

1.3 Existing Conditions

The landfill is currently operating in compliance with approved MSW Permit #2123. Filling of sequenced sectors has taken place over Phases I and II and partially into Phase III.

1.4 Improvements to Surface Water Drainage

The contours of the final cap on the north end of Phase III are being revised to match the contours that were included in the original Permit 2123 application. Returning the final cap contours in this area to the originally approved contours, results in flows from this area matching the flows included in the original Permit 2123 documentation and resulting in no increase in peak flows.

Modifications to the final contours proposed in this application at the peak of the landfill cap and over Ditch A will improve the movement of water from the top of the completed landfill in this area. Water flowing from the high point of the landfill will be able to move into the lowered portion of Ditch A. This same water previously would have flowed across the cap to the east and west and down the side slopes. ~~This modification in the time it takes for the flows to reach the channels will result in decreases in peak flow rates. The time of concentration - which is the time required for water to flow across the landfill - increases and thus results in a decrease of peak discharges. Table 1.4 is provided on page 7A comparing the flows in the watersheds affected by the 2022 modifications to the flows from the approved MSW Permit 2123. These updated flows reflect current design specifications for the City of Austin Zone 1 region.~~ The perimeter channels will either receive the same flows as originally designed or decreased flows resulting from this modification, and therefore remain adequate to carry the flows.

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Modifications to the final contours proposed in this application at the peak of the landfill cap and over Ditch A will improve the movement of water from the top of the completed landfill in this area. Water flowing from the high point of the landfill will be able to move into the lowered portion of Ditch A. This same water previously would have flowed across the cap to the east and west and down the side slopes. The time of concentration - which is the time required for water to flow across the landfill - increases and thus results in a decrease of peak discharges. Table 1.4 is provided on page 7A comparing the flows in the watersheds affected by the 2022 modifications to the flows from the approved MSW Permit 2123. These updated flows reflect current design specifications for the City of Austin Zone 1 region. The perimeter channels will either receive the same flows as originally designed or decreased flows resulting from this modification, and therefore remain adequate to carry the flows.

Table 1.4
25-Year Drainage Calculations

Area No.	Area (AC)	C	T. C (minutes)	I (in/hr)	Q (cfs)
P-1	15.11	0.70	20	6.67	70.55
P-2	18.43	0.70	20	6.67	86.05
P-6	35.82	0.70	20	6.67	167.24
P-9	47.29	0.70	20	6.67	220.80
P-10	32.21	0.70	20	6.67	150.39

2022 MOD

Area No.	Area (AC)	C	T. C (minutes)	I (in/hr)	Q (cfs)	Net Change 2022 MOD - Permit 2123
P-1	15.71	0.42	18.78	7.12	47.18	-23.37
P-2	17.83	0.44	18.96	7.09	55.98	-30.07
P-6	31.52	0.49	31.02	5.48	84.23	-83.01
P-9	54.50	0.37	34.38	5.17	105.29	-115.51
P-10	32.20	0.44	18.24	7.22	102.38	-48.01

Notes:

1. Flows determined using the Rational Method (Q=CIA)
2. Rational Formula Values Obtained from City of Austin Drainage Criteria Manual, Zone 1
3. Rainfall Intensity reflects Atlas 14 Flows from City of Austin Drainage Criteria Manual, Zone 1
4. Watersheds P-4, P-5, P-7, P-8 and P-11 through P-19 are unaffected by the 2022 MOD Application
5. Area was adjusted in affected watersheds to reflect the grading changes from the 2022 MOD Application



Dennis Wade Hill

October 25, 2023

Dennis Wade Hill, P.E. No. 84679

Hill Engineering P.L.L.C., Firm Registration No. 3532

5. Application URL

For modifications that require notice (other than those for arid exempt landfills), provide the URL address of a publicly accessible internet web site where the application and all revisions to the application will be posted:

https://www.texasdisposalpolicy.com/msw-permit-no-2123/

6. Party Responsible for Mailing Notice

For modifications that require notice, indicate who will be responsible for mailing notice:

Applicant Agent in Service Consultant

Contact Name: ~~Larry Laine~~ Clint Harp

Title: ~~Director of Facilities~~ Executive Vice President

Email Address: ~~llaine@texasdisposal.com~~ charp@texasdisposal.com

7. Confidential Documents

Does the application contain confidential documents?

Yes No

If "Yes", reference the confidential documents in the application, but submit the confidential documents as an attachment in a separate binder marked "CONFIDENTIAL."

8. Facility General Information

Facility Name: Texas Disposal Systems Landfill

Contact Name: ~~Larry Laine~~ Clint Harp Title: ~~Director of Facilities~~

MSW Authorization Number (if existing): 2123 Executive Vice President

Regulated Entity Reference Number: **RN** 102016698

Physical or Street Address: 3016 FM 1327

City: Creedmoor County: Travis State: TX Zip Code: 78610

Phone Number: 512-421-1300

Latitude (Degrees, Minutes, Seconds): 30d06'4.9942" North

Longitude (Degrees, Minutes, Seconds): 97d45'25.19495 West

9. Facility Types

Type I Type IV Type V

Type IAE Type IVAE Type VI

10. Description of the Revisions to the Facility

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

The proposed changes improve the leachate collection system drainage and the surface water drainage in the Phase II/III waste unit as well as changes to the excavation plan. The changes are protective of the public health and environment. There is no change in the disposal capacity of the landfill.

11. Facility Contact Information

Site Operator (Permittee or Registrant)

Name: Texas Disposal Systems Landfill, Inc.

Customer Reference Number: **CN** 600126932

Contact Name: ~~Larry Laine~~ Clint Harp Title: ~~Director of Facilities~~
Executive Vice President

Mailing Address: P.O. Box 17126

City: Austin County: Travis State: TX Zip Code: 78760

Phone Number: 512-421-1300

Email Address: ~~llaine@texasdisposal.com~~ charp@texasdisposal.com

Texas Secretary of State (SOS) Filing Number: 1074840000

Operator (if different from Site Operator)

Name: _____

Customer Reference Number: **CN** _____

Contact Name: _____ Title: _____

Mailing Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Phone Number: _____

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