

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

**FCE Summary Report**

<b>Facility :</b> EAGLE VALLEY RECYCLE AND DISPOSAL FACILITY	<b>SRN :</b> N3845
<b>Location :</b> 600 W. SILVER BELL RD.	<b>District :</b> Warren
	<b>County :</b> OAKLAND
<b>City :</b> ORION TWP <b>State:</b> MI <b>Zip Code :</b> 48359	<b>Compliance Status :</b> Compliance
<b>Source Class :</b> MAJOR	<b>Staff :</b> Robert Joseph
<b>FCE Begin Date :</b> 9/26/2018	<b>FCE Completion Date :</b> 9/29/2020
<b>Comments :</b> Summary generated since last FCE	

**List of Partial Compliance Evaluations :**

Activity Date	Activity Type	Compliance Status	Comments
09/29/2020	Scheduled Inspection	Compliance	Scheduled inspection of municipal solid waste landfill.
06/21/2020	NSPS (Part 60)	Compliance	Decommission request for wells HV 153 and HV 154. Indicates that these are shallow wells and have others that can collect gas. Indicated they would reactivate them if necessary. They're capping the wellhead and lines.
05/28/2020	NSPS (Part 60)	Compliance	Decommission request well HW 003, VW 019, 074R, 078, 079. Parameters were fine except for low flows and equal differential pressures.
03/31/2020	MAERS	Compliance	MAERS Report Submission.
03/31/2020	MAERS	Compliance	MAERS Certification form received March 15, 2020.

Activity Date	Activity Type	Compliance Status	Comments
03/31/2020	ROP SEMI 2 CERT	Compliance	<p>Semi-Annual Report per 40 CFR part 63 Subpart AAAA (NESHAP) and per 40 CFR part 60 Subpart WWW (NSPS) for time period 07/01/19 to 12/31/19.</p> <p>EU-ALGCS: There were 32 wells which exhibited pressure or oxygen exceeded, but not temperature. 4 wells exhibited a temperature, pressure, oxygen exceedance which could not be resolved within 15 days during this reporting period.</p> <p>FG-ENCLOSEDFLARES: There were (2) instances when the flare temperature was not recorded for greater than (15) minutes, both events were due to power outages.</p> <p>EU-TREATMENT and FG-ENCLOSEDFLARES: There were (2) instances when the flare temperature was not recorded for greater than (15) minutes, both events were due to power outages.</p> <p>FG-ALGCS: There was no time period when the entire system was not in operation in excess of 5 days. (19) wells installed, and associated header and lateral conveyance piping, air and force mains, and liquid extraction pumps were all installed.</p> <p>EU-LANDFILL: There were (0) locations that initially exceeded 500 ppm during the 3rd quarter scan. There was (6) locations that exceeded 500 ppm during the 4th quarter. Increased vacuum to nearby wells, or installed PVC skirts to well casings to correct the exceedances.</p> <p>EU-EMERGENCYGENEX: No malfunctions. Did not operate.</p> <p>FG-RICEMACT: Fuel flow to engines was 252,914 MCF and the heating value was 518.5 BTU/SCF.</p>

