Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Toby Baker, *Executive Director* 



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 16, 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 County)

Regulated Entity No.: 102610102 TCEQ MSW Permit No.: 1505A Investigation No.: 1524120

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on October 10, 15 and 16, 2018, requests for assistance regarding the odor at the above-referenced facility. In response to this request, Ms. Reyna L. Loosmore and Mr. Carlos Griggs of this office conducted an investigation on October 18, 2018. 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,

Alma L. Jefferson, Team Leader

Alma L. Jefferson

Waste Section

Houston Region Office

ALJ/RLL/ug

#### MSW PA\_1505A\_20181018\_Investigation

#### 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 # 1524120 Incident Numbers

 294180
 294514

 294182
 294259

294179

Investigator: REYNA LOOSMORE Site Classification TYPE 1

**Conducted:** 10/18/2018 -- 10/24/2018 **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, Local Unit: REGION 12 - HOUSTON

FRESNO, TX, 77545 Activity Type(s): MSWCMPL - Investigation of MSW

complaint

Principal(s):

Role Name

RESPONDENT BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone	
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office	(713) 676-7669
PARTICIPATED IN	DIVISION MANAGER	MR MARK MEADOWS	Phone	(281) 668-9739
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office	(713) 676-7669
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office	(713) 676-7669

#### **BLUE RIDGE LANDFILL - FRESNO**

10/18/2018 to 10/24/2018 Inv. # - 1524120

#### Page 2 of 4

#### Other Staff Member(s):

Role

Name

Investigator

CARLOS GRIGGS

QA Reviewer

BETHANY BATCHELOR

Supervisor

ALMA JEFFERSON

#### **Associated Check List**

#### **Checklist Name**

**Unit Name** 

MSW COMPLAINT INVESTIGATION

1505A Complaint

#### **Investigation Comments:**

#### INTRODUCTION

On October 10, 15 and 16, 2018, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received five (5) complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on October 10, 14 and 15, 2018.

On October 18, 2018, Ms. Reyna L. Loosmore and Mr. Carlos Griggs, Environmental Investigators of the TCEQ Houston Region Office, conducted an odor survey and an unannounced on-site Odor Complaint Investigation at BRL and in the surrounding area.

#### 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. 294179, 294180, 294182, 294259 and 294514.

Description of Alleged Effects:

No alleged effects were described as occurring because of the odors.

Meteorological data at the time of the odor survey:

Date: October 18, 2018

Wind Direction: north-northeast (NNE) to northeast (NE)

Wind Speed: average 7 mph

#### **BLUE RIDGE LANDFILL - FRESNO**

#### 10/18/2018 to 10/24/2018 Inv. # - 1524120

#### Page 3 of 4

Outdoor Temperature: 58.0 - 60.7 °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 6:31 a.m., downwind of BRL at the 400 block of Evergreen Street in Houston. Garbage odors were detected during one (1) of the 15 minutes spent at OS No. 1, averaging to a very light intensity.

OS No. 2, located at the 13000 block of Moonlit Lake Lane in Pearland and downwind of the Sewer Lift Station, was conducted at 6:55 a.m. No odors were detected during the 15 minutes spent at OS No. 2.

OS No. 3, located at the intersection of Bluebonnet Drive and West Drive in Houston and downwind of Lonestar Landfill, was conducted at 7:22 a.m. No odors were detected during the 15 minutes spent at OS No. 3.

OS No. 4, located at the intersection of Hooper Road and Fruge Road in Pearland and crosswind of Brenntag Southwest/Syntech Chemicals, was conducted at 7:47 a.m. No odors were detected during the 15 minutes spent at OS No. 4.

OS No. 5, located at 12400 Shadow Creek Parkway in Pearland and downwind of the Reflection Bay Wastewater Treatment Plant (WWTP), was conducted at 8:09 a.m. No odors were detected during the 15 minutes spent at OS No. 5.

OS No. 6, located at the 200 block of McHard Road (FM 2234) in Houston and downwind of Akzo Nobel Surface Chemistry (Akzo), was conducted at 8:333 a.m. Sweet chemical/solvent odors were intermittently detected during three (3) of the 15 minutes spent at OS No. 6, averaging to a very light intensity.

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

Summary of the on-site investigation:

Following the odor survey, the investigators arrived at BRL and met with Mr. Burgess Stengl, Environmental Manager, and Mr. Mark Meadows, Division Manager, to whom the purpose and scope of the investigation were explained.

