

Michigan Department of Environmental Quality
Air Quality Division

State Registration Number
N1216

**RENEWABLE OPERATING PERMIT
STAFF REPORT**

ROP Number
MI-ROP-N1216-2011

Westside Recycling and Disposal Facility

SRN: N1216

Located at

14094 West M-60, Three Rivers, St. Joseph County, Michigan 49093

Permit Number: MI-ROP-N1216-2011

Staff Report Date: May 9, 2011

This Staff Report is published in accordance with Sections 5506 and 5511 of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). Specifically, Rule 214(1) requires that the Michigan Department of Environmental Quality (MDEQ), Air Quality Division (AQD), prepare a report that sets forth the factual basis for the terms and conditions of the Renewable Operating Permit (ROP).

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May 9, 2011 STAFF REPORT

Purpose

Major stationary sources of air pollutants, and some non-major sources, are required to obtain and operate in compliance with a ROP pursuant to Title V of the federal Clean Air Act of 1990 and Michigan's Administrative Rules for air pollution control pursuant to Section 5506(1) of Act 451. Sources subject to the ROP program are defined by criteria in Rule 211(1). The ROP is intended to simplify and clarify a stationary source's applicable requirements and compliance with them by consolidating all state and federal air quality requirements into one document.

This report, as required by Rule 214(1), sets forth the applicable requirements and factual basis for the draft permit terms and conditions including citations of the underlying applicable requirements, an explanation of any equivalent requirements included in the draft permit pursuant to Rule 212(5), and any determination made pursuant to Rule 213(6)(a)(ii) regarding requirements that are not applicable to the stationary source.

General Information

Stationary Source Mailing Address:	Westside Recycling and Disposal Facility 14094 West M-60 Three Rivers, Michigan 49093
Source Registration Number (SRN):	N1216
North American Industry Classification System (NAICS) Code:	562212
Number of Stationary Source Sections:	1
Is Application for a Renewal or Initial Issuance?	Renewal
Application Number:	201000108
Responsible Official:	Mr. Eric Shafer, District Manager 269-279-5444
AQD Contact:	Mr. Matt Deskins, Environmental Quality Analyst 269-567-3542
Date Permit Application Received:	December 1, 2010
Date Application Was Administratively Complete:	December 8, 2010
Is Application Shield In Effect?	Yes
Date Public Comment Begins:	May 9, 2011
Deadline for Public Comment:	June 8, 2011

Source Description

Westside Recycling and Disposal Facility (WRDF) is a Type II Municipal Solid Waste Landfill (MSWL) as defined in 40 Code of Federal Regulations (CFR) 60.751, and is owned and operated by Waste Management of Michigan, LLC. The WRDF has a design capacity greater than 2.5 million megagrams and has estimated uncontrolled Non-Methane Organic Compound (NMOC) emissions greater than 50 megagrams per year; therefore, WRDF is subject to the federal New Source Performance Standards (NSPS) for MSWL as codified in 40 CFR, Part 60, Subpart WWW. The WRDF currently has a control system in place that actively draws out landfill gas and is routed to two open flares. (Note: EUOPENFLARE1 generally operates when the off-site landfill gas treatment system is not in operation and EUOPENFLARE2 operates when the landfill gas from certain portions of the landfill do not meet the specifications of the off-site user. Please see the following paragraph.)

It should be noted that WRDF provides landfill gas to Biogas Energy. Biogas Energy converts the landfill gas to pipeline grade natural gas and sells it to a local utility. Biogas Energy owns property that is adjacent to WRDF. Although Biogas Energy is located adjacent to WRDF and processes landfill gas generated by WRDF, the United States Environmental Protection Agency (USEPA) determined that the two facilities did not constitute one stationary source with respect to Title V of the Clean Air Act Amendment of 1990. The process equipment owned and operated by Biogas Energy is not included in this ROP. The Biogas Energy stationary source is covered by a Permit to Install and is subject to 40 CFR, Part 60, Subpart A, because it controls emissions from an NSPS affected stationary source.

The following table lists stationary source emission information as reported to the Michigan Air Emissions Reporting System in the **2009** submittal.

TOTAL STATIONARY SOURCE EMISSIONS

Pollutant	Tons per Year
Carbon Monoxide (CO)	5.4
Nitrogen Oxides (NO _x)	0.3
Particulate Matter (PM)	3.9
Sulfur Dioxide (SO ₂)	0.1
Volatile Organic Compounds (VOC)	10.0
Non-Methane Organic Compounds (NMOC)	25.7

**As listed pursuant to Section 112(b) of the federal Clean Air Act.

See Parts C and D in the draft ROP for summary tables of all processes at the stationary source that are subject to process-specific emission limits or standards.

Regulatory Analysis

The following is a general description and history of the source. Any determinations of regulatory non-applicability for this source are explained below in the Non-Applicable Requirement part of the Staff Report and identified in Part E of the ROP.

The stationary source is located in St. Joseph County, which is currently designated by the USEPA as attainment/unclassified for all criteria pollutants.

The stationary source is subject to 40 CFR, Part 70, because the potential to emit carbon monoxide exceeds 100 tons per year and the source is subject to 40 CFR, Part 60, Subpart WWW (New Source Performance Standards for Municipal Solid Waste Landfills), that requires a 40 CFR, Part 70, permit based on a design capacity in excess of 2.5 million megagrams and 2.5 million cubic meters.

No emissions units at the stationary source are currently subject to the Prevention of Significant Deterioration (PSD) regulations of Part 18, PSD of Air Quality of Act 451, because at the time of New Source Review, permitting the potential to emit of carbon monoxide was less than 250 tons per year.

EULANDFILL, EUACTIVECOLL, and FGOPENFLARES at the stationary source are subject to the NSPS for MSWL promulgated in 40 CFR, Part 60, Subparts A and WWW.

EULANDFILL, EUACTIVECOLL, and FGOPENFLARES at the stationary source are subject to the Maximum Achievable Control Technology Standards for MSWL promulgated in 40 CFR, Part 63, Subparts A and AAAA.

EUASBESTOS at the stationary source is subject to the National Emission Standard for Hazardous Air Pollutants for Asbestos promulgated in 40 CFR, Part 61, Subparts A and M.

FGOPENFLARES are exempt from Rule 336.1201 permitting by Rule 336.1285(aa) if emissions are below the significance thresholds specified by Rule 336.1278. The stationary source conducted this analysis and demonstrated that the potential to emit of regulated air pollutants was under the significance level thresholds.

The monitoring conditions contained in the ROP are necessary to demonstrate compliance with all applicable requirements and are consistent with the "Procedure for Evaluating Periodic Monitoring Submittals."

The emission limitation(s) or standard(s) at the stationary source are exempt from the federal Compliance Assurance Monitoring regulation under 40 CFR, Part 64, because they are addressed by 40 CFR, Part 60, Subpart WWW.

Please refer to Parts B, C, and D in the draft ROP for detailed regulatory citations for the stationary source. Part A contains regulatory citations for general conditions.

Source-wide Permit to Install (PTI)

Rule 214a requires the issuance of a Source-wide PTI within the ROP for conditions established pursuant to Rule 201. All terms and conditions that were initially established in a PTI are identified with a footnote designation in the integrated ROP/PTI document.

The following table lists all individual PTIs that were incorporated into previous ROPs. The PTIs issued after the effective date of ROP No. MI-ROP-N1216-2006 are identified in Appendix 6 of the ROP.

PTI Number			
NA			

Equivalent Requirements

This permit does not include any equivalent requirements pursuant to Rule 212(5). Equivalent requirements are enforceable applicable requirements that are equivalent to the applicable requirements contained in the original PTI, a Consent Order/Judgment, and/or the State Implementation Plan.

Non-applicable Requirements

Part E of the draft ROP lists requirements that are not applicable to this source as determined by the AQD, if any were proposed in the application. These determinations are incorporated into the permit shield provision set forth in Part A (General Conditions 26 through 29) of the draft ROP pursuant to Rule 213(6)(a)(ii).

