

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

FCE Summary Report

Facility : Warren Waste Water Treatment Plant	SRN : B1792
Location : 32360 Warkop	District : Southeast Michigan
	County : MACOMB
City : WARREN State: MI Zip Code : 48093	Compliance Status : Compliance
Source Class : MAJOR	Staff : Robert Joseph
FCE Begin Date : 9/1/2017	FCE Completion Date : 9/25/2019
Comments : Scheduled inspection of Wastewater Treatment Plant	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
09/24/2019	ROP Semi 1 Cert	Compliance	<p>Semi Annual Report Jan. 1, 2019 to June 30, 2019.</p> <p>(2) occasions where incinerator dropped below 1370 F. This occurred due to low temperatures during 2nd 12-hr average period (4 hrs) and during shut down and burn off (1 hr). Facility implemented corrective actions.</p> <p>(16) were due to pH dropping below 6.5. All incidents were for 2 hrs and one was for 9 hr, 3 hr, 1 hr, and 10 hrs. Facility did not know the cause of this. The facility feeds all scrubber water back into the plant for treatment. Facility believes low pH is indicative of additional chemical scrubbing being performed by the scrubber, and that the drain scrubber water is possibly of poorer quality than the sludge incinerated during the last performance test.</p>
08/08/2019	Scheduled Inspection	Compliance	Scheduled Inspection of Wastewater Treatment Plant
12/06/2018	Stack Test Observation	Compliance	Stack test to verify NOx and CO emissions.

11/29/2018	ROP Other	Compliance	<p>City of Warren Multi-Hearth Incinerator Annual Compliance Report</p> <p>Operating Limits established after 08/17/17;</p> <p>Combustion Chamber Temp: 1311 F</p> <p>Minimum Pressure Drop across the Wet Scrubber: 24.6 in H2O</p> <p>Minimum Water Flow through Scrubber: 755.1 gpm</p> <p>Minimum pH: 6.5</p> <p>Malfunctions: 09/30/17 to 10/18/17 and 04/17/18 to 01/23/18</p> <p>The reporting software locked up and did not record discreet information for this period. The vendor was contacted to correct the software issues. The SCADA system is backup server and therefore was still able to record the regulated operating parameters of Chamber Temp, Sludge Feed Rate, Scrubber, Differential Pressure, pH, and Scrubber Liquid Flow.</p> <p>Emission Test: July 13-14, 2017 (corrected to 7% oxygen);</p> <p>PM: Emission Limit: 80 mg/dscm, Emission rate: 9.0 mg/dscm</p> <p>NOx: Emission Limit: 220 ppmv, Emission rate: 205 ppmv</p> <p>SO2: Emission Limit: 26 ppmv, Emission rate: 0.17 ppmv</p> <p>CO: Emission Limit: 3,800 ppmv, Emission rate: 2,377 ppmv</p> <p>Cadmium: Emission Limit: 0.095 mg/dscm, Emission rate: 0.006 mg/dscm</p> <p>Lead: Emission Limit: 0.3 mg/dscm, Emission rate: 0.048 mg/dscm</p> <p>Mercury: Emission Limit: 0.28 mg/dscm, Emission rate: 0.040 mg/dscm</p> <p>HCl: Emission Limit: 1.2 ppmv, Emission rate: 0.8 ppmv</p> <p>Dioxins and Furans: Emission Limit: 5.0 ng/dscm total, Emission rate: 2.6 ng/dscm total.</p> <p>Deviation Report: 07-01-17 to 06-30-18</p> <p>Combustion Chamber Temp: 14</p>
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11/29/2018	ROP Other	Compliance	deviations = 39 hours Differential Pressure Across the Scrubber: 2 deviations = 3 hours Drain Water pH: 9 deviations = 28 hours Certifications supplied.
11/29/2018	Meeting Notes	Compliance	To discuss the facility's incineration process and need for adjusting O2 concentration in exhaust
08/22/2018	Stack Test	Non Compliance	City of Warren Sewage Sludge Incinerator NOx and CO Emissions Test Report. The report shows that the facility exceeded the emission limit for NOx. A VN is sent requesting to test for NOx and CO.
08/21/2018	CAM Excursions/Exceedances	Compliance	CAM Excursion Exceedance Summary Report. No exceedance reported.
08/21/2018	CAM monitor downtime	Compliance	CAM Downtime Incident Summary Report. No downtime
08/21/2018	ROP Semi 1 Cert	Compliance	Incinerator temp dropped below range during shutdown due to sludge feed stoppage. Operators were instructed to continue fuel flow to sustain operating temperature. Compliance.
06/12/2018	Stack Test Observation	Non Compliance	Stack test for VE (ash handling), NOx and CO
03/20/2018	ROP Other	Compliance	2017 MAERS Report certification. Signed and dated properly.
03/13/2018	ROP Annual Cert	Compliance	Deviations corrected
03/13/2018	ROP SEMI 2 CERT	Compliance	Deviations corrected. (Same as CAM Excursion/Exceedance Report)
03/13/2018	CAM Excursions/Exceedances	Compliance	CAM Excursion/Exceedance Summary Report. Deviations corrected.

Activity Date	Activity Type	Compliance Status	Comments
11/06/2017	ROP Other	Compliance	<p>Annual Incinerator Performance and Compliance Report.</p> <p>Deviations corrected. 6 Deviations (7/5/-9/21/2016, 5/9/2017=32 hours) for minimum differential pressure across scrubber-corrected 10 Deviations (7/8-12/12/2016-64 hours) for minimum combustion temperature - corrected 15 deviations (7/1-8/11/2016= 132 hours) for minimum pH- No chemical added to control pH. Due to change in the waste gas stream.</p> <p>Operator certifications submitted.</p>

Name: Robert Joseph

Date: 09/25/19

Supervisor: SK