

Michigan Department of Natural Resources and Environment  
Waste and Hazardous Materials Division

**SOLID WASTE DISPOSAL AREA OPERATING LICENSE**

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: Central Sanitary Landfill

LICENSEE/OPERATOR: Central Sanitary Landfill, Inc.

FACILITY OWNER: Central Sanitary Landfill, Inc.

PROPERTY OWNER: Central Sanitary Landfill, Inc.

FACILITY TYPE(S): Municipal Solid Waste Landfill

FACILITY ID NUMBER: 416499

COUNTY: Montcalm

LICENSE NUMBER: 9261

ISSUE DATE: March 10, 2010

EXPIRATION DATE: March 10, 2015

FACILITY DESCRIPTION: The Central Sanitary Landfill, a municipal solid waste landfill, consists of 306.9 acres located in the eastern portion of Section 21, T11N, R10W, Pierson Township, Montcalm County, Michigan, as identified in Attachment A and fully described in this license.


AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Phases III-A, III-B, III-C, IV-A, IV-B, V-B, VI-A, VI-B, VII-A, VII-B, VIII-B1, and portions of V-A.

RESPONSIBLE PARTY: Todd Harland, General Manager  
Central Sanitary Landfill, Inc.  
21545 Cannonsville Road  
Pierson, Michigan 49339  
616-636-4096

**RENEWAL OPERATING LICENSE:** This License Number 9261 supersedes and replaces Solid Waste Disposal Area Operating License Number 9142 issued to Central Sanitary Landfill, Inc., on August 15, 2006.

This license is subject to revocation by the Director of the Michigan Department of Natural Resources and Environment, 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.**



Steven R. Sliver, Chief, Storage Tank and Solid Waste Section  
Waste and Hazardous Materials Division

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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:
  - a. **ACTIVE PORTIONS NOT AT FINAL GRADE:** The area(s) identified as Phases III-A, III-B, III-C, IV-A, IV-B, V-B, VI-A, VI-B, VII-A, VII-B, and portions of V-A were authorized to receive waste by the previous license. This area's total acreage is 39.24 acres.
  - b. **CONSTRUCTED AREAS CERTIFIED WITH THIS APPLICATION:** The area(s) identified as Phase VIII-B1 were not authorized to receive solid waste by the previous license, but are authorized to receive waste by this license. This area's total acreage is 3.76 acres.
3. The following portions of the Facility **WILL BE** authorized to receive solid waste by this license following approval by the Michigan Department of Natural Resources and Environment (DNRE) of construction certification:

**UNCONSTRUCTED AREA(S) WITH FINANCIAL ASSURANCE:** The area(s) identified as Phases VIII-B2 and Phase VIII-A, totaling 4.98 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 the DNRE, as required by Section 11516(5) of Part 115, and determined by the DNRE 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 Phases IX, X, XI, XII, and the remainder of Phase V-A 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 55.22 acres.
  - b. **CLOSED UNIT(S) OR A PORTION OF A UNIT WHERE THE FINAL COVER HAS BEEN CERTIFIED CLOSED AND ACCEPTED BY THE DNRE:** The following unit(s) and/or portion(s) are closed:
    - i. **EXISTING UNIT(S):** The unit(s) identified as portions of Phases III-A, III-B, IV-B and the C-56 Area had final closure certified on June 1994 and November 1992, respectively. This certification was reviewed and approved by the DNRE on May 26, 1999. This area's total acreage is 5.31 acres.
    - ii. **OTHER DISPOSAL AREAS:** The areas identified as the Act 87 Area, Phase 1, and Phase II had final closure certified in November 1991. This certification was reviewed and approved by the Department on May 26, 1999. This area's total acreage is 7.41 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 the DNRE on November 23, 2009, 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 the DNRE's Waste and Hazardous Materials Division (WHMD), Grand Rapids District Supervisor, of any inaccuracies in the information in the Application upon discovery.

