



**CORRESPONDENCE COVER SHEET
WASTE PERMITS DIVISION
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

Date: 03/17/2020
Facility Name: Hillside Recycling & Disposal Facility
Permit or Registration No.: 523B

Nature of Correspondence:
☐ Initial/New
☒ Response/Revision*

*If Response/Revision, please provide previous TCEQ Tracking No.: 24921903

(Previous TCEQ Tracking No. can be found in the Subject line of the TCEQ's response letter to your original submittal.)

This cover sheet should accompany all correspondences submitted to the Waste Permits Division and should be affixed to the front of your submittal as a cover page. Please check the appropriate box for the type of correspondence being submitted. For questions regarding this form, please contact the Waste Permits Division at (512) 239-2335.

Table 1 - Municipal Solid Waste

APPLICATIONS	REPORTS and RESPONSES
<input type="checkbox"/> New Notification	<input type="checkbox"/> Closure Report
<input type="checkbox"/> New Permit (including Subchapter T)	<input type="checkbox"/> Groundwater Alternate SRC Demonstration
<input type="checkbox"/> New Registration (including Subchapter T)	<input type="checkbox"/> Groundwater Corrective Action
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Statistical Evaluation
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Landfill Gas Corrective Action
<input checked="" type="checkbox"/> Notice Modification	<input type="checkbox"/> Landfill Gas Monitoring
<input type="checkbox"/> Non-Notice Modification	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Transfer/Name Change Modification	<input type="checkbox"/> Soil Boring Plan
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Other:
<input type="checkbox"/> Subchapter T Workplan	
<input type="checkbox"/> Other:	

Table 2 - Industrial & Hazardous Waste

APPLICATIONS	REPORTS and RESPONSES
<input type="checkbox"/> New	<input type="checkbox"/> Annual/Biennial Site Activity Report
<input type="checkbox"/> Renewal	<input type="checkbox"/> CfPT Plan/Result
<input type="checkbox"/> Post-Closure Order	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Construction Certification/Report
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> Class 3 Modification	<input type="checkbox"/> Extension Request
<input type="checkbox"/> Class 2 Modification	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Class 1 ED Modification	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Class 1 Modification	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Soil Core Monitoring Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Treatability Study
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Trial Burn Plan/Result
<input type="checkbox"/> 335.6 Notification	<input type="checkbox"/> Unsaturated Zone Monitoring Report
<input type="checkbox"/> Other:	<input type="checkbox"/> Waste Minimization Report
	<input type="checkbox"/> Other:



BIGGS & MATHEWS ENVIRONMENTAL

Consulting Engineers ♦ Hydrogeologists

Mansfield ♦ Wichita Falls

March 17, 2020

Mamadou Balde
MC 124
Municipal Solid Waste Permits Section
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg. F
Austin, Texas 78753

Re: Permit Modification – Attachment 14 – Information Request
Hillside Recycling and Disposal Facility, TCEQ Permit No. 523B
Grayson County, Texas

Dear Mr. Balde:

On behalf of our client, Waste Management of Texas, Inc. (WMTX), please find attached this response to your email information request addressed to Mr. Montgomery, dated March 4, 2020. The attachments with this document completely replace the attachments from the original submittal. Our responses to your comments are presented below in the order received.

1. Provide the correct MSW permit number for Hillside R&DF on page 1 of the application.

RESPONSE: The permit number has been corrected on page 1 of the application.

2. The submittal type on page 1 of Form 20650 for the application dated February 18, 2020 should be "Initial", only; please correct appropriately:

RESPONSE: The submittal type on page 1 of Form 20650 has been corrected to be "Initial Submittal".

3. In accordance with §330.59(c)(3), include a statement on mineral ownership rights under the facility

RESPONSE: A statement on mineral ownership rights has been added to the Adjacent Property Owners list in Attachment 2.

4. Include under Attachment 3 a redline/strikeout of the modified LFG system.

RESPONSE: A redline/strikeout drawing for the modified LFG system has been included in Attachment 3.

Mamadou Balde
March 17, 2020
Page 2

5. Ensure that the map(s) of the replacement page(s) in Attachment 4 reflect the proposed/implemented changes.

RESPONSE: The maps of replacement pages in Attachment 4 have been changed to reflect the proposed/implemented changes.

One original and one copy of the permit modification are provided for your use and distribution. To facilitate your review, we have included copies of the permit revisions in both clean and redline/strikeout formats. In addition, one copy has been provided to the appropriate regional office. A copy of this submittal has also been placed in the site operating record.

Please contact us if you have any further questions or comments regarding this submittal.

Sincerely,

BIGGS & MATHEWS ENVIRONMENTAL



Austin L. Montgomery, P.E.
Project Engineer



J. Heath Parker, P.E.
Principal Engineer

Attachment 1: Permit Modification Application Form
Attachment 2: Land Ownership List/Map
Attachment 3: Permit Replacement Pages (Redline/Strikeout Format)
Attachment 4: Permit Replacement Pages

cc: TCEQ Region 4
Guy R. Campbell, Waste Management of Texas, Inc.
Leigh Starlin, Waste Management of Texas, Inc.
Heather Lehrmann, Waste Management of Texas, Inc.
Keith Sharon, Waste Management of Texas, Inc.
Ross Boring, Waste Management of Texas, Inc.

