



BIGGS & MATHEWS ENVIRONMENTAL

Consulting Engineers ♦ Hydrogeologists

Mansfield ♦ Wichita Falls

August 26, 2021

Chance Goodin
Manager, Municipal Solid Waste Section
MC-124
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Re: Skyline Landfill
Dallas and Ellis Counties, Texas
TCEQ Permit No. MSW 42D
Permit Modification – Waste Acceptance Rate
RN 100542232; CN 603572132

Dear Mr. Goodin:

On behalf of Waste Management of Texas, Inc., enclosed is a permit modification for the Skyline Landfill, TCEQ Permit No. MSW 42D. This permit modification has been prepared consistent with Title 30 of the Texas Administrative Code (TAC) §305.70(k). The proposed permit modification includes revisions to the Site Development Plan and Site Operating Plan to include a new waste acceptance rate. A permit modification narrative is included in this submittal.

One original and two copies of the permit modification are provided for your review and comment. Revisions have been highlighted and the revision number and date are noted on each page revised. A copy of the modification has been sent to the TCEQ Region 4 Office. A copy of this submittal was placed in the site operating record for this facility.

We believe the enclosed modification to be consistent with the requirements of the Texas Commission on Environmental Quality. Please call or e-mail me if you have any questions at 817-563-1144 or dclark@biggsandmathews.com.

Sincerely,

BIGGS & MATHEWS ENVIRONMENTAL
TBPE No. F-256 ♦ TBPB No. 50222

David L. Clark, P.E.
Principal Engineer

Attachments: Permit Modification (original and two copies)

cc: Ms. Leigh Starlin, WM Skyline LF (3)
Mr. Tony Walker, TCEQ Region 4 (1)



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

Date: 8/26/2021
 Facility Name: Western Waste of Texas Newton County Regional
 Solid Waste Complex
 Permit or Registration No.: 2242A

Nature of Correspondence:
 Initial/New
 Response/Revision*

*If Response/Revision, please provide previous TCEQ Tracking No.:
 (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 type="checkbox"/> Notice Modification	<input type="checkbox"/> Landfill Gas Monitoring
<input checked="" 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:

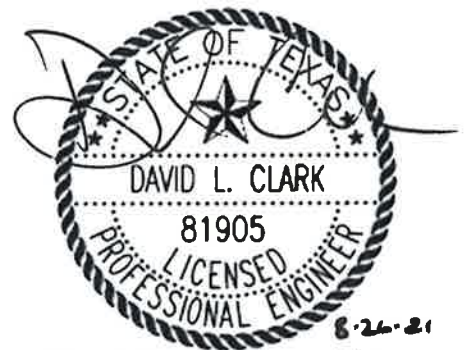
**SKYLINE LANDFILL
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT NO. MSW 42D**

**PERMIT MODIFICATION
WASTE ACCEPTANCE RATE**

Prepared for

Waste Management of Texas, Inc.

August 2021



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

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

**SKYLINE LANDFILL
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT NO. 42D**

PERMIT MODIFICATION

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ATTACHMENT 4 –TRAFFIC ANALYSIS



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

Facility Name: Skyline Landfill
Permittee/Registrant Name: Waste Management of Texas
MSW Authorization #: 42D
Initial Submittal Date: 8/26/2021
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, enter ePay Trace Number: 582EA000445644

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://biggsandmathews.com/on-line-documents/permits>

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: **Skyline Landfill**
MSW Authorization No.: **42D**
Regulated Entity Reference No.: **RN100542232**
Physical or Street Address (if available): **1201 North Central Street**
City: **Ferris** County: **Ellis** State: **Texas** Zip Code: **75215-2101**
(Area code) Telephone Number: **(972) 842-5710**
Latitude: **32°32'48.0"** Longitude: **96°39'57.4"**

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 modification is to update the maximum annual waste acceptance rate in the Site Development Plan and Site Operating Plan.**

This section is intentionally left blank; please continue to the next page.

10. Facility Contact Information

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

Customer Reference No. (if issued)*: **CN603572132**

Mailing Address: **P. O. Box 400**

City: **Ferris** County: **Ellis** State: **Texas** Zip Code: **75125-2101**

(Area Code) Telephone Number: **(972) 842-5881**

Email Address: **lstarlin@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)*: **Same as Site Operator**

(Permittee/Registrant)

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email 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, Inc.

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

Mailing Address: **1700 Robert Road, Suite 100**

City: **Mansfield** County: **Tarrant** State: **Texas** Zip Code: **76063**

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

E-Mail Address: **dclark@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, Leigh Starlin, Environmental Compliance
Manager
(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: Leigh Starlin Date: 8/26/2021

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

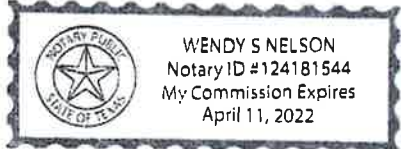
SUBSCRIBED AND SWORN to before me by the said Leigh Starlin
On this 26th day of August, 2021

My commission expires on the 11th day of April, 2022

Wendy S. Nelson
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	1
Land Ownership List	1
Marked (Redline/Strikeout) Pages	2
Unmarked Revised Pages	3

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

- Signatory Authority
- Fee Payment Receipt
- Confidential Documents
- Traffic Analysis

Permit/Registration Modification without Public Notice or TA

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

Required Attachments (for Modifications only)

Attachment No.

Marked (Redline/Strikeout) Pages

Unmarked Revised Pages

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

- Signatory Authority
- Fee Payment Receipt
- Confidential Documents

Permit/Registration Name Change/Transfer Modification

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

Required Attachments

Attachment No.

TCEQ Core Data Form(s)

Property Legal Description

Property Metes and Bounds Description

Metes and Bounds Drawings

On-Site Easements Drawing

Land Ownership List

Land Ownership Map

Property Owner Affidavit

Verification of Legal Status

Evidence of Competency

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

- Signatory Authority
- Fee Payment Receipt
- Confidential Documents
- Final Plat Record of Property, if platted
- Assumed Name Certificate

PERMIT MODIFICATION NARRATIVE

The purpose of this permit modification is to revise the currently approved waste acceptance rate in accordance with 30 TAC §330.125(h) for the Skyline Landfill, TCEQ Permit No. MSW 42D. This permit modification is prepared in response to the annual waste acceptance rate exceedance noted by summing the previous four quarterly reports ending with the 3rd Quarterly Report for FY 2021.

This permit modification has been prepared in accordance with 30 TAC §305.70(k) for permit modifications which require notice, “For those modifications requiring notice, the permittee or registrant must send notice of the modification application by first-class mail in accordance with §39.106 of this title and to all persons listed in §39.413 of this title.” The required adjacent property owner list is provided in Attachment 1 to this permit modification. The Adjacent Property Owners List identifies those property owners that are adjacent to or within ¼ mile of the permit boundary, mineral interest ownership under the facility, and the facility easement holders. The adjacent property owners identified were from Dallas and Ellis Counties Tax Appraisal District records.

This permit modification includes an updated estimated waste acceptance rate of 8,000 tons per day which is approximately 2,496,000 tons per year. The current annual waste acceptance rate of 1,717,789 tons was determined by the sum of the previous four quarterly reports. The increase in waste at the Skyline LF is not likely to be temporary as other landfill sites in the area have closed or have reduced the amount of waste accepted in anticipation of closure. Therefore, this permit modification is being submitted to increase the waste acceptance rate at the Skyline LF.

The current Site Operating Plan (SOP) already provides the operational requirements and guidance including the number and type of equipment required to manage a waste acceptance rate of up to 8,000 tons per day or approximately 2,496,000 tons of waste per year. Revisions to Part IV – Site Operating Plan, Section 2.7 – Annual Waste Acceptance Rate are included in Attachment 2 (Redline) and Attachment 3 (Clean).

Revisions to Part II, Section 2.2 – Volume and Rate of Disposal and Part III – Attachment D4 – Site Life and are provided in Attachment 2 (Redline) and Attachment 3 (Clean) . The current annual waste acceptance rate was increased to 2,496,000 tons per year (8,000 tons per day) based on operational requirements and equipment already permitted in the Site Operating Plan. Based on a 1.4 percent average annual growth rate it is estimated that there will be approximately 15 years of remaining airspace at the site.

A traffic analysis was also performed to determine whether the increase in the waste acceptance rate would have an adverse effect on local access roads and whether current traffic controls are sufficient for the projected increase. Based on the Transportation Study completed by HDR Engineering, Inc. and included as Part II, Appendix IIC of the existing permit and traffic counts from 2019 published by the North Central Texas Council of Governments, the waste volume increase will only require approximately 5.1% of the peak vehicle capacity of the most critical access road within 1 mile of the landfill entrance. The traffic analysis is included as Attachment 4.

