



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: Eagle Valley Recycle and Disposal Facility

LICENSEE/OPERATOR: Waste Management of Michigan, Inc.

FACILITY OWNER: Waste Management of Michigan, Inc.

PROPERTY OWNER: Waste Management of Michigan, Inc.

FACILITY TYPE(S): Municipal Solid Waste Landfill

FACILITY ID NUMBER: 412314

COUNTY: Oakland

LICENSE NUMBER: 9454

ISSUE DATE: October 12, 2015

EXPIRATION DATE: October 12, 2020

FACILITY DESCRIPTION: The Eagle Valley Recycle and Disposal Facility, a municipal solid waste landfill, consists of 277.5 acres located at 600 West Silver Bell Road, Orion Township, Oakland County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: As identified in Item 2 of this license and Attachment A. Landfill cells are fully described in the approved plans and construction certifications referenced in items 8 and 9 of this license.

RESPONSIBLE PARTY: Mr. Charles Cassie, Senior District Manager
Waste Management of Michigan, Inc.
600 West Silver Bell Road
Orion Township, Michigan 48359
313-815-1513

RENEWAL OPERATING LICENSE: This License Number 9454 supersedes and replaces Solid Waste Disposal Area Operating License Number 9302 issued to Waste Management of Michigan, Inc. on January 27, 2011.

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

Rhonda S. Oyer, Acting Chief, Solid Waste Section
Office of Waste Management and Radiological Protection

Licensee: Waste Management of Michigan, Inc.
Facility Name: Eagle Valley Recycle and Disposal Facility
Operating License Number: 9454
Issue Date: October 12, 2015

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 1 (25.8 acres), Cell 2 (9.3 acres), Cell 3 (6.0 acres), Cell 4 (5.6 acres), Cell 5 (8.1 acres), Cell 6 (7.5 acres), Cell 7 (5.0 acres), Cell 8 (5.5 acres), Cell 9 (8.0 acres), Cell 10 (7.8 acres), and Cell 11 (12.9 acres) were authorized to receive waste by the previous license. This area's total acreage is 101.5 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 overlay liner over portions of Cells 1, 2, 6, and 10 (approximately 19.2 acres which is included in Item 2.a. above), and Cell 12 (11.1 acres) and Cell 13 (8.9 acres), totaling 20.0 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:

UNCONSTRUCTED AREA(S) WITHOUT FINANCIAL ASSURANCE: The area(s) identified as Cells 14, 15, 16, and 17 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 26.3 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 MDEQ on June 23, 2015, 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), Southeast Michigan 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 Waste Management of Michigan, Inc., for the Eagle Valley Recycle and Disposal Facility, dated June 22, 2015, and revised September 28, 2015. The Application consists of the following:
 - a. Application Form EQP 5507.
 - b. Application fee in the amount of \$15,000.00.
 - c. Certification of construction by NA.
 - d. Waste Characterization: N/A.

Licensee: Waste Management of Michigan, Inc.
Facility Name: Eagle Valley Recycle and Disposal Facility
Operating License Number: 9454
Issue Date: October 12, 2015

e. Restrictive Covenant:

The Eagle Valley Recycle and Disposal Facility restrictive covenant on 167.08 acres is on file at the Oakland County Register of Deeds recorded on August 17, 2015, as Liber 48506 pages 492. A copy is on file with the MDEQ.

f. Perpetual Care Fund Agreement, established as a standby trust account, signed by Diana Seng, Authorized Representative, Waste Management of Michigan, Inc. on January 13, 2015, was executed by the MDEQ on January 26, 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 \$12,456,684.00.

The Facility has provided financial assurance totaling \$12,456,684.72, 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 \$2,105,999.72 in the Facility's Perpetual Care Fund as of January 6, 2015. Of this amount, the MDEQ has granted the request to use \$2,105,999.72 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	\$10,350,685.00
Total Amount Received:	\$10,350,685.00

iv. 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 October 12, 2016, and each year thereafter.