ATTACHMENT 1

PERMIT MODIFICATION APPLICATION FORM

Facility Name: Hillside Recycling & Disposal Facility
Permittee/Registrant Name: Waste Management of Texas, Inc.
MSW Authorization #: 523B
Initial Submittal Date: 3/17/2020
Revision Date:



Texas Commission on Environmental Quality

Permit/Registration Modification and Temporary Authorization Application Form for an MSW Facility

1. Reason for Submittal

☒ Initial Submittal ☐ Notice of Deficiency (NOD) Response

2. Authorization Type

☒ Permit ☐ Registration

3. Application Type

☒ Modification with Public Notice ☐ Modification without Public Notice
☐ Temporary Authorization (TA) ☐ Modification for Name Change/Transfer

4. Application Fees

☐ Pay by Check ☒ Online Payment

If paid online, e-Pay Confirmation Number: 582EA000379147

5. Application URL

Is the application submitted for a permit/registration modification with public notice?

☒ Yes ☐ No

If the answer is "Yes", enter the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted in the space provided:

<https://www.wm.com/wm/permits-texas/permits.jsp>

6. Confidential Documents

Does the application contain confidential documents?

☐ Yes ☒ No

If "Yes", cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked "CONFIDENTIAL."

7. General Facility Information

Facility Name: Hillside Recycling & Disposal Facility

MSW Authorization No.: 523B

Regulated Entity Reference No.: 100217512

Physical or Street Address (if available): 1100 Nelson Road

City: Sherman

County: Grayson

State: TX

Zip Code: 75090

(Area code) Telephone Number: 972-842-5710

Latitude: 33°35'0.4" N

Longitude: 96°32'9.2" W

8. Facility Type(s)

☒ Type I

☐ Type IV

☐ Type V

☐ Type I AE

☐ Type IV AE

☐ Type VI

9. Description of the Revisions to the Facility

Provide a brief description of all revisions to the permit/registration conditions and supporting documents referred by the permit/registration, and a reference to the specific provisions under which the modification/temporary authorization application is being made. Also, provide an explanation of why the modification/temporary authorization is requested:

The purpose of this permit modification is to modify the site's Attachment 14 - Landfill Gas Management Plan to incorporate a passive vent trench installed for the purpose of mitigating LFG migration. This permit modification is being submitted under §305.70(k)(3).

10. Facility Contact Information

Site Operator (Permittee/Registrant) Name: Waste Management of Texas, Inc.

Customer Reference No. (if issued)*: CN 603572132

Mailing Address: 9821 Katy Freeway, Suite 700

City: Houston

County: Harris

State: TX

Zip Code: 77024

(Area Code) Telephone Number: 713-647-5454

E-mail Address: hlehrmann@wm.com

TX Secretary of State (SOS) Filing Number: 22300000

*If the Site Operator (Permittee/Registrant) does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Site Operator (Permittee/Registrant) as the Customer.

Operator Name¹: Same as Site Operator (Permittee/Registrant)

Customer Reference No. (if issued)*: CN

Mailing Address:

City:

County:

State:

Zip Code:

(Area Code) Telephone Number:

E-mail Address:

Charter Number:

¹If the Operator is the same as Site Operator/Permittee type "Same as "Site Operator (Permittee/Registrant)".

*If the Operator does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Operator as the customer.

Consultant Name (if applicable): Biggs and Mathews Environmental

Texas Board of Professional Engineers Firm Registration Number: F-256

Mailing Address: 1700 Robert Road, Suite 100

City: Mansfield

County: Tarrant

State: TX

Zip Code: 76063

(Area Code) Telephone Number: 817-563-1144

E-Mail Address: hparker@biggsandmathews.com

Agent in Service Name (required only for out-of-state):

Mailing Address:

City:

County:

State:

Zip Code:

(Area Code) Telephone Number:

E-Mail Address:

11. Ownership Status of the Facility

Is this a modification that changes the legal description, the property owner, or the Site Operator (Permittee/Registrant)?

☐ Yes ☒ No

If the answer is "No", skip this section.

Does the Site Operator (Permittee/Registrant) own all the facility units and all the facility property?

☐ Yes ☐ No

If "No", provide the information requested below for any additional ownership.

Owner Name:

Street or P.O. Box:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email Address (optional):

Charter Number:

Signature Page

I, Guy R. Campbell Engineering Manager, North Texas,
(Site Operator (Permittee/Registrant)'s Authorized Signatory) (Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:  Date: 2/17/2020

TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, _____, hereby designate _____
(Print or Type Operator Name) (Print or Type Representative Name)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Printed or Typed Name of Operator or Principal Executive Officer

Signature

SUBSCRIBED AND SWORN to before me by the said Guy R Campbell

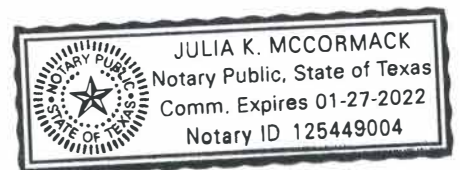
On this 17th day of March, 2020

My commission expires on the 27th day of January, 2022

Julia K McCormack

Notary Public in and for

Tarrant County, Texas
(Note: Application Must Bear Signature & Seal of Notary Public)



Permit/Registration Modification with Public Notice

(See Instructions for P.E. seal requirements.)