The facility representatives drove the investigator to the MSW and Class 1 working faces, by which piles of soil were observed. The investigator obtained a copy of the MSW and Class 1 cover logs from October 4 to 17, 2018 (Attachment 2). The cover logs indicate that six (6) inches of soil is applied at the end of each operating day to the Class 1 and MSW working faces as required.

Description of Odor:

Garbage and sweet chemical/solvent 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.

Location of the Source of the Odor:

While off-site, the investigators detected odors from the directions of BRL and Akzo.

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

According to the FIDO protocol, the odor of landfill garbage is characterized as "offensive" and the odor of sweet

#### **BLUE RIDGE LANDFILL - FRESNO**

10/18/2018 to 10/24/2018 Inv. # - 1524120

#### Page 4 of 4

chemical/solvent (such as ketones, esters and alcohols) is characterized as "not unpleasant". Landfill garbage odors were previously detected coming from the direction of BRL on September 20, 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 October 18, 2018. The complaints are closed.

#### No Violations Associated to this Investigation

Date 11 / 16 / 18
Date 11/16/2018
ttal)
Maps, Plans, Sketches
Photographs
Correspondence from the facility
Other (specify) :
See ust of Antachments

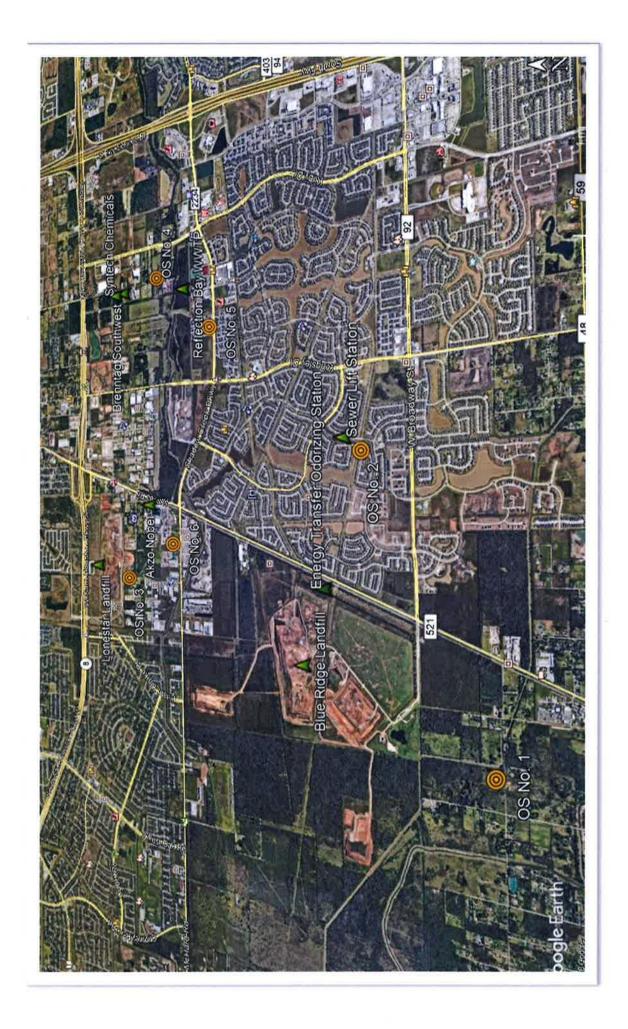
#### Blue Ridge Landfill 2200 F.M. 521, Fresno (Fort Bend County), TX 77545 Municipal Solid Waste Permit No. 1505A MSW Complaint Investigation Conducted on October 18, 2018

#### List of Attachments

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

**Attachment 2:** October 2018 Cover Logs

### ATTACHMENT 1



TCEQ Waste Section October 18, 2018 Odor Surveys

Air Quality Maps

**Data Reports** 

AutoGC

Water Data

Site Info

# Manvel Croix Park C84 Data by Site by Date (all parameters)

Use this form to retrieve hourly data collected at Manvel Croix Park C84. Although this is the most current data, it is not considered official until it has been certified by the technical staff. This information is updated hourly.

This web page provides the most current hourly averaged data available. Our convention for time-tagging data is the beginning of each hour. For example, values shown for the noon hour are based on measurements taken from noon to 1:00 p.m. The noon average will not be calculated until after 1:00 p.m. The noon average will then be available on our external server from 1:15 p.m. to 1:30 p.m. This results in an apparent one-hour time lag in the data. We also present our data in Local Standard Time for each measuring site. For most of Texas this is Central Standard Time. During Daylight Savings, this introduces another apparent one-hour time lag in the data.