03/31/2020	ROP Annual Cert	Compliance	<p>Annual Report Jan. 1 - Dec. 31, 2019.</p> <p>Semi-Annual Report per 40 CFR part 63 Subpart AAAA (NESHAP) and per 40 CFR part 60 Subpart WWW (NSPS) for time period 01/01/19 to 06/30/19.</p> <p>EU-ALGCS: There were 26 wells which exceeded temperature, pressure, or oxygen limitations. 2 wells exhibited a temperature, pressure, oxygen exceedance which could not be resolved within 15 days during this reporting period.</p> <p>FG-ENCLOSEDFLARES: There were no exceedances.</p> <p>EU-TREATMENT and FG-ENCLOSEDFLARES: None of the devices were down simultaneously for more than 1 hour.</p> <p>FG-ALGCS: There was no time period when the entire system was not in operation in excess of 5 days.</p> <p>EU-LANDFILL: There were (0) locations that initially exceeded 500 ppm during the 1st quarter scan. There was (1) location that exceeded 500 ppm during the 2nd quarter. It was successfully remediated. There was no expansion of wells this reporting period.</p> <p>EU-EMERGENCYGENEX: No malfunctions.</p> <p>FG-RICEMACT: Fuel flow to engines was 253,969 MCF and the heating value was 512.5 BTU/SCF.</p> <p>No errors to the fuel flow meters.</p> <p>Semi-Annual Report per 40 CFR part 63 Subpart AAAA (NESHAP) and per 40 CFR part 60 Subpart WWW (NSPS) for time period 07/01/19 to 12/31/19.</p> <p>EU-ALGCS: There were 32 wells which exhibited pressure or oxygen exceeded, but not</p>
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03/31/2020	ROP Annual Cert	Compliance	<p>temperature. 4 wells exhibited a temperature, pressure, oxygen exceedance which could not be resolved within 15 days during this reporting period.</p> <p>FG-ENCLOSEDFLARES: There were (2) instances when the flare temperature was not recorded for greater than (15) minutes, both events were due to power outages.</p> <p>EU-TREATMENT and FG-ENCLOSEDFLARES: There were (2) instances when the flare temperature was not recorded for greater than (15) minutes, both events were due to power outages.</p> <p>FG-ALGCS: There was no time period when the entire system was not in operation in excess of 5 days. (19) wells installed, and associated header and lateral conveyance piping, air and force mains, and liquid extraction pumps were all installed.</p> <p>EU-LANDFILL: There were (0) locations that initially exceeded 500 ppm during the 3rd quarter scan. There was (6) locations that exceeded 500 ppm during the 4th quarter. Increased vacuum to nearby wells, or installed PVC skirts to well casings to correct the exceedances.</p> <p>EU-EMERGENCYGENEX: No malfunctions. Did not operate.</p> <p>FG-RICEMACT: Fuel flow to engines was 252,914 MCF and the heating value was 518.5 BTU/SCF.</p> <p>No errors with the fuel flow meters.</p>
03/31/2020	ROP Other	Compliance	Subpart XXX: Initial Annual Report Addendum, November - December 2019.

Activity Date	Activity Type	Compliance Status	Comments
03/31/2020	ROP SEMI 2 CERT	Compliance	<p>Semi-annual startup, shutdown, and malfunction report from 07/01/19 to 12/31/19.</p> <p>Startup Events: There were (21) startup events and all were consistent with the SSM plan. No exceedances occurred.</p> <p>Shutdown Events: There were (14) shutdown events.</p> <p>Malfunction Events: There were (7) gas collection control system malfunction events that occurred during this time period. No exceedances occurred.</p> <p>No Plan Revisions to the SSM.</p>
02/28/2020	NSPS (Part 60)	Compliance	Decommission request well 134. Redundant horizontal wellhead.
02/27/2020	NSPS (Part 60)	Compliance	Decommission request well 076. It is on barometric drip leg that connects to a leachate cleanout riser in the SW corner Cell 11.
12/09/2019	NSPS (Part 60)	Compliance	HOV request HC 06 and HC 07. Well AOS approved to be shut off and only turned on to relieve gas buildup under positive pressure only needed to be back online.
11/19/2019	NSPS (Part 60)	Compliance	Decommission request well 3R. Well is in oldest cell of the landfill and does not require additional wells to be constructed given well density of the area.

Activity Date	Activity Type	Compliance Status	Comments
11/18/2019	Stack Test	Compliance	<p>Test Report for landfill gas fired RICE Engines 1 and 2 (FG-ICENGINES). NSPS test.</p> <p>Engine 1: Generator Output 1,613 kW, Engine horsepower 2,251 bhp, Fuel Use 558 scfm, LFG CH4 Content 51.5%, LFG Btu Content 469 Btu/scf, Moisture 12.4%, CO emission rate 2.07 g/bhp-hr (Permit Limit 4.13), NOx emission rate 0.45 g/bhp-hr (Permit Limit 0.9), VOC emission rate 0.08 g/bhp-hr (Permit Limit 1.0).</p> <p>Engine 2: Generator Output 1,635 kW, Engine horsepower 2,281 bhp, Fuel Use 555 scfm, LFG CH4 Content 51.4%, LFG Btu Content 468 Btu/scf, Moisture 12.3%, CO emission rate 2.52 g/bhp-hr (Permit Limit 4.13), NOx emission rate 0.60 g/bhp-hr (Permit Limit 0.9), VOC emission rate 0.08 g/bhp-hr (Permit Limit 1.0).</p>