Required Attachments

Attachment No.

Land Ownership Map

2

Land Ownership List

2

Marked (Redline/Strikeout) Pages

3

Unmarked Revised Pages

4

Additional Attachments as Applicable- Select all those apply and add as necessary

- ☐ Signatory Authority
- ☐ Fee Payment Receipt
- ☐ Confidential Documents

ATTACHMENT 2
LAND OWNERSHIP LIST/MAP

**HILLSIDE RECYCLING AND DISPOSAL FACILITY
ADJACENT PROPERTY OWNERS
(From Grayson County Records, January 13, 2020)**

- | | |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1 GRAHAM JOHN HAMILTON M MD
4817 PARKVIEW PLACE
ARLINGTON TX 76005 | 15 DAWSON LEHMAN
1905 WEBB SMITH RD
SHERMAN TX 75090 |
| 2 GAINES JAMES L ETUX TERESA M
1446 WEBB SMITH RD
SHERMAN TX 75090 | 16 ORR CHRISTINE LEE
1849 WEBB SMITH ROAD
SHERMAN TX 75090 |
| 3 HOLLOWAY MAX B ETUX MARKA L
1335 TRIBBLE RD
SHERMAN TX 75090 | 17 SMITH RUSSELL
523 DICKSON CIR
SHERMAN TX 75090 |
| 4 RICKERSON GWEN
7618 POST BRIDGE RD
SPRING TX 77389-3472 | 18 SCALLY RANDY EUGENE ETUX MARGARET
599 REDBUD LN
SHERMAN TX 75090-3783 |
| 5 OVERMAN KENNETH J ETUX LYNN M
1344 WEBB SMITH RD
SHERMAN TX 75090 | 19 WALKER DOYLE ETUX KATHY
637 CEDAR RD
SHERMAN TX 75090 |
| 6 BLAIR JUDI LYNN ETVIR WALTER RAY
1270 TRIBBLE RD
SHERMAN TX 75090 | 20 TRIBBLE GEORGE PRESTON
P O BOX 558
TOM BEAN TX 75489 |
| 7 CONFIDENTIAL OWNER
3208 HARTFORD DR
FLOWER MOUND TX 75028 | 21 MADISON ROBERT W
462 REDBUD LN
SHERMAN TX 75090-3782 |
| 8 COX BEN
69 SOUTHGALE RD
DENISON TX 75021 | 22 LIPSKEY SCOTT M ETUX LESLIE E
285 REDBUD LN
SHERMAN TX 75090 |
| 9 DICK JOHN A & RHONDA D
1294 WEBB SMITH RD
SHERMAN TX 75090-3767 | 23 MURPHY FAMILY TRUST
324 REDBUD LN
SHERMAN TX 75090 |
| 10 PINA CORY A ETUX DEBORAH J
1194 WEBB SMITH RD
SHERMAN TX 75090-3737 | 24 CHAMPION WAYNE P & ANTHALINE C
286 RED BUD LN
SHERMAN TX 75090 |
| 11 TURNER TONA SUE
1950 WEBB SMITH RD
SHERMAN TX 75090 | 25 PAYNE CARL E
206 REDBUD LN
SHERMAN TX 75090-3779 |
| 12 RUSSELL LARRY J ETUX VICKI
1960 WEBB SMITH RD
SHERMAN TX 75090 | 26 HAWKINS LARRY
316 WATKINS RD
SHERMAN TX 75090-9461 |
| 13 SETTLE TERRY LYN
1931 WEBB SMITH RD
SHERMAN TX 75090 | 27 GEARHART JASON A
199 REDBUD LN
SHERMAN TX 75090 |
| 14 PEASE MICHAEL
2085 WEBB SMITH RD
SHERMAN TX 75090 | 28 COX TOMMY D
160 REDBUD LANE
SHERMAN TX 75090-3748 |