ATTACHMENT 1

LAND OWNERSHIP MAP AND LAND OWNERSHIP LIST

Name					
1	Waste Management of TX, Inc.	PO Box 1450	Chicago	IL	60690-1450
2	Kenneth Johnson	PO Box 375	Ferris	TX	75125-0375
3	Isabel Loreda Estrada & Jesus Emanuel Loreda	3426 High Ridge Ln.	Lancaster	TX	75146-5932
4	John Stephens	1911 Williams Rd	Irving	TX	75060-3362
5	Hector C. & Minerva Perez	2614 Sleepy Hollow Ln	Lancaster	TX	75146-5900
6	Eleno Padierna	3314 Linkwood Dr	Lancaster	TX	75146-5908
7	Veronica Stewart Life Estate	3418 Linkwood Dr	Lancaster	TX	75146-5909
8	HOMY Investments LLC	3420 Linkwood Dr	Lancaster	TX	75146-5909
9	Enrique Martinez	3417 Linkwood Dr	Lancaster	TX	75146-5911
10	Rafael Silva	3421 Linkwood Dr	Lancaster	TX	75146-5911
11	Sabrina Huff	151 Lassetter Dr	Red Oak	TX	75154-5111
12	Hamid Rahmani	5428 Wedgmont Cir. North	Fort Worth	TX	76133-2643
13	Charles Edward Jones	1539 Southerland Ave	Dallas	TX	75203-4336
14	Sassin Investments, Inc.	PO Box 266	Wilmer	TX	75122-0266
15	Sassin and Sons	PO Box 266	Wilmer	TX	75122-0266
16	E. L. Smith III et al c/o Smith Trust Agency	3100 Monticello Ave #575	Dallas	TX	75205-3439
17	TX Utilities Electric Company	PO Box 139100	Dallas	TX	75313-9100
18	Union Pacific Railroad c/o Tax Department	1400 Douglas St Stop 1640	Omaha	NE	68179-1001
19	Prime Rail Interest LLC	PO Box 249	Colleyville	TX	76034-0249
20	City of Ferris	100 Town Plaza	Ferris	TX	75125-2537
21	Ferris ISD	PO Box 428	Ferris	TX	75125-0428
22	Old Brickyard Group LLC	605 N. Interstate Hwy 45	Ferris	TX	75125-1826
23	Maria Duenas	411 Webb St	Ferris	TX	75125-1730
24	BLANK LINE				
25	Juana Gandarilla	408 E. First St	Ferris	TX	75125-1725
26	Cavadian Properties LLC	7929 Brookriver Ste 350	Dallas	TX	75247
27	Arturo M Garcia & Maribel P. Hernandez	106 East 1 st St	Ferris	TX	75125
28	Sergio Salano	7225 W. Flower St	Phoenix	AZ	85033
29	Raymond Caldwell	409 N. Baker St	Ferris	TX	75125
30	Estate of John Ovalle & Victor Garcia	2250 Sara Jane Pkwy Apt 3202	Grand Prairie	TX	75051-4905
31	Ricardo Rodriguez	304 W 3rd St	Ferris	TX	75125
32	Monica Moreno	309 N Main St	Ferris	TX	75125
33	Jaime Garcia	411 N. Main St	Ferris	TX	75125
34	Jesus & Amelia De La Rosa	700 A D Mosley St	Ferris	TX	75125-1545
35	Ellis County Trustee	101 W Main St	Waxahachie	TX	75165-0405
36	Rafael & Maria Mendez	207 W 2nd St	Ferris	TX	75125
37	Michael D. Johnson	211 W 2 nd St	Ferris	TX	75125-1606
38	Maria G. Garcia	404 N Church St	Ferris	TX	75125-2107
39	Monica Moreno & Cleotilde Moreno	309 N Main St	Ferris	TX	75125
40	Jesus & Lilia Orozco	2921 Holy Cross Ln	Garland	TX	75044-4673
41	Jose Hernandez & Dora Mendez	308 A Ave	Ferris	TX	75125-1613
42	W. W. Wright Estate	8544 Foxwood Ln	Dallas	TX	75217-2057
43	Robert K. & Ofelia Grass	1375 FM 1389 N	Combine	TX	75159
44	Moises Abel & Martha Rojas	2822 McKinney Dr	Lancaster	TX	75134
45	Ophelia Johnson	515 N. Main St	Ferris	TX	75125
46	Lonnje R. & Evelyn M. Mitchell	PO Box 32	Ferris	TX	75125-0032
47	Morris G. Magness	107 Slate Rock Rd	Ennis	TX	75119-0748
48	ONCOR Electric Delivery c/o State & Local Tax Dept.	PO Box 139100	Dallas	TX	75313
49	Pinkie Yeldell	PO Box 150	Ferris	TX	75125-0150
50	Housing Authority of City of Ferris	PO Box 272	Ferris	TX	75125-0272
51	Israel & Arturo Delgado	800 Oak St	Ferris	TX	75125
52	Greater Lighthouse Church of God in Christ	707 N Wood St	Ferris	TX	75125-0305
53	Ruben Mendez & Olivia Garcia	607 N. Wood St	Ferris	TX	75125
54	Alfredo H. Morales	305 E. 7 th St	Ferris	TX	75125
55	Maria Lopez	307 Ave A	Ferris	TX	75125
56	Delorice Pates	3009 Sandra Ln	Rowlett	TX	75088-4913
57	Hilario Moreno	518 N. Wood St	Ferris	TX	75125
58	Martin & Maria Mendez	310 S Church St	Ferris	TX	75125-2536
59	Jason P. & Theresa M. Smithey	3161 FM 1446	Waxahachie	TX	75167
60	Jose Ozuna	307 W. First St	Ferris	TX	75125
61	Maria E. Ramirez	311 W. First St	Ferris	TX	75125
62	Marciano Romero et al	3770 FM 660	Ferris	TX	75125
63	Maria G Garcia	404 N Church St	Ferris	TX	75125-1615
64	Mario N. Rivas, Jr.	300 W. 1 st St	Ferris	TX	75125-1605
65	Sandra & Pete Aguinaga c/o Kay and Howard Wickliffe	301 W. 2 nd St	Ferris	TX	75125
66	Hermila & Nicolas Barajas	417 Sunflower St	Red Oak	TX	75154-1563

67	Daniel Hernandez	314 Mable St	Ferris	TX	75125
68	Manuel & Leticia Hernandez	406 N. Wood St	Ferris	TX	75125
69	Augustina C. Luna	405 N. Wood St	Ferris	TX	75125
70	Jamie Garcia Mendez	407 N. Wood St	Ferris	TX	75125
71	Manuel Saucedo	408 Ferris Ave	Ferris	TX	75125
72	Jose E & Matilda Cardenas	500 W 1st St.	Ferris	TX	75125
73	Carmen Banks	PO Box 103	Ferris	TX	75125-0103
74	Isidro Moreno & Sebastian Moreno	512 W 1 st St	Ferris	TX	75125-0623
75	Magness Cabinet Shop	645 Slate Rock Rd	Ennis	TX	75119-0748
76	Ladd Vien	1015 Ferris Ave	Waxahachie	TX	75165-2588
77	True Vine Missionary Baptist Church	618 Meadow Ridge Dr	Ferris	TX	75125-1507
78	Marvin Joe Carey	517 W. First St	Ferris	TX	75125
79	Marvin Joe & Icyrene Carey	517 W. First St	Ferris	TX	75125
80	Alice Izora Hames	505 W. First St	Ferris	TX	75125
81	Henry Bruce	2863 Marjorie Ave	Dallas	TX	75216
82	Gloria R Carbajal	509 Pecan St	Ferris	TX	75125
83	Anna C Olvera	512 A D Mosley St	Ferris	TX	75125-1541
84	Agustin Guevara & Maria A Aguillon	518 A D Mosley St	Ferris	TX	75125-1541
85	Gerardo & Francisco Vasquez	524 A D Mosley St	Ferris	TX	75125
86	Miguel Paz	231 Dew Ewing Rd	Ferris	TX	75125
87	Mario N Rivas Jr	300 W 1st St	Ferris	TX	75125-1605
88	Paul W. Jones	515 N. Main St	Ferris	TX	75125
89	Bud Carter c/o David L. Carter	317 Leads St	Dallas	TX	75203-3144
90	Artiz L. & Monica Murray	4402 Lupine Ln	Forney	TX	75126-0899
91	Jose & Leticia Hernandez	648 Maple St	Ferris	TX	75125-1551
92	Greater Johnson Chapel AME Church	517 Front St	Ferris	TX	75125
93	Gregorio & Minerva Chavez	616 Neck Rd	Ferris	TX	75125-8872
94	Marsha K Armstrong	505 Ennis Scott St	Ferris	TX	75125
95	Victor M H Mendez	304 S Mable St	Ferris	TX	75125
96	Vence Hyder	512 Ferris Rd	Ferris	TX	75125-1102
97	Matilde E Rodriguez	4445 Highland St	Lancaster	TX	75134-1423
98	Macedonia Baptist Church	509 Ferris St	Ferris	TX	75125
99	Veronica Elena Salazar & Jose Reuben Ramirez Cruz	1005 Western Hills Dr	Ferris	TX	75125
100	Paulo M. Saenz & Maria R. Vasquez Hernandez	809 Pecan St	Ferris	TX	75125
101	Jose O Hernandez DBA JH Construction	3221 NE County Rd 0200	Powell	TX	75153
102	Benjamin R Pena	620 Geller Rd	Ferris	TX	75125
103	Fermin M Najera & Francis M Mendoza	821 Pecan St	Ferris	TX	75125-1125
104	Willie & Hubert Mozwe L/E, Ellen Mathis, Sherley Banks	829 Pecan St	Ferris	TX	75125-1125
105	Aritz Lee Murray, Jr. & Evelyn Faye Murray	829 Pecan St	Ferris	TX	75125-1125
106	Lawrence & Alice F. Wiley	824 Maple St	Ferris	TX	75125-1128
107	M & M Investments & Partners, Inc.	PO Box 643	Ferris	TX	75125
108	Hilda M. Hernandez	829 Maple St	Ferris	TX	75125-1127
109	Nicolasa Maldonado	813 Maple St	Ferris	TX	75125-0428
110	Ellis County Trustee	PO Box 188	Waxahachie	TX	75168
111	Jose LG Bahena	1013 Western Hills Dr	Ferris	TX	75125
112	Peggy L. Jarvis	713 Mill Creek Rd	Lancaster	TX	75146-2836
113	George Brookins, Jr.	803 Maple St	Ferris	TX	75125-1127
114	Marian Hunter et al	8036 Olusta Dr	Dallas	TX	75217-6779
115	Jesus & Dora Y Castillo	4520 Ambassador Way	Balch Springs	TX	75180
116	Dorothy Brookins	803 N Maple St	Ferris	TX	75125-1127
117	Fulton Family Trust - Billy T Fulton Trustee	5006 FM 660	Ennis	TX	75119
118	Arturo Delgadillo	800 Oak St	Ferris	TX	75125-1100
119	Lourdes Aranjó	607 Ennis Scott St.	Ferris	TX	75125-0666
120	Michael Sims	616 Ferris Rd	Ferris	TX	75125-1104
121	Mt. Rose Primitive Baptist c/o Sharon Sims	PO Box 276	Ferris	TX	75125-1504
122	Opal M. Scott, et al c/o Mazrine Bowie	616 Ferris Rd	Ferris	TX	75125
123	Francine D rodriguez	600 Ennis Scott St	Ferris	TX	75125
124	Elmer J. & Wanda F. Holbert	604 Ash St	Ferris	TX	75125
125	Alton & Verda B. Pipkin	704 Ennis Scott St	Ferris	TX	75125-1553
126	Equity Trust Co FBO Stephen Mulvancy IRA	1221 N Oak Branch Rd	Waxahachie	TX	75167
127	Clint Rhodes	437 Whispering Willow Dr	Midlothian	TX	76065
128	God's Kingdom United Methodist Church c/o Patsy Richards	707 A D Mosley St	Ferris	TX	75125
129	Melissa Sargent	505 Meadowridge St	Ferris	TX	75125-1528
130	Catherine Berry	606 Front St	Ferris	TX	75125-1555
131	Billy Thompson	601 A D Mosley St	Ferris	TX	75125-1542
132	Robert Scott	603 W. First St	Ferris	TX	75125-1506
133	Carolina V. Alvarado	607 W. First St	Ferris	TX	75125

