

Michigan Department of Natural Resources and Environment
Environmental Resource Management 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: General Motors LLC - Saginaw Metal Casting Operations

LICENSEE/OPERATOR: General Motors LLC

FACILITY OWNER: General Motors LLC

PROPERTY OWNER: General Motors LLC

FACILITY TYPE(S): Type III Industrial Landfill

FACILITY ID NUMBER: 395505

COUNTY: Saginaw

LICENSE NUMBER: 9297

ISSUE DATE: December 16, 2010

EXPIRATION DATE: December 16, 2015

FACILITY DESCRIPTION: The General Motors LLC - Saginaw Metal Casting Operations, a Type III industrial landfill, consists of 75.63 acres located at 2815 Hack Road in the SE 1/4, of Section 5, T12N, R5E, Buena Vista Township, Saginaw 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. David McInnis
General Motors LLC - Saginaw Metal Casting Operations
1629 N. Washington Ave.
Saginaw, Michigan 48605
989-757-0609

FIRST OPERATING LICENSE: This License Number 9297 is the first operating license issued for this Facility to this licensee.

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, Solid Waste and Land Application Section
Environmental Resource Management Division

Michigan Department of Natural Resources and Environment
Environmental Resource Management 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: General Motors LLC - Saginaw Metal Casting Operations

LICENSEE/OPERATOR: General Motors LLC

FACILITY OWNER: General Motors LLC

PROPERTY OWNER: General Motors LLC

FACILITY TYPE(S): Type III Industrial Landfill

FACILITY ID NUMBER: 395505

COUNTY: Saginaw

LICENSE NUMBER: 9297

ISSUE DATE: December 16, 2010

EXPIRATION DATE: December 16, 2015

FACILITY DESCRIPTION: The General Motors LLC - Saginaw Metal Casting Operations, a Type III industrial landfill, consists of 75.63 acres located at 2815 Hack Road in the SE 1/4, of Section 5, T12N, R5E, Buena Vista Township, Saginaw 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. David McInnis
General Motors LLC - Saginaw Metal Casting Operations
1629 N. Washington Ave.
Saginaw, Michigan 48605
989-757-0609

FIRST OPERATING LICENSE: This License Number 9297 is the first operating license issued for this Facility to this licensee.

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, Solid Waste and Land Application Section
Environmental Resource Management Division

Licensee: General Motors, LLC
Facility Name: General Motors, LLC – Saginaw Metal Casting Operations
Operating License Number: 9297
Issue Date: December 16, 2010

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 Phase I, consisting of 13.55 acres, Phase II consisting of 17.1 acres, and Phase III consisting of 30.1 acres were authorized to receive waste by the previous license. This area's total acreage is 60.75 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: None.
4. The following portions of the Facility are **NOT** authorized to receive solid waste by this license: N/A.
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 24, 2010, 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 Environmental Resource Management Division (ERMD), Saginaw Bay District Supervisor, of any inaccuracies in the information in the Application upon discovery.
7. This license is issued based on the DNRE's review of the Application, submitted by General Motors LLC, for the General Motors LLC - Saginaw Metal Casting Operations, dated November 8, 2010, and revised December 13, 2010, and December 15, 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 N/A.
 - d. Waste Characterization: N/A.
 - e. Restrictive Covenant:

The September 5, 2001 restrictive covenant on 83.55 acres is on file at the Saginaw County Register of Deeds recorded on October 9, 2002, as Liber 2231 pages 1333. A copy is on file with the DNRE.
 - f. Perpetual Care Fund Agreement, established as a trust account, signed by Joseph S. Toth, Environmental Manager, General Motors Corporation - Powertrain Division on December 21, 1998, was executed by the DNRE on February 24, 1999.
 - 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 Facility has provided financial assurance totaling \$1,571,122.44. 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 required

Licensee: General Motors, LLC
Facility Name: General Motors, LLC – Saginaw Metal Casting Operations
Operating License Number: 9297
Issue Date: December 16, 2010

financial assurance is \$1,571,122.44. 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 \$571,122.44 in the Facility's Perpetual Care Fund as of November 30, 2010.

