

PART I

SITE AND APPLICANT INFORMATION

Hawthorn Park Recycling and Disposal Facility

Houston, Harris County, Texas

TCEQ Permit MSW-2185A

Owner/Site Operator/Permittee:



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**INTENDED FOR PERMITTING
PURPOSES ONLY**

Submitted: February 2021

Project No. 1894269

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1.0 INTRODUCTION

The Hawthorn Park Landfill is an active 171.6-acre Type IV municipal solid waste (MSW) facility owned and operated by USA Waste of Texas Landfills, Inc (USA Waste) – a subsidiary of Waste Management of Texas, Inc. (WMTX) – under TCEQ Permit No. MSW-2185. The facility is located at 10550 Tanner Road, approximately 500 feet east of Beltway 8 (Sam Houston Parkway), north of Tanner Road, in Houston, Harris County, Texas.

Per this Permit Amendment Application (PAA), USA Waste proposes to rename the facility the “Hawthorn Park Recycling and Disposal Facility” (referred to hereinafter as “Hawthorn Park RDF,” or “facility,” “landfill,” or “site”), and to add approximately 38.6 acres to the permitted area for a total permitted area of 210.2 acres under Permit No. MSW-2185A.

This PAA has been prepared consistent with the MSW regulations adopted by the Texas Commission on Environmental Quality (TCEQ) and codified in Chapter 330 of Title 30 of the Texas Administrative Code (30 TAC).

This PAA is comprised of four parts: Parts I-IV. Part I contains information about the site and applicant, per 30 TAC §§281.5, 305.45, and 330.59. Part II describes the existing conditions and character of the facility and surrounding area, per 30 TAC §330.61. Part III presents engineering information, detailed investigative reports, the schematic designs of the facility, and the required plans, per 30 TAC §330.63. Part IV contains the Site Operating Plan, which includes general operating procedures for facility management for day-to-day operations at the facility, per 30 TAC §330.65.

1.1 Permit History

The facility’s current MSW permit, Permit No. MSW-2185, was issued on April 12, 1994, and added the waste footprint designated as the Center Block. Permit No. MSW-2185 superseded and combined two other MSW permits issued by the Texas Natural Resource Conservation Commission (TNRCC): Permit No. MSW-1643 (West Block) and Permit No. MSW-1448A (East Block). On April 17, 1995, the TNRCC approved a minor amendment of Permit No. MSW-2185, which reduced the acreage of the West Block by 4.1 acres.

A closed Type IV MSW landfill (Permit No. MSW-1135) is located southwest of the Center Block. This closed landfill is not part of Permit No. MSW-2185; it is being added to the facility’s permit boundary via this PAA.

Table I-1 Permit History

Permit Number	Description	Start Date	End Date	Total Acreage
Permit No. MSW-1135	Closed Type IV Facility	08/23/1977	01/25/1996	10.2
Permit No. MSW-1448	East Block	11/23/1981	03/24/1982	12.9
Permit No. MSW-1448A	East Block	03/24/1982	04/12/1994	46.9
Permit No. MSW-1643	West Block	10/03/1983	04/12/1994	40.8
Permit No. MSW-2185	East, West and Center Blocks	04/12/1994	04/17/1995	175.8
Permit No. MSW-2185 (following approved minor permit amendment)	East, West and Center Blocks	04/17/1995	Present	171.6

See Figure I-A-6 for Permit History Map.

Per 30 TAC §305.45(a)(7), the facility's current non-MSW environmental permits and approvals are listed in Table I-2 below.

Table I-2 Permits, Registrations, or Other Authorizations

Program	ID Type	ID Number
Air Emissions Inventory/Air New Source Permits/Air Operating Permits	Account Number	HX2331G
Air New Source Permits	AFS Number	4820101511
Air New Source Permits	Registration	85322
Air New Source Permits	Account Number	HG1541Q
Air New Source Permits	Account Number	HG4225I
Petroleum Storage Tank Registration	Registration	31161 (Inactive)
Stormwater	Permit	TXR05T969

1.2 Supplementary Technical Report

The Hawthorn Park RDF is an active 171.6-acre Type IV MSW landfill facility (Permit No. MSW-2185). The permit boundary includes a total of approximately 129.8 acres of permitted waste disposal area. The 41.8 acres of non-waste disposal area is designated for buffer, recycling, storage, and maintenance facilities, including the gatehouse and scales, landfill access road, stormwater conveyance structures, and a concrete-crushing and recycling facility and offices.