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7. This license is issued based on the DNRE's review of the Application, submitted by Central Sanitary Landfill Inc., for the Central Sanitary Landfill, dated November 16, 2009, and revised February 22, 2010. The Application consists of the following:

- a. Application Form EQP 5507.
- b. Application fee in the amount of \$2,500.00.
- c. Certification of construction by Engineering & Environmental Solutions, LLC, dated November 2009.
- d. Waste Characterization: N/A.
- e. Restrictive Covenant:

The October 3, 2000, restrictive covenant on 306.9 acres is on file at the Montcalm County Register of Deeds recorded on April 2, 2001, as Liber 944 pages 380-383. A copy is on file with the DNRE.

f. Perpetual Care Fund Agreement, established as an escrow account, signed by Mr. Robert Durkin, Vice President, Central Sanitary Landfill, Inc., on April 18, 1997, was executed by the DNRE on November 18, 1997.

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 \$8,302,029.61.

The Facility has provided financial assurance totaling \$8,302,030.52, 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:

- (1) The amount of the required financial assurance can be reduced pursuant to Section 11524 of Part 115, if the amount of money in the Perpetual Care Fund plus the amount of the reduced financial assurance equals the amount of financial assurance required in Section 11523 of Part 115 and is approved by the DNRE.
- (2) The Perpetual Care Fund Agreement statement showed a balance of \$1,876,061.60 in the Facility's Perpetual Care Fund as of March 8, 2010. Of this amount, the DNRE has granted the request to use \$1,875,832.52 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	\$1,396,698.00
Insurance	\$5,029,500.00
Total Amount Received:	\$6,426,198.00

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

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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 on March 10, 2011, and each year thereafter.

8. The following documents approved with Construction Permit Number(s) 0227 issued to Central Sanitary Landfill, Inc., on October 23, 1990, are incorporated in this license by reference:
  - a. Engineering Plans and Specifications for Central Sanitary Landfill, Pierson, Michigan, for Phases III-V, dated April 1996.
  - b. "Central Sanitary Landfill, Pierson, Michigan, Phases III-V, Closure Plan," dated November 1994.
  - c. Hydrogeological Evaluation titled, "Central Sanitary Landfill, Phases III-V, Construction Permit Application, Volume 2 of 3," dated June 1989.
  - d. Environmental Assessment titled, "Central Sanitary Landfill, Phases III-V, Construction Permit Application, Volume 2 of 3," dated June 1989.
  - e. "Leak Response Action Plan, Phases III-V, Central Sanitary Landfill, Pierson Township, Michigan," dated May 1990.
  - f. "Leak Detection Monitoring and Contingency Plan, Phases III-V, Central Landfill, Pierson Township, Michigan," dated June 1990.
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. Engineering Plans entitled "Central Sanitary Landfill Construction Permit Drawings," dated March 2000, and prepared by Dell Engineering, Inc.
  - b. "Volume 1 - Engineering Report," which includes an Environmental Assessment.
  - c. "Volume 2 - Hydrogeological Investigation Report."
  - d. "Volume 3 - Environmental Monitoring Plan (Appendix H of Volume 2)," dated March 16, 2000, and revised May 1, 2001 and February 26, 2004..
  - e. "Volume 4 - Closure and Post Closure Plans."
10. Consent Order/Judgment Number: WHMD Consent Order Number 89-64886-AW and 115-05-06 entered on October 18, 1990, and July 27, 2006, respectively, 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 the DNRE.
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 the DNRE before receiving waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the DNRE's WHMD, Grand Rapids District Supervisor, for review and approval.