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	\$1,000,000.00
Total Amount Received:	\$1,000,000.00

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

v. Financial Assurance Updates Required: N/A.

8. The following documents approved with Construction Permit Number(s) 0016 issued to General Motors Corporation, Nodular Iron Landfill on March 25, 1980, are incorporated in this license by reference:
- a. Hydrogeological Investigation and Environmental Impact Statement Solid Waste Disposal Study Phase II, dated January 8, 1980, prepared by Keck Consulting Services, Inc.
 - b. Revised Engineering Plans and Specifications, Sheets 1-7, dated May 23, 1990, showing Phase I, II, and III, prepared by RC Engineering, Incorporated.
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. Hydrogeological Study Report for Phase III, prepared by Geo-Test, Ltd., dated February 2, 1990.
 - b. Preliminary Site Evaluation, dated March 20, 1990, and Addendum to Preliminary Site Evaluation, dated October 3, 1990, prepared by Geo-Test, Ltd.
 - c. Revised Loading Plan, dated November 13, 1990, prepared by RC Engineering, Incorporated.
 - d. Certification for Phase III, dated September 23, 1992, prepared by Geo-Test, Ltd.
 - e. Certification of Construction for Phase III, dated September 30, 1992, prepared by RC Engineering, Incorporated.
 - f. A letter from General Motors Corporation - Powertrain Division, dated January 18, 1995, regarding the roadway change at the ditch and culvert area.
 - g. Hydrogeological Monitoring Plan, dated October 1995, and revised October 1996, January 31, 1997, May 21, 1999, and March 20, 2001. The latest revision to the monitoring plan is listed in Item i., dated October 2005, received October 25, 2005.
 - h. Waiver of Waste Characterization requirement, dated February 7, 1997.
 - i. Report on Perimeter Berm Repairs, dated March 2001, prepared by URS Corporation.

Licensee: General Motors, LLC
Facility Name: General Motors, LLC – Saginaw Metal Casting Operations
Operating License Number: 9297
Issue Date: December 16, 2010

- j. 2004 Summary Report General Motors Powertrain, Saginaw Metal Casting Operations Landfill, prepared by URS Corporation, dated March 2005, received on March 7, 2005.
 - k. Waiver Request Report General Motors Powertrain, Saginaw Metal Casting Operations Landfill, prepared by URS Corporation, dated March 2005, revised April 1, 2005 and received on April 6, 2005.
 - l. GM Powertrain - Saginaw Metal Casting Operations Landfill, Hydrogeologic Monitoring Plan - Summary Sampling and Analysis, dated October 2005, received October 25, 2005.
10. Consent Order/Judgment Number: N/A.
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 ERMD, Saginaw Bay District Supervisor, for review and approval.
13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated October 2005. The sampling analytical results shall be submitted to the DNRE's ERMD, Saginaw Bay District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the ERMD, Saginaw Bay 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 ERMD, Saginaw Bay 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 ERMD, Saginaw Bay District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the ERMD, Saginaw Bay District Supervisor.
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:** None.
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.

