

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

P072342345

FACILITY: Hard Rock Quarry LLC		SRN / ID: P0723
LOCATION: 545 Shirley Drive, JACKSON		DISTRICT: Jackson
CITY: JACKSON		COUNTY: JACKSON
CONTACT: Chad Kreisher , Site Manager		ACTIVITY DATE: 11/13/2017
STAFF: Mike Kovalchick	COMPLIANCE STATUS: Non Compliance	SOURCE CLASS: MINOR
SUBJECT: Inspection of a limestone quarry with a portable leased crusher/screen.		
RESOLVED COMPLAINTS:		

Minor Source-**Facility Contacts**

Chad Kreisher-Site Manager

hrqchad6@gmail.com

ph 517-817-9211

Larry Barnhart-Maintenance

Website: <https://www.facebook.com/Hard-Rock-Quarry-174868066239160/>**Purpose**

On November 9 & 13, 2017, I conducted an unannounced compliance inspection of Hard Rock Quarry LLC (Company) located at 5290 Bunkerhill Road, Jackson, Michigan. The purpose of the inspection was to determine the facility's compliance status with the applicable federal and state air pollution regulations, particularly Michigan Act 451, Part 55, Air Pollution Control Act and administrative rules and their Permit to Install (PTI) 130-16.

Facility Location

The facility is located just North of Jackson in a rural area. See attached aerial photo of facility.

Facility Background

There is no record of previous air quality inspections at this facility.

Regulatory Applicability

General PTI 130-16 which was issued on August 8, 2016 covers the entire facility.

40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The regulation applies to diesel engines that remain onsite longer than one year. (Diesel engine associated with Screen.)

40 CFR Part 60 Subpart OOO-Federal New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants. The regulation applies to any rock crusher onsite (and associated equipment) that has a rated capacity of more than 150 tons/hour.

The facility is considered a Category II source for purposes of Air Emission fees due to being subject to Subpart OOO. (\$1795 facility fee plus emission charge per ton.)

Arrival & Facility Contact

I first arrived at the facility at 9:00 am on Thursday 11/9/2017. No facility personnel were present at the facility besides some contracted truck drivers who were dropping off loads of asphalt millings. A burn barrel filled with trash was noted near the facility office (see attached photo) and piles of trash partially covered by dirt were noted adjacent to the quarry access road. The piles were still smoldering from a recent fire. (See attached photo.) I left the facility shortly after arrival.

No visible emissions or odors were observed upon my approach to the Company's facility on Monday 11/13/2017. I arrived at 3 pm, proceeded to the facility office to request access for an inspection and met Chad Kreisher (CK), the site manager for the facility who was in his truck getting ready to leave.

CK extended his full cooperation and fully addressed my questions.

Pre-Inspection Meeting

CK outlined that there are only 2 employees and generally arrive either at 7 or 8 in the morning and leave at 3 or 4 in the evening.

They first started operations at this location during the Summer of 2016. They are leasing the property from a local family. They bring in leased crushers from Ohio Cat out of Columbus Ohio for up to a month at a time to crush recycled concrete and limestone that is quarried there.

Currently, they have a leased IROCK TC-20 Track Impact Crusher with a 500 ton/hour capacity onsite. (They had a different crusher(s) there last year and expect to have a different crusher there next Spring.) It was operating earlier in the day but was currently down due to a drive belt problem. Adjacent to the crusher they have a portable screen apparatus which they own and has been located onsite for more than a year. They also have a diesel powered emergency engine that is inside the back of a trailer that they haven't operated yet.

They are near the end of the crushing season and CK expected the crusher to be moved shortly back to Ohio.

They don't have production records although production has not been that high. They have not done NSPS testing nor did CK know whether the crusher had NSPS testing done on it before.

CK indicated the president of the Company has another business that generates trash. This trash is being brought onsite and burned. I indicated to CK that this practice is prohibited.

I spoke with CK about the fugitive dust plan associated with the general permit and in particular the need to limit any track out of material on to Bunkerhill road which is paved. I recommended that he use a sweeper/and or water truck as necessary to keep that road free of any dust/debris.

Onsite Inspection

CK gave me a brief tour of the facility. He showed me the crusher and associated screen. See attached photos. Due to the presence of mud, we didn't venture away from the vicinity of the crusher. The quarry itself looked more like an open area than a quarry with all low-lying areas covered in water. CK indicated that the limestone that they quarry is located only about 1 ½ feet below the surface.

Both the crusher and screen were not operating but had been earlier until an equipment failure.

CK didn't know any details regarding the diesel engine that runs the screen or the diesel emergency generator located in the back of the trailer.

Records Review/PTI Permit Conditions.

The Company is not maintaining required records and isn't in compliance with numerous PTI conditions.

Post-Inspection Meeting

I held a brief post-inspection meeting with CK. I indicated to him that he was out of compliance with his PTI permit and that he would be receiving a letter that outlines the violations and that he would have 21 days to respond. I indicated that he should consider calling the Environmental Assistance Center for help or to call me with any specific questions after he receives the letter.

I thanked CK for his time and cooperation, and I departed the facility at approximately 4 PM.

Compliance Summary

The Company is out of compliance with the following:

Rule 310-Open Burning

PTI 130-16 Special Condition (SC) 1.7. Each crusher and screen shall be equipped with a water spray.

SC 1.8 Permittee has not verified visible emission rates per NSPS OOO for all NSPS subject crushers, screens, all transfer points on conveyors.

SC 1.9 No daily/annual records of the amount of material processed.

SC 1.10 Permittee did not notify AQD within 15 days after initial start-up.

SC 1.11 Permittee did not label all equipment associated FGCRUSHING according to the company IDs specified in the application.

SC 1.12 Permittee modified FGCRUSHING without meeting the following conditions:

a) Permittee did not update general permit by submitting new Process Information form identifying new equipment.

c) Permittee did not keep records of the date and description of the replacement or modification

d) Permittee did not notify AQD within 15 days after startup of any new or additional equipment.

40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

A Violation Notice (VN) will be sent to the Company.

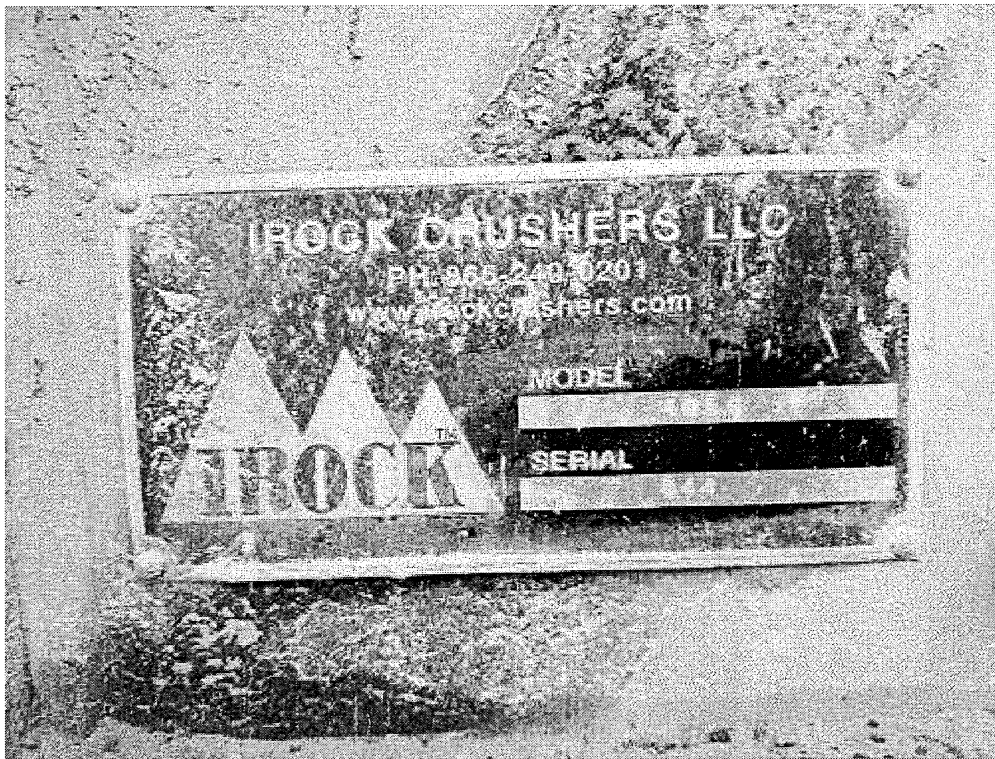


Image 1(Serial No) : Serial Number 044 on IROCK Crusher.

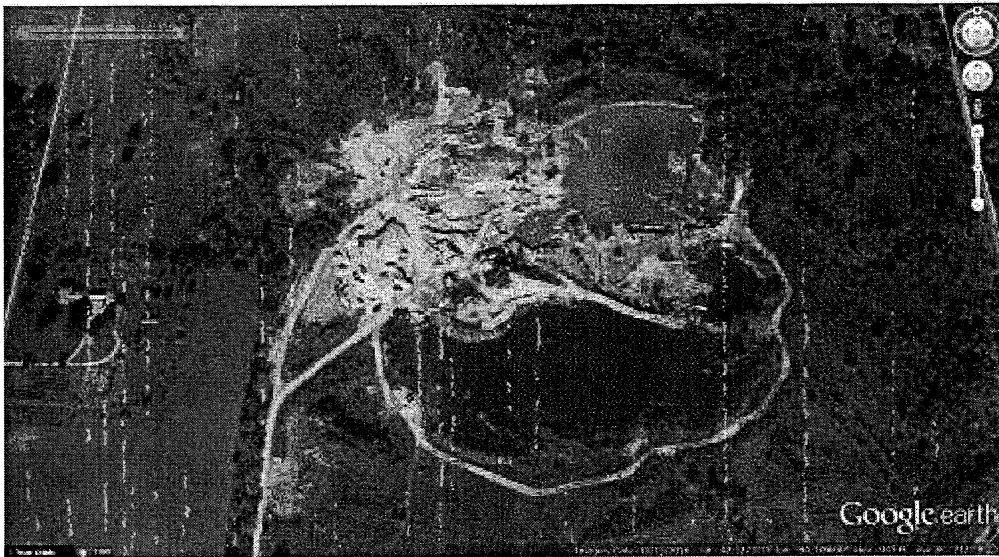


Image 2(Aerial photo) : Aerial photo of quarry.



Image 3(Burn barrel) : Burn barrel



Image 4(Trash piles) : Trash piles still smoldering.

