

Investigator: Anallely Calinas
 Date of Investigation: 1/5/19

Location: 29°33'14"N, 95°26'13"W
 Start Time: 1:18 PM

11:16pm

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

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

53°F
 Wind:
 2mph
 SSE
 KTXRDSHAM
 Shadow Grass
 -pearlunby

Odor Description: Charcoal burning, burn brush

Offensiveness: Highly _____ Offensive _____ Unpleasant Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour	0	0	1 x 3	1 x 2	11 x 1	47

2nd pt.

Supplemental Investigator's Odor Intensity Time Log

Investigator: Knallegly Salinas Location: 29°33'38"N, 95°25'28"W
 Date of Investigation: 1/8/19 Start Time: 12:30 A.M.

12:31 A.M.

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

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

51°F
 Fog
 0 MPH
 SSE
 10% Precip.
 KTX PERL

Odor Description: garbage smell, sewer

Offensiveness: Highly Offensive Unpleasant Not Unpleasant

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour	2	5	5	4	2	42

3rd pt.

Supplemental Investigator's Odor Intensity Time Log

Investigator: Anallely Salinas Location: 29°33'51" N 95°26'13" W
 Date of Investigation: 1/16/19 Start Time: 1:45 AM

1:46

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

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

52°F
 10% RH
 4 MPH
 1 MPH from SSE
 KTYROSHA
 14

Odor Description: Burn brush

Offensiveness: Highly _____ Offensive _____ Unpleasant Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour	0	0	0	1	5	54

CRK

4th pt

Supplemental Investigator's Odor Intensity Time Log

Investigator: Anahely Salinas Location: 29°34' 37"N, 95°25'34"W
 Date of Investigation: 1/10/19 Start Time: 2:58

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

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

47°F
 0MPH
 South
 KTKPEARL
 103

Odor Description: No Odor
 Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour	VL	VL	VL	VL	VL	60

54 pt.

Supplemental Investigator's Odor Intensity Time Log

Investigator: Annelly Salinas
Date of Investigation: 1/6/18

Location: 29°34'52" N 95°27'41" W
Start Time: 4:49 A.M.

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

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

470F
0MPH
South
10%
precip.
KITPEARL
103

Odor Description: No Odor

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour	Ø	Ø	Ø	Ø	Ø	60

ATTACHMENT 2



Blue Ridge Landfill, MSW-1505A

COVER APPLICATION LOG CLASS I NON HAZARDOUS

Month / Year: JANUARY 2019
 Supervisor: [Signature]

CLASS I

Line	Daily Cover		Approved Alternate Daily Cover			Elevation	MSL	Inspection Date of Daily Cover ²	Erosion or Leachate Seep Detected	Corrective Action ⁴	Soil Stockpile Required ⁵ (yd ³)	Rain (inches) ≥ 0.5 "	Intermediate Cover		Final Cover		Inspection Date of Intermediate & Final Cover ³	Erosion ≥ 4 " Detected	Date Erosion Corrected ⁷	Corrective Action ⁸	Final Cover Certification Report Reference	Month / Year	Supervisor: Signature ⁹	
	AMT ¹	Grid Area	Method ¹	Spray-On or Tarp	Grid Area								T ²	Method ²	Grid Area	AMT ¹								Grid Area
1																								
2	500	J-32	6" B			60"		✓																
3	500	K-32	6" B			43"		✓																
4	500	K-32	6" B			46"		✓																
5																								
6																								
7	500	K-32	6" B			49"		✓																
8	500	K-32	6" B			52"		✓																
9	500	K-32	6" B			55"		✓																
10	500	K-32	6" B			58"		✓																
11	500	K-32	6" B			60"		✓																
12																								
13																								
14	500	K-33	6" B			43"		✓																
15	500	K-33	6" B			47"		✓																
16	500	K-33	6" B			50"		✓																
17																								
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31																								

AMT¹ = Amount of cover (soil) in yd³ or alternate daily cover in bags or tarp area
 T² = 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. Attach documentation stating reasons for delay.
 Corrective Action: R = Restoring cover material, G = Grading, M = Compacting, S = Seeding
 SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.
 Signature certifies work accomplished as stated in the Cover Application Log.

