

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

P130065499

FACILITY: UP ROCK N REDI MIX		SRN / ID: P1300
LOCATION: 8586 S SHUNK ROAD, SAULT S MARIE		DISTRICT: Marquette
CITY: SAULT S MARIE		COUNTY: CHIPPEWA
CONTACT: Angie Bonnee , Office Manager		ACTIVITY DATE: 11/03/2022
STAFF: Lauren Luce	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Targeted Inspection FY23		
RESOLVED COMPLAINTS:		

Facility: UP Rock n Redi Mix (SRN: P1300)

Location: 14860 M-129 South, Sault Ste. Marie, MI

Contact: Larry Young, Plant Manager

Angie Bonnee, Office Manager (906) 440-5066

Regulatory Authority

Under the Authority of Section 5526 of Part 55 of NREPA, the Department of Environment, Great Lakes, and Energy may upon the presentation of their card, and stating the authority and purpose of the investigation, enter and inspect any property at reasonable times for the purpose of investigating either an actual or suspected source of air pollution or ascertaining compliance or noncompliance with NREPA, Rules promulgated thereunder, and the federal Clean Air Act.

Facility Description

UP Rock N Redi Mix is a concrete contractor based in Sault Ste. Marie, MI. The M-129 Pit is located approximately 14 miles south of the City of Sault Ste. Marie in a rural area.

Process Description

A crushing plant produces smaller size aggregate from larger size rock. The final product can be used for a variety of applications from infrastructure projects to residential landscape purposes. A crushing plant can consist of loaders, haul trucks, generators, crushers, screens, conveyors, and stockpiles. The plant is normally located within a quarry, crushing stone that was generated from blasting. The process begins with large size rocks being fed into the primary crusher via loader, producing an initial size product. From the primary crusher, the product can be conveyed into a screen plant that separates the crushed aggregate into various sized products. Smaller size material is filtered out and leaves on separate conveyors to stockpiles, while larger size material continues into the secondary crusher. A secondary crusher will break the aggregate down into smaller sizes before it enters the screen plant again or continues down the line to a tertiary screen and crusher. A crushing plant may have several crushers, screens, and conveyors depending on how many sizes of aggregate are to be produced.

Emissions

Stone crushing and processing operations can cause point and fugitive emissions of PM, PM10, and PM2.5. Emissions from process operations should be considered fugitive unless the source of

emissions is vented through a force-air vent or stack. Fugitive sources of emissions are generated from machine movement and wind erosion. Emission sources can include hauling, crushing, screening, and transferring of material. The primary factors affecting PM emissions are wind and moisture content of the material. Spray bars on crushers and screens, along with the use of dust suppressants on roadways reduces fugitive dust emissions from activity by 60% to 85%. Moisture on the surface of the material can cause fine particles to adhere resulting in a dust suppression effect.

Emissions Reporting

The facility is a minor source and not subject to the federal New Source Performance Standards (NSPS) Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants because all equipment was constructed before August 31, 1983. The facility is not required to report to MAERS.

Compliance History

The facility has not been inspected previously.

Regulatory Analysis

UP Rock n Redi Mix is subject to General Permit to Install (PTI) No. 107-22 for a portable non-metallic crushing plant. The facility is considered a true minor source because the potential-to-emit (PTE) of all regulated air pollutants is less than the major source thresholds. The facility is also considered an area source because the PTE of individual HAPs is less than 9 tpy and the PTE of aggregate HAP emissions is less than 25 tpy. The facility is not subject to NSPS Subpart OOO because all equipment was constructed before August 31, 1983.

Inspection

On November 3, 2022, AQD Staff (Lauren Luce) conducted a targeted inspection on UP Rock N Redi Mix at the M-129 pit located on M-129 south of the City of Sault Ste. Marie in Chippewa County. AQD Staff arrived at the facility and met with Angie Bonnee, Office Manager and Larry Young, Plant Manager. It was explained that the purpose of the inspection was to ensure compliance with PTI No. 107-22 and all other state air pollution control rules and federal regulations. The inspection began by checking for visible emissions. Operations, on-site equipment, and records were then discussed, and a walkthrough of the process and equipment was provided.

Process equipment was inspected for labels and water sprays where required. The table below lists the equipment that was observed on-site and labeled.

Equipment	Label
Conveyor	3
Conveyor	4

Conveyor	5
Primary Crusher	1
Secondary Crusher	2

The plant was operating at the time of arrival. This is this facility's first season crushing. Gravel was being produced. The drop heights from conveyors to transfer points were kept low to minimize dust. No visible emissions were observed from the storage piles. The plant roadways appeared well saturated. No exceedances of visible emissions were observed from any equipment. Additional equipment on-site included a diesel engine for power generation, wash plant, and loaders.

Throughput records were requested for 2022. Daily crushing totals were provided. Total throughout for August 2022 was 15,732 tons, September was 4,600 tons, and October was 1,977 tons. No asbestos tailings or asbestos-containing waste materials are processed through the plant.

A copy of the Michigan Environmental Compliance Guide for Nonmetallic Mineral Crushing Facilities was provided. Staff relayed information on labeling and providing information on forms required for updating equipment.

Compliance

Based on this inspection, it appears UP Rock N Redi Mix is in compliance with PTI No. 107-22 and all other state air pollution control rules and federal regulations.



Image 1: Saturated roadways



Image 2: Conveyor with label

NAME Sam Sam

DATE 11-21-22

SUPERVISOR Michael Kline