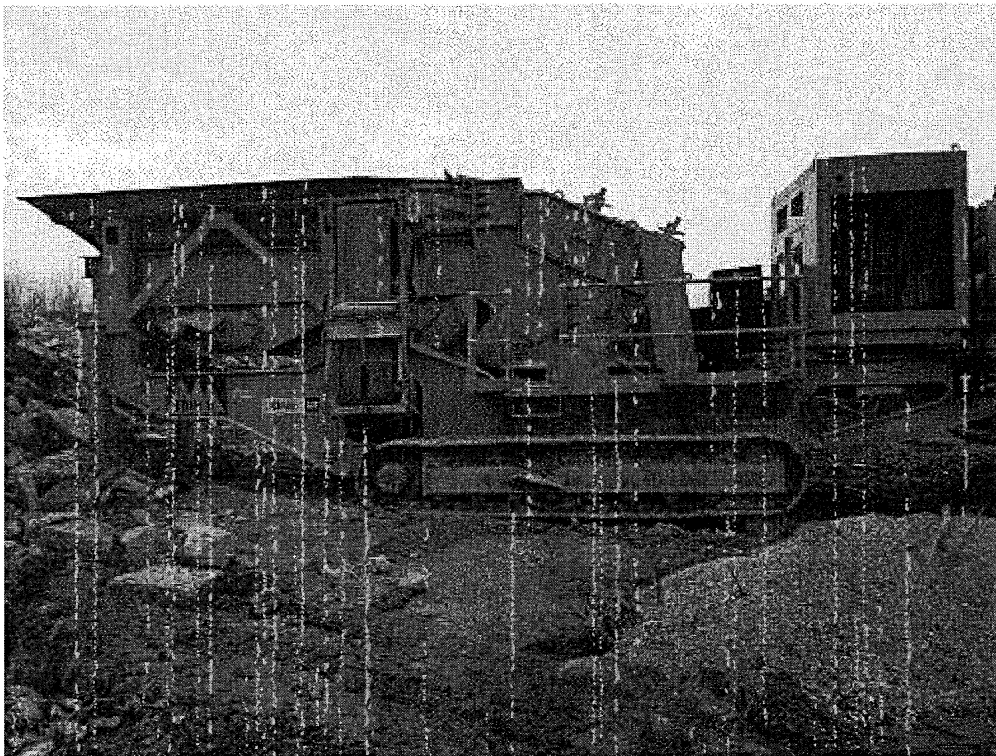


Image 5(Crusher) : Crusher

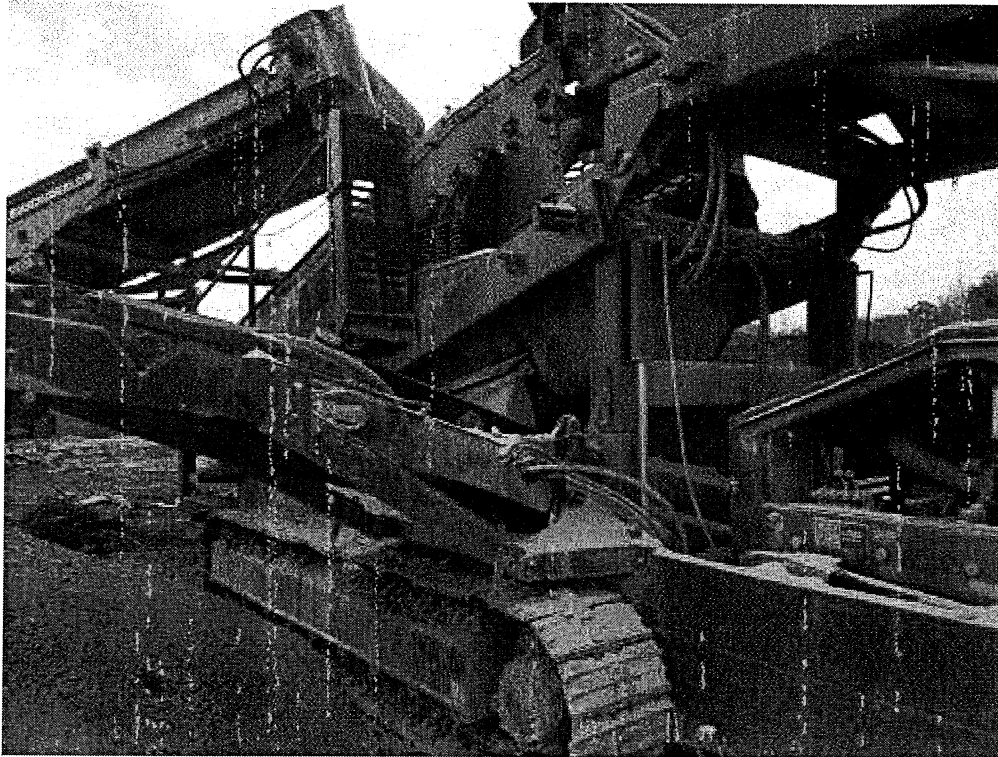


Image 6(Portable screen) : Portable screen



Image 7(Scrap metal dumpster) : Scrap metal from crushing concrete going to Omnisource.