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Blue Ridge Landfill, MSW-1505A

COVER APPLICATION LOG

Month / Year: JANUARY 2014

MSW

Supervisor Signature

Grid Area	T	Method	AMT	Approved Alternate Daily Cover		MSL	Inspection Date of Daily Cover	Erosion or Leachate Seep Detected	Date Erosion or Leachate Seep Corrected	Corrective Action	Soil Stockpile Required (yd ³)	Rain (Inches)	Rain (Inches) ≥ 0.5"	Intermediate Cover			Inspection Date of Intermediate & Final Cover	Erosion Detected ≥ 4"	Date Erosion Corrected	Corrective Action	Final Cover Certification Report Reference	Supervisor Signature	
				Spray-On or Tarps	Grid Area									T	Method	Grid Area							T
2750	5	6"	B	-	-	70-78	✓	-	-	-	2.0	✓	-	-	-	-	-	-	-	-	-	-	[Signature]
3750	5	6"	B	-	-	70-78	✓	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	[Signature]
4750	5	6"	B	-	-	70-78	✓	-	-	-	-	-	-	-	-	✓	-	1-5-19	R	-	-	[Signature]	
5500	5	6"	B	-	-	72-78	✓	-	-	-	-	-	-	-	-	✓	-	1-6-19	R	-	-	[Signature]	
7750	5	6"	B	-	-	72-78	✓	-	-	-	-	-	-	-	-	✓	-	1-8-19	R	-	-	[Signature]	
8750	5	6"	B	-	-	72-78	✓	-	-	-	-	-	-	-	-	✓	-	1-8-19	R	-	-	[Signature]	
9750	5	6"	B	-	-	72-78	✓	-	-	-	-	-	-	-	-	✓	-	1-8-19	R	-	-	[Signature]	
10750	5	6"	B	-	-	78-80	✓	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	[Signature]	
11750	5	6"	B	-	-	78-80	✓	-	-	-	0.6	✓	-	-	-	✓	-	1-14-19	R	-	-	[Signature]	
12500	5	6"	B	-	-	76-80	✓	-	-	-	-	-	-	-	-	✓	-	1-16-19	R	-	-	[Signature]	
13750	5	6"	B	-	-	80-80	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[Signature]	
14750	5	6"	B	-	-	86-92	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[Signature]	
15750	5	6"	B	-	-	92-98	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[Signature]	
16750	5	6"	B	-	-																		[Signature]
17750	5	6"	B	-	-																		[Signature]
18750	5	6"	B	-	-																		[Signature]
19750	5	6"	B	-	-																		[Signature]
20750	5	6"	B	-	-																		[Signature]
21750	5	6"	B	-	-																		[Signature]
22750	5	6"	B	-	-																		[Signature]
23750	5	6"	B	-	-																		[Signature]
24750	5	6"	B	-	-																		[Signature]
25750	5	6"	B	-	-																		[Signature]
26750	5	6"	B	-	-																		[Signature]
27750	5	6"	B	-	-																		[Signature]
28750	5	6"	B	-	-																		[Signature]
29750	5	6"	B	-	-																		[Signature]
30750	5	6"	B	-	-																		[Signature]
31750	5	6"	B	-	-																		[Signature]

AMT = Amount of cover (soil) in yd³ or alternate daily cover in bags or tarp area
 T = Thickness in inches
 Methods: A = Trip 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 4.1B. 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. Attach documentation starting reasons for delay.
 Corrective Action: R = Restoring cover material, C = Grading, M = Compacting, S = Seeding
 SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.
 Signature certifies work accomplished as stated in the Cover Application Log.

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5	Graded to repair erosion Phase III north slope i-l/48-56 - Graded to repair slope Phase III south slope N-C/40-77
6	Graded to repair erosion Phase III north slope k-p/48-56
7	
8	Graded to repair erosion Phase III north slope ss-u/48-51 - Graded to repair erosion east Phase III south slope K-L/40-49
9	Graded to repair erosion east Phase III south slope T-u/40-43
10	
11	
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14	Graded to repair drainage block at Phase III north of road near minimum T/48-49
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16	Graded to repair erosion east Phase III north slope P-R/52-53
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