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

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

Find Site:			CAMS	AQS	Description	on	
CAMS 84	Mai	nvel Croix	Park C84				<ul> <li>Select a different site</li> </ul>
Month:	Day:	Year:	Time Format:				
October •	18 ▼	2018 ▼	12 Hour (AM/PM) ▼	Genera	ate Report	Plot Data	
✓ Green u	nderlir	ne for v	alidated data				

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for **Thursday, October 18, 2018**. All times shown are in CST.

Parameter						Mo	rning											Afte	rnoo
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
Nitric Oxide	-0.1	0.1	0.1	0.1	0.2	0.6	0.9	2.8	4.3	<u>5.1</u>	<u>QAS</u>	QAS	QAS	1.7	1.0	0.7	0.5	0.2	0.0
Nitrogen Dioxide	4.3	4.3	4.7	4.4	5.9	8.4	10.7	11.4	10.2	9.8	QAS	QAS	QAS	9.8	11.3	12.2	13.1	14.2	12.0
Oxides of Nitrogen	4.2	4.4	4.8	4.5	6.2	9.1	11.6	14.1	14.4	14.8	QAS	QAS	QAS	11.5	12.3	12.8	13.5	14.4	12.0
Ozone	10	10	12	14	13	11	8	8	10	12	QAS	QAS	QAS	29	31	30	24	17	12
Wind Speed	7.8	6.8	8.3	9.7	9.2	7.5	6.9	7.0	8.0	8.5	9.0	8.8	8.1	8.9	7.3	6.9	7.0	6.0	6.2
Resultant Wind Speed	7.4	6.3	8.0	9,4	8.9	7.3	6.6	6.7	7.7	8.1	8.6	8.4	7.7	8.4	7.0	6.6	6.7	5.7	5.8
Resultant Wind Direction	14	17	30	31	30	33	29	33	41	44	36	40	<u>52</u>	44	39	34	19	20	11
Maximum Wind Gust	14.7	13.2	18.9	17.6	17.5	15.2	12.5	13.3	15.4	16.4	15.9	17.0	15.2	15.3	14.7	12.4	15.8	12.5	10.6
Std. Dev. Wind Direction	18	21	17	16	15	15	18	15	17	17	16	17	17	18	16	16	18	19	19
Outdoor Temperature	58.9	58.5	58.1	57.4	57.2	57.6	58.0	58.8	60.7	62.7	64.5	67.1	69.2	70.7	71.2	71.6	71.7	71.3	70.6
Parameter	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
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**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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Last Modified Tuesday, 30 Jan 2018

Supplemental Investigator's Odor Intensity Time Log
Investigator: Deuro Location: Location: Location: Location: Start Time: 663 | ND Odor Intensity VL, L, M, S, VS Minutes Odor Intensity VI., L, M, S,VS Minutes 31 min 1 min Noodor No odar NO odor NO OVOR NO OGOV NO OCU NO Odor No Odor Gurbage - Landfill Odor Description: \_ Offensiveness: Highly \_\_\_\_ Offensive \_\_\_\_ Unpleasant \_\_\_\_ Not Unpleasant \_\_\_\_ Weighted Average Intensity: No Odor /VL) M VS S 1 Min 10 Min

1 Hour

Investigator: Vey Common Location: 1300 Work of Now lit College Date of Investigation: October 18,2018 Start Time: 0655 ho Odor Intensity VL, L, M, S, VS Minutes Odor Intensity VI., L, M, S,VS Minutes NO Oder 31 min 1 min Odor Description: \_\_\_\_\_ Offensiveness: Highly \_\_\_\_ Offensive \_\_\_\_ Unpleasant \_\_\_\_ Not Unpleasant \_\_\_ Weighted Average Intensity: No Odor VL L M VS S 1 Min 10 Min

1 Hour

tigator of Inve	Supplemental Investi EXCUNU LOSMOY C stigation: OXOOY 18, 20	Location: WY Start Time:	of 22 his
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Supplemental Investigator's Odor Intensity Time Log
Investigator: Penny Log More Location: Investigation of Hoper Rd Fruge
Date of Investigation. October 18,2018 Start Time: 0747 ND

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Odor De	scription:					
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Weighted	Average Int	tensity:	M	L	VL	No Odor
1 Min						
10 Min	1					
10 11-111						

Supplemental Investigator's Odor Intensity Time Log
Investigator: Peyno Complete Location: 1240 Shuday Creek Way
Date of Investigation: Complete 18 2018 Start Time: 0809 NO