134	Maude Oliphant Estate	604 Short St	Ferris	TX	75125
135	Macedonia Church of God in Christ	610 A D Mosley St	Ferris	TX	75125-1543
136	Alfredo Ovalle	611 W. First St	Ferris	TX	75125-1506
137	Mable Murray Estate c/o Ruth Scott	603 W. First St	Ferris	TX	75125-1506
138	Pedro M Garcia	619 W First St	Ferris	TX	75125
139	Datrelle D. Black	708 A D Mosley St	Ferris	TX	75125
140	Patsy Richard et al	708 A D Mosley St	Ferris	TX	75125-1545
141	James Howard c/o D McKinney	2519 Club Terrace Dr	Dallas	TX	75237-2707
142	Aniceto Malpica	1237 FM 780	Ferris	TX	75125
143	West Fork Properties LLC	14902 Preston Rd #404501	Dallas	TX	75254-9105
144	Mary Patricia Hobbs	609 Ash St	Ferris	TX	75125-1514
145	Earnie B & Shryl D Scroggins	515 Lusino Ct	Grand Prairie	TX	75052
146	Efrain Franco & Maria Gomez	106 Hurst Cir	Ferris	TX	75125-9791
147	Ferris Memorial Parks, Inc.	PO Box 292	Ferris	TX	75125-0292
148	Ferris Memorial Park, Inc.	120 Magnolia St	Ferris	TX	75125-2309
149	Sandra Johnson	541 Ewing St	Ferris	TX	75125-1524
150	David Nino	533 Ewing St	Ferris	TX	75125
151	Juliet D. Rouwtt	529 Ewing St	Ferris	TX	75125-1524
152	Silvia Perez-Hernandez	525 Ewing St	Ferris	TX	75125-1524
153	Maricela S Hernandez & Claudia O Solis	521 N Ross	Mexia	TX	76667
154	Ruby Griggs	517 Ewing St	Ferris	TX	75125-1524
155	Carolyn Hollywood	513 Ewing St	Ferris	TX	75125-1524
156	Grand Homes Irrevocable Spendthrift Trust	PO Box 643	Ferris	TX	75125
157	Mack Troy Williams	505 Ewing St	Ferris	TX	75125-1524
158	Cherry J. McCray	501 Ewing St	Ferris	TX	75125-1524
159	Sherman B. & Nancy L. Swafford	432 Meadowgate Cir	Ferris	TX	75125-1402
160	Randall & Tiffany Rogers	1300 Bluff Springs	Ferris	TX	75125
161	Adam Arevalo	424 Meadowgate Cir	Ferris	TX	75125-1402
162	Troy L. Richardson	1742 Hunsucker Rd	Palmer	TX	75152
163	Jay Clews Jr	412 Meadowgate Cir	Ferris	TX	75125-1402
164	Samuel L. Green	408 Meadowgate Cir	Ferris	TX	75125-1402
165	Dewayne B. Casper	403 Meadowgate Cir	Ferris	TX	75125-1401
166	Jaime Garcia Mendez & Noelia Garcia	101 E 4th St	Ferris	TX	75125
167	Jose F Ortiz & Reyna M Mendoza	833 Oak St	Ferris	TX	75125
168	Octavio & Blanca Mendez	415 Meadowgate Cir	Ferris	TX	75125-1401
169	Juanita Mercado	PO Box 123	Ferris	TX	75125-0123
170	Balbino F Alvarez	423 Meadowgate Cir	Ferris	TX	75125-1401
171	Christopher R. Carrillo Sr.	422 McDaniel Rd	Ferris	TX	75125
172	Vincente Tinoco	431 Meadow Gate Cir	Ferris	TX	75125
173	Javier Dyal	432 Yellow Jacket Dr	Ferris	TX	75125
174	Mathew A Duran	709 E 8th St	Ferris	TX	75125
175	Paul H. Coumpy	424 Yellow Jacket Dr	Ferris	TX	75125-1416
176	Geneva G Hooper	420 Yellow Jacket Dr	Ferris	TX	75125-1416
177	Patrick & Rebekah Johnson	5251 Maggie Ln	Midlothian	TX	76065
178	Yulanda Bell	1077 Western Hills Dr	Ferris	TX	75125
179	Raul Mendez	114 Zodiak St	Ferris	TX	75125
180	Robert Earl Davis, Jr.	404 Yellow Jacket Dr	Ferris	TX	75125-1416
181	Bobby & Lois Johnson	1009 Western Hills Dr	Ferris	TX	75125-1411
182	Deborah A. Jarvis	1021 Western Hills Dr	Ferris	TX	75125-1411
183	Noe M. Hernandez	1025 Western Hills Dr	Ferris	TX	75125
184	Amy J Caldwell	1029 Western Hills Dr	Ferris	TX	75125
185	Gloria M. Coumpy	1037 Western Hills Dr	Ferris	TX	75125-1411
186	Rafael T. Villa & Nancy Trejo	1041 Western Hills Dr	Ferris	TX	75125
187	James & Monique Foster	1045 Western Hills Dr	Ferris	TX	75125-1411
188	Darlene Palmer	1049 Western Hills Dr	Ferris	TX	75125-1411
189	FKF Investment Group	PO Box 270067	Flower Mound	TX	75027
190	Kenny Caldwell & Ronny Caldwell c/o G. R. Caldwell	8542 FM 879	Palmer	TX	75152-9126
191	Julio & Celia D. Morales	1069 Western Hills Dr	Ferris	TX	75125-1411
192	Dennis E Robertson et al c/o Norris Elverton	1073 Western Hills Dr	Ferris	TX	75125-1411
193	Glenn A. Bailey	1081 Western Hills Dr	Ferris	TX	75125-1411
194	Michael Pace & Lesia Jackson	410 Rolling Hills Dr	Ferris	TX	75125-1406
195	Gilberto & Frances Gonzales	401 Rolling Hills Dr	Ferris	TX	75125-1405
196	Rene Lopez	510 E 5th St	Ferris	TX	75125
197	Marcus & Amelia Moreno	409 Rolling Hills Dr	Ferris	TX	75125-1405
198	Freddie Mae Kibble	908 Pecan St	Ferris	TX	75125
199	Abraham & Doris E Robles	512 Jennie Marie Cir	Ferris	TX	75125
200	HSM Shaw Creek Ranch II LLC	5151 Belt Line Rd Ste 900	Dallas	TX	75254

201	Mandalay Holdings, LLC	700 N. Pearl St Ste. G 208	Dallas	TX	75201
202	The Storage Place - Ferris LLC	5303 Lafayette Dr	Frisco	TX	75035
203	North TX District Council of The Assembly of God Church	PO Box 838	Waxahachie	TX	75168-0838
204	Osiel R Hernandez	516 Jennie Marie Cir	Ferris	TX	75125
205	Hector Rojas	2750 Nolan Rd	Lancaster	TX	75146
206	Blanca Borrego	1905 Christopher Dr	Fort Worth	TX	76140
207	Arcadio Mendez	404 E 8 th St	Ferris	TX	75125-2708
208	KCT Holdings LLC	104 E Ovilla Rd #507	Red Oak	TX	75154
209	Rubisela Chavez-Garcia	516 W 1st St	Ferris	TX	75125
210	J. Cruz & Raquel Garcia	711 Ferris Rd	Ferris	TX	75125-1105
211	Erik J Rivas	101 Mars Rd	Wilmer	TX	75172
212	Erica C. Avila	1229 Powell Rd	Mesquite	TX	75149
213	Newell Properties LLC	415 Ewing Blvd	Ferris	TX	75125
214	Sharon M Scott	28201 NE 9th St	Camas	WA	98607
215	Jess Ochoa	1233 Meadow Creek Dr	Lancaster	TX	75146
216	Hermanos RMZ Construction LLC	347 Royal Ave	Duncanville	TX	75137
217	Delphine Pringle	1302 S Cardinal St Apt B	Ennis	TX	75119-2001
218	Adriana Solis	700 Ferris Rd	Ferris	TX	75125
219	Gehu & Teresa Gonzalez	989 Bluffsprings	Ferris	TX	75125
220	Ferris Western Hills LLC	620 Rowlett Rd	Omaha	NE	68104-1129
221	Margena Green & Jazmine Wade	8338 Iris St	Oakland	CA	94605-3464
222	Steve Christian	134 Youngblood Rd	Waxahachie	TX	75165
223	Jose P Flores	1001 Western Hills Dr	Ferris	TX	75125
224	Latisha Turner	600 A D Mosley St	Ferris	TX	75125
225	Arcadic & Victor Mendez	826 Ash St	Ferris	TX	75125
226	Elizabeth Moya	710 Genoa Ave	Waxahachie	TX	75216
227	Amber N & Uriel Garcia	812 Ash St	Ferris	TX	75125
228	Willie L McClain	715 Ferris Rd	Ferris	TX	75125
229	Delphine P Foster	412 Summertree Dr	Hutchins	TX	75141
230	Leydi E Solorio	2510 N Hwy 175 Trlr 713	Seagoville	TX	75159
231	Gloria Leon	11040 Delford Cir	Dallas	TX	75228
232	Jaimie Castro-Gonzalez	119 Odell St	Hutchins	TX	75141
233	Jose C Gallegos	1440 Johns Ave	Lancaster	TX	75134
234	Bridge Homes LLC	1001 Dalworth Dr	Mesquite	TX	75149
235	Marisol C Salazar	1542 Cherry St	Noblesville	IN	46060
236	Escalante Granite Inc	224 Nocone Dr	Waxahachie	TX	75165
237	Yilda Garibay & Anthony Kroeung	514 W 1st St	Ferris	TX	75125
238	Pedro & Laura C Moreno	1528 FM 664	Ferris	TX	75125-8425
239	Roy Romo	1017 Western Hills Dr	Ferris	TX	75125
240	Cynthia L & Christopher J Gutierrez	1061 Western Hills Dr	Ferris	TX	75125
241	Yesica Ruiz & Omar Hernandez	1065 Western Hills Dr	Ferris	TX	75125
242	Evander & Elsis Flores	406 Rolling Hills Dr	Ferris	TX	75125
243	Jorge A Castillo Cruz	408 Rolling Hills Dr	Ferris	TX	75125
244	Pace Custom Homes 1 Inc	1001 Brigham Dr	Ferris	TX	75125
245	Jose M Vargas	1098 Western Hills Dr	Ferris	TX	75125
246	Nina Holland-Johnson & Kennard Johnson	1096 Western Hills Dr	Ferris	TX	75125
247	Leslie E Boyanoski	1094 Western Hills Dr	Ferris	TX	75125
248	Calixto O & Luz M Rodriguez	1092 Western Hills Dr	Ferris	TX	75125
249	Taylor Fuentes & Oscar Villafranca Jr	1090 Western Hills Dr	Ferris	TX	75125
250	Jose DeJesus Pintor	1312 Eagle Rock Rd, Lot 97	Dallas	TX	75253

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- LEGEND**
- PERMIT BOUNDARY
 - EXISTING LANDFILL FOOTPRINT
 - PROPOSED LANDFILL FOOTPRINT
 - COUNTY LINE
 - ① LAND OWNERSHIP IDENTIFICATION
 - LAND OWNED BY WASTE MANAGEMENT

NOTES:

1. REFER TO LAND OWNERS LIST ON PAGE IB-1 THROUGH IB-12 FOR ADJACENT LAND OWNER LIST.
2. ADJACENT LAND OWNERS IN DALLAS COUNTY BASED ON DALLAS COUNTY APPRAISAL DISTRICT ONLINE RECORDS FROM DCAD WEBSITE ON AUGUST 24, 2021. ADJACENT LAND OWNERS IN ELLIS COUNTY BASED ON ELLIS COUNTY APPRAISAL DISTRICT ONLINE RECORDS WEBSITE ON AUGUST 24, 2021.
3. LAND OWNERS HAVE BEEN IDENTIFIED ADJACENT TO AND WITHIN 1/4 MILE OF THE PERMIT BOUNDARY.



