



Michigan Department of Environmental Quality
Office of Waste Management and Radiological Protection

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: Lafarge Midwest, Inc.

LICENSEE/OPERATOR: Lafarge Midwest, Inc.

FACILITY OWNER: Lafarge Midwest, Inc.

PROPERTY OWNER: Lafarge Midwest, Inc.

FACILITY TYPE(S): Type III Low Hazard Industrial Landfill

FACILITY ID NUMBER: 393642

COUNTY: Alpena

LICENSE NUMBER: 9420

ISSUE DATE: December 3, 2014

EXPIRATION DATE: December 3, 2019

FACILITY DESCRIPTION: The Lafarge Midwest, Inc., a Type III low hazard industrial landfill, consists of 135.1 acres located in the East 1/2 of the South 1/2, Section 13, Alpena Township, Alpena County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Cell 1, 16 acres; Cell 2, 15 acres; Cell 3, 16.5 acres; Cell 4, 19 acres; Cell 5A, and 7.5 acres for a total of 74 acres. Cells 5b, 6a, 6b, and 6c total 38 acres, and shall be authorized to receive waste when acceptable construction certification has been submitted to and approved by the Michigan Department of Environmental Quality (MDEQ).

RESPONSIBLE PARTY: Mr. Joshua Strapec, Compliance Engineer
Lafarge Midwest, Inc.
1435 Ford Avenue
Alpena, Michigan, 49707
989-358-3356

RENEWAL OPERATING LICENSE: This License Number 9420 supersedes and replaces Solid Waste Disposal Area Operating License Number 9282 issued to Lafarge Midwest, Inc. on September 10, 2010.

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality, 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, Solid Waste Section
Office of Waste Management and Radiological Protection

Licensee: Lafarge Midwest, Inc.
Facility Name: Lafarge Midwest, Inc.
Operating License Number: 9420
Issue Date: December 3, 2014

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 Cells 1, 2, 3, 4, and 5a were authorized to receive waste by the previous license. This area's total acreage is 74 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 Environmental Quality (MDEQ) of construction certification:

UNCONSTRUCTED AREA(S) WITH FINANCIAL ASSURANCE: The area(s) identified as Cell 5b, 6a, 6b, and 6c, totaling 38 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 MDEQ, as required by Section 11516(5) of Part 115, and determined by the MDEQ 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:

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

OTHER DISPOSAL AREAS: The old Cement Kiln Dust (CKD) Disposal area, 88.1 acres, was certified in portions during 1996, 1997, and 1998. The Wessel Road Disposal Area, consisting of 40 acres, was certified closed in 1997. All certifications were subsequently approved by the DEQ; the certifications are referenced in Items 8 and 9. These areas were closed under Part 201, Environmental Remediation, of the NREPA, in compliance with Consent Order Judgment Number 94-CV-10306- BC, entered on December 15, 1994, as amended August 30, 1995.

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 MDEQ on October 15, 2014, 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 MDEQ's Office of Waste Management and Radiological Protection (OWMRP), Cadillac District Supervisor, of any inaccuracies in the information in the Application upon discovery.
7. This license is issued based on the MDEQ's review of the Application, submitted by Lafarge Midwest, Inc., for the Lafarge Midwest, Inc., Type III Landfill, dated October 14, 2014, and revised November 3, 2014. 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 N/A.
 - d. Waste Characterization: N/A.

Licensee: Lafarge Midwest, Inc.
Facility Name: Lafarge Midwest, Inc.
Operating License Number: 9420
Issue Date: December 3, 2014

e. Restrictive Covenant:

The Lafarge Midwest, Inc. restrictive covenant on 135.1 acres is on file at the Alpena County Register of Deeds recorded on July 17, 1996, as Liber 0033 pages 0695. A copy is on file with the MDEQ.

f. Perpetual Care Fund Agreement, established as an escrow account, signed by Mr. George Kister, Plant Manager, Lafarge Midwest, Inc., 1435 Ford Avenue, Alpena, Michigan on January 30, 2001, was executed by the MDEQ on February 26, 2001.

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 includes a Surety Bond of \$20,000.00 per acre of licensed landfill, and the Perpetual Care Fund requirement.

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 \$1,473,340.22

The Facility has provided financial assurance totaling \$1,643,340.22 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, and the bonding requirements of Section 11523 (1)(a) of Part 115. The financial assurance mechanisms used by the Facility are summarized below in Items ii and iii, respectively.

ii. Financial Assurance Provided Via a Perpetual Care Fund:

The Perpetual Care Fund Agreement statement showed a balance of \$473,340.22 in the Facility's Perpetual Care Fund as of October 24, 2014.