Activity Date	Activity Type	Compliance Status	Comments
09/23/2019	ROP Semi 1 Cert	Compliance	<p>Semi-Annual Report per 40 CFR part 63 Subpart AAAA (NESHAP) and per 40 CFR part 60 Subpart WWW (NSPS) for time period 01/01/19 to 06/30/19.</p> <p>EU-ALGCS: There were 26 wells which exceeded temperature, pressure, or oxygen limitations. 2 wells exhibited a temperature, pressure, oxygen exceedance which could not be resolved within 15 days during this reporting period.</p> <p>FG-ENCLOSEDFLARES: There were no exceedances.</p> <p>EU-TREATMENT and FG-ENCLOSEDFLARES: None of the devices were down simultaneously for more than 1 hour.</p> <p>FG-ALGCS: There was no time period when the entire system was not in operation in excess of 5 days.</p> <p>EU-LANDFILL: There were (0) locations that initially exceeded 500 ppm during the 1st quarter scan. There was (1) location that exceeded 500 ppm during the 2nd quarter. It was successfully remediated. There was no expansion of wells this reporting period.</p> <p>EU-EMERGENCYGENEX: No malfunctions.</p> <p>FG-RICEMACT: Fuel flow to engines was 253,969 MCF and the heating value was 512.5 BTU/SCF.</p> <p>No errors to the fuel flow meters.</p>
07/31/2019	NSPS (Part 60)	Compliance	<p>HOV request well 076. It is on barometric drip leg that connects to a leachate cleanout riser in the SW corner Cell 11.</p>
07/19/2019	NSPS (Part 60)	Compliance	<p>HOV request for LCH for oxygen.</p>

Activity Date	Activity Type	Compliance Status	Comments
04/09/2019	ROP SEMI 2 CERT	Compliance	<p>Semi-Annual Report per 40 CFR part 63 Subpart AAAA (NESHAP) and per 40 CFR part 60 Subpart WWW (NSPS) for time period 07/01/18 to 12/31/18.</p> <p>EU-ALGCS: There were 28 wells which exceeded temperature, pressure, or oxygen limitations. No wells exhibited a temperature, pressure, oxygen exceedance which could not be resolved within 15 days during this reporting period.</p> <p>FG-ENCLOSEDFLARES: There were no exceedances.</p> <p>EU-TREATMENT and FG-ENCLOSEDFLARES: None of the devices were down simultaneously for more than 1 hour.</p> <p>FG-ALGCS: There was no time period when the entire system was not in operation in excess of 5 days.</p> <p>EU-LANDFILL: There were (0) locations that initially exceeded 500 ppm during the 3rd quarter scan. There was 1 location that exceeded 500 ppm during the 4th quarter. It was successfully remediated. There was no expansion of wells this reporting period.</p> <p>EU-EMERGENCYGENEX: No malfunctions.</p> <p>FG-RICEMACT: Fuel flow to engines was 265,895 MCF and the heating value was 529.5 BTU/SCF.</p>



Activity Date	Activity Type	Compliance Status	Comments
04/09/2019	ROP SEMI 2 CERT	Compliance	<p>Semi-Annual startup, shutdown, and malfunction report from 07/01/18 to 12/31/18.</p> <p>Startup Events: There were (9) startup events and all were consistent with the SSM plan. No exceedances occurred.</p> <p>Shutdown Events: There were (7) shutdown events.</p> <p>Malfunction Events: There were (2) gas collection control system malfunction events that occurred during this time period. No exceedances occurred.</p> <p>No Plan Revisions to the SSM.</p>

Name: Robert Joseph Date: 09/29/20

Supervisor: Sebastianykallemkal