The expansion of the Hawthorn Park RDF per this PAA will add a total of 38.6 acres to the facility's existing permit boundary and will result in a total permit boundary of 210.2 acres. The expansion

includes incorporating a closed landfill (Permit No. MSW-1135) within the Hawthorn Park RDF's permit boundary. A Type 5RC compost and mulch facility (Registration No. 104887468) operated by Living Earth Technology Co. (LETCO) is currently located over the closed landfill.

The entrance to the Hawthorn Park RDF will be located south of the current West Block disposal area. Current Permit No. MSW-2185 retains the rights-of-way for Clara Rd., Olga Ln., and Crawford Rd. located within the permitted area. Portions of the rights-of-way have been released by the City of Houston and purchased by USA Waste so that the existing West, Central, and East Blocks will be connected under Permit No. MSW-2185A.

The following third-party facilities are currently located on property owned by and leased from USA Waste, on property that will be included in the expanded permit boundary of the Hawthorn Park RDF under Permit No. MSW-2185A:

- Composting and mulching by LETCO
- Concrete crushing and recycling by Cherry Crushed Concrete, Inc.

The lessees, LETCO and Cherry Crushed Concrete, will continue their current operations until such time as this PAA is approved. The lessees will be given notice upon PAA approval and their business operations at the site will be terminated in accordance with the terms and conditions set forth in their individual lease agreements with USA Waste.

The elevation of the deepest excavation within the overall Hawthorn Park RDF is approximately 50 feet above mean sea level (ft-msl), as referenced to the site coordinate system (see Figure I-A-2). This PAA does not propose to change the elevation of the deepest excavation. The maximum final contour elevation of the expanded facility will increase from approximately 139.4 ft-msl to approximately 227.2 ft-msl. The location of the disposal areas, or limits of waste, is provided on Figure I-A-4 in Appendix IA.

The landfill expansion will result in a permit boundary of 210.2 acres and a waste disposal area of 176.5 acres. The disposal capacity (airspace) of the expansion will be 16,034,766 cubic yards, and the total remaining airspace will be approximately 16,106,490 cubic yards of waste and daily cover, based on the March 6, 2019 aerial topography. The airspace calculations are provided in Part III, Attachment 3, Appendix III-3A.

The waste acceptance rate will vary over the life of the facility depending on market conditions. For the first and second year, it is anticipated that the site will receive 150,000 tons and 200,000 tons per year, respectively. In subsequent years, the waste acceptance rate is anticipated to increase by 1.2% each year until no disposal capacity remains. This estimated increase is based on an average of the Harris-

Galveston Area Council's (HGAC's) population growth trend for Harris County over the estimated active life of the Hawthorn Park RDF. It is projected that the facility's waste acceptance rate will reach a maximum of approximately 340,000 tons per year and that the facility will have an active site life of approximately 46.3 years.

Table I-3 summarizes the existing (Permit No. MSW-2185) and proposed (Permit No. MSW-2185A) permit conditions.

Table I-3 – Permit Condition Summary

	Current Condition (2185)	Proposed Condition (2185A)
Permitted Area (acres)	171.6	210.2
Waste Disposal Area (acres)	129.8	179.9
Buffer/Other Area (acres)	41.8	30.3
Remaining Capacity (cubic yards)	71,724	16,106,490
Remaining Projected Site Life (years)	3*	46.3
Maximum Elevation (ft-msl)	139.4	227.2
Elevation of Deepest Excavation (ft-msl)	50	50

* Remaining site life based on current waste acceptance rates as documented in annual reports to TCEQ.