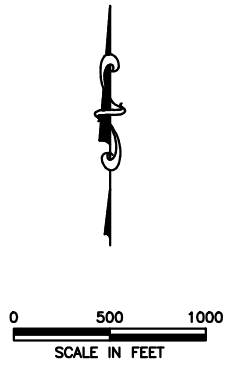
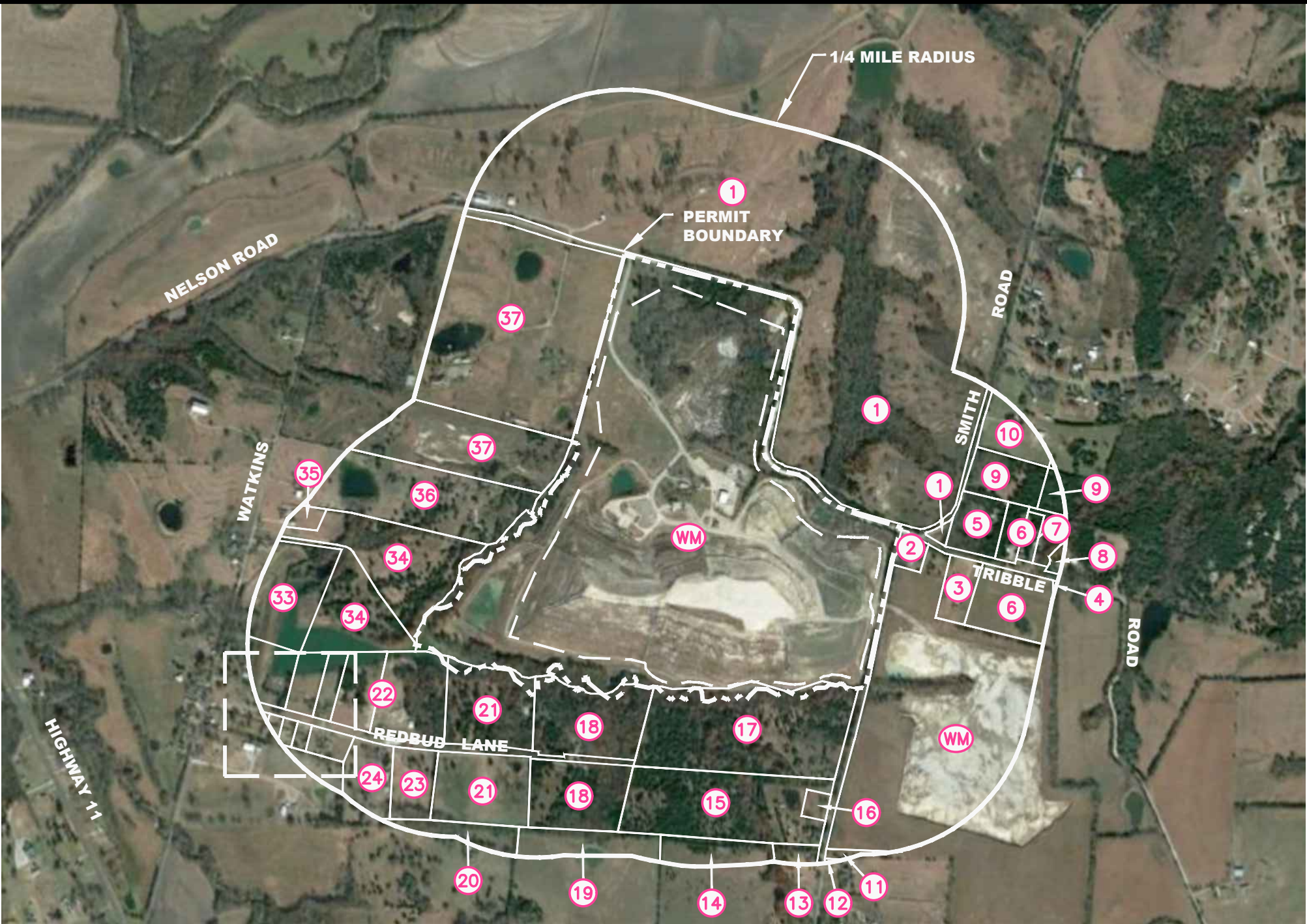
** In accordance with §330.59(c)(3), the availability of mineral ownership beneath the facility has been investigated. Based on the evaluation of Grayson County Appraisal District records, their information does not include mineral ownership.*

**HILLSIDE RECYCLING AND DISPOSAL FACILITY
ADJACENT PROPERTY OWNERS
(From Grayson County Records, January 13, 2020)**

- 29 CRANFORD HAROLD D ETUX DARLA A
136 REDBUD LN
SHERMAN TX 75090
- 30 REEVES STEVEN PAUL ETUX LIGEIA MECHELLE
122 REDBUD LN
SHERMAN TX 75090-3748
- 31 BURGEN LARRY L
94 REDBUD LN
SHERMAN TX 75090
- 32 KARLESKINT MICHAEL A ETUX JANE M
424 WATKINS RD
SHERMAN TX 75090
- 33 DETZEL JASON ETUX TRISHA
638 WATKINS RD
SHERMAN TX 75090
- 34 MOTAHARNIA PAULA ANNE & AL
650 WATKINS RD
SHERMAN TX 75090
- 35 BILLINGS BARRY B & VICKY D
668 E WATKINS DR
SHERMAN TX 75090
- 36 MONK TOMMY E ETUX JOYCE
732 WATKINS RD
SHERMAN TX 75090
- 37 LEE LYNN REVOC TRUST
101 S HANLEY RD STE 1075
SAINT LOUIS MO 63105-3438

** In accordance with §330.59(c)(3), the availability of mineral ownership beneath the facility has been investigated. Based on the evaluation of Grayson County Appraisal District records, their information does not include mineral ownership.*

J:\101\11\11\3-PropOwners_02-20.dwg Layout: QuarterMile User: amontgomery



- NOTES:
1. AERIAL PHOTOGRAPH DOWNLOADED FROM GOOGLE EARTH ON JANUARY 10, 2020, IMAGERY DATED NOVEMBER 26, 2018.
 2. NUMBER DESIGNATIONS FOR PROPERTIES MATCH LAND OWNERS LIST.
 3. PROPERTY LINES INDICATED ON THIS MAP ARE BASED ON GRAYSON COUNTY APPRAISAL DISTRICT RECORDS CURRENT TO JANUARY 2020.