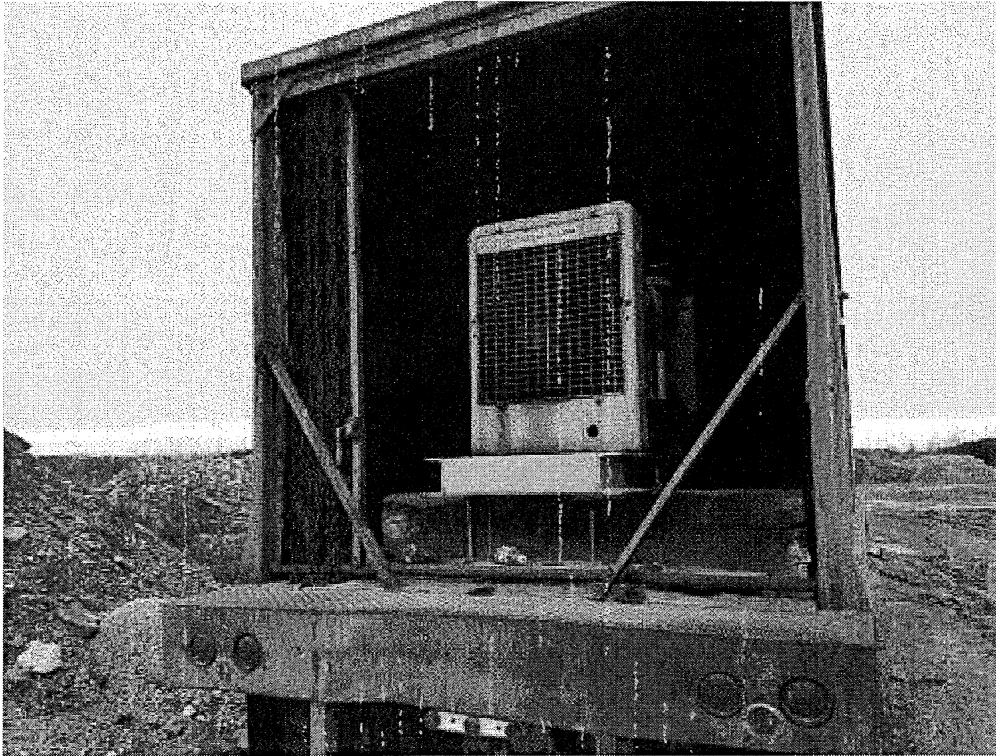


Image 8(Emergency generator) : Emergency generator powered by a diesel engine which wasn't being used.

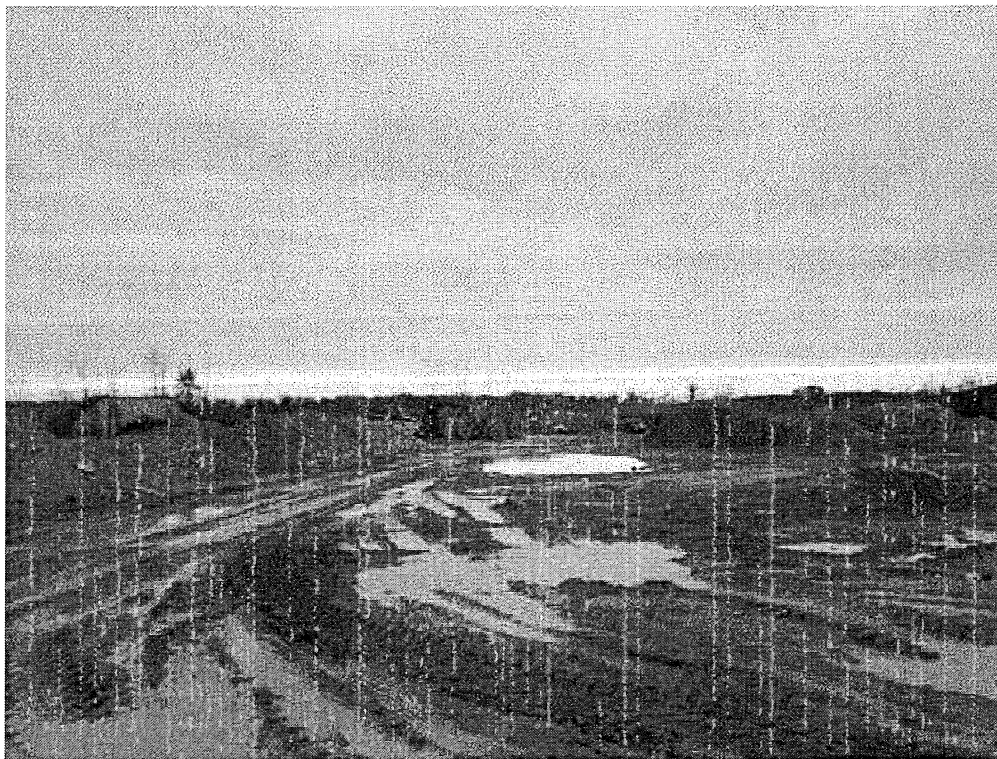


Image 9(Quarry) : Quarry



Image 10(Office) : Office near front gate.



Image 11(Portable screen) : Portable screen

NAME _____

DATE 11/20/2017

SUPERVISOR 