



Registration #: 20456

Site Name: Rockydale Quarries - Rockydale Plant
Address: 4592 Franklin Road, Roanoke, VA 24014
Contacts: Mike Chopski: (540) 769-8116
Chris Willis: (540) 315-0375

Report #: 334698

CMS: N/A
Classification: Synthetic Minor

AIR INSPECTION REPORT

The purpose of this inspection report is to document DEQ's observations and, based on such observations, provide the compliance status at the date and time of the inspection for requirements applicable to the facility. Presented below are the following:

- **Inspection Details** describe this inspection report
- **Compliance Summary** lists individual requirements addressed in the report
- **Inspection Summary** provides an overview of the inspector's observations
- **Inspection Checklist** provides additional details and individual observations related to specific requirements

Inspection Details

Inspection Date: Dec 17, 2021
Reason: Complaint Investigation (on-site)
Type: PCE With Site Visit
Inspector: Christina Clark
Inspection Results: In Compliance

Program Code	Subpart
NSPS	000
SIP	

Visit Date	Arrival Time	Departure Time	Weather
12/17/2021	09:43 AM	10:52 AM	Approximately 59 F and partly cloudy at arrival time

Approvals

Christina C. Clark

Margaret O. Wagner

Inspector: Christina Clark
Signed Date: Dec 27, 2021

Supervisor: Margaret Wagner
Approved Date: Dec 29, 2021

Compliance Summary

In Compliance The applicable requirements listed in the table below were confirmed during the inspection to be in compliance.

Permit Effective Date or Regulation	Applicable Requirement
7/29/2020 NSR	01, 02, 03, 04, 05, 15, 16, 17, 18, 19, 20

Inspection Summary

Incident Report #: 301837

A call was received by Prep on December 10, 2021 at approximately 2:00 pm by a complainant who wished to remain anonymous. The complaint was regarding airborne dust allegations from Rockydale Quarries located at 4592 Franklin Rd SW, Roanoke, VA 24014. The caller stated that dust from the quarry had been accumulating at his residence for the past several weeks/months; he has spoken to the quarry management, but the dust has not improved.

DEQ Air Compliance Inspector, Christina Clark (Staff), contacted Mr. Chris Willis, Regional Manager of Rockydale Quarries Corporation, on December 15, 2021 to discuss the complaint received. Mr. Willis stated that he was aware of a complaint received by the facility on the night of December 6, 2021 from a neighboring citizen who frequently contacted the facility regarding dust at his property. Mr. Willis stated that he would contact the facility General Manager, Mr. Mike Chopski, to get the details of the complaint received. Staff requested that the control device monitoring records for the Stedman Mill (Lime Plant) conveyor belts for December 2021, as required by the records requirements in the July 29, 2020 NSR permit, be submitted for review.

The Dust Suppression Maintenance Log, encompassing the time period of the complaint received by Prep, was received from Mr. Willis on December 16, 2021 (see Attachment 1). The log indicated that on December 6, 2021 Mr. Chopski had received a call at 10:30 pm from the complainant about dust. There were high winds and the evening shift had shut down the Stedman Mill (Lime Plant) and also had an operator wet the material piles with the water truck. The log also indicated that on December 15, 2021 a fan bearing went out and it was tagged for repair.

On December 17, 2021 Staff arrived outside of the maintenance shop/office area of Rockydale Quarries at 9:43 am and met with Mr. Chris Willis and Mr. Mike Chopski. Staff asked questions about the Dust Suppression Maintenance Log that had been submitted by Mr. Willis on December 16, 2021. The facility has a full-time operator for the water truck which is operated between 7:00 am - 5:00 pm Monday to Friday to spray water on the plant entrance, haul roads, and material stockpiles.

Mr. Chopski then escorted Staff around the facility. During the on-site inspection the majority of the facility was in operation. The Stedman Mill (Lime Plant), however, was not in operation during the on-site complaint investigation due to a bearing failure on the Stedman Mill baghouse ID fan. The ID fan had been tagged out for repair on December 15, 2021 (noted on log in Attachment 1) and was still in the process of being repaired per Mr. Chopski. Maintenance personnel were observed working around the ID fan during the on-site inspection. Haul roads and material stockpiles throughout the facility were observed as being wetted and the wet suppression systems (water misters) installed on various conveyors and equipment at the facility were in operation. No significant sources of fugitive dust were noted during the on-site inspection.

Recommendations: The facility is reminded to notify the BRRO of malfunctions at the facility or related air pollution control equipment that may cause excess emissions for more than one hour.

Attachments:

Inspection Checklist

Effective Date: Jul 29, 2020

Applicable Requirement #: 01

Compliance Status: In Compliance

Applicable Requirement

PROCESS REQUIREMENTS

1. Fugitive Dust Emission Control - Unless otherwise specified, dust emission controls shall include the following or equivalent as a minimum:

a. Dust from drills, shot piles, material handling, screens, crushers, load-outs and traffic areas shall be controlled by wet suppression or equivalent (as approved by the DEQ). The wet suppression spray systems shall be operated at optimum design, and pressure gauges shall be installed (with adequate access for inspection of the measuring device) to indicate system operating pressures.

b. All material being stockpiled shall be kept moist to control dust during storage and handling or covered at all times to minimize emissions.

c. Haul roads shall be controlled by wet suppression.

d. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9VAC5-50-90 and 9VAC5-50-1180) [09/05/2014]

Observation

During the on-site inspection wet suppression was in operation, material stockpiles had been wetted, haul roads had been wetted, and there were no significant fugitive emissions observed. The facility contact stated that a new scale house and a new wheel wash station had been installed in 2020 that requires all loaded vehicles to pass through it before entering onto public roads.