8. The following documents approved with Construction Permit Number(s) 0253, 0411, and 4130 issued to the Eagle Valley Recycle and Disposal Facility on November 13, 1991, April 15, 2003, and December 21, 2012, respectively, are incorporated in this license by reference. The Facility was initially licensed pursuant to the repealed Garbage and Refuse Disposal Act, 1965 PA 87, therefore, the historical approved plans listed below also are incorporated in this license by reference:

- a. Engineering Plans for Cell 1 titled, "Eagle Valley Landfill," prepared by Midwestern Consulting, Inc., dated November 9, 1984, and revised April 11, 1985.
- b. Engineering Plans, prepared in November 1990, and revised in July 1991 and October 1991.

Licensee: Waste Management of Michigan, Inc.
Facility Name: Eagle Valley Recycle and Disposal Facility
Operating License Number: 9454
Issue Date: October 12, 2015

- c. Environmental Assessment, prepared by Black & Veatch, dated January 1991, and revised in letter prepared by Waste Management, Inc., dated November 1, 1991.
- d. Engineering Report titled, "Application for Permit," prepared by WMM, Mideast Region Design Group, dated February 1991, and revised October 1991.
- e. "Hydrogeological Investigation Report", dated October 1991, and revised in November 1991.
- f. "Construction Permit Application for Eagle Valley Phase II Development", prepared by Earth Tech, Inc., dated December 2002 and revised April 10, 2003, and October 21, 2005, (legal description revised to reflect a change in permit acreage due to the sale of a portion of the Facility's soil borrow area).
- g. "Hydrogeologic Investigation Phase II Development Eagle Valley, Orion Township, Oakland County, Michigan", prepared by NTH Consultants, Ltd., dated January 2002 and revised March 2003.
- h. Engineering plans titled "Waste Management of Michigan, Inc., Eagle Valley Recycling and Disposal Facility Phase II Development, Orion Township, Oakland County, Michigan." The plans consisting of 19 sheets were prepared by Earth Tech, Inc., dated November 2001 and revised April 4, 2003, and October 21, 2005, (sheets 1 and 2 revised to reflect a change in permit acreage due to the sale of a portion of the Facility's soil borrow area).
- i. "Eagle Valley Recycling and Disposal Facility, Phase II Development Permit Application, Responses to MDEQ's Technical Comments", prepared by Earth Tech, Inc., and dated March 4, 2003.
- j. "Eagle Valley Recycling and Disposal Facility, Phase II Development Construction Permit Application, Second Response to MDEQ's Comments", prepared by Earth Tech, Inc., and dated April 4, 2003.
- k. Application document (Volumes I, II, III, and IV) titled "Application for Permit to Construct a Solid Waste Disposal Area, Eagle Valley Recycle and Disposal Facility, West Area Development" dated June 2012, and revised October 2012, and November 2012. This document includes:
 - Volume I
 - "Engineering Report" prepared by CTI and Associates, Inc. (dated June 2012, and revised October 2012 and November 2012).
 - "Environmental Assessment" prepared by ASTI Environmental (dated May 31, 2012, and revised June 27, 2012, and October 25, 2012).
 - "Construction Quality Assurance Plan for the Installation of Lining Systems" prepared by CTI and Associates, Inc. (dated June 2012, and revised October 2012 and November 2012).
 - "Eagle Valley Recycling and Disposal Facility, West Area Development, Operations Plan" (dated June 2012, and revised October 2012 and November 2012).
 - "Eagle Valley Recycling and Disposal Facility, Closure Plan" (dated June 2012 and revised October 2012).
 - "Eagle Valley Recycling and Disposal Facility, Post-Closure Plan" (dated June 2012 and revised October 2012).
 - Volumes II and III
 - "Hydrogeologic Investigation Report," prepared by Golder Associates, Inc. (dated May 2012, and revised October 2012 and November 2012).
 - Volume IV
 - "Hydrogeologic Monitoring Plan," prepared by Golder Associates, Inc. (dated June 2012 and revised October 2012 and November 2012).
- l. Engineering Plan Set (consisting of 23 sheets numbered 1 through 7K1) titled "Eagle Valley Recycling and Disposal Facility, Waste Management of Michigan, Inc., West Area Construction Permit Application," prepared by CTI and Associates, Inc., dated June 2012 and revised July 3, 2012, October 26, 2012, November 16, 2012, April 17, 2015, May 20, 2015, and May 28, 2015.