Per 30 TAC §330.5(a)(2), the facility is authorized and will continue to accept construction/demolition debris, brush, rubbish, and non-putrescible wastes that are free of other types of solid waste, and certain Class III industrial solid wastes that are properly identified and are inert and essentially insoluble. Properties of the wastes to be received at the facility are discussed in Part II, Section 2.0.

2.0 FACILITY LOCATION

2.1 Location Description

The Hawthorn Park RDF is an active Type IV MSW facility in Harris County, Texas. The site entrance is located at 10550 Tanner Road, approximately 0.2 miles east of the intersection of West Sam Houston Parkway and Tanner Road, in Houston, Harris County, Texas.

2.2 Access Routes

The primary access routes to the facility are from north and south on Beltway 8 (Sam Houston Parkway), from the west on Tanner Road, and from the east on Tanner Road, Gessner Road, and W. Tidwell Road. US 290 provides access to Beltway 8, Tidwell Road, and Gessner Road.

Refer to Appendix IA, Figure I-A-1 for the location of the facility in relation to the surrounding roads.

2.3 Geographic Coordinates

The general coordinates of the facility are:

Northwest Corner:

Latitude: N 29° 51' 25.40"
Longitude: W 95° 33' 41.38"

Southeast Corner:

Latitude: N 29° 51' 00.33"
Longitude: W 95° 32' 55.10"

The facility's site benchmark is based on the Harris County Floodplain Reference Marker No. 050320. The latitudinal and longitudinal geographic coordinates of the facility's site benchmark (BM 2 in Figure I-A-2) are:

Latitude: N 29° 51' 11.51"
Longitude: W 95° 33' 11.71"
Elevation (NAVD 88 GEOID12B): 99.29

3.0 MAPS

3.1 General Location Maps

The following maps collectively comply with the requirements of 30 TAC §§330.59(c)(1) & (2) and 305.45(a)(6). These general locations maps are included in Appendix IA:

- Figure I-A-1 – General Highway Map
- Figure I-A-2 – Site Location Map
- Figure I-A-3 – General Topographic Map
- Figure I-A-4 – Aerial Photograph
- Figure I-A-5 – General Site Plan
- Figure I-A-6 – Permit History Map

A Land Use Map is included in Part II, Appendix IIB.

3.2 Land Ownership Map and Landowners List

Per 30 TAC §§305.45(a), 330.59(c)(3), and 281.5, a Land Ownership Map and Landowners List are included in Appendix IB and reflect property ownership within one-quarter mile of the permit boundary. No mineral interest ownerships under the facility were identified. Property and mineral interest ownership was derived from the real property appraisal records as listed on the date that the PAA was filed. The Landowners List is also provided in electronic format on an enclosed CD per 30 TAC §330.59(c)(3)(B).

4.0 PROPERTY OWNER INFORMATION

4.1 Legal Description

The legal description and the Harris County Clerk's file number(s) for the Hawthorn Park RDF are included in Appendix IC.

A drawing of the permit boundary metes and bounds, provided by Martin Olson Survey Inc., is included in Appendix IC. The permit boundary metes and bounds description was also provided by Martin Olson Survey Inc., from a ground survey dated July 28, 2020.

4.2 Easements

Figure I-C-2, included in Appendix IC and provided by Martin Olson Survey Inc., identifies the on-site drainage, pipeline, and utility easements, as required by §330.61(c)(10). Four easements cross portions of existing or proposed disposal areas. A facility layout plan showing these easements is presented as Figure I-A-5. The Southwestern Bell easement located in the East Block will be abandoned. The remaining three easements are in areas where waste will be placed as part of the proposed expansion. These easements are utility easements that serve facilities that will no longer exist or will be replaced by the proposed landfill operations. Before commencing a phase of landfill development affecting these easements, the easements will be abandoned.

No solid waste unloading, storage, disposal, or processing operations will occur within any easement that crosses the site. No solid waste disposal will occur within 25 feet of the center line of any utility line or pipeline easement, unless otherwise authorized by TCEQ. Easements will be clearly marked and maintained as detailed in Section 13 of the Site Operating Plan in Part IV.