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13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated October 30, 2007. The sampling analytical results shall be submitted to the DNRE's WHMD, Grand Rapids District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the WHMD, Grand Rapids District Supervisor. Proposed revisions must be submitted in a format specified by the DNRE.
15. Leachate may be recirculated if a leachate recirculation plan has been approved, in writing, by the Waste and Hazardous Materials Division, Grand Rapids 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 the WHMD, Grand Rapids District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the Waste and Hazardous Materials Division, Grand Rapids 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 systems which is in compliance with the provisions of R 299.4422(3) and which 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 shown below:

Cells	Flow Rate	
	Action Flow Rate	Response Flow Rate
Phases IIIA, IIIB, IIIC, IVA, and IVB	50	200
Phases VA, VB, VIA, VIB, and VIIB	5	25

19. **VARIANCES:** None.

20. **SPECIAL CONDITIONS:**

a. The licensee shall place a compacted layer of not less than six inches of earthen material, unless an exemption is granted, of suitable cover material on all exposed solid waste by the end of each working day, as required by R 299.4429(1) of the Part 115 Rules. Suitable cover shall be either uncontaminated soil or an alternate cover approved by the WHMD, listed in Item i, below. Alternate cover shall be restricted as indicated in Item ii and applied as per the approved operational plan submitted by the licensee.

i. Approved alternate cover shall be any of the following:

<u>Product/Waste Material</u>	<u>Source</u>	<u>Monthly Volume</u>
(1) Shredded Tires	Varies	N/A
(2) Shredder Fluff	Padnos Iron & Metal	N/A
(3) Contaminated Soil	Varies	N/A

ii. The above materials are approved for daily cover when used in the following manner:

- (1) The licensee shall use the material as daily cover only. The material cannot be used for road building or fill in other areas of the Facility's operation.
- (2) The licensee shall maintain copies of the testing performed on Class B and Class C materials in the facility operating record.
- (3) The licensee shall only stockpile material in a secure manner within the active cell.