LAND OWNERSHIP MAP
WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL
MAJOR PERMIT AMENDMENT



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

ISSUED FOR PERMITTING PURPOSES ONLY

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

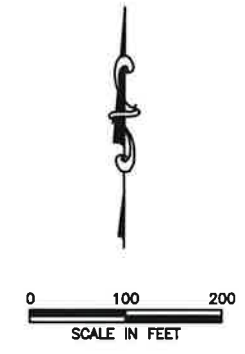
TBPE FIRM NO. F-256		TBPG FIRM NO. 50222	
DSN. DLC	DATE : 08/2021	FIGURE	
DWN. SRC	SCALE : GRAPHIC	IB.1	
CHK. DLC	DWG : PropertyOwners_08-2021.dwg		



SEE DRAWING 1B.2

SEE DRAWING 1B.3

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LEGEND

PERMIT BOUNDARY

1 LAND OWNERSHIP IDENTIFICATION

LAND OWNED BY WASTE MANAGEMENT

- NOTES:**
- REFER TO LAND OWNERS LIST ON PAGE IB-1 THROUGH IB-12 FOR ADJACENT LAND OWNER LIST.
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LAND OWNERSHIP MAP

WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL
MAJOR PERMIT AMENDMENT



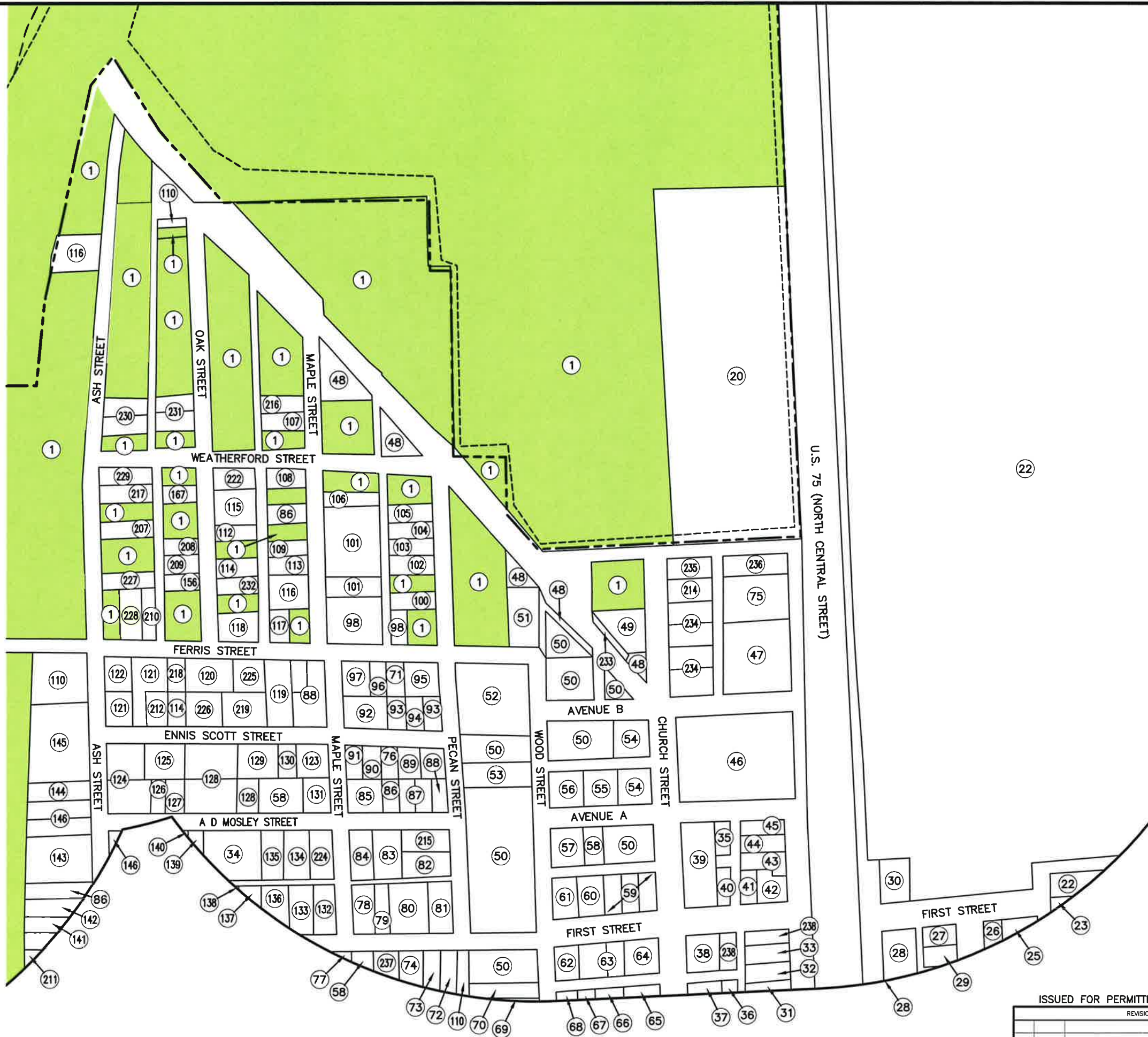
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REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	FIGURE
							IB.2

DSN. DLC DATE : 08/2021
 DWN. SRC SCALE : GRAPHIC
 CHK. DLC DWG : PropertyOwners_08-2021.dwg

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LEGEND

- PERMIT BOUNDARY
- · - · - EXISTING LANDFILL FOOTPRINT
- - - - - PROPOSED LANDFILL FOOTPRINT
- ① LAND OWNERSHIP IDENTIFICATION
- LAND OWNED BY WASTE MANAGEMENT

NOTES:

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LAND OWNERSHIP MAP

WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL
MAJOR PERMIT AMENDMENT

BIGGS & MATHEWS
 ENVIRONMENTAL
 CONSULTING ENGINEERS

MANFIELD • WICHITA FALLS
 817-563-1144

ISSUED FOR PERMITTING PURPOSES ONLY

REVISIONS		TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY DES BY CHK BY APP BY

FIGURE
IB.3

ATTACHMENT 2

MARKED (REDLINE/STRIKEOUT) PAGES

**SKYLINE LANDFILL
CITY OF FERRIS
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT NO. MSW 42D**

PERMIT AMENDMENT APPLICATION

**PART II
EXISTING CONDITIONS AND
CHARACTER OF THE FACILITY AND SURROUNDING AREA**

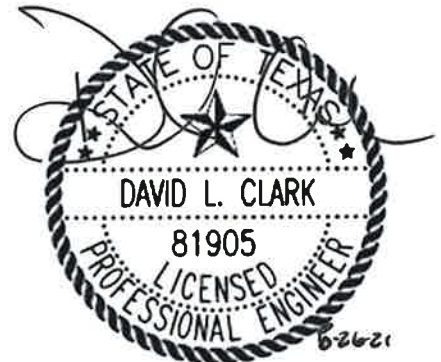
Prepared for

Waste Management of Texas, Inc.

April 2012
Revised August 2012
Revised July 2014
Revised January 2015

Technically Complete April 2, 2015

Revised August 2021



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

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

2 WASTE ACCEPTANCE PLAN

30 TAC §330.61(b)

2.1 Properties and Characteristics of Waste

The major classifications of solid waste to be accepted at the Skyline Landfill include municipal solid waste, special waste in accordance with §330.171, and Class 2 and 3 industrial wastes in accordance with §330.173. Included among these are wastes resulting from or incidental to municipal, community, commercial, institutional and recreational activities, including putrescible wastes, rubbish, ashes, brush, construction-demolition debris, and inert material. Regulated asbestos containing material (RACM) and non-regulated asbestos containing material (non-RACM) will be accepted for disposal. Petroleum contaminated soil is accepted and treated in accordance with the approved bioremediation treatment pad as authorized by TCEQ. Industrial nonhazardous wastes in Class 2 and 3 are also accepted at the facility.

The facility has not in the past accepted, and will not accept, Class 1 industrial solid waste, except RACM that has been designated Class 1 industrial waste only because of its asbestos content. There are no existing Class 1 cells at the facility.

Consistent with §330.15, the facility will not accept for disposal lead acid storage batteries; used motor vehicle oil; used oil filters; whole used or scrap tires; refrigerators, freezers, air conditioners or other items containing chlorinated fluorocarbon (CFC); bulk or noncontainerized liquid waste from nonhousehold sources; regulated hazardous waste; polychlorinated biphenyls (PCB) waste; radioactive materials; or other wastes prohibited by TCEQ regulations.

2.2 Volume and Rate of Disposal

The Skyline Landfill serves individuals, businesses, and communities in Dallas and Ellis Counties and surrounding Texas counties. The landfill receives approximately ~~1,040,000~~1,718,000 tons of incoming waste annually (approximately ~~3,335.506~~ tons per day). The waste acceptance rate will vary over the life of the facility depending on market conditions.

