

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

N528454480

FACILITY: GRAND RAPIDS GRAVEL CO.		SRN / ID: N5284
LOCATION: 3800 7 MILE NE, PLAINFLD TWP		DISTRICT: Grand Rapids
CITY: PLAINFLD TWP		COUNTY: KENT
CONTACT: Chad Rose , Plant Manager		ACTIVITY DATE: 07/23/2020
STAFF: April Lazzaro	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Announced, scheduled inspection.		
RESOLVED COMPLAINTS:		

Staff, April Lazzaro arrived at the facility to conduct an announced, scheduled inspection and met with Chad Rose, Plant Manager. Mr. Rose and I met in his office to discuss the purpose of the compliance inspection. During the inspection, PPE and social distancing was utilized to the extent possible.

FACILITY DESCRIPTION

The Grand Rapids Gravel, 7 Mile Road facility is an over 100-acre sand and gravel mine that operates equipment pursuant to General Permit to Install (PTI) No. 334-99. Mr. Rose and I utilized a copy of the original PTI application as a guide as we observed the equipment on-site. This sand and gravel mine has been a source of complaints in the past, however the most recent complaint was received in 2018. I have observed dust generated by the sand and gravel mining activities in the past, but that fugitive dust was generally localized, and was not observed off-site. The majority of equipment on site is subject to the New Source Performance Standard for Nonmetallic Mineral Processing Plants found in 40 CFR Part 60 Subpart 000. (NSPS 000)

The sand and gravel mining operations at this location will be permanently suspended by the end of 2020, due to an agreement with Plainfield Township. This property will become a housing development that surrounds a 15-acre lake.

The water at the sand and gravel mine is not contaminated as is the water from adjacent properties that were once a landfill.

COMPLIANCE EVALUATION

Mr. Rose and I began the visual plant inspection and found that the majority of equipment in the permit was easily identifiable by the original equipment ID tag. There were a few items that the tag was illegible during plant operation, and it wasn't safe to get close enough to read. Some of the tags were no longer present, however based on the location relative to the site map, manufacturer and size; the equipment was identifiable. Mr. Rose notified me in writing that the labeling of equipment was completed.

We did find three pieces of equipment that had been replaced. All three were like for like replacements, however the AQD did not received a permit modification at the time the replacements were conducted. These replacements were considered exempt from additional visible emissions testing provisions pursuant to NSPS 000, 60.670(d)(1).

The facility identified in the permit application as a 3-Deck Vibrating Screen, Simplicity 6 x 20 Model 90 was replaced by a Diester 3-Deck Vibrating Screen. A General PTI modification was received on August 7, 2020. Due to the fact that the modification was received prior to the completion of this report, the fact that the plant is closing in a few months and this change was not subject to additional NSPS testing, no violation notice will be cited at this time.

We also found that the CMTE Inc. 460' x 36" conveyor was replaced by a Swift conveyor of the same size. A General PTI modification was received on August 7, 2020. Due to the fact that the modification was received prior to the completion of this report, the fact that the plant is closing in a few months and this change was not subject to additional NSPS testing, no violation notice will be cited at this time.

Lastly, an American Bin & Conveyor 125' x 36" conveyor was replaced by a Carter conveyor of the same size. A General PTI modification was received on August 7, 2020. Due to the fact that the modification was received prior to the completion of this report, the fact that the plant is closing in a few months and this change was not subject to additional NSPS testing, no violation notice will be cited at this time.

More than 30 regulated facilities were observed during the inspection. As we observed the Telesmith Inc. 52" cone crusher, I suggested that additional water be added to the process as there was an improvement to be made regarding dust being generated. We generally discussed the dust and how the visual amount correlates to the requirements of the permit. The amounts observed during the inspection were near to or below the limits established in the permit.

In general, the drop distances of the conveyors to the material piles were in good position to minimize the generation of fugitive dust. Photos of the plant are attached to this report. The photos show that the materials coming off the conveyor generally have residual moisture which reduces fugitive dust.

There is both a Telesmith 2250 Jaw Crusher and a Telesmith 48" x 20" vibrating Grizzly Feeder that are permitted, which are no longer on site, along with various other conveyors and other equipment that have been taken out-of-service over the years.

COMPLIANCE SUMMARY

The Grand Rapids Gravel, 7 Mile Road Facility was in compliance at the time of report completion.



Image 1(Plant overview 1) : Overview of plant operations. Residual water observed at conveyor drop points.



Image 2(Plant overview 2) : Overview of plant operations. Residual water observed at conveyor drop points.

NAME April Lazzaro

DATE 08/10/2020

SUPERVISOR 

