

**DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

ACTIVITY REPORT: Self Initiated Inspection

N549831087

FACILITY: LEELANAU REDI MIX		SRN / ID: N5498
LOCATION: 12488 NEWMAN RD, MAPLE CITY		DISTRICT: Cadillac
CITY: MAPLE CITY		COUNTY: LEELANAU
CONTACT:		ACTIVITY DATE: 09/02/2015
STAFF: Caryn Owens	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Self Initiated Inspection and Records Review		
RESOLVED COMPLAINTS:		

On Wednesday, September 2, 2015, Caryn Owens of the Department of Environmental Quality (DEQ)-Air Quality Division (AQD) conducted a self-initiated field inspection and records review of Leelanau Redi-Mix (SRN: N5498), located at 12488 South Newman Road, Maple City, Leelanau County, Michigan. More specifically, the facility is located on the west side of South Newman Road, approximately 1/2 mile north of West Traverse Highway. The field inspection and records review were to determine compliance with Permit to Install (PTIs) 260-05 and 139-95. Leelanau Redi-mix is currently a minor source for particulate matter (PM) criteria air pollutants. Based on the age of the crushing equipment and the through-put limit of 100 tons per hour, the facility is not subject to the New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants.

Evaluation Summary

The activities covered during this scheduled field inspection and records review appears to be in compliance with PTIs 260-05 and 139-95. No further actions are necessary at this time. Specific permit conditions that were reviewed are discussed below.

Source Description

Leelanau Redi-Mix consists of a fixed concrete batch plant and a material crushing plant used to crush stone and mix with sand and clay to produce road gravel and concrete gravel. The associated equipment to the crusher contained conveyors. There was also a screening plant used with the crusher, however that has been shut down for at least three years because of mechanical issues. The facility operates Monday through Saturday. The crusher only operates between 1.25 and 4 hours per day, the longer hours are on Saturdays.

On-site Inspection:

During the field inspection it was mostly sunny with calm wind less than 5 miles per hour, and approximately 85 degrees Fahrenheit. DEQ met with Mr. Dale Evans, Mechanic at the facility. DEQ gave Mr. Evans an inspection brochure, at the time of the walkover. The crusher system was not operating at the time of the field inspection because it recently broke down, and needed to be repaired. The crusher has been shut down since August 29, 2015. DEQ started the field inspection where the trucks begin each morning and took the route through the property that they travel. The trucks are parked in the central portion of the property and travel to the north end to load material from the material piles. This is also the location of the crusher and associated equipment. The trucks either load from the concrete gravel for redi-mix or road gravel. Some of the redi-mix gravel is then transported to the southern portion of the property for the concrete batch plant that is located on the southeastern portion of the property.

The concrete batch plant produces concrete for concrete trucks for construction jobs. The plant consists of three floors, and the concrete mixture is loaded on to a conveyor and charged into bins on the third floor. From there, the material in the bins is weighed on scales for a specific cement mixture, and then the cement is added to the concrete trucks on the first main floor. A concrete truck was loading at the time of the inspection. No visible emissions were observed during the field inspection from the concrete batch plant or from the roadways at the facility.

Review of PTI 260-05:

EU-PROCESS:

Visible Emission Limits:

At the time of the field inspection, the vibrating screen, jaw crusher, and roll crusher were not in operation, so the opacity limits could not be evaluated at this time.

Material Usage Limits:

According to Mr. Evans, the facility does not process any asbestos containing material.

Process/Operational Restrictions:

DEQ reviewed the records for the amount of material processed through the crusher equipment. Currently the facility processes approximately 150 to 400 tons per day, and approximately 40,000 tons per year. The facility operates generally from the end of April through October. Based on review of the records, the equipment has not exceeded the 1,000 tons per day, nor 50,000 tons per year limit.

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 roadways. There were no vehicles loading the material during the inspection, so the material handling process was not evaluated at this time.

Equipment:

As previously stated, the crusher and associated equipment was not operating at the time of the inspection, so this condition could not be evaluated at this time.

Recordkeeping/Reporting/Notification:

The facility is tracking the amount of material processed by the crusher equipment. As previously stated, the records kept indicate that the facility has not exceeded the 1,000 tons per day nor 50,000 tons per year.

EU-TRUCK TRAFFIC

Visible Emission Limits and Process/Operational Restrictions:

At the time of the field inspection, there was not a lot of vehicle activity through the property, so the opacity limits could not be evaluated at this time. However, the plant roadways appeared in good condition.

Review of PTI 139-95:

Special Conditions (SC) 15 and 19: The particulate emissions from the cement silo are based on performance testing at the facility. DEQ has not requested performance testing to be completed at the facility at this time.

SC 16-18:

DEQ observed no visible emissions from the concrete batch plant or storage piles during operation. There was no truck or loader activity at the time of the field inspection, so visible emissions were not assessed from truck and loader activity at the time of the inspection.

SC 20:

The bin vent filter unit for the concrete batch plant appeared to be operating properly. DEQ observed no visible emissions from the concrete batch plant during the inspection.

SC 21:

DEQ did not observe the area where collected air contaminants are properly disposed at this time.

SC 22 and 23:

As previously stated, according to Mr. Evans, the facility does not process any asbestos containing material. 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 roadways. There were no vehicles loading the material during the inspection, so the material handling process was not evaluated at this time.

NAME

Camryn Owens

DATE

9/2/15

SUPERVISOR

[Signature]