

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection

N662143225

FACILITY: Detroit Water & Sewerage, Adams Road Station		SRN / ID: N6621
LOCATION: 6201 Adams Road, BLOOMFELD HLS		DISTRICT: Southeast Michigan
CITY: BLOOMFELD HLS		COUNTY: OAKLAND
CONTACT: Thomas Hall, Team Lead		ACTIVITY DATE: 11/27/2017
STAFF: Joe Forth	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Scheduled Inspection		
RESOLVED COMPLAINTS:		

On November 27, 2017, I, Joseph Forth, Michigan Department of Environmental Quality-Air Quality Division (MDEQ-AQD) Staff, conducted a scheduled inspection at Detroit Water & Sewerage. The facility is located at 6201 Adams Rd, Bloomfield Hills, MI 48304. For the inspection, I was accompanied by AQD inspector Adam Bognar. The purpose of the inspection was to determine the facility's compliance with the requirements of the federal Clean Air Act; Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); Michigan Department of Environmental Quality-Air Quality Division (MDEQ-AQD) Administrative Rules; and PTI No. 231-99B.

Facility Inspection

We arrived at the facility at 9:20 am and met with Thomas Hall of Great Lakes Water Authority. We introduced ourselves, provided our credentials, and stated the purpose of inspection. Mr. Hall and the site technician showed us around the station. We were shown the two engines (EUENGINE 1 and 2) and the control room. We discussed what records were required for the permit. Mr. Hall would send the records later. I recorded some information from the engines and ended the inspection. We left the facility at 9:40 am.

Facility Description

The facility is a booster station that pumps fresh water for the surrounding municipalities. Normally the facility runs on electricity from the power grid, but there are two generator engines that are used as emergency back-up. Mr. Hall said it is very seldom that generators see practical use, and are usually only ran about once a month to check that they are operating sufficiently. The two generators are synchronous AC generators manufactured by Kato Engineering, model no. A269490000. The generators have voltage of 4800 and amperage of 274.

Compliance

PTI 231-99B

FGENGINES

Consists of two diesel-fueled engine generators (1,825 kW and heat input of 18.31 MM BTU/hr) used as back up power for municipal water pumps.

SC(I)(1)

1. NOx emission limit is 39.95 tons/year, based on a 12-month roll time period as determined at the end of each calendar month. The facility did not exceed 39.95 tons/12-month rolling period. The NOx emissions for 2016 were 0.0257 tons. The NOx for 2017 from July 2016-June 2017 were 0.0244 tons (See Attachment A).

SC(II)(1,2)

1. The permittee shall not burn diesel fuel with sulfur content (percent by weight of the fuel that is sulfur) greater than 0.05 percent by weight in FGENGINES. The fuel used by the facility has a sulfur content lower than 0.05% by weight (15 ppm). (See Attachment B)
2. The permittee shall not burn more than 328,333 gallons of diesel fuel per 12-month rolling period. The amount of fuel used by the facility did not exceed the limit. (See Attachment C)

SC(IV)(1)

1. The facility shall install, maintain, and operate in a satisfactory manner, a device to monitor and record fuel use for each engine. The facility had installed and properly maintained fuel monitors for each engine.

SC(VI)(1-3): The permittee shall keep all records on file at a location approved by the AQD District Supervisor and make them available to the Department upon request.

1. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period NOx emission calculation records for FGENGINES. The facility provided the required records. (See Attachment A)
2. The permittee shall keep records of the sulfur content, in percent by weight, for each fuel oil shipment (based on fuel supplier sulfur content certifications or fuel analysis data obtained by the permittee). The facility provided the required records. (See Attachment B)
3. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the gallons of diesel fuel burned in FGENGINES. The facility provided the required records. 2016 fuel usage: 211.34 gallons. July 2016-June 2017 fuel usage: 200.77 gallons (See Attachment A)

Conclusion

The facility appears to be operating in compliance with the Federal Clean Air Act; Article II, Part 55, Air Pollution Control of Natural Resources and Environmental Protection Act, 1994 Public Act 451, PTI 231-99B.

NAME *Joseph M. Tott* DATE 2-5-18 SUPERVISOR *SK*