

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

FCE Summary Report

Facility : Waste Management of Michigan, Inc. – Autumn Hills	SRN : N6006
Location : 700 56th Ave.	District : Grand Rapids
	County : OTTAWA
City : ZEELAND State: MI Zip Code : 49464	Compliance Status : Compliance
Source Class : MAJOR	Staff : Chris Robinson
FCE Begin Date : 9/21/2022	FCE Completion Date : 9/21/2023
Comments : FY '23 Inspection	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
09/21/2023	ROP Semi 1 Cert	Compliance	Section 2 (Treatment/Generating Station): Semi-Annual ROP Report Certification received on time (postmarked 9/15/2023) and properly certified. One deviation for not testing engine 1 within 5 years was noted. Engine 1 was down for maintenance, was completed it was tested.

Activity Date	Activity Type	Compliance Status	Comments
09/21/2023	MACT (Part 63)	Compliance	<p>Section 2 (Treatment/Generating Station): Postmarked 9/15/23. Semiannual report pursuant to 40 CFR Part 63 Subpart AAAAA in lieu of annual reporting required by 40 CFR 60 Subpart XXX since the landfill complies with the operational provisions of 63.1958, 63.1960, and 63.1961. Control Device Downtime (63.1981(h)(3)) - The facility has noted 4 downtimes. However, these only reflect times when both the treatment/generation station's engines and treatment system were down. Since the treatment & Generating station and the landfill are one stationary source control device downtimes should be when the engines, treatment system, and landfill flare are not operating. Since the landfill reports all downtimes of the flare, regardless of operating status of the treatment and generation station, control device downtimes are being captured on the landfill side. Therefore, this is supplemental to the Landfill's Semi-annual NEHAP report.</p>

Activity Date	Activity Type	Compliance Status	Comments
09/21/2023	MACT (Part 63)	Compliance	<p>Section 1 (Landfill): Postmarked 9/15/23. Semiannual report pursuant to 40 CFR Part 63 Subpart AAAA in lieu of annual reporting required by 40 CFR 60 Subpart XXX since the facility complies with the operational provisions of 63.1958, 63.1960, and 63.1961. Monitoring and Exceedances (63.1981(h)(1)) - 2 positive pressure exceedances all corrected within 10 days ; Diversion of gas (63.1981(h)(2)) - None; Control Device Downtime (63.1981(h)(3)) - 1 hr 20 min for maintenance on 1/27/23, 40 min for maintenance on 3/2/23, and 3 hrs. 30 min on 5/25/23; Collection System Downtime (63.1981(h)(4)) – same as control system downtime; Surface Emissions Monitoring (63.1981(h)(5)) - Three exceedances (>500ppm) all corrected in a timely manner; System Expansions (63.1981(h)(6)) – installed well BC00016C; Corrective Action/Root Cause Analysis (63.1981(h)(7)) - None required; Enhanced Monitoring (63.1981(h)(8)) - Not required.</p>
09/21/2023	ROP Semi 1 Cert	Compliance	<p>Section 1 (Landfill): Semi-Annual ROP Report Certification received on time (postmarked 9/14/2023) and properly certified. One deviation was noted for not recording the presence of a flame or flare flow on 1/27/2023 from 8:40am - 9:10am (30 minutes). Flare was not operating due to routine maintenance.</p>
09/21/2023	NSPS (Part 60)	Compliance	<p>Section 2 (Treatment/Generating Station): The facility's Semi-Annual Certification indicated that a NSPS/NESHAP report was included. Since the landfill complies with the operational provisions of 63.1958, 63.1960, and 63.1961 of 40 CFR Part 60 Subpart XXX they need to comply with the reporting requirements of the NESHAP (AAAA) instead. See review for the NESHAP AAAA report.</p>

Activity Date	Activity Type	Compliance Status	Comments
08/02/2023	On-site Inspection	Compliance	FY '23 on-site inspection to determine the facility's compliance status with respect to MI-ROP-N6006-2023 and any other applicable air quality rules and regulations.
06/26/2023	Stack Test	Compliance	A stack test report was received for the NANR- Autumn Hills Generating Station. The test was conducted on April 19, 2023, pursuant to ROP No. MI-ROP-N6006-2018a and 40 CFR Part 60, Subpart JJJJ, for EUENGINE1. Results were as follows: NOx emissions were 1.0 g/bhp-hr (2.0 g/bhp-hr limit), CO emissions were 1.4 g/bhp-hr (3.1 g/bhp-hr limit), VOC emissions were 0.10 lb/hr (0.41 g/bhp-hr limit), HCOH emissions were 0.64 lb/hr (1.72 lb/hr limit), and SO2 emissions were 0.98 lb/hr (2.96 lb/hr limit). All results were within applicable limits. The engine operated with an output of 800 kW.
04/05/2023	MAERS	Compliance	Emissions are consistent with supporting documentation. No errors. This MAERS Report is acceptable.
03/22/2023	ROP SEMI 2 CERT	Compliance	Postmarked 3/15/23. Original signature provided by responsible official. No deviations were reported. No further action required.
03/22/2023	ROP Annual Cert	Compliance	Postmarked 3/15/23. Original signature provided by responsible official. No deviations were reported. No further action required.
03/22/2023	MACT (Part 63)	Compliance	Postmarked 3/15/23. Annual Compliance Report pursuant to 40 CFR 63 Subpart ZZZZ. Company fulfilled reporting obligations.
03/22/2023	MACT (Part 63)	Compliance	Postmarked 3/15/23. SSM reporting for Subpart AAAA. The company has fulfilled its regulatory obligations under 40 CFR Part 63, Subpart AAAA by submitting the SSM report. There were 4 treatment system shutdown events and 3 malfunction events.