Processes in Application Not Identified in Draft ROP

The following table lists processes that were included in the ROP application as exempt devices under Rule 212(4). These processes are not subject to any process specific emission limits or standards in any applicable requirement.

Exempt Emission Unit ID	Description of Exempt Emission Unit	ROP Exemption	PTI Permit Exemption
EUWASTEANTIFREEZ	150 gallon waste antifreeze storage tank.	R 336.1212(4)(c)	R 336.1284(i)
EUGASOLINETANK	300 gallon gasoline storage tank.	R 336.1212(4)(c)	R 336.1284(g)(i)
EUSPACEHEATER1	120,000 Btu/hr gas fired space heater in landfill office.	R 336.1212(4)(b)	R 336.1282(b)(i)
EUSPACEHEATER2	Seven (7) 165,000 Btu/hr gas fired space heaters in maintenance building.	R 336.1212(4)(b)	R 336.1282(b)(i)
EUSPACEHEATER3	Two (2) 100,000 Btu/hr gas fired space heaters in hauling company.	R 336.1212(4)(b)	R 336.1282(b)(i)
EUSPACEHEATER4	Three (3) 125,000 Btu/hr gas fired space heaters in maintenance building.	R 336.1212(4)(b)	R 336.1282(b)(i)
EUCUTDRILLGRIND	Cutting, drilling, and grinding operations in the maintenance building.	R 336.1212(4)(d)	R 336.1285(l)(vi)
EUWASTEOILTANK1	150 gallon waste oil tank.	R 336.1212(4)(c)	R 336.1284(i)
EUWASTEOILTANK2	300 gallon waste oil tank.	R 336.1212(4)(c)	R 336.1284(i)
EUWATERHEATER1	30,000 Btu/hr gas fired water heater in landfill office.	R 336.1212(4)(b)	R 336.1282(b)(i)
EUWATERHEATER2	38,000 Btu/hr gas fired water heater in hauling company.	R 336.1212(4)(b)	R 336.1282(b)(i)
EUWATERHEATER3	350,000 Btu/hr gas fired water heater for power washer.	R 336.1212(4)(b)	R 336.1282(b)(i)

Draft ROP Terms/Conditions Not Agreed to by Applicant

This permit does not contain any terms and/or conditions that the AQD and the applicant did not agree upon pursuant to Rule 214(2).

Compliance Status

The AQD finds that the stationary source is expected to be in compliance with all applicable requirements as of the effective date of this ROP.

Action Taken by the MDEQ

The AQD proposes to approve this permit. A final decision on the ROP will not be made until the public and affected states have had an opportunity to comment on the AQD's proposed action and draft permit. In addition, the USEPA is allowed up to 45 days to review the draft permit and related material. The AQD is not required to accept recommendations that are not based on applicable requirements. The delegated decision maker for the AQD is Ms. Mary Douglas, Kalamazoo District Supervisor. The final determination for ROP approval/disapproval will be based on the contents of the permit application, a judgment that the stationary source will be able to comply with applicable emission limits and other terms and conditions, and resolution of any objections by the USEPA.

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June 16, 2011 STAFF REPORT ADDENDUM

Purpose

A Staff Report dated May 9, 2011, was developed in order to set forth the applicable requirements and factual basis for the draft ROP terms and conditions as required by R 336.1214(1). The purpose of this Staff Report Addendum is to summarize any significant comments received on the draft ROP during the 30-day public comment period as described in R 336.1214(3). In addition, this addendum describes any changes to the draft ROP resulting from these pertinent comments.

General Information

Responsible Official:	Eric Shafer, District Manager 269-279-5444
AQD Contact:	Matthew Deskins, EQA 12 269-567-3542

Summary of Pertinent Comments

No pertinent comments were received during the 30-day public comment period.

Changes to the May 9, 2011 Draft ROP

No changes were made to the draft ROP.