FOR PERMITTING PURPOSES ONLY

REVISIONS							TBPE FIRM NO. F-256		TBPG FIRM NO. 50222		DRAWING 1
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DSN.	ALM	DATE :	03/2020	
							DWN.	SRC	SCALE :	GRAPHIC	
							CHK.	JHP	DWG :	3-PropOwners_02-20.dwg	

LAND OWNERSHIP MAP

WASTE MANAGEMENT OF TEXAS, INC.
HILLSIDE RECYCLING & DISPOSAL FACILITY

BIGGS & MATHEWS
ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817-563-1144

ATTACHMENT 3

**PERMIT REPLACEMENT PAGES
(REDLINE/STRIKEOUT FORMAT)**

**HILLSIDE RECYCLING AND DISPOSAL FACILITY
GRAYSON COUNTY, TEXAS
TCEQ PERMIT NO. MSW-523B**

MAJOR PERMIT AMENDMENT APPLICATION

**PART III – SITE DEVELOPMENT PLAN
ATTACHMENT 14
LANDFILL GAS MANAGEMENT PLAN**

Prepared for



Waste Management of Texas, Inc.

September 2005
Revised May 2007
Revised April 2010
Revised March 2020



Prepared by



BIGGS & MATHEWS ENVIRONMENTAL

1700 Robert Road, Suite 100 ♦ Mansfield, Texas 76063 ♦ 817-563-1144

TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-256

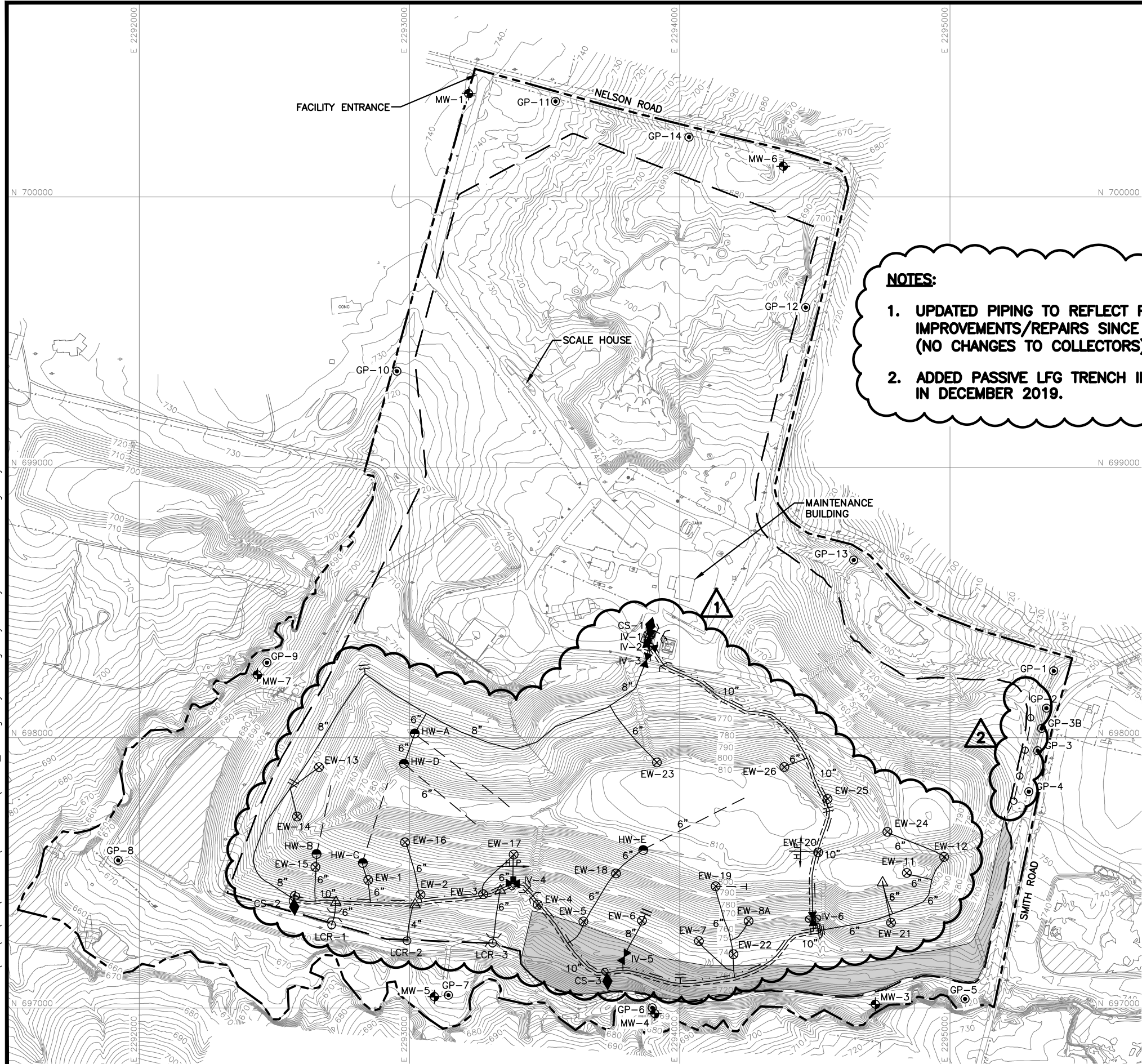
TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION NO. 50222

The 2010 landfill gas system upgrades, as shown on Figure 14D-6A, will include the installation of two horizontal gas collectors and associated landfill collection piping. In addition, one existing decommissioned LFG extract well will be reconnected and one existing horizontal collection trench (HOZ-18A) will be abandoned. HOZ-18A will be abandoned because it is no longer operational.

The 2020 landfill gas remediation upgrades, as shown on Figure 14D-6B, included a passive LFG trench that was installed outside of waste in the vicinity of GP-3. The trench includes a horizontal perforated pipe and rock backfill within the trench along with four vertical risers. In addition, turbine ventilators were added to each vertical riser as shown in Figure 14D-8.



J:\101\11\901\2020 LFG\Permit Mod\14D-5_ExistingLFGSystem.dwg Layout: Layout1 User: amontgomery



NOTES:

1. UPDATED PIPING TO REFLECT PERIODIC IMPROVEMENTS/REPAIRS SINCE 2010 (NO CHANGES TO COLLECTORS).
2. ADDED PASSIVE LFG TRENCH INSTALLED IN DECEMBER 2019.

LEGEND

- PERMIT BOUNDARY
- PERMITTED LIMITS OF WASTE
- EXISTING CONTOUR
- N 700000 STATE PLANE COORDINATE SYSTEM
- EXISTING LIMITS OF FINAL COVER
- GP-1 EXISTING LFG MONITORING PROBE
- MW-1 EXISTING GROUNDWATER MONITORING WELL
- EW-11 EXISTING LFG EXTRACTION WELL
- LCR-2 EXISTING LEACHATE CLEANOUT RISER CONNECTION
- HW-A EXISTING HORIZONTAL LFG COLLECTOR
- EXISTING LFG COLLECTION PIPING
- EXISTING AIR SUPPLY LINE
- EXISTING CONDENSATE FORCEMAIN
- EXISTING TRENCH WELL
- EXISTING PASSIVE LFG TRENCH
- EXISTING AIR/FORCEMAIN VALVE
- EXISTING AIR STUB
- IV-6 EXISTING ISOLATION VALVE
- CS-3 EXISTING CONDENSATE SUMP
- EXISTING REMOTE WELLHEAD
- EXISTING BLIND FLANGE

NOTE:


1. TOPOGRAPHIC MAPPING PREPARED BY DALLAS AERIAL SURVEYS, INC. FROM AERIAL PHOTOGRAPHY FLOWN MARCH 10, 2018.



Austin L. Montgomery
3/17/2020

FOR PERMITTING PURPOSES ONLY

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

EXISTING LFG SYSTEM			
WASTE MANAGEMENT OF TEXAS, INC. HILLSIDE RECYCLING & DISPOSAL FACILITY			
		BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS MANSFIELD • WICHITA FALLS 817-563-1144	
TBPE FIRM NO. F-256		TBPG FIRM NO. 50222	
DSN. ALM	DATE : 03/2020	FIGURE 14D-5	
DWN. SRC	SCALE : GRAPHIC		
CHK. JHP	DWG : 14D-5_ExistingLFGSystem.dwg		

ATTACHMENT 4

PERMIT REPLACEMENT PAGES

**HILLSIDE RECYCLING AND DISPOSAL FACILITY
GRAYSON COUNTY, TEXAS
TCEQ PERMIT NO. MSW-523B**

MAJOR PERMIT AMENDMENT APPLICATION

**PART III – SITE DEVELOPMENT PLAN
ATTACHMENT 14
LANDFILL GAS MANAGEMENT PLAN**

Prepared for



Waste Management of Texas, Inc.

September 2005
Revised May 2007
Revised April 2010
Revised March 2020



Austin L. Montgomery
3/17/2020

Prepared by



BIGGS & MATHEWS ENVIRONMENTAL

1700 Robert Road, Suite 100 ♦ Mansfield, Texas 76063 ♦ 817-563-1144

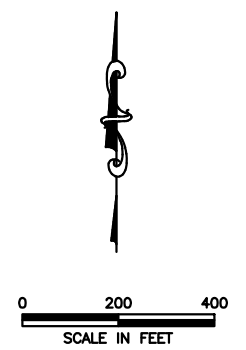
TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-256

TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION NO. 50222

The 2010 landfill gas system upgrades, as shown on Figure 14D-6A, will include the installation of two horizontal gas collectors and associated landfill collection piping. In addition, one existing decommissioned LFG extract well will be reconnected and one existing horizontal collection trench (HOZ-18A) will be abandoned. HOZ-18A will be abandoned because it is no longer operational.

The 2020 landfill gas remediation upgrades, as shown on Figure 14D-6B, included a passive LFG trench that was installed outside of waste in the vicinity of GP-3. The trench includes a horizontal perforated pipe and rock backfill within the trench along with four vertical risers. In addition, turbine ventilators were added to each vertical riser as shown in Figure 14D-8.





