

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Self Initiated Inspection

A243740927

FACILITY: Quikrete		SRN / ID: A2437
LOCATION: 20 N PARK ST, COMSTOCK PARK		DISTRICT: Grand Rapids
CITY: COMSTOCK PARK		COUNTY: KENT
CONTACT: Jeremy Burt , Plant Manager		ACTIVITY DATE: 07/24/2017
STAFF: Adam Shaffer	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Following up on observations of excessive sand emissions by AQD staff. Completed a self-initiated inspection following VE readings.		
RESOLVED COMPLAINTS:		

Air Quality Division (AQD) staff Adam Shaffer (AS) arrived adjacent to the Quickrete facility the morning of July 24, 2017 to follow up on noted observations from AQD staff of excessive emissions on July 18, 2017. The weather conditions that morning were partly cloudy, temperatures were in the mid 60's, and winds were from the north at approximately 5-10 miles per hour. Once AQD AS was situated in an appropriate location, visible emission (VE) readings were completed from 9:48 am to 10:06 am for the stack associated with the main dryer. During that time VE readings were mainly 5-10% opacity with the highest reading at 20% opacity; however, this was less than 15 seconds in length. The highest overall 24 consecutive VE reading average was 7.29% which is well below the limit of 20% opacity, and therefore, in compliance. A copy of the VE recordings is attached with this inspection report. No VEs were observed coming from the remaining stack on site.

Facility Description

Following the VE readings, AQD staff AS completed a self-initiated inspection of the Quickrete facility. No odors were identified prior to entering the facility. Quickrete is a cement manufacturing facility. The site currently is in operation with four permits to install (PTI), which are PTI No's. 22-72, 219-72, 417-75, and 74-80. The four PTIs are for various onsite operations including a bin mounted bag filter for dust control, a dry mix bag filter control collector, a Type A dynaclone, and a H&B rotary dryer with an H&B Mo. D86150 fabric filter dust collector. The layout of the facility included Building 1, which was utilized as the main production facility, Building 2, which was used by Quickrete for production of their sand line, and Building 3 which is office and storage areas.

Upon arrival on site AQD staff AS met with Mr. Jeremy Burt, Production Manager. The initial purpose of this inspection was made aware to Mr. Burt regarding the additional observation by AQD staff of excessive emissions on July 18, 2017. A full inspection was completed and included a facility walk through and closing discussion. When discussing the excessive emissions observed on July 18, 2017 Mr. Burt explained that they had found a crack in the wall in the dust collector for the main dryer and it had subsequently been fixed. A follow up conversation on July 28, 2017 concluded from Mr. Burt the crack was fixed on July 22, 2017 and maintenance reports for the month of July 2017 were provided verifying the location of the crack and that it was fixed. The remaining available maintenance records were reviewed and concluded to be acceptable. All bags for the baghouses are replaced each year and for the 2017 year they had been completely replaced by March.

In the maintenance records the pressure drops observed for the baghouse for the dryer and the baghouse used for all interior plant activities were at 13 inches of water and 4 inches of water respectively. During the facility inspection the baghouse pressure drop gauge for the dryer was reading at 10.7 inches of water. The pressure drop gauge of the baghouse for all interior plant activities was observed to be non-functioning at the time of the inspection. A replacement pressure drop gauge was stated by Mr. Burt to be in his office and would be installed. A follow up phone conversation was completed on July 28, 2017 to verify if the pressure drop gauge had been installed. A photo verifying the pressure drop was replaced and operating in a satisfactory manner was submitted to and received by AQD staff AS on July 31, 2017.

At the time of the inspection fugitive dust was observed; however, it did not appear to be leaving the facility except during large gusts of wind. Historical weather conditions were noted for that area on July 24, 2017 to have maximum wind gusts up to 25 mph. Based on the weather conditions observed, it was determined by AQD staff to be difficult for Quickrete to prevent all fugitive emissions from leaving the site; therefore, no violation was issued. Fugitive dust was observed along roadways throughout the facility; however, this was not observed leaving the site. Mr. Burt stated that sweeping of the facility is completed weekly and chloride watering is completed when needed. AQD staff AS recommended that additional chloride watering be completed to mitigate fugitive emissions.

While inspecting the rotary dryer during operation, a leak was observed where sand was escaping the dryer.

This was pointed out to Mr. Burt and in a follow up phone conversation on July 28, 2017 it was stated that the leak was planned to be fixed in the next couple weeks. AQD staff will follow up with Quickrete staff to verify the leak has been fixed.

Additional Observations

- Approximately six 30,000 lb capacity tanks were observed on site. Mr. Burt stated that the tanks are shipped to offsite jobs where they mix materials to be utilized at that location.
- One small baghouse was observed along the southern exterior portions of Building 2. It was later identified to never having been in use.
- No emergency generators or boilers are utilized onsite.

Conclusion

A final discussion was completed with AQD staff AS and Mr. Burt. Based on the review of the records provided and the facility walk through, Quickrete is in compliance with PTI No's. 22-72, 219-72, 417-75, and 74-80 and all applicable air quality rules and regulations.

NAME

Adam E. Stoff

DATE

08/16/17

SUPERVISOR

[Signature]