The estimated maximum annual waste acceptance rate for the Skyline Landfill projected for five years is as follows:

Year	Estimated Maximum Annual Waste Acceptance Rate
1	1,040,000 <u>1,718,000</u> tons
2	1,054,560 <u>1,742,052</u> tons
3	1,069,324 <u>1,766,441</u> tons
4	1,084,294 <u>1,791,171</u> tons
5	1,099,474 <u>1,816,247</u> tons

As population and economic conditions and available landfill disposal capacity change within the region, the volume of incoming waste could vary considerably. WMTX will maintain records to document the annual waste acceptance rate for the facility. If the rate exceeds the estimated rate and is not due to a temporary occurrence, WMTX will file a permit modification application consistent with §330.125(h). The modification would propose any needed changes in the site operating plan to properly manage the increased waste acceptance rate. Consistent with §330.125(h), the executive director may require permit conditions that are different from or absent in the existing permit, due to the increased waste acceptance rate. As provided by §330.125(h), the estimated waste acceptance rate is not a limiting parameter of the permit.

Based on the aerial survey flown March 4, 2012, the Skyline Landfill under MSW Permit No. 42C has a total remaining waste disposal volume/capacity of approximately 32,879,000 cubic yards of waste and daily cover. Once expanded, the Skyline Landfill under MSW Permit No. 42D will have a total remaining waste disposal volume/capacity of approximately 53,505,000 cubic yards of waste and daily cover (or approximately 41,198,850 tons). Under current MSW Permit No. 42C, the Skyline Landfill has a total disposal volume including waste and daily cover of 59,974,000 cubic yards. Under proposed MSW Permit No. 42D, the Skyline Landfill will have a total disposal volume including waste and daily cover of 80,600,000 cubic yards.

The TCEQ defines population equivalent as "the hypothetical population that would generate an amount of solid waste equivalent to that actually being managed based on a generation rate of five pounds per capita per day and applied to situations involving solid waste not necessarily generated by individuals." Based on this definition, the approximate population equivalents of the areas capable of being served were calculated as follows:

Incoming Waste Annual Average = <u>3,3335,506</u> tons/day	$\frac{6 \text{ days}}{\text{week}}$	X	$\frac{52 \text{ weeks}}{\text{year}}$	= <u>1,040,0001,718.000</u> tons/year
Population Equivalent: <u>20122021</u>			<u>20442035</u>	
= <u>1,040,0001,718.000</u> tons/year			= <u>1,600,3312,496.000</u> tons/year	
+ 365 days/year			+ 365 days/year	
x 2,000 lb/ton			x 2,000 lb/ton	
+ 5 lb/person/day			+ 5 lb/person/day	
= <u>1,139,7261,882.740</u> persons			= <u>1,753,7872,735.342</u> persons	

The Skyline Landfill (42C) receives approximately 1,040,0001,718.000 tons of waste annually (about 3,3335.506 tons per day). The facility accepts waste the equivalent of six days per week (approximately 312 days per year). The landfill projects that the waste acceptance rate will increase at an annual rate of 1.4 percent for the life of the facility based on the North Central Texas Council of Governments' population

projections for the combined population of Dallas and Ellis counties resulting in an anticipated maximum waste acceptance rate of 5,1298,000 tons per day. Refer to Part III, Attachment D4 – Site Life for the capacity and site life calculations and projections.

Facility Operating Hours

The existing Skyline Landfill (Permit No. MSW 42C) is authorized for waste acceptance between the hours of 5:00 a.m. and 7:00 p.m. Monday through Friday, and 5:00 a.m. through 3:00 p.m. on Saturday. The facility is closed on Sunday. The existing Skyline Landfill (42C) is authorized for site operations (i.e., transportation of materials and heavy equipment operation) between the hours of 3:00 a.m. and 9:00 p.m. Monday through Friday, and 3:00 a.m. and 5:00 p.m. on Saturday.

With the expansion of the Skyline Landfill (Permit No. MSW 42D), the facility's operating hours are proposed to increase. The Skyline Landfill (42D) proposes authorization for waste acceptance 24 hours per day, Monday through Friday, and until 3:00 p.m. on Saturday. The facility will post on the site entrance sign the hours for waste acceptance from public and private haulers. The Skyline Landfill also proposes to increase site operations (i.e. transportation of materials and heavy equipment operation) to 24 hours per day, 7 days per week.

**SKYLINE LANDFILL
CITY OF FERRIS
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 42D**

PERMIT AMENDMENT APPLICATION

**PART III – FACILITY INVESTIGATION AND DESIGN
ATTACHMENT D4
SITE LIFE**

Prepared for

Waste Management of Texas, Inc.

Technically Complete April 2, 2015

Revised August 2021



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

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



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256
30 TAC §330.63(d)(4)(D)

CONTENTS

1	SITE LIFE	D4-1
1.1	Solid Waste Generation	D4-1
1.2	Airspace Utilization.....	D4-1
1.3	Landfill Capacity.....	D4-1
1.4	Site Life Calculations.....	D4-1

TABLES AND CALCULATION SHEETS

Airspace Estimate.....	D4-2
Capacity and Site Life.....	D4-3

1 SITE LIFE

1.1 Solid Waste Generation

The Skyline Landfill accepts waste generated in Dallas and Ellis Counties, Texas, and surrounding areas. The Skyline Landfill has been designed to continue to provide disposal capacity for waste generated from the areas identified as well as other neighboring counties. The Skyline Landfill receives approximately ~~1,040,000~~1,718,000 tons of waste annually (about ~~3,333~~5506 tons per day). The facility accepts waste the equivalent of six days per week (approximately 312 days per year). The landfill projects that the waste acceptance rate will increase at an annual rate of 1.4 percent for the life of the facility based on North Central Texas Council of Governments' population projections for the combined population of Dallas and Ellis counties. The site Operating Plan provides for equipment and personnel to accept up to 8,000 tons per day or approximately 2,496,000 tons of waste annually.

1.2 Airspace Utilization

An airspace utilization factor (ratio of tons disposed to in place cubic yard volume) of 0.77 will be used to calculate the projected site life based on the approximate volume available for deposition of solid waste. The airspace utilization factor is based on previous performance at the facility.

1.3 Landfill Capacity

~~The total landfill capacity is defined as the volume between the liner and the final cover, and was 80,600,000 cubic yards (cy) estimated using previous permit documentation and TerraModel computer software. A summary of the quantity of existing and remaining airspace in each of the waste fill areas is included in Attachment H.~~ The total remaining landfill disposal capacity is approximately ~~53,505,000~~38,206,327 (cy) of waste and daily cover as of August 31, 2020, based on the ~~March 4, 2012 aerial topography~~FY2020 Annual Waste Report. The remaining capacity is primarily located in Phases 1 through 3 areas of the site. Phase 5 has a nominal amount of remaining capacity and will be used as an emergency wet-weather area.

1.4 Site Life Calculations

The capacity for solid waste in tons was calculated by multiplying the airspace utilization factor of 0.77 by the remaining solid waste capacity (cubic yards). The remaining solid waste capacity for the site is approximately ~~41,198,850~~29,418,372 tons.

The proposed (42D) site will reach its approximate waste capacity of ~~41,198,850 tons~~ in approximately ~~32~~15 years based on the increasing waste acceptance rate.

Skyline Landfill AIRSPACE ESTIMATE

Required: Calculate the total remaining landfill capacity using TerraModel software.

Solution:

SURFACE TO SURFACE VOLUME REPORT

Biggs and Mathews Environmental
1700 Robert Road, Suite 100
Mansfield, TX 76063
817-563-1144

Project: H:\Projects\Skyline\Expansion model.pro
Report Generated: Wednesday, April 04, 2012 9:55:33 AM

Where the second surface is above the first the volume is reported as fill.
Where the second surface is below the first the volume is reported as
excavation.

Shrinkage/swell factors:	Excavation	1.0000	Fill	1.0000
First Surface Layer Name	Number of Points	Second Surface Layer Name	Number of Points	
DTM_P-COVER	1,258	DTM_3-4-12_EG	87,991	

Volume limited to that within the constraining boundary - Object 114090
Area within boundary: 6,116,685.68 Sq. Ft. (140.4198 Acres)
Total triangulated area: 6,292,391.66 Sq. Ft. (144.4534 Acres)

Excavation Volume (Cu. Yd.)	Fill Volume (Cu. Yd.)
----- 1,385.8	----- 20,627,805.8

Net Difference: 20,626,419.9 Cu. Yd. Borrow

**Existing In-place waste and daily/interim cover in Phase 1 and 2:
(As of 3-4-2012)**

20,626,000 CY

Total airspace for site: 74,131,000 CY

Remaining airspace for site as of 3-4-2012: 74,131,000 - 20,626,000 = 53,505,000 CY

Skyline Landfill CAPACITY AND SITE LIFE

Required: Estimate the remaining site life for the proposed configuration.

Assumptions:

1. The waste acceptance rate will increase at an annual rate of 1.4%.
2. Beginning Waste Accepted = 1,040,000 tons
3. Airspace Utilization Factor = 0.77
4. The facility accepts waste 312 days per year (6 days a week).

Solution:

AUF:	0.77	Total remaining waste volume =	53,505,000 cy
Year 1 Waste:	1,040,000 tons	Total remaining waste tonnage =	41,198,850 tons
Days Operating	312		

Year	Annual Waste (tons)	Daily Waste (tons/day)	Accumulated Waste (tons)	Remaining Capacity (tons)	Annual Waste (cy)	Accumulated Waste (cy)	Remaining Capacity (cy)
1	1,040,000	3,333	1,040,000	40,158,850	1,350,649	1,350,649	52,154,351
2	1,054,560	3,380	2,094,560	39,104,290	1,369,558	2,720,208	50,784,792
3	1,069,324	3,427	3,163,884	38,034,866	1,388,732	4,108,940	49,396,060
4	1,084,294	3,475	4,248,178	36,950,672	1,408,175	5,517,115	47,987,885
5	1,099,474	3,524	5,347,653	35,851,197	1,427,889	6,945,004	46,559,996
6	1,114,867	3,573	6,462,520	34,736,330	1,447,879	8,392,883	45,112,117
7	1,130,475	3,623	7,592,995	33,605,855	1,468,150	9,861,033	43,643,967
8	1,146,302	3,674	8,739,297	32,459,553	1,488,704	11,349,736	42,155,264
9	1,162,350	3,725	9,901,647	31,297,203	1,509,546	12,859,282	40,645,718
10	1,178,623	3,778	11,080,270	30,118,580	1,530,679	14,389,961	39,115,039
11	1,195,124	3,831	12,275,394	28,923,456	1,552,109	15,942,070	37,562,930
12	1,211,856	3,884	13,487,250	27,711,600	1,573,838	17,515,909	35,989,091
13	1,228,821	3,939	14,716,071	26,482,779	1,595,872	19,111,781	34,393,219
14	1,246,025	3,994	15,962,096	25,236,754	1,618,214	20,729,995	32,775,005
15	1,263,469	4,050	17,225,565	23,973,285	1,640,869	22,370,864	31,134,136
16	1,281,158	4,106	18,506,723	22,692,127	1,663,841	24,034,706	29,470,294
17	1,299,094	4,164	19,805,817	21,393,033	1,687,135	25,721,841	27,783,159
18	1,317,281	4,222	21,123,099	20,075,751	1,710,755	27,432,596	26,072,404
19	1,335,723	4,281	22,458,822	18,740,028	1,734,706	29,167,302	24,337,698
20	1,354,424	4,341	23,813,246	17,385,604	1,758,992	30,926,293	22,578,707
21	1,373,385	4,402	25,186,631	16,012,219	1,783,617	32,709,911	20,795,089
22	1,392,613	4,464	26,579,244	14,619,606	1,808,588	34,518,499	18,986,501
23	1,412,109	4,526	27,991,353	13,207,497	1,833,908	36,352,407	17,152,593
24	1,431,879	4,589	29,423,232	11,775,618	1,859,583	38,211,990	15,293,010
25	1,451,925	4,654	30,875,158	10,323,692	1,885,617	40,097,607	13,407,393
26	1,472,252	4,719	32,347,410	8,851,440	1,912,016	42,009,623	11,495,377
27	1,492,864	4,785	33,840,274	7,358,576	1,938,784	43,948,407	9,556,593
28	1,513,764	4,852	35,354,037	5,844,813	1,965,927	45,914,334	7,590,666
29	1,534,957	4,920	36,888,994	4,309,856	1,993,450	47,907,784	5,597,216
30	1,556,446	4,989	38,445,440	2,753,410	2,021,358	49,929,143	3,575,857
31	1,578,236	5,058	40,023,676	1,175,174	2,049,657	51,978,800	1,526,200
32	1,600,331	5,129	41,624,008	-425,158	2,078,353	54,057,153	-52,153

Skyline Landfill CAPACITY AND SITE LIFE

Required: Estimate the remaining site life for the proposed configuration.

Assumptions:

1. The waste acceptance rate will increase at an annual rate of 1.4%.
2. Beginning Waste Accepted = 1,718,000 tons
3. Airspace Utilization Factor = 0.77
4. The facility accepts waste 312 days per year (6 days a week).
5. Remaining waste volume and tonnage based on FY 2020 MSW Annual Report assessment as of 8-31-2020

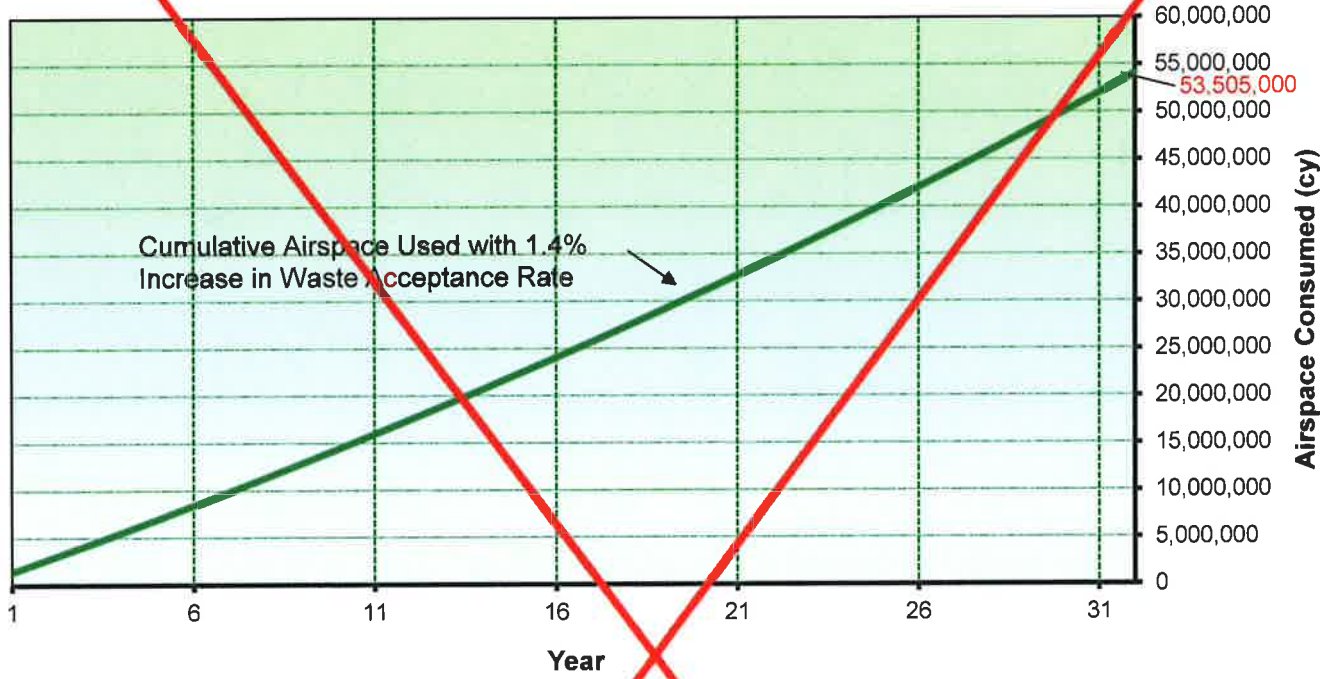
Solution:

AUF:	0.77	Total remaining waste volume =	38,206,327 cy
Year 1 Waste:	1,718,000 tons	Total remaining waste tonnage =	29,418,872 tons
Days Operating	312		

Year	Annual Waste (tons)	Daily Waste (tons/day)	Accumulated Waste (tons)	Remaining Capacity (tons)	Annual Waste (cy)	Accumulated Waste (cy)	Remaining Capacity (cy)
1	1,718,000	5,506	1,718,000	27,700,872	2,231,169	2,231,169	35,975,158
2	1,742,052	5,584	3,460,052	25,958,820	2,262,405	4,493,574	33,712,753
3	1,766,441	5,662	5,226,493	24,192,379	2,294,079	6,787,653	31,418,674
4	1,791,171	5,741	7,017,664	22,401,208	2,326,196	9,113,849	29,092,478
5	1,816,247	5,821	8,833,911	20,584,961	2,358,763	11,472,612	26,733,715
6	1,841,675	5,903	10,675,586	18,743,286	2,391,785	13,864,397	24,341,930
7	1,867,458	5,985	12,543,044	16,875,828	2,425,270	16,289,667	21,916,660
8	1,893,603	6,069	14,436,646	14,982,225	2,459,224	18,748,892	19,457,435
9	1,920,113	6,154	16,356,760	13,062,112	2,493,653	21,242,545	16,963,782
10	1,946,995	6,240	18,303,754	11,115,118	2,528,564	23,771,109	14,435,218
11	1,974,253	6,328	20,278,007	9,140,865	2,563,964	26,335,074	11,871,253
12	2,001,892	6,416	22,279,899	7,138,973	2,599,860	28,934,934	9,271,393
13	2,029,919	6,506	24,309,817	5,109,054	2,636,258	31,571,191	6,635,136
14	2,058,337	6,597	26,368,155	3,050,717	2,673,166	34,244,357	3,961,970
15	2,087,154	6,690	28,455,309	963,563	2,710,590	36,954,947	1,251,380
16	2,116,374	6,783	30,571,683	-1,152,812	2,748,538	39,703,485	-1,497,158

Skyline Landfill CAPACITY AND SITE LIFE

Airspace Consumption



**SKYLINE LANDFILL
CITY OF FERRIS
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT NO. MSW 42D**

PERMIT AMENDMENT APPLICATION

PART IV – SITE OPERATING PLAN

Prepared for

Waste Management of Texas, Inc.

Technically Complete April 2, 2015

Permit Issued June 9, 2015
Revised April 2016
Revised October 2016
Revised November 2016
Revised January 2017
Revised October 2019
Revised July 2021

Revised August 2021



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

Prepared by

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FIRM REGISTRATION No. 50222

with Section 3 – Personnel and Training of this SOP. Personnel training records for facility personnel will be maintained until closure of the facility. Records of former employees will be maintained for three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within Waste Management. Records for each facility employee will include name, job title, job description, introductory training, continuing training, and documentation of training. In accordance with §330.125(f), the facility will maintain personnel operator licenses as required by 30 TAC Chapter 30 Subchapter F, relating to municipal solid waste facility supervisors. Personnel training records and personnel operator licenses will be maintained in the site operating record as listed in Table 2-1.

2.6 Alternative Schedules

In accordance with §330.125(g), the executive director may set alternative schedules for recordkeeping and notification requirements as specified in §330.125(a)-(f), except for notification requirements contained in §330.545.

2.7 Annual Waste Acceptance Rate

As listed in Table 2-1, the Skyline Landfill will maintain as part of the site operating record documentation of the annual waste acceptance rate for the facility in accordance with §330.125(h). Records will include maintaining the quarterly solid waste summary reports and the annual solid waste summary report as required by §330.675. The annual waste acceptance rate, as established by the sum of the previous four quarterly summary reports, will be evaluated by the Skyline Landfill to determine if the waste acceptance rate exceeds the rate estimated in the permit application. Should an increase in waste acceptance be established, the facility will determine if the increase is due to a temporary occurrence. Should the waste acceptance rate exceed that established in the permit application, and not be due to a temporary occurrence, a permit modification would be prepared and filed within 90 days of the exceedance in accordance with then applicable TCEQ regulations to propose changes, if necessary, to manage the increased waste acceptance rate to protect human health and the environment. An increase in the waste acceptance rate that is determined to be a temporary occurrence does not require the submittal of a permit modification. This section is not intended to make an estimated waste acceptance rate a limiting parameter of the permit.

~~The Skyline Landfill has a waste acceptance rate of 1,040,000 tons per year or about 3,333 tons per day. Based on projected waste acceptance rates, the landfill estimates that the maximum waste acceptance rate will reach 1,600,331 tons per year or about 5,129 tons per day.~~ This SOP includes provisions for accommodating waste receipts of up to 2,496,000 tons per year or about 8,000 tons per day.