Licensee: Waste Management of Michigan, Inc.
Facility Name: Eagle Valley Recycle and Disposal Facility
Operating License Number: 9454
Issue Date: October 12, 2015

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. Construction certification (for Cell 1), comprised of a report titled "Construction Certification Report #1" and engineering as-built plans for Cell 1 titled, "Certification No. 1", prepared by Midwest Engineering Consulting, Inc., dated December 18, 1985.
 - b. Engineering plans titled, "Leachate Disposal Sewer, Landfill West to Giddings Road," prepared by Midwestern Consulting, Inc., dated June 10, 1986, and revised September 8, 1987, September 8, 1987, and December 30, 1987.
 - c. Construction certification (for Cell 1) comprised of a report titled "Construction Certification Report #2" and engineering as-built plans for Cell 1 titled "Certification No. 2," prepared by Midwest Engineering Consulting, Inc., dated June 9, 1987.
 - d. Construction certification (for Cell 1) comprised of a report titled "Construction Certification Report #3" and engineering as-built plans for Cell 1 titled "Certification No. 3," prepared by Midwest Engineering Consulting, Inc., dated January 1, 1988.
 - e. Construction certification (for Cell 1), prepared by Midwest Engineering Consulting, Inc., comprised of a report titled "Construction Certification Report #4," dated February 1, 1988, and revised June 13, 1988, and engineering as-built plans for Cell 1 titled "Certification No. 4" dated February 1, 1988.
 - f. Construction certification (for Cell 1) comprised of a report titled "Construction Certification Report #5" and engineering as-built plans for Cell 1 titled "Certification No. 5," prepared by Midwest Engineering Consulting, Inc., dated October 15, 1988.
 - g. Responses to letter dated November 7, 1988, from the MDEQ regarding Construction Certification Report #5, prepared by Waste Management of North America, Inc., dated November 17, 1988.
 - h. Letter titled, "Secondary Leachate Collection System Flow Capacity Calculation," prepared by Waste Management, Inc., dated January 14, 1992
 - i. Engineering plans titled, "Cell 2 Construction Plan," prepared by Midwestern Consulting, Inc., dated March 16, 1992, revised April 17, 1992.
 - j. Engineering plans titled, "Eagle Valley - Cell 2 West Side Ditch," prepared by Midwestern Consulting, Inc., dated June 19, 1992.
 - k. Engineering plans titled, "Cell 1 Certification Addendum," prepared by Midwestern Consulting, Inc., dated July 20, 1992.
 - l. Engineering as-built plans titled, "Cell 2 Record Drawings," prepared by SEC Donohue, Inc., dated September 1992.
 - m. Construction certification for Cell 2 titled, "Construction Documentation for Eagle Valley Recycling and Disposal Facility," Volume I-IV, prepared by SEC Donohue, Inc., project number 19612, dated October 1992.
 - n. Letter titled, "Eagle Valley RDF Verbal Authorizations," prepared by Eagle Valley, dated April 26, 1993.
 - o. Engineering plans titled, "Proposed Construction Plans for Cell 2B," prepared by Rust E & I, and dated March 1993.
 - p. Report titled, "Eagle Valley RDF Perched Groundwater Control System Design," (Cells 2B – 5), prepared by Rust E & I, and dated May 4, 1993, and approved with conditions in letter from the MDEQ dated May 20, 1993.

