

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

P131472627

<b>FACILITY:</b> William M. Kirshner, Jr.		<b>SRN / ID:</b> P1314
<b>LOCATION:</b> West 3618 Labelle Road, POWERS		<b>DISTRICT:</b> Marquette
<b>CITY:</b> POWERS		<b>COUNTY:</b> MENOMINEE
<b>CONTACT:</b> Bill Kirschner , Owner		<b>ACTIVITY DATE:</b> 07/12/2024
<b>STAFF:</b> Drew Yesmunt	<b>COMPLIANCE STATUS:</b> Compliance	<b>SOURCE CLASS:</b> MINOR
<b>SUBJECT:</b> Targeted Inspection FY24		
<b>RESOLVED COMPLAINTS:</b>		

**Facility:** William M. Kirschner Jr. (SRN: P1314)

**Location:** W3618 LaBelle Rd, Powers, Menominee County, MI

**Contact(s):** Bill Kirschner, Owner

### 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

William Kirschner Jr. is a limestone quarry located approximately two miles south and one mile east of Powers, MI. The facility produces limestone aggregate used to build roads for Bill Kirschner Trucking & Forest Products. The facility conducts its crushing operation under PTI No. 153-22.

### Process Description

A crushing plant produces smaller size aggregate from larger size rock. A crushing plant may consist of loaders, haul trucks, generators, crushers, screens, conveyors, and stockpiles. The plant is normally located within a quarry and crushes stone generated from blasting. The final product may be used for a variety of applications, including infrastructure projects and landscaping.

The process begins with raw material being fed into a primary crusher via loader, producing an initial size product. From the primary crusher, the product is conveyed into a screen plant that separates the crushed aggregate into various sized products. Smaller material is filtered out and leaves on separate conveyors to stockpiles, while larger material is transported to a secondary crusher. The secondary crusher will break the aggregate down to a smaller size aggregate before

it enters the screen plant again or continues 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

Non-metallic mineral crushing can cause point and fugitive emissions of PM, PM<sub>10</sub>, and PM<sub>2.5</sub>. Emissions from process operations are considered fugitive unless the source of emissions is vented through an air pollution control device or contained and emitted 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 the moisture content of the material. Moisture on the surface of the material can cause fine particles to adhere resulting in a dust suppression effect.

### Emissions Reporting

The facility is considered a true minor source for all criteria and hazardous air pollutants. The facility is not subject to the federal New Source Performance Standards (NSPS) Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants as the total crushing capacity does not exceed 150 tons per hour, and the actual emissions from the source do not meet the reporting threshold. Thus, this facility is not required to submit annual emissions to the MiEnviro each year.

### Compliance History

The facility has received one violation notice in the past five years. The violation was issued August 16, 2022, as a violation of Rule 201 for operating a portable crushing unit without a permit. The violation was resolved on November 22, 2022, after the facility had acquired a permit to install for the crushing equipment (PTI No. 153-22). No further violations have been filed against the facility.

### Inspection

On July 12, 2024, AQD staff (Drew Yesmunt) conducted a targeted inspection of William M. Kirschner Jr. in Powers, MI. AQD staff arrived at the facility and met with the owner, Bill Kirschner. It was explained that the purpose of the inspection was to ensure compliance with PTI No. 153-22 and all other applicable air pollution control rules and federal regulations. A tour of the facility was then provided.

AQD staff observed that all permitted equipment was present onsite. No equipment onsite was operating during the time of inspection and the Terex Finlay Impact Crusher was observed to be inoperable due to broken parts. It was explained to AQD staff that the facility was planning to sell the permitted crusher and conveyor as the facility's impact crusher had experienced frequent breakdowns. AQD staff explained that if the permitted equipment is sold, the associated permit, PTI No. 153-22, could be transferred to the new owner or potentially voided.

During the inspection, the facility appeared to be following all requirements of its fugitive dust plan. No visible emissions were observed while on-site, and water sprays were observed on all necessary equipment.

During records review, it was shown that the facility produced approximately 12,800 tons of material in 2023 and 8,500 tons in 2024 to date, under the facility's limit of 15,000 tons per year. The facility also explained that calcium chloride solution is applied biweekly to plant roadways as dust suppression, although records of each application were not available upon request as required by the facility's fugitive dust plan. AQD staff explained this was an area of non-compliance, and if the record is not maintained, it could lead to a violation notice. The facility responded, providing verbal commitment to maintain the record going forward.

### Compliance

Based on this inspection and the records reviewed, William M. Kirschner Jr. appears to be in compliance with PTI No. 153-22 and all other applicable air pollution control rules and federal regulations. It was conveyed to the facility that no violations were observed during the on-site inspection, but going forward, adequate record of dust suppressant applications must be kept to maintain compliance.

NAME

DATE 8-12-2024

SUPERVISOR