ATTACHMENT 3

Unmarked Revised Pages

**SKYLINE LANDFILL
CITY OF FERRIS
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT NO. MSW 42D**

PERMIT AMENDMENT APPLICATION

**PART II
EXISTING CONDITIONS AND
CHARACTER OF THE FACILITY AND SURROUNDING AREA**

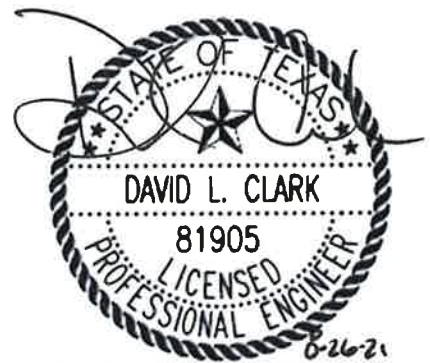
Prepared for

Waste Management of Texas, Inc.

April 2012
Revised August 2012
Revised July 2014
Revised January 2015

Technically Complete April 2, 2015

Revised August 2021



Biggs & Mathews Environmental, Inc.
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2 WASTE ACCEPTANCE PLAN

30 TAC §330.61(b)

2.1 Properties and Characteristics of Waste

The major classifications of solid waste to be accepted at the Skyline Landfill include municipal solid waste, special waste in accordance with §330.171, and Class 2 and 3 industrial wastes in accordance with §330.173. Included among these are wastes resulting from or incidental to municipal, community, commercial, institutional and recreational activities, including putrescible wastes, rubbish, ashes, brush, construction-demolition debris, and inert material. Regulated asbestos containing material (RACM) and non-regulated asbestos containing material (non-RACM) will be accepted for disposal. Petroleum contaminated soil is accepted and treated in accordance with the approved bioremediation treatment pad as authorized by TCEQ. Industrial nonhazardous wastes in Class 2 and 3 are also accepted at the facility.

The facility has not in the past accepted, and will not accept, Class 1 industrial solid waste, except RACM that has been designated Class 1 industrial waste only because of its asbestos content. There are no existing Class 1 cells at the facility.

Consistent with §330.15, the facility will not accept for disposal lead acid storage batteries; used motor vehicle oil; used oil filters; whole used or scrap tires; refrigerators, freezers, air conditioners or other items containing chlorinated fluorocarbon (CFC); bulk or noncontainerized liquid waste from nonhousehold sources; regulated hazardous waste; polychlorinated biphenyls (PCB) waste; radioactive materials; or other wastes prohibited by TCEQ regulations.

2.2 Volume and Rate of Disposal

The Skyline Landfill serves individuals, businesses, and communities in Dallas and Ellis Counties and surrounding Texas counties. The landfill receives approximately 1,718,000 tons of incoming waste annually (approximately 5,506 tons per day). The waste acceptance rate will vary over the life of the facility depending on market conditions.

The estimated maximum annual waste acceptance rate for the Skyline Landfill projected for five years is as follows:

Year	Estimated Maximum Annual Waste Acceptance Rate
1	1,718,000 tons
2	1,742,052 tons
3	1,766,441 tons
4	1,791,171 tons
5	1,816,247 tons

As population and economic conditions and available landfill disposal capacity change within the region, the volume of incoming waste could vary considerably. WMTX will maintain records to document the annual waste acceptance rate for the facility. If the rate exceeds the estimated rate and is not due to a temporary occurrence, WMTX will file a permit modification application consistent with §330.125(h). The modification would propose any needed changes in the site operating plan to properly manage the increased waste acceptance rate. Consistent with §330.125(h), the executive director may require permit conditions that are different from or absent in the existing permit, due to the increased waste acceptance rate. As provided by §330.125(h), the estimated waste acceptance rate is not a limiting parameter of the permit.

Based on the aerial survey flown March 4, 2012, the Skyline Landfill under MSW Permit No. 42C has a total remaining waste disposal volume/capacity of approximately 32,879,000 cubic yards of waste and daily cover. Once expanded, the Skyline Landfill under MSW Permit No. 42D will have a total remaining waste disposal volume/capacity of approximately 53,505,000 cubic yards of waste and daily cover (or approximately 41,198,850 tons). Under current MSW Permit No. 42C, the Skyline Landfill has a total disposal volume including waste and daily cover of 59,974,000 cubic yards. Under proposed MSW Permit No. 42D, the Skyline Landfill will have a total disposal volume including waste and daily cover of 80,600,000 cubic yards.

The TCEQ defines population equivalent as "the hypothetical population that would generate an amount of solid waste equivalent to that actually being managed based on a generation rate of five pounds per capita per day and applied to situations involving solid waste not necessarily generated by individuals." Based on this definition, the approximate population equivalents of the areas capable of being served were calculated as follows:

Incoming Waste Annual Average = 5,506 tons/day	$\frac{6 \text{ days}}{\text{week}}$	X	$\frac{52 \text{ weeks}}{\text{year}}$	= 1,718,000 tons/year
Population Equivalent:	<u>2021</u>		<u>2035</u>	
	= 1,718,000 tons/year		= 2,496,000 tons/year	
	+ 365 days/year		+ 365 days/year	
	x 2,000 lb/ton		x 2,000 lb/ton	
	+ 5 lb/person/day		+ 5 lb/person/day	
	= 1,882,740 persons		= 2,735,342 persons	

The Skyline Landfill (42C) receives approximately 1,718,000 tons of waste annually (about 5,506 tons per day). The facility accepts waste the equivalent of six days per week (approximately 312 days per year). The landfill projects that the waste acceptance rate will increase at an annual rate of 1.4 percent for the life of the facility based on the North Central Texas Council of Governments' population projections for the combined population of Dallas and Ellis counties resulting in an anticipated maximum waste acceptance rate of 8,000 tons per day. Refer to Part III, Attachment D4 – Site Life for the capacity and site life calculations and projections.

Facility Operating Hours

The existing Skyline Landfill (Permit No. MSW 42C) is authorized for waste acceptance between the hours of 5:00 a.m. and 7:00 p.m. Monday through Friday, and 5:00 a.m. through 3:00 p.m. on Saturday. The facility is closed on Sunday. The existing Skyline Landfill (42C) is authorized for site operations (i.e., transportation of materials and heavy equipment operation) between the hours of 3:00 a.m. and 9:00 p.m. Monday through Friday, and 3:00 a.m. and 5:00 p.m. on Saturday.

With the expansion of the Skyline Landfill (Permit No. MSW 42D), the facility's operating hours are proposed to increase. The Skyline Landfill (42D) proposes authorization for waste acceptance 24 hours per day, Monday through Friday, and until 3:00 p.m. on Saturday. The facility will post on the site entrance sign the hours for waste acceptance from public and private haulers. The Skyline Landfill also proposes to increase site operations (i.e. transportation of materials and heavy equipment operation) to 24 hours per day, 7 days per week.

**SKYLINE LANDFILL
CITY OF FERRIS
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 42D**

PERMIT AMENDMENT APPLICATION

**PART III – FACILITY INVESTIGATION AND DESIGN
ATTACHMENT D4
SITE LIFE**

Prepared for

Waste Management of Texas, Inc.

Technically Complete April 2, 2015

Revised August 2021



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

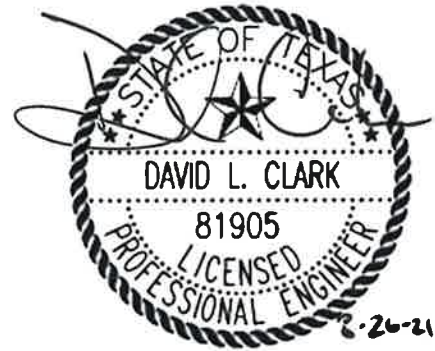
Prepared by

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Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256
30 TAC §330.63(d)(4)(D)

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1	SITE LIFE	D4-1
1.1	Solid Waste Generation	D4-1
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1.3	Landfill Capacity.....	D4-1
1.4	Site Life Calculations.....	D4-1

TABLES AND CALCULATION SHEETS

Airspace Estimate.....	D4-2
Capacity and Site Life.....	D4-3

1 SITE LIFE

1.1 Solid Waste Generation

The Skyline Landfill accepts waste generated in Dallas and Ellis Counties, Texas, and surrounding areas. The Skyline Landfill has been designed to continue to provide disposal capacity for waste generated from the areas identified as well as other neighboring counties. The Skyline Landfill receives approximately 1,718,000 tons of waste annually (about 5506 tons per day). The facility accepts waste the equivalent of six days per week (approximately 312 days per year). The landfill projects that the waste acceptance rate will increase at an annual rate of 1.4 percent for the life of the facility based on North Central Texas Council of Governments' population projections for the combined population of Dallas and Ellis counties. The site Operating Plan provides for equipment and personnel to accept up to 8,000 tons per day or approximately 2,496,000 tons of waste annually.

1.2 Airspace Utilization

An airspace utilization factor (ratio of tons disposed to in place cubic yard volume) of 0.77 will be used to calculate the projected site life based on the approximate volume available for deposition of solid waste. The airspace utilization factor is based on previous performance at the facility.

1.3 Landfill Capacity

The total remaining landfill disposal capacity is approximately 38,206,327 (cy) of waste and daily cover as of August 31, 2020, based on the FY2020 Annual Waste Report. The remaining capacity is primarily located in Phases 1 through 3 areas of the site. Phase 5 has a nominal amount of remaining capacity and will be used as an emergency wet-weather area.

1.4 Site Life Calculations

The capacity for solid waste in tons was calculated by multiplying the airspace utilization factor of 0.77 by the remaining solid waste capacity (cubic yards). The remaining solid waste capacity for the site is approximately 29,418,372 tons.

The proposed (42D) site will reach its approximate waste capacity in approximately 15 years based on the increasing waste acceptance rate.

**SKYLINE LANDFILL
CITY OF FERRIS
DALLAS AND ELLIS COUNTIES, TEXAS
TCEQ PERMIT NO. MSW 42D**

PERMIT AMENDMENT APPLICATION

PART IV – SITE OPERATING PLAN

Prepared for

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Technically Complete April 2, 2015

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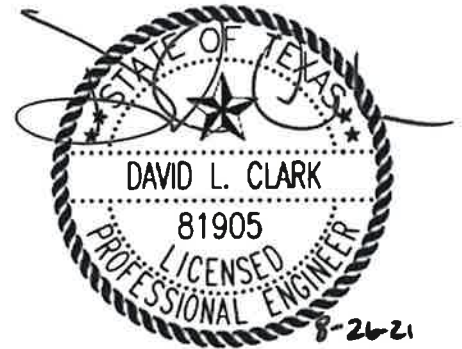
Revised November 2016

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Revised July 2021

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2.6 Alternative Schedules

In accordance with §330.125(g), the executive director may set alternative schedules for recordkeeping and notification requirements as specified in §330.125(a)-(f), except for notification requirements contained in §330.545.