Licensee: Waste Management of Michigan, Inc.
Facility Name: Eagle Valley Recycle and Disposal Facility
Operating License Number: 9454
Issue Date: October 12, 2015

- q. Construction certification for Cell 2B titled, "Construction Documentation for Eagle Valley Recycling and Disposal Facility," Volume I, II, prepared by Rust E & I, project number 71095, dated July 1993. Certification includes (in Appendix M) engineering as-built plans titled, "Record Drawings for Cell 2B" dated July 1993, and with modified drawing 11, October 25, 1993.
- r. Construction certification for Cell 5 titled, "Construction Documentation for Eagle Valley Recycling and Disposal Facility," Volume I, II, prepared by Rust E & I, project number 71371, dated January 1994. Certification includes (in Appendix P) engineering as-built plans titled, "Record Drawings for Cell 5" dated December 1993.
- s. Construction certification titled, "Construction Documentation for Eagle Valley Recycling and Disposal Facility Cell 3 and 4 Organic Soil Removal," prepared by Rust E & I, dated March 1994.
- t. Report titled, "Perched Groundwater Control System Design for Cell 6," prepared by Rust E & I, dated April 1994. Approved with conditions in letter from the MDEQ dated August 29, 1994.
- u. Construction certification for Cell 6 titled, "Construction Documentation for Eagle Valley Recycling and Disposal Facility," Volume I and II, prepared by Rust E & I, project number 72688, dated August 1994 and amended September 1994. Certification includes (in Appendix Q) engineering as-built plans titled, "Record Drawings for Cell 6" dated August 1994 and amended September 1994.
- v. Permit modifications for Addenda II, Surface Water Controls, Section 6.0, prepared by Rust E & I, dated December 1994.
- w. Permit modifications for Addenda II, prepared by Rust E & I, dated December 1994.
- x. Engineering plan titled "Proposed Expansion Addenda No. II," dated and sealed on February 17, 1995.
- y. Construction certification for Cell 4 titled, "Construction Documentation for Eagle Valley Recycling and Disposal Facility," Volume I, II, prepared by Rust E & I, project number 73867, dated September 1995, revised November 8, 1995, and November 27, 1995. Certification includes (in Appendix K) engineering as-built plans titled, "Record Drawings for Cell 4," dated September 1995.
- z. Letter titled, "Cell 4 Construction Quality Assurance Document Report, Primary and Secondary Pump Operations," prepared by Rust E & I, dated November 27, 1995.
- aa. Construction certification for Cell 3 titled, "Construction Documentation for Eagle Valley Recycling and Disposal Facility," Volume I and II, prepared by Rust E & I, project number 73867, dated December 1995. Certification includes (in Appendix K) engineering as-built plans titled, "Record Drawings for Cell 3" dated December 1995.
- bb. Construction certification for Cell 7, 5.0 acres, titled "Construction Quality Assurance Documentation Report, Cell 7 Construction by Rust E & I, Project N. 75567," dated November 1996.
- cc. Construction quality assurance plan and specifications for Cell 9, 8.0 acres, titled "Construction Quality Assurance," dated April 1997.
- dd. "Permit Alteration Request for Cells 8-10, Eagle Valley", dated March 1997.
- ee. Engineering plan titled, "Eagle Valley Recycling and Disposal Facility Cell 9 Construction, Leachate Collection System Pipe Connection Detail," prepared by Rust E & I, dated November 1997.
- ff. Construction certification for Cell 9, 8.0 acres, titled "Construction Quality Assurance Documentation Report, Cell 9 Construction by Rust E & I, Project N. 101081," dated January 1998, signed and sealed by Mr. Morgan Subbarayan, P.E., and approved by the MDEQ on March 6, 1998.

Licensee: Waste Management of Michigan, Inc.
Facility Name: Eagle Valley Recycle and Disposal Facility
Operating License Number: 9454
Issue Date: October 12, 2015

- gg. Construction certification for Cell 8, 5.3 acres, titled "Construction Quality Assurance Documentation Report, Cell 8 Construction by Rust E & I, Project No., 103319," dated September 1998, signed and sealed by Mr. Morgan Subbarayan, P.E., and approved by the MDEQ on November 2, 1998.
- hh. Construction certification for Cell 10, 7.8 acres, titled "Construction Quality Assurance Documentation Report, Cell 10 Construction by EarthTech, Project No. 35232" dated August 1999, signed and sealed by Mr. Morgan Subbarayan, P.E., and approved by MDEQ on October 19, 1999.
- ii. Engineering as-built plans titled, "Cell 10 Record Drawings," prepared by EarthTech, dated September 1999.
- jj. Letter titled, "Eagle Valley Recycle and Disposal Facility Removal of Valve Vaults," dated November 1, 2000, prepared by Eagle Valley. Approved by the MDEQ in letter with same title dated December 1, 2000.
- kk. Engineering plans titled, "Proposed Leachate Collection Pipe Connection Details," prepared by EarthTech, dated November 2000.
- ll. Letter titled, "Alternate Daily Cover Request – Auto Fluff," dated January 15, 2001, approved with license amendment, dated March 9, 2001.
- mm. Construction certification for Cell 11A, titled "Construction Documentation Report, Eagle Valley Recycling and Disposal Facility, Cell 11A," prepared by Earth Tech, dated December 2003, signed and sealed by Dr. Te-Yang Soong, Ph.D., P.E., and approved by the MDEQ on February 6, 2004.
- nn. Liner repair certification titled "Construction Documentation Report, Cell 11A Repair Report, Eagle Valley Recycling & Disposal Facility," prepared by Earth Tech, dated April 2004 and approved by the MDEQ on April 22, 2004.
- oo. Construction certification for Cell 11B and overfill liner, titled "Cell 11B and Phase 1 Overfill Liner Construction Documentation Report, Eagle Valley Recycling and Disposal Facility, Orion Township, Michigan," prepared by CTI and Associates, Inc., dated October 2004, signed and sealed by Dr. Te-Yang Soong, Ph.D., P.E. and approved by the MDEQ on December 29, 2004.
- pp. Construction certification for Phase 1 Overfill leachate drainage layer titled "Eagle Valley RDF Phase 1 Overfill Liner Sand Placement," prepared by CTI and Associates, Inc., dated May 25, 2005, signed and sealed by Mr. Morgan Subbarayan, P.E., and approved by MDEQ on July 19, 2005.
- qq. Liner repair certification titled "Eagle Valley RDF Phase 1 Overfill Liner Sand Placement," prepared by CTI and Associates, Inc., dated August 18, 2005, and approved by MDEQ on August 30, 2005.
- rr. Engineering plan sheet No. 1 titled "Retrofitted Forcemain Cleanout Plan," prepared by CTI and Associates, Inc. dated July 2007, and received by the MDEQ on July 11, 2007.
- ss. Document titled "Operations Plan for Alternate Daily Cover Materials, Eagle Valley Recycle and Disposal Facility, Orion Township, Michigan", dated April 2011, and submitted by Waste Management with a transmittal letter dated April 27, 2011.
- tt. Letter report, dated March 7, 2012, prepared by CTI and Associates, Inc., titled "Eagle Valley Recycling and Disposal Facility, Proposed Upgrades to Gas Extraction System and Geosynthetic Quality Requirements", including Bid Drawing Number 3 (titled "Gas System Plan Below Overfill Liner and Details") and updated geosynthetic specifications, (based on the current standards provided by the Geosynthetic Institute) related to the geosynthetic clay liner and 60-mil textured linear low density polyethylene components of the overfill liner system.
- uu. Engineering plan set (drawings numbered 1 through 4) titled "WMI-Eagle Valley RDF, Proposed 2013 Landfill Gas System Modifications", prepared by McNeely & Lincoln Associates, Inc., dated October 8, 2013 and received by the MDEQ on October 9, 2013.