Activity Date	Activity Type	Compliance Status	Comments
03/15/2023	MACT (Part 63)	Compliance	Semiannual Compliance with Subpart AAAAA (SSM). The company has fulfilled its regulatory obligations under 40 CFR Part 63, Subpart AAAAA by submitting the SSM report. This report was no longer applicable under the rule after 9/27/2021. There were 0 GCCS startup events, 2 GCCS shutdown events and 0 GCCS malfunction events.
03/15/2023	ROP SEMI 2 CERT	Compliance	Original signature provided by responsible official. During the reporting period, there was 1 occurrence when the flame presence was not recorded due to power loss. The deviation was resolved at the time of reporting.
03/15/2023	ROP Annual Cert	Compliance	Original signature provided by responsible official. During the reporting period, there were 2 deviations 1 occurrence when the flame temperature of the flare was not recorded due to maintenance. A deviation was reported for a lack of the flare temp record in the semi-annual period. 1 occurrence when the flame presence was not recorded due to power loss. The deviation was resolved at the time of reporting. All deviations were resolved at the time of reporting.

Activity Date	Activity Type	Compliance Status	Comments
01/11/2023	Stack Test	Compliance	<p>A stack test report was received for the NANR- Autumn Hills Generating Station. The test was conducted on April 11, 2022, pursuant to ROP No. MI-ROP-N6006-2018a and 40 CFR Part 60, Subpart JJJJ, for EUENGINE1, EUENGINE2R, and EUENGINE4. Results were as follows: EUENGINE1: NOx emissions were 0.47 g/bhp-hr (2.0 g/bhp-hr limit), CO emissions were 2.04 g/bhp-hr (3.1 g/bhp-hr limit), VOC emissions were 0.50 lb/hr (3.20 lb/hr limit) and 0.20 g/bhp-hr (0.41 g/bhp-hr limit). EUENGINE2R: NOx emissions were 0.23 g/bhp-hr (0.6 g/bhp-hr limit) and 1.10 lb/hr (2.97 lb/hr limit), CO emissions were 10.2 lb/hr (16.3 lb/hr limit) and 2.09 g/bhp-hr (3.3 g/bhp-hr limit), VOC emissions were 0.76 lb/hr (3.20 lb/hr limit) and 0.16 g/bhp-hr (1.0 g/bhp-hr limit). EUENGINE4: NOx emissions were 0.24 g/bhp-hr (0.6 g/bhp-hr limit) and 1.16 lb/hr (2.97 lb/hr limit), CO emissions were 9.75 lb/hr (16.3 lb/hr limit) and 1.99 g/bhp-hr (3.3 g/bhp-hr limit), VOC emissions were 0.67 lb/hr (3.20 lb/hr limit) and 0.14 g/bhp-hr (1.0 g/bhp-hr limit). All results were within applicable limits. The engines operated with an output of 794kw, 1,580kw, and 1,589 kw, respectively.</p>
10/05/2022	ROP Semi 1 Cert	Compliance	<p>Original signature provided by responsible official. During the reporting period, there was 1 occurrence when the flame temperature of the flare was not recorded due to maintenance. A deviation was reported for a lack of the flare temp record in the semi-annual period. All deviations were resolved at the time of reporting.</p>

Activity Date	Activity Type	Compliance Status	Comments
10/05/2022	MACT (Part 63)	Compliance	Semiannual Compliance with Subpart AAAA (SSM). The company has fulfilled its regulatory obligations under 40 CFR Part 63, Subpart AAAA by submitting the SSM report. This report was no longer applicable under the rule after 9/27/2021. There were 0 GCCS startup events, 1 GCCS shutdown events and 0 GCCS malfunction events.
10/05/2022	NSPS (Part 60)	Compliance	NSPS Annual Compliance Report Subpart XXX. The gas collection and control system was operated in accordance with the NSPS.

Name:



Date:

9/21/2023

Supervisor:


