

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 : Non Compliance
Source Class : MAJOR	Staff : David Morgan
FCE Begin Date : 9/1/2020	FCE Completion Date : 9/2/2021
Comments :	

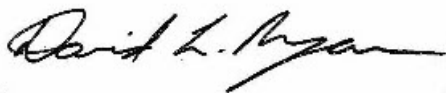
List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
08/19/2021	On-site Inspection	Non Compliance	
05/26/2021	MAERS	Compliance	ROP Certification form for MAERS received 3-12-21. Company used AP-42 factors for flare rather than mass balance approach used in previous years. This resulted in increased reported emissions. This MAERS is acceptable.-DLM
04/19/2021	NSPS (Part 60)	Compliance	Annual Report for Subpart XXX. The gas collection and control system was operated in accordance with the NSPS (Part 60, Subpart XXX).In summary, the company had 11 instances where wells exceeded applicable operating parameters but were subsequently corrected, 6 instances where temperature was not recorded continuously due to power loss or maintenance, 4 instances where the flare and energy plant were shutdown due to loss of power, 4 instances when the collection system was down due to loss of power, 6 locations that initially exceeded the surface methane concentration but were corrected, 28 new wells installed and 2 wells re-drilled.

Activity Date	Activity Type	Compliance Status	Comments
04/19/2021	ROP Annual Cert	Compliance	Original signature provided by responsible official. Deviations were reported in the semi-annual certification. All deviations were addressed in accordance with the ROP and applicable requirements of 40 CFR Part 60, Subpart WWW and XXX.
04/19/2021	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. There were 3 GCCS startup events, 3 GCCS shutdown events and 0 GCCS malfunction events.
04/19/2021	ROP SEMI 2 CERT	Compliance	Original signature provided by responsible official. During the reporting period, there were 3 occurrences when the flame temperature of the flare was not recorded due to power outages mainly in August 2020. No gas was going to the flare as all controls were shutdown due to the power outages. A deviation was reported for a lack of flare temp records in the first semi-annual period. Also, a deviation was reported for well HC-33 which had O2 greater than 5% for over 15 days. All deviations were resolved at the time of reporting.
04/19/2021	ROP Annual Cert	Compliance	North American Natural Resources certified with an original responsible official signature. One deviation was reported for not submitting a minor modification application timely for PTI 86-19. revised permit to install application timely.
04/19/2021	ROP SEMI 2 CERT	Compliance	Original signature provided by responsible official. No deviations reported for the reporting period.
04/19/2021	MACT (Part 63)	Compliance	Annual Compliance for Subpart ZZZZ. Company fulfilled reporting obligations.

Activity Date	Activity Type	Compliance Status	Comments
04/19/2021	MACT (Part 63)	Compliance	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 3 treatment system startup events, 3 treatment system shutdown events and 0 malfunction events.
04/13/2021	Stack Test	Compliance	A stack test report was received for the NANR- Autumn Hills Generating Station. The test was conducted on 2/18/21, pursuant to ROP No. MI-ROP-N6006-2018a and 40 CFR Part 60, Subpart JJJJ. EUENGINE1 and EUENGIN2R were tested in December 2020. EUENGINE4 was tested later due to malfunction in December. Results were as follows NOx emissions were 0.37 g/bhp-hr (0.6 g/bhp-hr limit) and 1.83 lb/hr (2.97 lb/hr limit), CO emissions were 9.70 lb/hr (16.3 lb/hr limit) and 1.96 g/bhp-hr (3.3 g/bhp-hr limit), VOC emissions were 0.36 lb/hr (3.20 lb/hr limit) and 0.07 g/bhp-hr (1.0 g/bhp-hr limit). All results were within applicable limits. The engine operated with an output between 1,601 and 1,608 kw.
01/20/2021	Stack Test	Compliance	A stack test report was received for the NANR- Autumn Hills Generating Station. The test was conducted on 12/15/20, pursuant to ROP No. MI-ROP-N6006-2018, PTI 86-19 and 40 CFR Part 60, Subpart JJJJ. For engines EUENGIN2R NOx emissions were 0.45 g/bhp-hr (2.0 g/bhp-hr limit), CO emissions were 2.90 g/bhp-hr (3.3 g/bhp-hr limit), VOC emissions were 0.16 g/bhp-hr (1.0 g/bhp-hr limit), formaldehyde were 1.35 lb/hr (2.20 lb/hr limit). For EUENGINE1, NOx emissions were .54 g/bhp-hr (2.0 g/bhp-hr limit), CO emissions were 2.58 g/bhp-hr (3.1 g/bhp-hr limit), VOC emissions were 0.20 g/bhp-hr (0.41 g/bhp-hr limit). EUENGINE4 was not tested due to a malfunction. All results were within applicable limits.
09/15/2020	NSPS (Part 60)	Compliance	SSM report for subpart XXX

Activity Date	Activity Type	Compliance Status	Comments
09/15/2020	ROP Semi 1 Cert	Compliance	Original signature provided by responsible official. There were four occurrences when the flame temperature of the flare was not recorded due to a power outage. Horizontal collector HC-16 was not able to meet O2 requirements beyond the required timelines. This well was approved to be decommissioned.
09/15/2020	NSPS (Part 60)	Compliance	Semiannual for Subpart XXX
09/14/2020	ROP Semi 1 Cert	Compliance	One deviation reported but has since been corrected: Application to incorporate PTI No. 8 6-19 into ROP was not submitted prior to startup of EUENGINE2R. Application was submitted to EGLE on April 30, 2020.
09/14/2020	MACT (Part 63)	Compliance	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 startup events, 3 treatment system shutdown events and 1 malfunction events.



9/2/2021

Name: _____

Date: _____

Supervisor: _____