



Michigan Department of Environment, Great Lakes, and Energy  
Materials Management Division

**SOLID WASTE DISPOSAL AREA OPERATING LICENSE**

Effective April 22, 2019, the Michigan Department of Environmental Quality, by Executive Order Number 2019-06, became the Michigan Department of Environment, Great Lakes, and Energy (EGLE). Effective April 22, 2019, the Waste Management and Radiological Protection Division became the Materials Management Division (MMD).

This license is issued under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 et seq., and authorizes the operation of this solid waste disposal area (Facility) in the state of Michigan. This license does not obviate the need to obtain other authorizations as may be required by state law.

FACILITY NAME: Glen's Sanitary Landfill, Inc.

LICENSEE/OPERATOR: Glen's Sanitary Landfill, Inc.

FACILITY OWNER: Glen's Sanitary Landfill, Inc.

PROPERTY OWNER: Glen's Sanitary Landfill, Inc.

FACILITY TYPE(S): Municipal Solid Waste Landfill

FACILITY ID NUMBER: 418012

COUNTY: Leelanau

LICENSE NUMBER: 9643

ISSUE DATE: April 16, 2021

EXPIRATION DATE: April 16, 2026

FACILITY DESCRIPTION: The Glen's Sanitary Landfill, a municipal solid waste landfill, consists of 401.46 acres located in the North 1/2 of Section 35, Kasson Township, Leelanau County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: The Areas identified in Item 2 and Attachment A.

RESPONSIBLE PARTY: Mr. James Palmer, District Manager  
Glen's Sanitary Landfill, Inc.  
518 East Traverse Highway  
Maple City, Michigan 49664-9152  
(989) 705-8930

**RENEWAL OPERATING LICENSE:** This License Number 9643 supersedes and replaces Solid Waste Disposal Area Operating License Number 9471 issued to Glen's Sanitary Landfill, Inc. on March 30, 2016.

This license is subject to revocation by the Director of the Michigan Department of Environment, Great Lakes, and Energy, if the Director finds that this Facility is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, Part 115, or the rules promulgated under Part 115. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties pursuant to Part 115. This license shall be available through the licensee during its term and remains the property of the Director.

**THIS LICENSE IS NOT TRANSFERABLE.**

Rhonda S. Oyer, Manager, Solid Waste Section  
Materials Management Division

Licensee: Glen's Sanitary Landfill, Inc.  
Facility Name: Glen's Sanitary Landfill, Inc.  
Operating License Number: 9643  
Issue Date: April 16, 2021

The licensee shall comply with all terms of this license and the provisions of Part 115 and the administrative rules implementing Part 115 (Part 115 Rules). This license includes the license application and any attachments to this license.

1. The licensee shall operate the Facility in a manner that will prevent violations of any state or federal law.
2. The following portions of the Facility are authorized to receive solid waste by this license:

**ACTIVE PORTIONS NOT AT FINAL GRADE:** The area(s) identified as Cell 2 Phase II North (6.0 acres); Cell 2 Phase II South (6.0 acres); Cell 2 Phase III (3.2 acres); Cell 3 Phase 1 (6.0 acres); Cell 3 Phase II (4.5 acres); Cell 3 Phase III (3.3 acres); Cell 4 Phase I and II (10.3 acres); and Cell 5 Phase I (3.4 acres) were authorized to receive waste by the previous license. This area's total acreage is 42.7 acres.

3. The following portions of the Facility **WILL BE** authorized to receive solid waste by this license following approval by EGLE of construction certification:

**UNCONSTRUCTED AREA(S) WITH FINANCIAL ASSURANCE:** The area(s) identified as Cell 5 Phase II (5.6 acres) and Cell 6 (7.3 acres), totaling 12.9 acres, are included in the calculation of financial assurance as required by Section 11523 of Part 115. This portion(s) of the Facility shall be authorized to receive waste, as part of this license, when acceptable certification is submitted to EGLE, as required by Section 11516(5) of Part 115, and determined by EGLE to be consistent with Part 115 and the Part 115 Rules. The certification shall verify that construction of this area(s) was in accordance with the Construction Permit(s) listed in Item 8 of this license, Part 115, and the Part 115 Rules.

4. The following portions of the Facility are **NOT** authorized to receive solid waste by this license:

a. **UNCONSTRUCTED AREA(S) WITHOUT FINANCIAL ASSURANCE:** The area(s) identified as Cell 7 (10.2 acres); Cell 8 (10.1 acres); Cell 9 (11.7 acres); Cell 10 (11.8 acres); Cell 11 (10.0 acres); Cell 12 (10.1 acres); and Cell 13 (11.7 acres); are not constructed and are not included in the calculation of financial assurance as required by Section 11523 of Part 115. This area's total acreage is 75.6 acres.

b. **CLOSED UNIT(S) OR A PORTION OF A UNIT WHERE THE FINAL COVER HAS BEEN CERTIFIED CLOSED AND ACCEPTED BY EGLE:** The following unit(s) and/or portion(s) are closed:

**PRE-EXISTING UNIT(S):** The unit(s) identified as Cell 1 (1.8 acres) had final closure certified on January 1994. This certification was reviewed and approved by EGLE on March 1994. This area's total acreage is 1.8 acres.

5. The attached map (Attachment A) shows the Facility, the area permitted for construction, monitoring points, leachate storage units, site roads, other disposal areas, and related appurtenances.
6. Issuance of this license is conditioned on the accuracy of the information submitted by the Applicant in the Application for License to Operate a Solid Waste Disposal Area (Application) received by EGLE on February 25, 2021, and any subsequent amendments. Any material or intentional inaccuracies found in that information is grounds for the revocation or modification of this license and may be grounds for enforcement action. The licensee shall inform EGLE's MMD Cadillac District Supervisor, of any inaccuracies in the information in the Application upon discovery.
7. This license is issued based on EGLE's review of the Application, submitted by Glen's Sanitary Landfill, Inc., for the Glen's Sanitary Landfill, Inc., dated February 23, 2021, and revised March 5, 2021, and March 24, 2021. The Application consists of the following:
  - a. Application Form EQP 5507.
  - b. Application fee in the amount of \$1,000.00.
  - c. Certification of construction by N/A, dated N/A.

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d. Waste Characterization: N/A.

e. Restrictive Covenant:

The March 22, 2000, restrictive covenant on 401.46 acres is on file at the Leelanau County Register of Deeds recorded on April 27, 2000, as Liber 541 pages 531-533. A copy is on file with EGLE.

f. Perpetual Care Fund Agreement, established as a standby trust account, signed by Ms. Dianna Seng, Authorized Representative, Glen's Sanitary Landfill, Inc. on January 8, 2015, was executed by EGLE on January 20, 2015.

g. Financial Assurance.

i. Financial Assurance Required:

The amount of financial assurance required for this Facility was calculated based on the calculation worksheet form EQP 5507A entitled, "Form A, Financial Assurance Required," and is \$11,360,092.00.

The Facility has provided financial assurance totaling \$11,365,960.00, based on the requirements of Section 11523 of Part 115, consisting of a combination of the Perpetual Care Fund established under Section 11525 of Part 115, bonds, and the financial capability of the Applicant as evidenced by a financial test. The financial assurance mechanisms used by the Facility are summarized below in Items ii, iii, and iv, respectively.

ii. Financial Assurance Provided Via a Perpetual Care Fund:

The Perpetual Care Fund Agreement statement showed a balance of \$2,208,643.00 in the Facility's Perpetual Care Fund as of October 31, 2020. Of this amount, EGLE has granted the request to use \$2,208,643.00 toward the total amount of financial assurance required.

iii. Financial Assurance Provided Via Bond:

The following financial assurance has been received from the Applicant to meet the amount of financial assurance required:

Surety Bond	\$9,157,317.00
Total Amount Received:	\$9,157,317.00

iv. Financial Assurance Provided Via a Financial Test for a Type II Landfill: N/A.

v. Financial Assurance Updates Required:

For Type II landfills, the financial assurance cost estimates of closure and postclosure activities must be updated annually and the corresponding requisite amount of financial assurance must be adjusted annually for the costs of inflation. The corresponding financial assurance, as adjusted for inflation and other factors, is due one year from the date of this license, and each year thereafter.

vi. Other Required Financial Assurance: N/A.

8. The following documents approved with Construction Permit Number(s) 0301 issued to Glen's Sanitary Landfill, Inc. on January 7, 1994, are incorporated in this license by reference:

- a. Engineering Plans, prepared by Wenck Associates, Inc., dated August 1993.
- b. Hydrogeological Investigation, prepared by Fishbeck, Thompson, Carr & Huber, Inc., dated September 1989.

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- c. Environmental Assessment, prepared by Wenck Associates, Inc., dated September 1993.
  - d. Remedial Action Plan, prepared by Wenck Associates, Inc., dated August 1992.
9. The following additional documents, approved since the issuance of the construction permit(s) referenced in Item 8, are incorporated in this license by reference:
- a. Hydrogeologic Monitoring Plan, prepared by Gosling Czubak Engineering Sciences, Inc., dated March 2007.
  - b. Construction Quality Assurance Plan, prepared by Weaver Boos Consultants, Inc., dated January 2010 and revised November 2010 and March 2021.
  - c. Leachate Recirculation Plan, prepared by Glen's Sanitary Landfill, Inc., dated July 31, 2001, and amended April 11, 2002, and November 9, 2005.
  - d. Interim Gas Management Plan, prepared by Glen's Sanitary Landfill, Inc., dated August 2010.
  - e. Leachate Management Modifications, prepared by Midwestern Consulting, dated October 16, 2008.
  - f. Cell 5 Surcharge Plan, prepared by Wenck Associates, Inc., dated April 2005.
  - g. Solidification Plan, prepared by Waste Management of Michigan, Inc., dated January 2013.
  - h. 1993 Construction Permit Upgrade, prepared by Midwestern Consulting, dated September 2010, and revised February 2013.
  - i. Construction Plans, prepared by Wenck Associates, Inc.
    - i. Cell 2, Phase II, North & Phase III, dated June 1993, and revised August 1993.
    - ii. Cell 3, Phase I, dated April 1997.
    - iii. Cell 3, Phase III, dated June 2001.
    - iv. Cell 4, Phase I, dated March 2003.
10. Consent Order/Judgment Number: OWMRP Consent Order Number 641-02-245-02-92 entered on March 25, 1992, is incorporated into this license by reference.
11. The licensee shall repair any portion of the certified liner or leachate collection system that is found to be deficient or damaged during the term of this license unless determined otherwise by EGLE.
12. The licensee shall have repairs to any portion of the certified liner or leachate collection system recertified by a registered professional engineer in accordance with R 299.4921 of the Part 115 Rules and approved by EGLE before receiving waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to EGLE's MMD Cadillac District Supervisor, for review and approval.
13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated March 2007. The sampling analytical results shall be submitted to EGLE's MMD Cadillac District office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by EGLE's MMD Cadillac District Supervisor. Proposed revisions must be submitted in a format specified by EGLE.
15. Leachate may be recirculated if a leachate recirculation plan has been approved, in writing, by EGLE's MMD Cadillac District Supervisor.
16. Modifications to approved engineering plans that constitute an upgrading, as defined in R 299.4106a(l) of the Part 115 Rules, may be approved, in writing, by EGLE's MMD Cadillac District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by EGLE's MMD Cadillac District Supervisor.
18. Leakage Control Criteria:

The active portions of the unit(s) authorized to receive waste by this license is an unmonitorable unit(s) designed with a double-liner system that is in compliance with the provisions of R 299.4422(3) of the Part 115 Rules and that is capable of detecting and collecting leakage through the primary composite liner. The action flow rate for each unit containing a leak detection system is 5 gallons/acre/day. The response flow rate for each unit containing a leak detection system is 25 gallons/acre/day.

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19. **VARIANCES:** The licensee is granted the following variance(s) from Part 115 and/or the Part 115 Rules: None.