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	\$180,000.00
Irrevocable Letter of Credit	\$990,000.00
Total Amount Received:	\$1,170,000.00

8. This previously "grandfathered" facility did not have a construction permit, an authorization letter issued to the Lafarge Corporation on September 28, 1996, are incorporated in this license by reference:

- a. Cell 1 Landfill Construction Documentation Report, dated March 1996.
- b. Existing CKD Placement Area Construction Documentation Report (Plot 4), dated 1996..

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. Existing CKD Placement Area Construction Documentation Report (Plot 3), dated January 1997.
- b. Wessel Road Final Cover Project Manual and Drawings, dated April 15, 1997, with revisions dated August 22, 1997.
- c. Wessel Road Final Cover Documentation Report dated 1997.

Licensee: Lafarge Midwest, Inc.
Facility Name: Lafarge Midwest, Inc.
Operating License Number: 9420
Issue Date: December 3, 2014

- d. Final Construction Plots 1 and 2 Closure Construction Documentation Report, dated October 1998.
 - e. Cell 1 Landfill Construction Documentation Report (Certification), dated September 1991.
 - f. Cell 2 Landfill Construction Documentation Report (Certification), dated June 1999.
 - g. Revised HMP, dated June 9, 2010, with revisions dated June 25, 2010.
 - h. Cell 3 Landfill Construction Documentation Report (Certification), dated October 2002.
 - i. Cell 2 Final Cover Certification Report, dated October 6, 2003.
 - j. Cell 3 Final Cover Certification Report, dated September 16, 2006.
 - k. Cell 4 Landfill Construction Documentation Report (Certification), dated September March 24, 2005.
 - l. Leachate Recirculation Plan, dated September 2006.
 - m. Revised Final Engineering Plans (Upgrade), dated April 2010.
 - n. Cell 5A Landfill Construction Documentation Report (Certification), dated December 2, 2010.
 - o. Amendment of Engineering Report for CKD Mining, dated December 2, 2011.
 - p. Cell 6B Landfill Construction Documentation Report (Certification), dated October 2014.
10. Consent Order/Judgment Number: OWMRP Consent Order Number 94-CV-10306-BC entered on December 5, 1994, and amended August 30, 1995.
 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 MDEQ.
 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 MDEQ before receiving waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the MDEQ's OWMRP, Cadillac District Office Supervisor, for review and approval.
 13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated June 9, 2010, with revisions dated June 25, 2010. The sampling analytical results shall be submitted to the MDEQ's OWMRP, Upper Peninsula and Cadillac District Office.
 14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the OWMRP, Cadillac District Supervisor. Proposed revisions must be submitted in a format specified by the MDEQ.
 15. Leachate may be recirculated if a leachate recirculation plan has been approved, in writing, by the OWMRP, 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 the OWMRP, Cadillac District Supervisor.
 17. Requests for alternate daily cover may be approved, in writing, by the OWMRP, Cadillac District Supervisor.

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18. Leakage Control Criteria:

This Type III Facility is a monitorable unit and, therefore, does not need to be in compliance with the leakage control criteria of R 299.4422 of the Part 115 Rules.