Licensee: Waste Management of Michigan, Inc.
Facility Name: Eagle Valley Recycle and Disposal Facility
Operating License Number: 9454
Issue Date: October 12, 2015

- vw. Engineering plan set (drawings numbered 1 through 3) titled "WMI-Eagle Valley RDF, Proposed 2014 (Phase 1) Landfill Gas System Modifications", prepared by McNeely & Lincoln Associates, Inc., dated February 2014 and received by the MDEQ via electronic mail submittal on March 4, 2014.
 - ww. Engineering drawing (Drawing No. 1) titled "Eagle Valley Recycling and Disposal Facility, Phase 3 Overfill Liner, Gas System Plan Below Overfill Liner", prepared by CTI and Associates, Inc., dated May 27, 2014 and received by the OWMRP via e-mail on May 27, 2014.
 - xx. Engineering drawing titled "Temporary Above Grade Header System for Out of Waste Collection Wells/Landfill Gas Management System Proposed Out of Waste Collectors", prepared by McNeely & Lincoln Associates, Inc., dated August 1, 2014 and received by the MDEQ on August 4, 2014.
 - yy. Engineering detail titled "EVRDF – Out of Refuse Gas Extraction Well Detail", prepared by Golder Associates Inc. and submitted by Waste Management via e-mail on August 1, 2014.
 - zz. Work plan titled "Eagle Valley Recycling & Disposal Facility, Work Plan for On-Site Gas Probes/Collectors", prepared by Golder Associates, Inc., dated September 19, 2014.
 - aaa. Engineering drawing (Drawing No. 2) titled "Permanent OWC Gas Collection Header and Connection to Existing System, Eagle Valley RDF – Permanent Out of Waste Gas Collection System", prepared by McNeely & Lincoln Associates, Inc., dated November 19, 2014 and received by the OWMRP via e-mail on November 24, 2014.
 - bbb. Engineering details titled "20" x 12" Dual Contained Sump View Point A" and "20" x 12" Dual Contained Sump Top View", prepared by Lee Supply Co. Inc., dated November 17, 2014 (revised November 20, 2014) and received by the OWMRP via e-mail November 24, 2014.
 - ccc. Engineering plan set (drawings numbered 1 through 5) titled "Eagle Valley Recycling and Disposal Facility, Waste Management of Michigan, Inc., Cell 12 Perched Water Drain Construction Drawings", prepared by CTI and Associates, Inc. (CTI), dated October 2014. CTI provided drawdown calculations to the OWMRP via e-mail on November 6, 2014 to support the spacing of the branch drains in the underdrain system.
 - ddd. Gradation requirements for the granular filter to be used in the underdrain system for the western expansion area provided by CTI via e-mail on October 24, 2014. CTI provided a filter design analysis to the OWMRP via e-mail on November 6, 2014 to support the gradation specifications.
 - eee. Work plan titled "Eagle Valley Recycling and Disposal Facility, Work Plan to Delineate Perched Zone in Proposed Cell 13", prepared by CTI and Associates, Inc., dated February 2, 2015.
 - fff. Revised pump selection table and leachate collection system pump performance table for the new proposed leachate force main plan (as shown on drawings 4E and 4F), prepared by CTI and Associates, Inc., dated February 27, 2015.
 - ggg. Plans and supporting calculations for interim storm water management including: Plan set titled "Waste Management Eagle Valley Recycle and Disposal Facility, Soil Erosion and Sedimentation Control Plan – 2015 / 2016, Orion Township, Oakland County, Michigan", prepared by CTI and Associates, Inc., dated March 2015 and revised May 2015; and SEDCAD 4 output document titled "EVRDF SESC 2015 Plan F" and drawing titled "Eagle Valley Recycling and Disposal Facility Erosion Plan – Plan F", prepared by CTI and Associates, Inc., dated April 16, 2015, and March 19, 2015, respectively.
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 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

Licensee: Waste Management of Michigan, Inc.
 Facility Name: Eagle Valley Recycle and Disposal Facility
 Operating License Number: 9454
 Issue Date: October 12, 2015

waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the MDEQ's OWMRP, Southeast Michigan District Office Supervisor, for review and approval.

