

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection

N266060096

FACILITY: Elmers Concrete Batch Plant (PTI # 731-90)		SRN / ID: N2660
LOCATION: 1200 Caberfae Hwy., MANISTEE		DISTRICT: Cadillac
CITY: MANISTEE		COUNTY: MANISTEE
CONTACT:		ACTIVITY DATE: 09/02/2021
STAFF: Caryn Owens	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Onsite Inspection and Records Review		
RESOLVED COMPLAINTS:		

On Thursday, September 2, 2021, Caryn Owens of the Department of Environment, Great Lakes, and Energy (EGLE)-Air Quality Division (AQD) conducted an on-site field inspection and records review of Elmer's Concrete Batch Plant (SRN: N2660), located at 1200 Caberfae Highway in Manistee, Manistee County, Michigan. More specifically, the facility is located on southeast corner of Pine Creek Road and Caberfae Highway (M-55). The field inspection and records review were to determine compliance with Permit to Install (PTI) 731-90. Elmer's Concrete Batch Plant is currently a minor source for particulate matter (PM) criteria air pollutants.

Evaluation Summary

The activities covered during this scheduled field inspection and records review appears to be in compliance with PTI 731-90. No further actions are necessary at this time. Specific permit conditions that were reviewed are discussed below.

Source Description

Elmer's Concrete Batch Plant consists of three silos that store the redi-mix material with associated dust collectors on top of the silos to minimize fugitive dust. The process involves stockpiled material loaded into a feed hopper by a front-end wheel loader, where the material is conveyed from the hopper to the top of three material bins enclosed inside the building, then the material is dropped from the material bins into a weight batcher, and then dropped onto a conveyer where it is transferred into a mixer truck. Emissions from the silos are controlled by a main fabric filter baghouse system on the west side of the central silo, as well as the individual dust collectors at the top of each silo.

On-site Inspection:

During the field inspection it was mostly sunny with calm wind less than 5 miles per hour, and approximately 70 degrees Fahrenheit. AQD met with Mr. Tom Wolf, the compliance manager of Team Elmer's. Mr. Wolf and AQD began the inspection by the redi-mix silos. AQD observed two cement trucks, that recently returned from a job, but no trucks were loaded during the inspection. There was a loader that was filling the aggregate bins from the onsite storage piles. We walked through the site and observed an enclosed aggregate storage area and the washout area for the concrete trucks on the eastern portion of the site. A recycled concrete pile was on the southern portion of the site. There were storage buildings on the northwestern portion of the site, and the main building with the control room, maintenance garage and aggregate bins were in the central portion of the site.

The concrete batch plant produces concrete for concrete trucks for construction jobs. According to Carl in the control room, the plant produces between 50 to 150 cubic yards of concrete five days a week. No visible emissions were observed during the field inspection from the concrete batch plant or from the roadways at the facility. The plant appeared to be swept and kept clean.

Review of PTI 731-90:

Emission Limits:

The particulate emissions of 0.10 pounds per 1,000 pounds of exhaust gases from the cement silos are based on performance testing. AQD has not requested performance testing to be completed at the plant at this time.

Additionally, visible emissions from the concrete batch plant should not exceed 20 percent. AQD did not observe visible emissions during the inspection, and there have been no visible emission complaints from the plant.

Material Usage Limits:

There are no material limits applicable with the concrete batch plant.

Process/Operational Restrictions:

During the inspection, the fabric filter baghouses appeared to be installed and operating properly. According to the Plant Operator Carl, the bags are shaken manually on an "as needed" basis, which is about once per month for the fabric filters on top of the silos and three to four times per month for the filter system on the western portion of the silos.

During the inspection the plant roadways, and material storage piles appeared to be in good condition, no visible emissions were observed from the vehicles driving on the plant, from the storage piles, or roadways. AQD observed the employees watering down the truck entrance to the silos during the inspection, and there are hoses around the plant to wet the storage piles if necessary to minimize fugitive dust.

Design/Equipment Parameters:

There are no design/equipment parameters applicable with the concrete batch plant.

Testing/Sampling Equipment:

Testing may be performed if requested. However, as of the date of this inspection report, testing has not been requested by AQD to be completed at the concrete batch plant.

Monitoring/Recordkeeping:

Although there are no monitoring and recordkeeping requirements, the facility records the number of yards of concrete sold on a monthly and cumulative basis. From January 1, 2021 through August 31, 2021 the plant sold 14,156 cubic yards of concrete.

Reporting:

Reporting Requirements are not applicable for the concrete batch plant.

Stack/Vent Restrictions:

There were no stack/vent restrictions applicable to the concrete batch plant.

Other Requirements:

There were no other requirements applicable to the concrete batch plant.

NAME _____

DATE _____

SUPERVISOR _____