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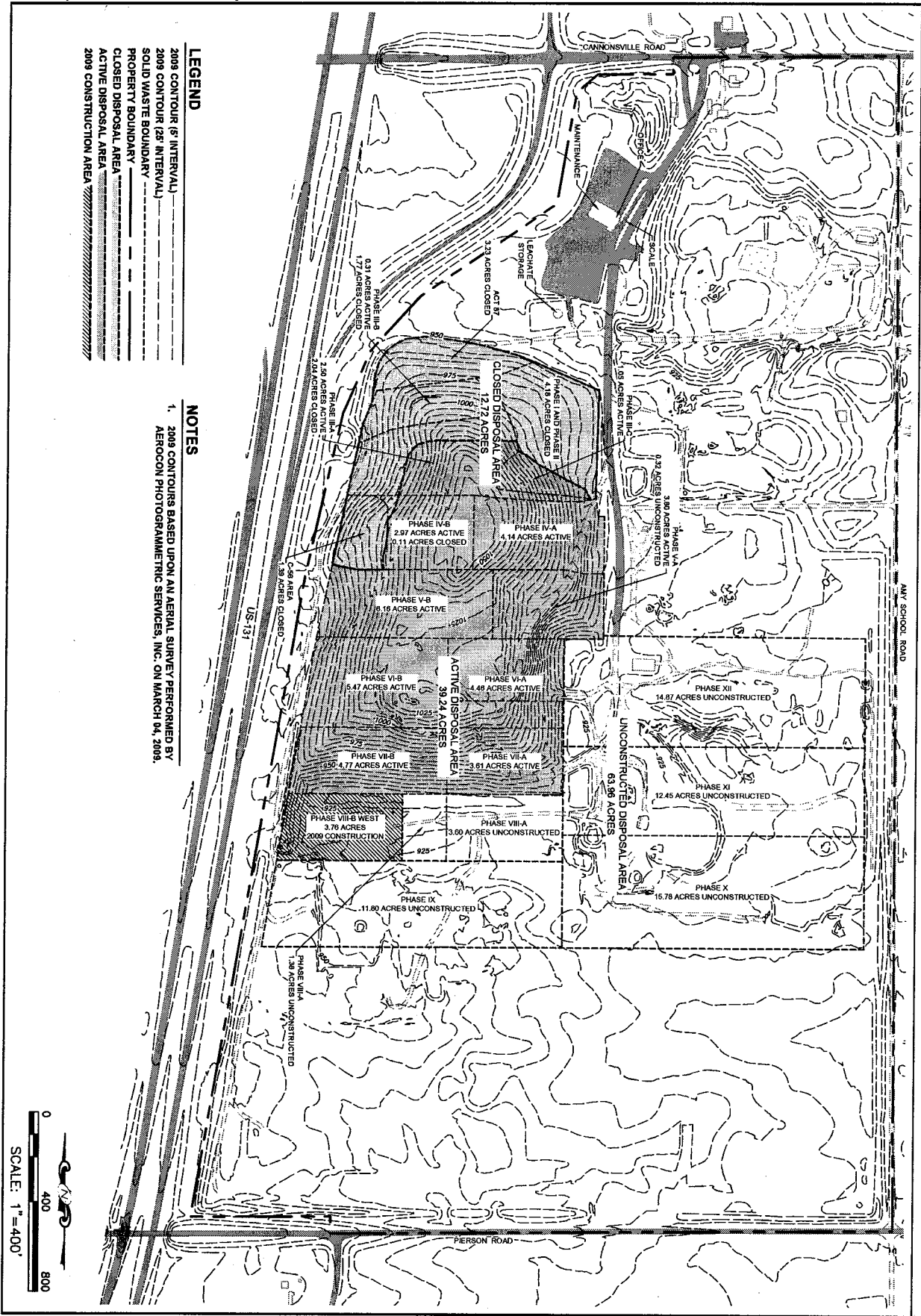
- (4) This approval does not preclude the licensee from disposing of the material as waste in the active fill area instead of using the material as daily cover.
- (5) This approval shall immediately become void upon documentation by the DNRE that the alternative cover is not being used in accordance with listed conditions, that the alternative cover is not providing the necessary protection, that the material no longer meets the alternative daily cover guidelines, or that the process producing the waste material has changed.
- (6) If the material does not meet the guidelines from Attachment 2 of Operational Memo 115-10, Revision 2, for nonvolatiles, the licensee shall ensure that fugitive dust emissions from this material do not occur. Acceptable methods to ensure fugitive emissions do not occur are:
  - (a) Implement a schedule to wet down material; or
  - (b) Cover the material with a tarp; or
  - (c) Apply an approved foam or other appropriate commercial dust control product.
- (7) This approval to use alternative cover shall expire upon the expiration of this operating license.

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

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- LEGEND**
- 2009 CONTOUR (5' INTERVAL)
  - 2009 CONTOUR (25' INTERVAL)
  - SOLID WASTE BOUNDARY
  - PROPERTY BOUNDARY
  - CLOSED DISPOSAL AREA
  - ACTIVE DISPOSAL AREA
  - 2009 CONSTRUCTION AREA

- NOTES**
1. 2009 CONTOURS BASED UPON AN AERIAL SURVEY PERFORMED BY AEROCOON PHOTOGRAMMETRIC SERVICES, INC. ON MARCH 04, 2009.



NO.	DATE	DESCRIPTION

**CENTRAL SANITARY LANDFILL**  
 2009 AIRSPACE EVALUATION  
 SECTION 21, T. 11 N., R. 10 W., PIERSON TOWNSHIP, MONTICALLY COUNTY  
**ALLIED WASTE INDUSTRIES**  
 21545 CANNONVILLE ROAD, PIERSON, MI 48236

**Engineering & Environmental Solutions, LLC**  
 200 North Franklin Street, Suite 200, Zeeland, Michigan 49684  
 Phone: (616) 951-3960 Fax: (616) 951-2970  
 www.EESolutions.com

PHASE UPDATE  
 SHEET 1 OF 1  
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