13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated June 2012 and revised November 2012. The sampling analytical results shall be submitted to the MDEQ's OWMRP, Southeast Michigan District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the OWMRP, Southeast Michigan 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, Southeast Michigan 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, Southeast Michigan District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the OWMRP, Southeast Michigan District Supervisor.
18. Leakage Control Criteria:

The active portions of the unit(s) authorized to receive waste by this license is a monitorable 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 secondary collection system is 242 gallons/acre/day for Cell 2, 247 gallons/acre/day for Cell 3, 269 gallons/acre/day for Cell 4, 160 gallons/acre/day for Cell 5, 154 gallons/acre/day for Cell 6, 165 gallons/acre/day for Cell 7, 150 gallons/acre/day for Cell 8, 103 gallons/acre/day for Cell 9, 103 gallons/acre/day for Cell 10, and for Cells 11 through 17 is 25 gallons/acre/day.

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 OWMRP, 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) Dredged Solids	On-Site Sed. Ponds and Channels	Varies
(2) Class A and B Materials	Various	Varies
(3) Petroleum Contaminated Soils Meeting the guidelines of OWMRP 115-10	Various	Varies
(4) Contaminated Soils	Detroit Events Center Project	Varies
(5) Auto Fluff	Strong Steel Products of Detroit and Ferrous Processing and Trading Company of Detroit and Pontiac	Varies

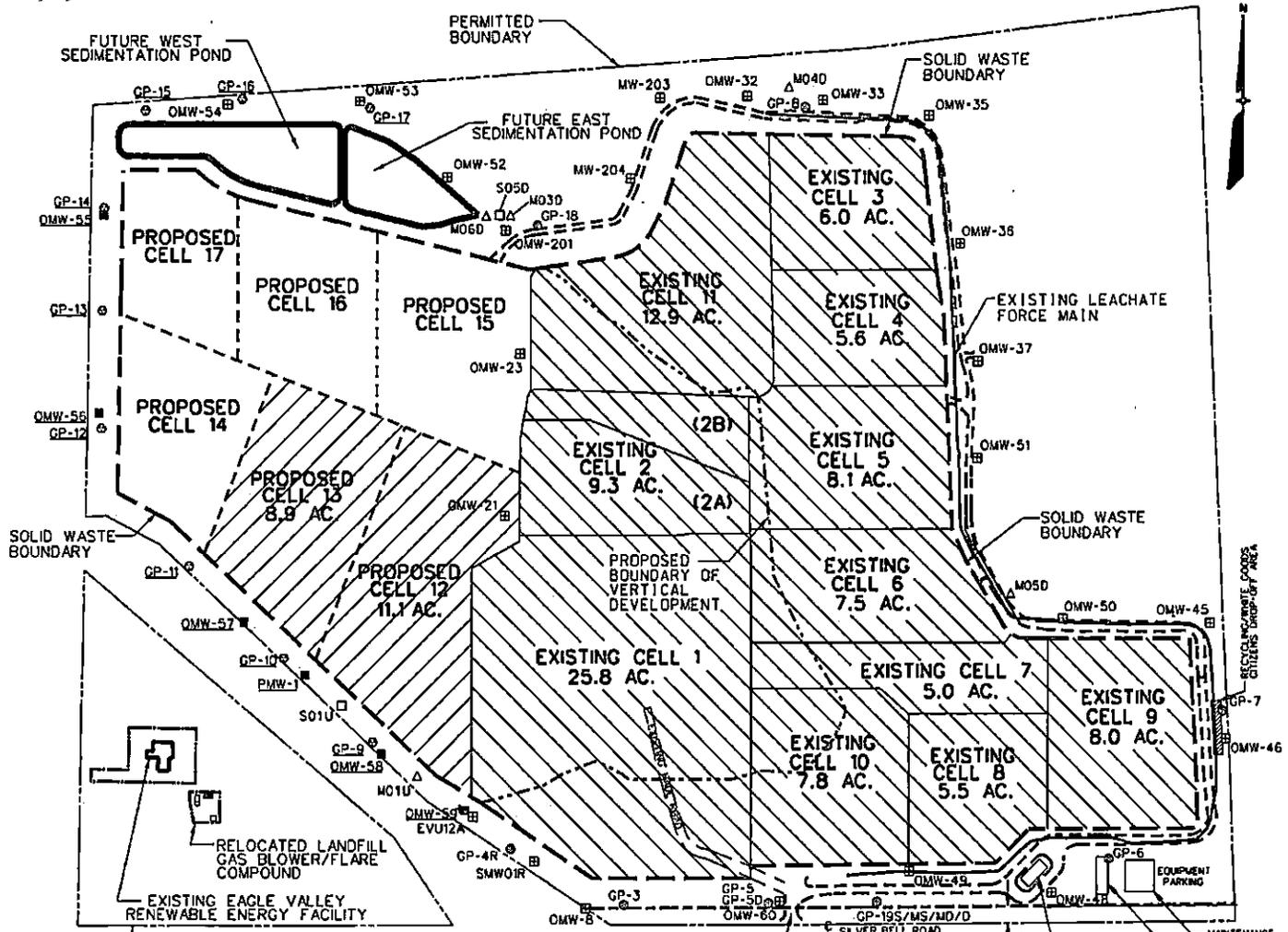
Licensee: Waste Management of Michigan, Inc.
Facility Name: Eagle Valley Recycle and Disposal Facility
Operating License Number: 9454
Issue Date: October 12, 2015