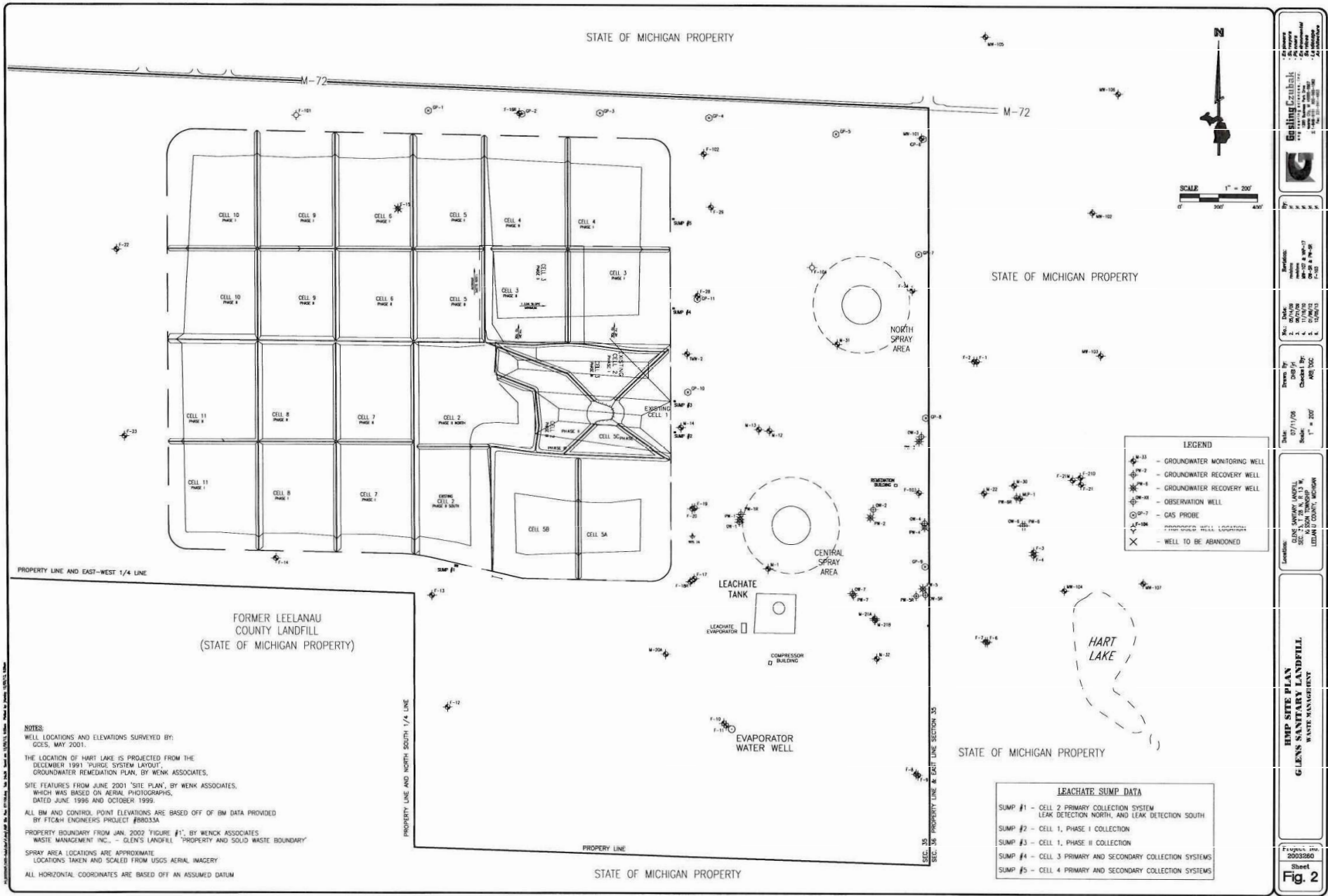
20. **SPECIAL CONDITIONS:**

- a. The licensee may recirculate up to 50,000 gallons of leachate per day on the active working face in accordance with the Leachate Recirculation Plan, prepared by Glen's Sanitary Landfill, Inc., dated July 31, 2001, and amended April 11, 2002, and November 9, 2005. The licensee shall perform the following operation and maintenance duties in cells where leachate recirculation is occurring, as outlined in the November 9, 2005, amendment:
  - i. Annual jetting and cleaning of the leachate cleanout lines.
  - ii. Acidification of the leachate collection sump with a hydrochloric acid solution and anti-foaming agent, at least annually, and more frequently if conditions (such as diminished flow or fouling) necessitate.
  - iii. Routine tracking of leachate removal volumes and identification of diminishing trends in leachate extraction.
- b. Waste Solidification, as detailed in the Solidification Plan, prepared by Waste Management of Michigan, Inc., dated January 2013.

21. **TERM:** This license shall remain in effect until its expiration date, unless revoked or continued in effect, as provided by, the Administrative Procedures Act, 1969 PA 306, as amended, or unless superseded by the issuance of a subsequent license.

**END OF LICENSE**

# Attachment A



1.0 General  
 2.0 Survey  
 3.0 Design  
 4.0 Construction  
 5.0 Maintenance  
 6.0 Demolition  
 7.0 Relocation  
 8.0 Abandonment  
 9.0 Other  
 10.0 Notes

No. Date  
 1 07/11/08  
 2 11/17/08  
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Drawn By: DMS/J  
 Checked By: ARE/DC  
 Date: 07/11/08  
 Scale: 1" = 200'  
 Project: GLENS SANITARY LANDFILL  
 Section: 25, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

PROJECT: GLENS SANITARY LANDFILL  
 SECTION: 25, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100  
 LEELENAU COUNTY, MICHIGAN

**HMP SITE PLAN**  
**GLENS SANITARY LANDFILL**  
 WASTE MANAGEMENT

Project No:  
 2003260  
 Sheet:  
**Fig. 2**