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

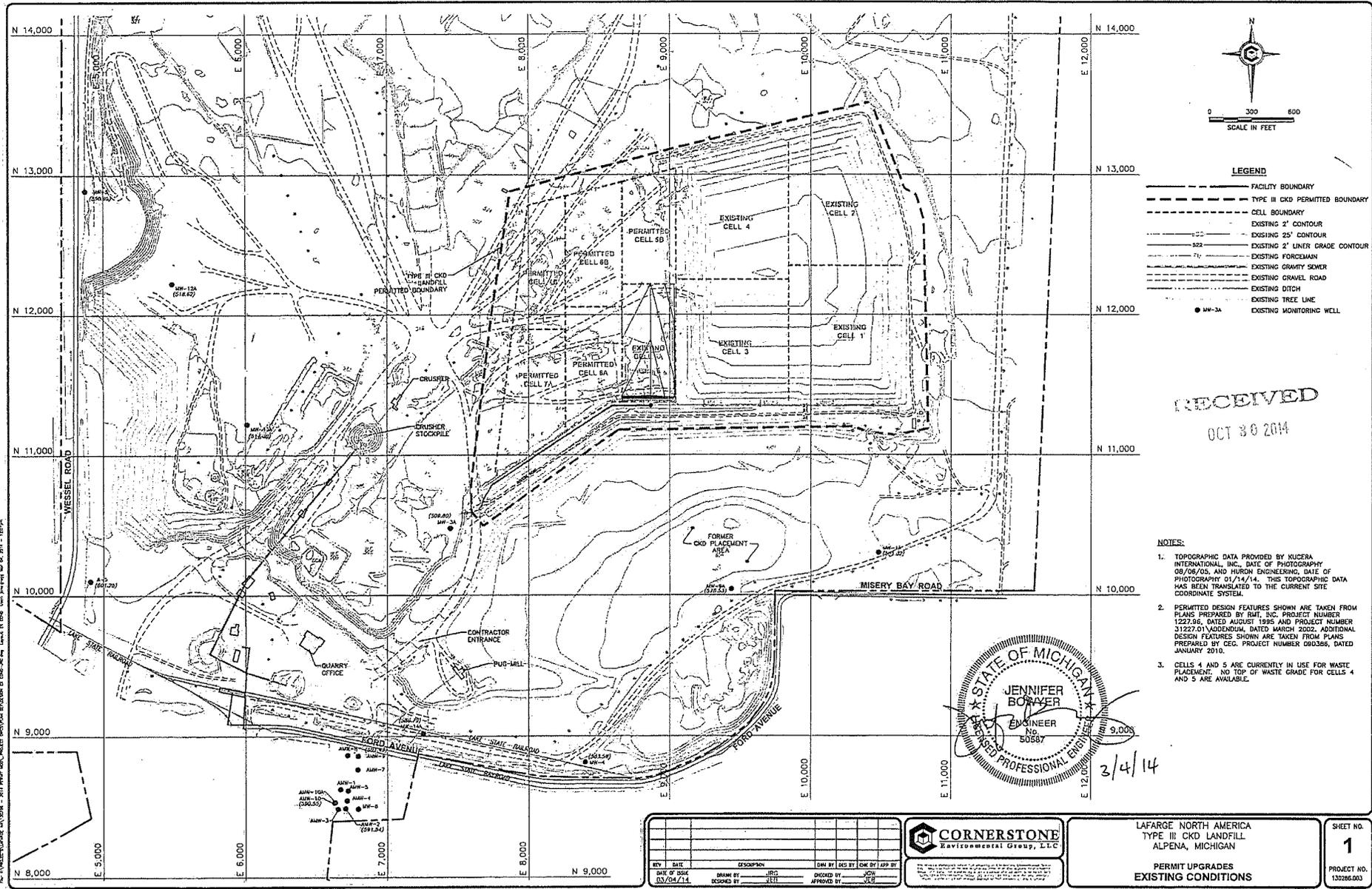
The Facility is authorized to control groundwater level by pumping of groundwater under provisions of R 299.4302 (1).

Under the authority of R 299.4108, the Facility is granted a variance from the requirement of R 299.4310(2) to have a permanent minimum clearance of 4 feet from the top of the liner to the groundwater level.

20. **SPECIAL CONDITIONS:** N/A.

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.

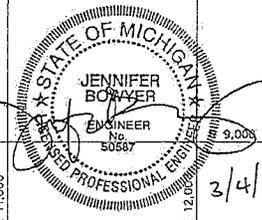
END OF LICENSE



RECEIVED
OCT 30 2014

- LEGEND**
- FACILITY BOUNDARY
 - - - TYPE III CKD PERMITTED BOUNDARY
 - - - CELL BOUNDARY
 - - - EXISTING 2' CONTOUR
 - - - EXISTING 25' CONTOUR
 - - - EXISTING 2' LINER GRADE CONTOUR
 - - - EXISTING FORCEMAIN
 - - - EXISTING GRAVITY SEWER
 - - - EXISTING GRAVEL ROAD
 - - - EXISTING DITCH
 - - - EXISTING TREE LINE
 - BM-3A EXISTING MONITORING WELL

- NOTES:**
- TOPOGRAPHIC DATA PROVIDED BY KUCERA INTERNATIONAL, INC., DATE OF PHOTOGRAPHY 08/08/05, AND HURON ENGINEERING, DATE OF PHOTOGRAPHY 01/14/14. THIS TOPOGRAPHIC DATA HAS BEEN TRANSLATED TO THE CURRENT SITE COORDINATE SYSTEM.
 - PERMITTED DESIGN FEATURES SHOWN ARE TAKEN FROM PLANS PREPARED BY BUE, INC. PROJECT NUMBER 1227.86, DATED AUGUST 1995 AND PROJECT NUMBER 31227.01 ADDENDUM, DATED MARCH 2002. ADDITIONAL DESIGN FEATURES SHOWN ARE TAKEN FROM PLANS PREPARED BY CEG, PROJECT NUMBER 000366, DATED JANUARY 2010.
 - CELLS 4 AND 5 ARE CURRENTLY IN USE FOR WASTE PLACEMENT. NO TOP OF WASTE GRADE FOR CELLS 4 AND 5 ARE AVAILABLE.



REV	DATE	DESCRIPTION	CHK BY	DES BY	CHK BY	APP BY
1	03/24/14	ISSUED FOR PERMITS	JEB	JEB	JEB	JEB



LAFARGE NORTH AMERICA
TYPE III CKD LANDFILL
ALPENA, MICHIGAN

PERMIT UPGRADES
EXISTING CONDITIONS

SHEET NO. **1**
PROJECT NO. 130286.003