LEGEND

- PERMIT BOUNDARY
- PERMITTED LIMITS OF WASTE
- EXISTING CONTOUR
- STATE PLANE COORDINATE SYSTEM
- EXISTING LIMITS OF FINAL COVER
- EXISTING LFG MONITORING PROBE
- EXISTING GROUNDWATER MONITORING WELL
- EXISTING LFG EXTRACTION WELL
- EXISTING LEACHATE CLEANOUT RISER CONNECTION
- EXISTING HORIZONTAL LFG COLLECTOR
- EXISTING LFG COLLECTION PIPING
- EXISTING AIR SUPPLY LINE
- EXISTING CONDENSATE FORCEMAIN
- EXISTING TRENCH WELL
- EXISTING PASSIVE LFG TRENCH
- EXISTING AIR/FORCEMAIN VALVE
- EXISTING AIR STUB
- EXISTING ISOLATION VALVE
- EXISTING CONDENSATE SUMP
- EXISTING REMOTE WELLHEAD
- EXISTING BLIND FLANGE

NOTE:

- TOPOGRAPHIC MAPPING PREPARED BY DALLAS AERIAL SURVEYS, INC. FROM AERIAL PHOTOGRAPHY FLOWN MARCH 10, 2018.



Austin L. Montgomery
3/17/2020

FOR PERMITTING PURPOSES ONLY

REVISIONS							TBPE FIRM NO. F-256		TBPG FIRM NO. 50222		FIGURE 14D-5
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DSN.	ALM	DATE :	03/2020	
							DWN.	SRC	SCALE :	GRAPHIC	
							CHK.	JHP	DWG :	14D-5_ExistingLFGSystem.dwg	

EXISTING LFG SYSTEM

WASTE MANAGEMENT OF TEXAS, INC.
HILLSIDE RECYCLING & DISPOSAL FACILITY

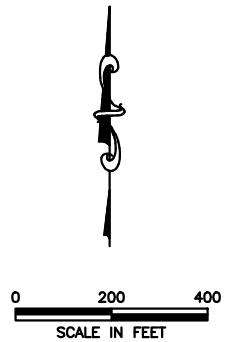


BIGGS & MATHEWS
ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817-563-1144

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Austin L. Montgomery
3/17/2020




- LEGEND**
- PERMIT BOUNDARY
 - PERMITTED LIMITS OF WASTE
 - EXISTING CONTOUR
 - STATE PLANE COORDINATE SYSTEM
 - EXISTING LIMITS OF FINAL COVER
 - EXISTING LFG MONITORING PROBE
 - EXISTING GROUNDWATER MONITORING WELL
 - EXISTING LFG EXTRACTION WELL
 - EXISTING LEACHATE CLEANOUT RISER CONNECTION
 - EXISTING HORIZONTAL LFG COLLECTOR
 - EXISTING LFG COLLECTION PIPING
 - EXISTING AIR SUPPLY LINE
 - EXISTING CONDENSATE FORCEMAIN
 - EXISTING TRENCH WELL
 - EXISTING AIR/FORCEMAIN VALVE
 - EXISTING AIR STUB
 - EXISTING ISOLATION VALVE
 - EXISTING CONDENSATE SUMP
 - EXISTING REMOTE WELLHEAD
 - EXISTING BLIND FLANGE
 - EXISTING HDPE CAP
 - PROPOSED PASSIVE LFG TRENCH

NOTE:
1. TOPOGRAPHIC MAPPING PREPARED BY DALLAS AERIAL SURVEYS, INC. FROM AERIAL PHOTOGRAPHY FLOWN MARCH 10, 2018.