4.3 Property Owner Affidavit

Per 30 TAC §330.59(d)(2), a property owner affidavit is included in Appendix ID.

5.0 LEGAL AUTHORITY

Per 30 TAC §§330.59(e) and 281.5(3), verification of the legal status of the applicant, USA Waste, is provided in Appendix IE.

USA Waste is a wholly-owned subsidiary of WMTX. USA Waste owns and operates the Hawthorn Park RDF. No other person or entity owns more than 20% of the facility.

USA Waste previously operated under the name Sanifill of Texas, Inc. An Application for Amended Certificate of Authority was filed to change the name of the corporation from Sanifill of Texas, Inc., to USA Waste of Texas Landfills, Inc. Sanifill, Inc. consented to the organization-qualification of Sanifill of Texas, Inc.

6.0 EVIDENCE OF COMPETENCY

The following evidence of USA Waste’s competency to operate the Hawthorn Park RDF is provided in accordance with 30 TAC §330.59(f).

6.1 Solid Waste Facility Operation

USA Waste has owned and/or operated MSW facilities in Texas since the 1980s. Table I-4 lists the Texas solid waste facilities that have been owned and/or operated by USA Waste in the past 10 years unless otherwise indicated.

Table I-4 – Texas Solid Waste Facilities Owned and/or Operated by USA Waste

Site Name	Site Type	TCEQ MSW Permit or Registration No.	County	Dates of Operation
Addicks-Fairbanks Landfill	IV	1301	Harris	1982 to 2020 (Closed)
Fairbanks Landfill	IV	1565B	Harris	1982 to Present
Greenbelt South Landfill	IV	1478	Harris	1981 To 2002 (Closed)
Greenshadows Landfill	IV	1540A	Harris	1994 to Present
Hardy Road Transfer Station	V	1578	Harris	1984 to Present
Hawthorn Park Landfill	IV	2185	Harris	1995 to Present
Sam Houston Recycling Center	V	1471	Harris	1981 to Present
Koenig Street Transfer Station	V	1483A	Harris	1993 to Present

USA Waste does not have a direct financial interest in any solid waste site outside of the State of Texas.

6.2 Management and Personnel

Per 30 TAC §330.59(f)(4), the names of the USA Waste principals and supervisors are provided below, along with previous affiliations with other organizations engaged in solid waste activities.

Mr. Donald J. Smith, President

Mr. Smith holds the title of President with both USA Waste and WMTX. He has responsibility for the overall management of USA Waste’s operations throughout Texas, and has responsibility for solid waste regulatory and legislative affairs for WMTX and its affiliates, including USA Waste, in Texas. Mr. Smith has over 30 years of experience in the solid waste industry.

Mr. Steve Jacobs, Director of Landfill Operations

Mr. Jacobs has over 35 years of experience in the solid waste industry, both in municipal and hazardous waste landfill operations and management. He has held a variety of positions ranging from equipment operator, to landfill manager, corporate region manager, and area manager, and now directs the operations of WMTX's and its affiliates' MSW landfills in Texas and Oklahoma. Mr. Jacobs has broad experience in the areas of landfill and earthwork construction. He was affiliated with Browning Ferris Industries, Inc. (BFI) for 18 years and CECOS International (a wholly-owned subsidiary of BFI) for four years before moving to WMTX. Mr. Jacobs holds a current Texas MSW Facility Class A license for supervising or managing a MSW landfill facility. Mr. Jacobs is designated as the Solid Waste Facility Supervisor, as defined in 30 TAC Chapter 30, Subchapter F (Municipal Solid Waste Facility Supervisors).

Mr. Charles Rivette, PE, Director of Planning and Project Development

Mr. Rivette has over 30 years of experience in the operation and management of municipal and hazardous waste landfills. He has been involved with all aspects of landfill management during that period. Mr. Rivette was affiliated with BFI for 11 years prior to moving to WMTX. Presently, Mr. Rivette works daily with operations management of over 20 MSW landfill facilities in Texas. His responsibilities include profit/loss; regulatory compliance; oversight of permitting, engineering, environmental compliance, and landfill liner and final cover construction; personnel safety and training; and community relations activities. He holds a Texas Professional Engineer (PE) license and a Texas MSW Facility Class A license for supervising or managing a MSW landfill facility.

Ms. Heather Lehrmann, Environmental Protection Manager

Ms. Lehrmann is the environmental protection manager for various Houston-area landfills owned and/or operated by WMTX and its affiliates. She has over 15 years of experience in the solid waste industry, including over 10 years of direct involvement with environmental compliance issues related to MSW facilities in Texas. She is responsible for managing environmental compliance programs and related regulatory coordination at 10 MSW landfill facilities, as well as 20 other solid waste facilities (e.g., transfer stations) in Texas.

Landfill District Manager

The Landfill District Manager is responsible for the overall landfill management and the general direction of the operation of the Hawthorn Park RDF. The Landfill District Manager will be knowledgeable and experienced in aspects of solid waste disposal operations, including relevant regulations, permit requirements, waste-handling, and safe management practices for disposal of MSW, and will have the required qualifications for licensing under 30 TAC Chapter 30, Subchapter F.

Hawthorn Park RDF Site Manager

The Site Manager is responsible for day-to-day landfill operations and will have a minimum of two (2) years of experience in the solid waste industry with experience in earthmoving and landfill operational management. The Site Manager will have and maintain an MSW Facility Class A License as a MSW facility supervisor in accordance with 30 TAC Chapter 30, Subchapter F.

6.3 Equipment Dedicated to the Hawthorn Park RDF

Sufficient equipment will be provided to conduct site operations in accordance with the landfill design, operating requirements, and permit conditions. The list of equipment in Table I-5 below was developed based on the expected operating conditions and what is necessary to undertake safe and efficient landfill operations for the range of waste acceptance rates expected for the life of the facility consistent with 30 TAC §330.127(2).

Table I-5 - Number and Type of Equipment Dedicated to the Facility

Equipment Description	Disposal Rate			Equipment Size ⁽¹⁾	Function
	0-68,000 tons/year	68,001-400,000 tons/year	400,001-624,000 tons/year		
Landfill Compactor	0	1	1	Minimum weight of 40,000 pounds	Waste compaction and fire protection
Hydraulic Excavator ⁽²⁾	1	1	1	Minimum weight of 20,000 pounds	Cover soil excavation and fire protection
Haul Truck ⁽²⁾	1	1	1	Minimum heaped capacity of 20 cubic yards (yd ³)	Cover soil hauling and fire protection
Pump	1	1	1	6" Pump	Below-grade stormwater removal
Bulldozer	1	1	2	Minimum weight of 40,000 pounds	Waste spreading, waste compaction, cover soil spreading, and fire protection
Water Truck	1	1	1	Minimum 1500-gallon tank capacity	Site maintenance, dust control, and fire protection
Sweeper	1	1	1	Minimum 4-ft broom width	Road maintenance

Notes:

(1) The equipment size is the minimum size to be provided.

(2) The equivalent function of an excavator and haul truck(s) working in tandem to excavate and transport soil may be met by a scraper. Thus, at the facility's discretion, the excavator and haul truck(s) may be replaced by a scraper(s) that provides equivalent production rates.

(3) In the event of equipment breakdown or maintenance, backup equipment will be provided from other USA Waste and/or WMTX landfills, or from independent contractors or local rental companies, to avoid interruption of waste services and required facility operations.

7.0 APPOINTMENTS

Appointment documentation is provided in Appendix IF consistent with 30 TAC §§330.59(g) and 305.44.

8.0 APPLICATION FEES

Per the TCEQ Part I Application Form and 30 TAC §330.59(h)(1), the application fee for permits and major permit amendments is \$2,050. Therefore, on behalf of USA Waste, Golder Associates Inc. has made payment of the \$2,050 PAA fee for the Hawthorn Park RDF. This fee was paid online using TCEQ e-pay at <https://www3.tceq.texas.gov/epay/> and the e-pay receipt is provided in Appendix 1G.