Minutes	Odor Intensity VL, L, M, S,VS
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	VS	8	WI			

Supplemental Investigator's Odor Intensity Time Log
Investigator: Reyny Work Location: 200 block of 7M2334 MC Cod
Date of Investigation: October 18, 2018 Start Time: 0833 his

Minutes	Odor Intensity VI., L, M, S,VS
ı min	VL
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5	No odar
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7	NO OUR
8	NO OCOY
9	No oder
10	No odor
11	NOGOV
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Odor De	scription:	Sweet	chemical 1	solvent		
Offensiv	eness: Hi	ghly	Offensive	Unpleasant	Not U	apleasant
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1 Min	1					
1 Min 10 Min	+					

## **ATTACHMENT 2**

Month / Year, OCTOBCE 20!

BSE

# COVER APPLICATION LOG

Blue Ridge Landfill, MSW-1505A

E REPUBLIC

Final Cover Certification Report Reference Ġ B 81-21.01 81-11-01 Date Erosion Corrected<sup>5</sup> Erosion ≥ 4" Detected \=Yes Inspection
Date of
Intermediate
& Final
Cover v=Inspected 7 7 T<sup>2</sup> Method<sup>3</sup> Per Final Closura Plan Wethod AMT Grid area 12" Soil AMT Grid Area √=Yes Rain inches ≥ 0.5" 4.0 2.0 0 1.4 --Soil Stockpile Required<sup>7</sup> (yd<sup>2</sup>) Inspection Erosion or Date Cr Date of Daty Leachate Erosion or Cover Seep Leachate Detected Seep \=Yes v=Inspected 46-52 85.05 19-08 \$5.4 24.Or 52-58 - 62.70 25-40 79.09 8h-0h 17.50 SB-64 CS-8h 84.04 -MSL Method 1 ١ ţ ť 1 Approved Alternale Daily Cover Spray-On or Tarps AMT Gnd Area 1 1 3 120 55.75 6" B 4 750 55.75 6" B 5 750 55.75 6" B 6 500 55.75 6" B άÌ Ġ β 20 49 T AMT Groves 6" Soil 1050 2 750 30 28

T = Thickness in inches

Methods: A = Tarp Machine, B = Soil by Heavy Equipment S = Spray-On

Inspect areas with daily ocver each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfalt event of 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 2 4 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 no corrected within 5 days, attach documentation starting 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 mount of soil required is dependent upon the maximum alticipated size of the working face. A 50 yd. soil stockpile to be maintained within 1,000 ft of the Regulated Asbesto-Containing Material (RACM) disposal area. Signature certifies work accomplished as stated in the Cover Application Log.

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" Granded to actions assists on those It wash slope in -22/49-52 canded to know In Fort 24-27
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Month / Year: OCTOBER 2018

# COVER APPLICATION LOG CLASS I NON HAZARDOUS

**ร็ว REPUBLIC** Servces Blue Ridge Landfill, MSW-1505A

Final Cover Certification Report Reference Inspection Erosion
Date of 24"
Intermediate Detected
& Final
Cover \*\* Yes Per Final Closure Plan T<sup>2</sup> Method AMT Grid Area 12" Soil AMT Grid Area Rain inches) ≥ 0.57 v=Yes Rain (inches) Spil Stockpile Required\* (yd\*) Inspection Erosion or Date of Daily Leachate Erosoer Seep L \*=Yes 7 7 2 00 20 MSL 95 5 55 7 l. 53 3 ,66 46 Approved Allemate Dally Cover l Spray-On or Tarps AMT Grid Area T Method<sup>2</sup> AMT Grid Area 6C 6d Œ 8 A Cal 500 8.30 6" 500 3-30 6" 2 4530 R-30 6" 3-30 6" 500 B 30 6" 9 55 3-30 6 10 50 B-30 6 Daily Cover 67 3011 3.30 5 500 3-30 12 500 B-30 200 200

Inspect areas with daily cover or altereate daily cover and the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall even of 0.5° or more. Inspect all areas in accordance with Site Operating Plan Sectorie 4.18. Additional documentation area on bask of form Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On

Eroson of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEQ Regional Office, if no corrected within 5 days, altach documentation starting 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 mount of soil required is dependent upon the maximum alicipated size of the working face. A 50 yd<sup>2</sup> soil stockpile is required within 1.00ft of the Regulated Asbesto-Containing Material (RACM) disposal area. Signature certifies work accomplished as stated in the Cover Application Log.

