

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

B544035997

FACILITY: SUPERIOR SAND & GRAVEL #452-99		SRN / ID: B5440
LOCATION: 1910 W JASBERG STREET, HANCOCK		DISTRICT: Upper Peninsula
CITY: HANCOCK		COUNTY: HOUGHTON
CONTACT: PATRICK THORNTON , MANAGER		ACTIVITY DATE: 08/10/2016
STAFF: Joe Scanlan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Unannounced inspection to determine compliance with PTI# 452-99 and applicable Michigan Air Pollution Control Rules.		
RESOLVED COMPLAINTS:		

FACILITY: *Portable Gravel Crusher*

INSPECTION DATE: 8/10/2016

MDEQ-AQD STAFF

- *Joseph Scanlan, EQA*

FACILITY REPRESENTATIVE

- *Patrick Thornton, Operator*
- *Jim Nixon, employee*

LOCATION

At the time of inspection, this portable gravel crusher was located at Superior Sand & Gravel's home pit located at 190 West Jasberg (M-203) in Hancock, just north of the Portage Canal.

SOURCE DESCRIPTION

This is a portable gravel crusher.

INSPECTION

On 8/10/2016 I conducted an scheduled inspection of Superior Sand & Gravel's portable gravel crusher permitted under PTI# 452-99. PPE worn during this inspection included steel-toed boots, safety vest, safety glasses and hardhat.

No excessive fugitive dust was noted on haul roads or from associated heavy machinery and equipment in the active part of the quarry during the inspection.

I met with operator Mr. Patrick Thornton, Operator, after speaking briefly with employee Mr. Jim Nixon. The crusher was operating at the time of my inspection. Mr. Thornton was accompanied by 3 additional employees, including Mr. Nixon. At the time of my inspection the crew had crushed approximately 30405 total tons of product during 2016. There were no plans to relocate the crusher any time in the near future, although it is possible before the season is over.

EMISSION UNIT DETAILS

Emission Unit ID	Description of Emission Unit	ROP/PTI#	Installation/Modification Date	Compliance Status
EU-CRUSHER	Crusher(s) and associated process equipment including grinding mills, drills, screening operations, bucket elevators, belt conveyors, loading and bagging operations, storage bins, enclosed truck or railcar loading stations and any other material handling equipment operated at the site.	PTI# 452-99	11/23/1999	C

EU-CRUSHER

EMISSION LIMIT(S) – Visible emissions

- **0% opacity limit for:**
 - o Wash screens and all subsequent equipment downstream up to the next crusher or storage bin;
 - o Any equipment enclosed within a building.
- **5% opacity limit for:**
 - o Rock drills;
 - o Wheel loaders and truck traffic;
 - o Material storage piles.
- **7% opacity limit for:**
 - o All equipment required by NSPS to be controlled by a baghouse.
- **10% opacity limit for:**
 - o Screens;
 - o Conveyors/Transfer points;
 - o Any other process equipment which is part of the nonmetallic mineral crushing facility or related process.
- **15% opacity limit for:**
 - o All crushers.

MATERIAL LIMIT(S) – Permittee shall not process more than 2,000,000 tons per year per site; permittee shall not crush asbestos tailings or asbestos-containing waste materials as defined by NESHAP.

- *Permittee has not exceeded 2,000,000 tons/yr nor are they expected to;*
- *Permittee does not crush asbestos tailings or waste materials.*

PROCESS/OPERATIONAL RESTRICTION(S)

Equipment ID Labeling

- *Equipment is labeled according to the company's specific IDs as specified in the application and equipment update forms. The following equipment was on site:*
 - o *T-188 Cone/Roll crusher*
 - o *T-279 Conveyor*
 - o *T-280 Conveyor*
 - o *T-189 Conveyor*
 - o *T-320 Conveyor*
 - o *T-345 Primary Jaw*

Control Equipment

- *Crusher and screen are equipped with water spray which was in use at the time of inspection. Permittee had a 6000 gallon water tank trailer on site.*

Fugitive Dust Control Plan

- *There were no issues regarding fugitive dust created by haul vehicles and heavy equipment during the time of inspection.*

RECORDKEEPING/REPORTING

Source emissions data, operating, and maintenance information on file for 2 years

- *Daily and annual records of the amount of material processed for each site the facility operates are on file*

PORTABLE EQUIPMENT

Facility may only be relocated if:

- There are no unresolved violations regarding MDEQ or Federal regulations;
- Shall not be situated at a site for more than 24 consecutive months
- Relocation notices submitted to MDEQ not less than 10 days prior to relocation
- Shall not be located within 500' or any residential/commercial establishments or place of public assembly; shall not be located within 1000' of residential/commercial establishments or place of public assembly unless prior approval is granted by AQD district office;
- Shall have a copy of PTI 452-99 clearly posted in operators office or workstation;

Facility meets all the above requirements listed for Portable Equipment except there was no copy of the permit on site

SUMMARY

The owner/operator could not procure a copy of their Permit to Install. There has been no issues with this facility in the recent past; a reminder was given to the owner/operator that that it is a permit requirement to have a copy of their PTI onsite. A copy of the PTI was provided to the owner/operator via email after the inspection. No other violations of PTI# 452-99 were observed at the time of this inspection and the facility appears to be in compliance with the remainder of the permit requirements.



Image 1(SSG5) : Conveyor spread: T-189, T-279, T-280, T-320



Image 2(SSG1) : T-188 Cone Crusher



Image 3(SSG2) : Water tanker



Image 4(SSG3) : Crusher spread



Image 5(SSG4) : T-345 Primary Jaw

NAME

[Handwritten signature]

DATE

8/15/16

SUPERVISOR

Dan W. Mahan