

B3291

MANILA

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

B329154905		SRN / ID: B3291
FACILITY: GIBRALTAR NATIONAL CORP / QUIKRETE DETROIT		DISTRICT: Detroit
LOCATION: 8951 SCHAEFER, DETROIT		COUNTY: WAYNE
CITY: DETROIT		ACTIVITY DATE: 05/18/2020
CONTACT:		SOURCE CLASS: SM OPT OUT
STAFF: Jill Zimmerman	COMPLIANCE STATUS: Compliance	
SUBJECT:		
RESOLVED COMPLAINTS:		

DATE OF INSPECTION : May 18, 2020
INSPECTED BY : Jill Zimmerman
PERSONNEL PRESENT : Paul Robbins, Plant Manager
FACILITY PHONE NUMBER : 313-491-3500
EMAIL CONTACT : probbins@quikrete.com

FACILITY BACKGROUND

Gibraltar National Corporation (GNC) manufactures ready mix concrete and mortar, operating as a supplier to home improvement stores. GNC operates a sand dryer that prepares the sand and gravel for the mixing and bagging operation. The facility began operating at this location in 1960. Currently the facility is operating one shift per day, five days per week.

PERSONAL PROTECTION EQUIPMENT

During the onsite inspection I wore safety shoes, a safety vest, safety glasses and a hardhat.

COMPLAINT/COMPLIANCE HISTORY

No complaints have been received regarding this facility since the last inspection.

OUTSTANDING VNs

A violation notice was issued on February 14, 2019. This violation was resolved when proper recordkeeping was verified.

PROCESS EQUIPMENT AND CONTROLS

Wet sand of approximately 6% moisture is fed via a wet feed hopper to a bucket elevator. The elevator discharges into the inlet side of a counter-flow natural gas fired rotary kiln drier. The dust laden exhaust gas is ducted into a pulse jet baghouse. The bags are visually inspected about every other week, replacing any damaged bags. A black light inspection of the bags

occurs about once per quarter. The baghouse has 144 bags. A second baghouse is a dust hog that collects the plant air. This baghouse is exempt from permitting by Rule 285 (f) and operates with 48 cartridges.

INSPECTION NARRATIVE

On May 11, 2020, I sent Mr. Robbins an email message requesting operating records and asking questions that I would typically ask during an onsite inspection. Since the Covid-19 pandemic many facilities have been shut down or operating with limited hours, however Mr. Robbins stated that this facility has not shut down due to the pandemic. All answers to my questions as well as all requested records were received on May 18, 2020.

APPLICABLE RULES/PERMIT CONDITIONS

The facility is currently operating under PTI 205-16, with a facility wide emission unit, FG-FACILITY. This permit was issued on March 22, 2017. The special conditions for this permit are:

I. Emission Limits:

1. PM: Compliance – The highest reported PM emissions for a 12-month rolling time period was reported as 5.340 TPY in February 2020, which is less than the permitted limit of 40 TPY.
2. PM10: Compliance – The highest reported PM10 emissions for a 12-month rolling time period was reported as 2.09 TPY in both February 2020 and March 2020, which is less than the permitted limit of 8 TPY.
3. PM2.5: Compliance – The highest reported PM2.5 emissions for a 12-month rolling time period was reported as 0.075 TPY in March 2020, which is less than the permitted limit of 1.5 TPY.
4. VOC: Compliance – The highest reported VOC emissions for a 12-month rolling time period was reported as 0.032 TPY in February 2020 and March 2020, which is less than the permitted limit of 25 TPY.

II. Material Limits: Compliance – The facility dried 35,664 TPY of aggregate in the twelve month period ending in March 2020, which is less than the permitted limit of 65,000 TPY. The facility bagged 402 TPY of rock salt during the past 12 months, which is less than the permitted limit of 30,000 TPY.

III. Process / Operational Restriction: Compliance – The facility monitors the dust on the roadway and sweeps as needed with the sweeper that is located at the facility.

IV. Design / Equipment Parameters: Compliance – The facility has fabric filters on all of the bagging equipment and drying units, and the filters are monitored about every 30 days.

V. Testing / Sampling – NA

VI. Monitoring / Recordkeeping: Compliance – The facility maintains monthly and 12 month rolling time period records for PM, PM10, PM2.5, and VOC emissions as well as throughputs

for aggregate. Records are also maintained for the filter maintenance. A sample of these records are attached to this report.

VII. Reporting – NA

VIII. Stack / Vent Restrictions – NA

IX. Other Requirements – NA


MAERS REPORT REVIEW

This report as received on March 9, 2020. All emissions appear to have been reported accurately. Documents were submitted to support the reported emissions. This report was reviewed on March 18, 2020.

FINAL COMPLIANCE DETERMINATION

Gibraltar National Corporation appears to be operating in compliance with permit 205-16 as well as all state and federal regulations.

NAME



DATE

7/8/22

SUPERVISOR

JK