2020
REMEDATION UPGRADES

WASTE MANAGEMENT OF TEXAS, INC.
HILLSIDE RECYCLING & DISPOSAL FACILITY

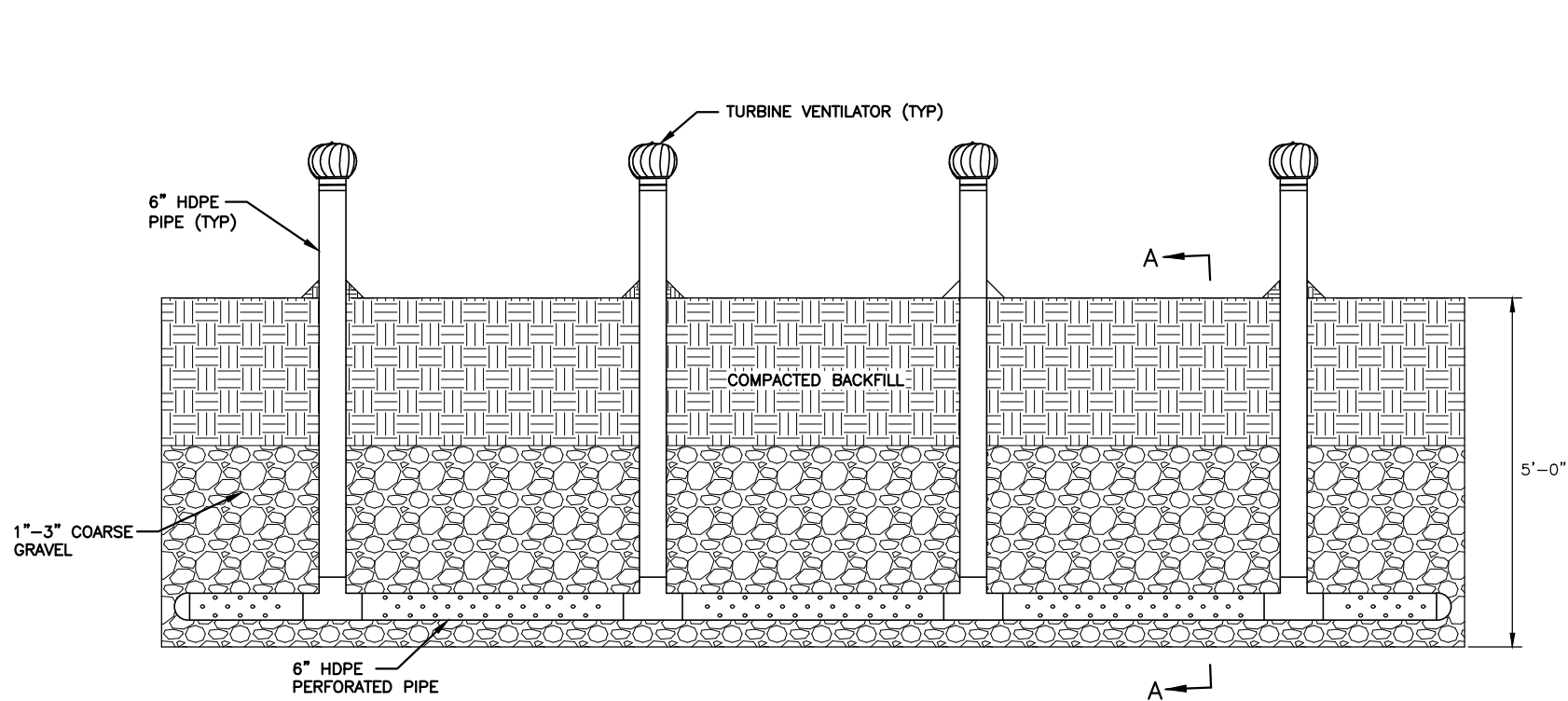


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TBPE FIRM NO. F-256		TBPG FIRM NO. 50222	
DSN. ALM	DATE : 03/2020	FIGURE 14D-6B	
DWN. SRC	SCALE : GRAPHIC		
CHK. JHP	DWG : 14D-6B_2020 Proposed.dwg		

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

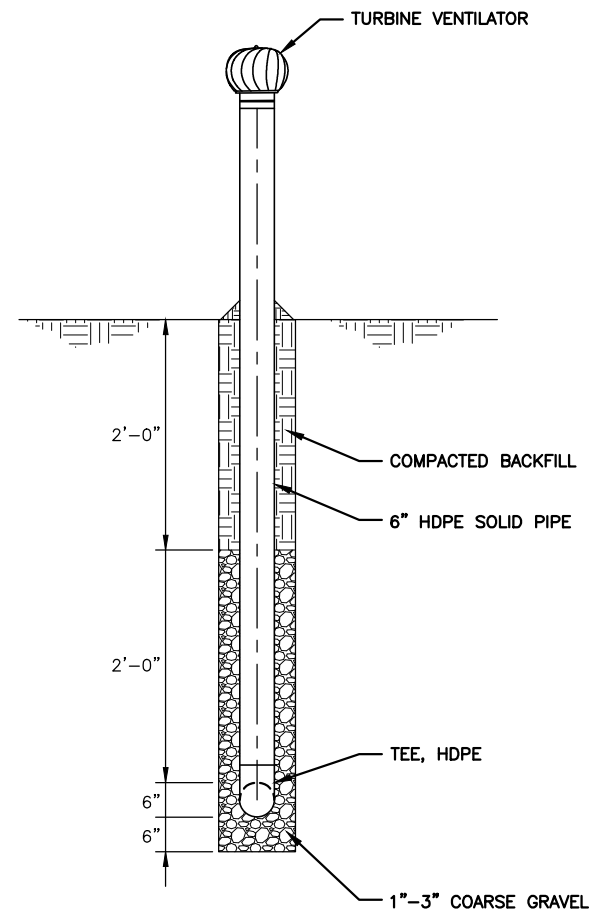
J:\101\11\901\2020 LFG\Permit Mod\14D-8_LFGTrench.dwg Layout: Layout1 User: amontgomery



PASSIVE LFG TRENCH
NTS

NOTE:

1. ALL SIZES AND DIMENSIONS ARE APPROXIMATE.



SECTION A-A
NTS

NOTE:

1. ALL SIZES AND DIMENSIONS ARE APPROXIMATE.



Austin L. Montgomery
3/17/2020

PASSIVE LFG TRENCH DETAILS

WASTE MANAGEMENT OF TEXAS, INC.
HILLSIDE RECYCLING & DISPOSAL FACILITY



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REVISIONS							TBPE FIRM NO. F-256		TBPB FIRM NO. 50222	
							DSN. ALM	DATE : 03/2020	FIGURE 14D-8	
							DWN. SRC	SCALE : GRAPHIC		
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	CHK. JHP	DWG : 14D-8_LFGTrench.dwg		

FIGURE
14D-8