- 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.
 - (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 MDEQ 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 Policy and Procedure OWMRP-115-10, 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 expiration of this operating license.
- b. A 0.5-acre area is designated at the Facility for white goods and/or recycling.
- c. The licensee shall use the active landfill cells as staging areas for compost materials prior to the compost materials being shipped off-site. The licensee shall monitor these staging areas accordingly, and if this operation adversely impacts the environment or creates a nuisance, the licensee shall re-evaluate the activity and take all necessary steps to prevent impacts or nuisance to the environment. The MDEQ reserves the right to revoke the approval of such operation if it continues to impact the environment or create a nuisance.

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

TIME PLOTTED: 4:53:02 PM
 DATE PLOTTED: 7/17/2015
 FILENAME: L:\Shared\proj\Projects\Commercial Waste Management\Eagle Valley\2118070058_Expansion\CAD\Drawings\Attachment A - June 2015.dgn



LEGEND

- △ M01U UNDERDRAIN SAMPLING LOCATION
- S01U SURFACE WATER SAMPLING LOCATION
- ▣ OMW-25 EXISTING GROUNDWATER MONITORING WELL
- OMW-25 PROPOSED GROUNDWATER MONITORING WELL
- ⊗ GP-3 EXISTING GAS MONITORING PROBE
- ⊕ GP-9 PROPOSED GAS MONITORING PROBE
- - - EXISTING ACCESS ROADS
- SOLID WASTE BOUNDARY
- EXISTING CELL BOUNDARY (CELLS 1 - 11)
- - - PROPOSED CELL BOUNDARY (CELLS 12 - 17)

	ACTIVE PORTION NOT AT FINAL GRADE	101.5 ACRES
	UNCONSTRUCTED AREAS WITH FINANCIAL ASSURANCE	20.0 ACRES
	UNCONSTRUCTED AREAS WITHOUT FINANCIAL ASSURANCE	26.3 ACRES
	UNCLOSED AREA AT FINAL GRADE	0 ACRES
	PARTIALLY CLOSED AREA	0 ACRES
	ISOLATION / ANCILLARY AREA	129.7 ACRES
	TOTAL FACILITY AREA	277.5 ACRES



EAGLE VALLEY RECYCLING AND DISPOSAL FACILITY

**ATTACHMENT - A
 JUNE 2015**

DRAWING SIZE: 8.5X11