2.7 Annual Waste Acceptance Rate

As listed in Table 2-1, the Skyline Landfill will maintain as part of the site operating record documentation of the annual waste acceptance rate for the facility in accordance with §330.125(h). Records will include maintaining the quarterly solid waste summary reports and the annual solid waste summary report as required by §330.675. The annual waste acceptance rate, as established by the sum of the previous four quarterly summary reports, will be evaluated by the Skyline Landfill to determine if the waste acceptance rate exceeds the rate estimated in the permit application. Should an increase in waste acceptance be established, the facility will determine if the increase is due to a temporary occurrence. Should the waste acceptance rate exceed that established in the permit application, and not be due to a temporary occurrence, a permit modification would be prepared and filed within 90 days of the exceedance in accordance with then applicable TCEQ regulations to propose changes, if necessary, to manage the increased waste acceptance rate to protect human health and the environment. An increase in the waste acceptance rate that is determined to be a temporary occurrence does not require the submittal of a permit modification. This section is not intended to make an estimated waste acceptance rate a limiting parameter of the permit.

This SOP includes provisions for accommodating waste receipts of up to 2,496,000 tons per year or about 8,000 tons per day.

ATTACHMENT 4

Traffic Analysis

Skyline Landfill Traffic Analysis

Required: Evaluate whether access routes to the Skyline LF will be impacted by additional waste volume.

References

1. HDR Engineering Transportation Study (Part II Appendix IIC in 2015 Permit Application)
2. NCTCOG Traffic Count Map

Given:

1. The HDR Transportation Study was comprehensive and covered all of the access roads and intersections within 1 mile of the landfill entrance on North Central Street (BR 45).
2. A review of the HDR study indicates that 83% of the landfill traffic is on the section of BR 45 north of the landfill entrance and that section of access is the most critical of all of the access roads.
3. If an analysis of the section of BR 45 north of the landfill access road indicates no adverse effect on traffic, the other access roads within 1 mile will also not have an adverse effect on traffic due to an increase in waste tonnage/vehicles.
4. Traffic counts were performed in the HDR study in 2011 and HDR projected traffic counts for the estimated maximum waste acceptance rate which was calculated to occur in 2044.
5. Roadway access road configurations have not changed from those analyzed in the HDR study... IE, no changes to number of lanes, turn lanes, etc have occurred since the HDR 2015 study was published.
6. The estimated maximum annual waste tonnage has increased from approximately 1,600,000 tons/yr to approximately 2,496,000 tons/yr due to the closure or impending closure of other MSW disposal sites in the area.
7. Maximum tonnage is anticipated to occur in approximately 15 years... use year 2035.

Analysis: Determine the Peak Hour Volume of landfill vehicles on BR 45 north of the Skyline LF entrance and compare it to the capacity of that section of roadway.

	2011	2020/2021*	2035
Annual Waste Tonnage	1,013,036	1,600,331	2,496,000
Average Daily LF Trips	569	888	1,385
Peak Hour Volume (veh)	339	483	753
Peak Hour LF Volume (veh)	67	105	163.77
Capacity (pc/hr)	3,200	3,200	3,200
Total Capacity Used	10.6%	15.1%	23.5%
Peak Capacity Used by LF vehicles	2.1%	3.3%	5.1%

* 2044 Forecasted Data from HDR study was achieved in year 2020/2021.

Conclusion: The landfill vehicles transporting the estimated maximum annual waste tonnage of 2,496,000 tons/year will only use about 5.1% of the capacity of BR 45 north of the Skyline LF entrance. The north section of BR 45 is the most critical of all access roads included in the comprehensive HDR transportation study and all other access roads will have less impact. **Vehicle traffic associate with an annual waste tonnage of 2,496,000 tons/yr will not have an adverse effect on the access roads within 1 mile of the Skyline LF entrance.**



SKYLINE LANDFILL

< *TRANSPORTATION STUDY* >

Prepared for
Waste Management of Texas, Inc.

Prepared by
HDR Engineering Inc.

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John M. McInturf

4/2/15

Technically Complete: April 2, 2015

Table II.C-25.
2011 Existing Traffic Volumes

Location	Existing Traffic Volumes 2011					
	Daily			Peak Hour		
	Landfill Trips ¹	Non-Landfill Trips ²	Total	Landfill Trips	Non-Landfill Trips	Total
BR 45, North of Skyline Landfill Driveway	569	3,492	4,061	67	272	339
BR 45, South of Skyline Landfill Driveway	117	2,796	2,913	11	276	287
IH 45 SBFR, North of Malloy Bridge Road	239	1,751	1,990	21	144	165
IH 45 NBFR, North of Malloy Bridge Road	161	1,629	1,790	15	138	153
IH 45 SBFR, South of FM 660	0	1,048	1,048	0	85	85
IH 45 NBFR, South of FM 660	0	1,031	1,031	0	134	134
FM 660, East of BR 45	3	4,012	4,015	0	534	534
FM 983, West of BR 45	76	7,530	7,606	0	1,170	1,170
FM 664, West of FM 983	67	6,609	6,676	0	797	797
East 5 th Street, East of BR 45	0	4,449	4,449	0	525	525
Malloy Bridge Road, East of IH 45	48	2,327	2,375	2	189	191

Notes:

- 1 – Calculated from waste vehicle percentages in vehicle classification counts
- 2 – Total 24 hour volume minus calculated landfill trips

Table II.C-26.
Level of Service for 2011 Existing Traffic Volumes (Two-Lane Highway Analysis)

Location	Roadway Capacity (pc/hr)	Peak Hour Volume (veh/hr)	% of Access Road Capacity Used ¹	HCM Roadway LOS ²	% of Roadway Capacity Used by Existing Landfill Vehicles ¹
BR 45, North of Landfill Drwy	3,200	339	10.6	n/a ³	2.1
FM 660	3,200	534	16.7	n/a ³	<0.1
FM 983	3,200	1,170	36.6	n/a ³	<0.1
FM 664	3,200	797	24.9	D	<0.1
East 5 th Street	3,200	525	16.4	n/a ³	<0.1
Malloy Bridge Road	3,200	191	6.0	A	0.1

Notes:

- 1 – Based on traffic volumes (veh/hr) compared with capacity (pc/hr).
- 2 – Refer to HCM Exhibit 20-3 for Class I LOS criteria and Exhibit 20-4 for Class II LOS Criteria
- 3 – Two-lane rural highway analysis LOS not applicable on urban streets – Refer to intersection analyses for LOS

Table II.C-27.
Level of Service for 2011 Existing Traffic Volumes (Multilane Highway Analysis)

Location	Access Road Capacity (Calculated)	One Way Peak Hour Volume (veh/hr)	% of Access Road Capacity Used ¹	HCM Roadway LOS	Landfill Vehicles % of One Way Capacity - Peak Hour ¹
IH 45 SBFR, North of Malloy Bridge Road	2,090 pc/hr/ln	165	3.9	A	0.5
IH 45 NBFR, North of Malloy Bridge Road	2,056 pc/hr/ln	153	3.7	A	0.4
IH 45 SBFR, South of FM 660	1,900 pc/hr/ln ²	85	2.2	A	<0.1
IH 45 NBFR, South of FM 660	1,902 pc/hr/ln	134	3.5	A	<0.1

Notes:

- 1 – Based on traffic volumes (veh/hr) compared with capacity (pc/hr)
- 2 - Minimum access road capacity used – calculated free flow speed < 45 mph.

Table II.C-29.
2044 Forecasted Traffic Volumes

Location	Projected Traffic Volume at 2044 Facility Closure					
	Daily			Peak Hour		
	Landfill Trips	Non-Landfill Trips	Total	Landfill Trips	Non-Landfill Trips	Total
BR 45, North of Skyline Landfill Driveway	888	4,854	5,742	105	378	483
BR 45, South of Skyline Landfill Driveway	183	3,886	4,069	17	384	401
IH 45 SBFR, North of Malloy Bridge Road	373	2,434	2,807	33	200	233
IH 45 NBFR, North of Malloy Bridge Road	251	2,264	2,515	23	192	215
IH 45 SBFR, South of FM 660	0	1,457	1,457	0	118	118
IH 45 NBFR, South of FM 660	0	1,433	1,433	0	186	186
FM 660, East of BR 45	5	5,577	5,582	0	742	742
FM 983, West of BR 45	119	10,467	10,586	0	1,626	1,626
FM 664, West of FM 983	105	9,187	9,292	0	1,108	1,108
East 5 th Street, East of BR 45	0	6,184	6,184	0	730	730
Malloy Bridge Road, East of IH 45	75	3,235	3,310	3	263	266

Table II.C-30.
Level of Service for 2044 Forecasted Traffic Volumes (Two-Lane Highway Analysis)

Location	Roadway Capacity (pc/hr)	Peak Hour Volume (veh/hr)	% of Access Road Capacity Used ¹	HCM Roadway LOS ²	% of Roadway Capacity Used by Forecasted Landfill Vehicles ¹
BR 45, North of Landfill Drwy	3,200	483	15.1	n/a ³	3.3
FM 660	3,200	742	23.2	n/a ³	<0.1
FM 983	3,200	1,626	50.8	n/a ³	<0.1
FM 664	3,200	1,108	34.6	E	<0.1
East 5 th Street	3,200	730	22.8	n/a ³	<0.1
Malloy Bridge Road	3,200	266	8.3	A	0.1

Note:

- 1 – Based on traffic volumes (veh/hr) compared to capacity (pc/hr)
- 2 – Refer to HCM Exhibit 20-3 for Class I LOS criteria and Exhibit 20-4 for Class II LOS Criteria
- 3 – Two-lane rural highway analysis LOS not applicable on urban streets – Refer to intersection analyses for LOS

Table II.C-31
Level of Service for 2044 Forecasted Traffic Volumes (Multilane Highway Analysis)

Location	Access Road Capacity (Calculated)	One Way Peak Hour Volume (veh/hr)	% of Access Road Capacity Used ¹	Roadway LOS	Landfill Vehicles % of One Way Capacity - Peak Hour ¹
IH 45 SBFR, North of Malloy Bridge Road	2,090 pc/hr/ln	233	5.6	A	0.8
IH 45 NBFR, North of Malloy Bridge Road	2,056 pc/hr/ln	215	5.2	A	0.6
IH 45 SBFR, South of FM 660	1,900 pc/hr/ln ²	118	3.1	A	<0.1
IH 45 NBFR, South of FM 660	1,902 pc/hr/ln	186	4.9	A	<0.1

Notes:

- 1 – Based on volumes (veh/hr) compared to capacity (pc/hr)
- 2 – Minimum access road capacity used – calculated free flow speed < 45 mph.



NCTCOG Traffic Count Map