Effective Date: Jul 29, 2020

Applicable Requirement #: 02

Compliance Status: In Compliance

Applicable Requirement

2. Emission Controls - Particulate emissions from the pugmill storage bins shall be controlled by wet suppression. The equipment shall be provided with adequate access for inspection.

(9VAC5-50-260 and 9VAC5-80-1180) [09/08/2010]

Observation

During the on-site inspection the wet suppression equipment at the pugmill storage bins was in operation and functioning as required.

Effective Date: Jul 29, 2020

Applicable Requirement #: 03

Compliance Status: In Compliance

Applicable Requirement

3. Emission Controls - Particulate emissions from the Stedman Mill shall be controlled by a baghouse. The baghouse shall be equipped with a device to continuously measure the differential pressure across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.

(9VAC5-50-260 and 9VAC5-80-1180) [09/05/2014]

Observation

During the on-site inspection the Stedman Mill (Lime Plant) was not in operation due to the ID fan bearing failure on the Stedman Mill baghouse. The ID fan had been tagged out for repair on December 15, 2021 (noted on log in Attachment 1) and was still in the process of being repaired per the facility. The baghouse differential pressure was observed by the facility as 2.0 in. H₂O during the week of 11/29 - 12/3, 2.0 in. H₂O during the week of 12/6 - 12/10, and 1.6 in. H₂O between 12/13 - 12/15.

[See Attachment 1]

Effective Date: Jul 29, 2020

Applicable Requirement #: 04

Compliance Status: In Compliance

Applicable Requirement

4. Emission Controls - Particulate emissions from tertiary crushing shall be controlled by wet suppression and total

enclosure. The tertiary crushers shall be provided with adequate access for inspection.

(9VAC5-50-260 and 9VAC5-80-1180) [09/08/2010]

Observation

During the on-site inspection the wet suppression equipment was in operation and functioning as required.

Effective Date: Jul 29, 2020

Applicable Requirement #: 05

Compliance Status: In Compliance

Applicable Requirement

5. Stedman Mill Conveyors Wet Suppression – Monthly periodic inspections shall be performed to check that water is flowing to discharge spray nozzles in the wet suppression system for the Stedman Mill belt conveyors. The permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray nozzles. The permittee shall designate the affected facilities that will use direct wet suppression and those affected facilities that will rely on water carryover from upstream water sprays to control particulate matter emissions. The permittee must record each inspection and any corrective actions taken, in the logbook (in written or electronic format) as required under 40 CFR 60.674(b). (9VAC5- 80-1180 D, 9VAC5-50-400 and 9VAC5-50-410) [09/05/2014]

Observation

During the timeframe of 11/29/21 - 12/17/21, the facility provided a Dust Suppression Maintenance Log indicating that weekly inspections of the wet suppression system for the Stedman Mill (Lime Plant) had been performed. It was noted by Staff that the inspections are being conducted more frequently than the monthly inspection requirement in this condition.

[See Attachment 1]

Effective Date: Jul 29, 2020

Applicable Requirement #: 15

Compliance Status: In Compliance

Applicable Requirement

15. Visible Emission Limit - Visible emissions from the primary and secondary crushing shall not exceed fifteen percent (15%) opacity.

(9VAC5-80-1180 and 9VAC5-50-410) [July 29, 2020]

Observation

There were no visible emissions noted at the time of the on-site inspection.

Effective Date: Jul 29, 2020

Applicable Requirement #: 16

Compliance Status: In Compliance

Applicable Requirement

16. Visible Emission Limit - Visible emissions from tertiary crushing shall not exceed seven percent (7%) opacity.

(9VAC5-80-1180 and 9VAC5-50-410) [09/08/2010]

Observation

There were no visible emissions noted at the time of the on-site inspection.

Effective Date: Jul 29, 2020

Applicable Requirement #: 17

Compliance Status: In Compliance

Applicable Requirement

17. Visible Emission Limit - Visible emissions from the Stedman Mill controlled by the fabric filter shall not exceed seven percent (7%) opacity.

(9VAC5-80-1180) [09/08/2010]

Observation

There were no visible emissions noted at the time of the on-site inspection.

Effective Date: Jul 29, 2020

Applicable Requirement #: 18

Compliance Status: In Compliance

Applicable Requirement

18. Visible Emission Limit - Visible emissions from screening, stockpiles, surge bins, conveyor transfer points (except transfer points associated with conveyors at the Stedman Mill plant (LC-0 through LC-10, LC-13 and LC-14)), the pugmill storage bins, and fugitive emission points shall not exceed ten percent (10%) opacity.

(9VAC5-80-1180 and 9VAC5-50-410) [July 29, 2020]

Observation

There were no visible emissions noted at the time of the on-site inspection.

Effective Date: Jul 29, 2020

Applicable Requirement #: 19

Compliance Status: In Compliance

Applicable Requirement

19. Visible Emission Limit - Visible emissions from MSC1: Rockydale 18" x 25' Screen Feed Conveyor shall not exceed seven percent (7%) opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).

(9VAC5-50-410 and 9VAC5-80-1180) [July 29, 2020]

Observation

There were no visible emissions noted at the time of the on-site inspection.

Effective Date: Jul 29, 2020

Applicable Requirement #: 20

Compliance Status: In Compliance

Applicable Requirement

20. Visible Emission Limit - Visible emissions from conveyor transfer points for conveyors associated with the Stedman Mill plant (LC-0 through LC-10, LC-13 and LC-14) shall not exceed seven percent (7%) opacity. (9VAC5-80-1180, 9VAC5-50-260 and 9VAC5-50-410) [09/05/2014]

Observation

The Stedman Mill Plant (referred to by the facility as the Lime Plant) was not operating during the on-site inspection due to maintenance on the Stedman Mill baghouse ID fan and there were no visible emissions observed.