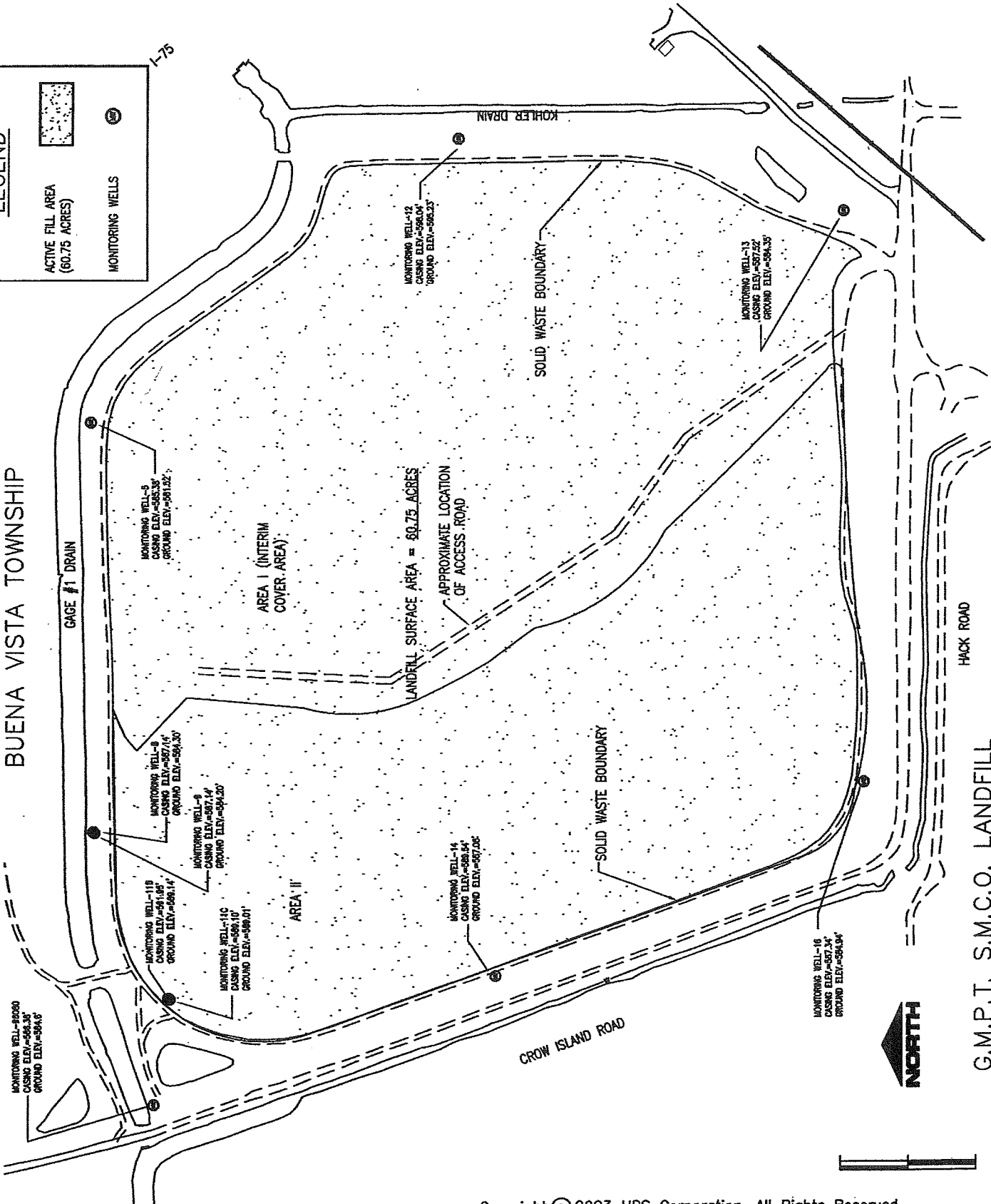
END OF LICENSE

SAGINAW COUNTY, MICHIGAN
SECTION 5, T.12N. - R.5E.
BUENA VISTA TOWNSHIP

LEGEND

ACTIVE FILL AREA
(60.75 ACRES)

MONITORING WELLS



G.M.P.T. S.M.C.O. LANDFILL

Copyright © 2003 URS Corporation, All Rights Reserved

TITLE

ATTACHMENT A

URS URS CORPORATION, GRAND RAPIDS, MI., 616-574-8500

DATE 07-28-2005	JOB NO. 13647138
DR. ARA	SKETCH NO.
CK. JAJ	SK-C1