



**AIR EMISSION TEST REPORT**

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Title                   RESULTS OF VISIBLE EMISSION COMPLIANCE  
TESTING FOR A NON-METALLIC MINERAL  
PROCESSING FACILITY

Report Date   November 27, 2017

Test Dates     November 7, 2017

<b>Facility Information</b>	
Name	Grosso Trucking and Supply Company
Location	10015 Marine City Highway
City, County	Fair Haven, St. Clair County

<b>Facility Permit Information</b>			
PTI No.	274-01	SRN No.	N7011

<b>Testing Contractor</b>	
Company	Derenzo Environmental Services
Mailing Address	39395 Schoolcraft Road Livonia, MI 48150
Phone	(734) 464-3880
Project No.	1710009



RESULTS OF  
VISIBLE EMISSION COMPLIANCE TESTING  
FOR  
NON-METALLIC MINERAL PROCESSING FACILITY  
  
GROSSO TRUCKING AND SUPPLY COMPANY  
FAIR HAVEN, MI

**1.0 INTRODUCTION**

Grosso Trucking and Supply Company (Grosso) has recently installed a replacement secondary impact crusher at their non-metallic mineral crushing facility located at 10015 Marine City Highway, Fair Haven, St. Clair County, Michigan. The facility is regulated under a General Permit to Install (PTI) identified as PTI No. 274-01.

Pursuant to Special Condition 1.8 of the PTI, visible emission (VE) testing is required for all equipment that is subject to federal New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants, 40 CFR Part 60 Subpart OOO. All equipment operated at the permitted facility apart from the newly installed secondary impact crusher has previously been observed for VEs relative to the General PTI and NSPS

The Michigan Department of Environmental Quality (MDEQ) Air Quality Division (AQD) has issued General Permit to Install (PTI) No. 274-01 to Grosso for the operation of the equipment identified as Emission Unit FGCRUSHING. Grosso contracted Derenzo Environmental Services to perform the VE observations on the newly installed secondary crusher and any associated transfer points.

Tom Andrews performed the VE testing for the newly installed secondary crusher and associated transfer points on November 7, 2017. Mr. Steven Grosso, Owner of Grosso Trucking, coordinated the project.

A protocol for the VE testing was submitted to the MDEQ-AQD on October 12, 2017 prior to the performance test.

Questions regarding this emission test report should be directed to:

Tom Andrews  
Environmental Technician  
Derenzo Environmental Services  
39395 Schoolcraft Road  
Livonia, MI 48150  
Ph: (734) 464-3880

Mr. Steven Grosso  
Owner  
Grosso Trucking and Supply Company  
10015 Marine City Highway  
Fair Haven, MI 48023  
Ph: (586) 725-2935

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**Report Certification**

This test report was prepared by Derenzo Environmental Services based on field observations collected by Derenzo Environmental Services. This test report has been reviewed by Grosso representatives and approved for submittal to the MDEQ.

I certify that the testing was conducted in accordance with the specified test methods and submitted test plan unless otherwise specified in this report. I believe the information provided in this report and its attachments are true, accurate, and complete.

Report Prepared By:



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Blake Beddow  
Environmental Consultant  
Derenzo Environmental Services

## **2.0 SUMMARY OF TEST RESULTS AND OPERATING CONDITIONS**

### **2.1 Purpose and Objective of the Tests**

The MDEQ-AQD issued General PTI No. 274-01 to Grosso for the operation of non-metallic mineral crushing process and equipment (identified as flexible group FGCRUSHING).

All equipment in the Gross plant had been tested for VEs prior to the November 7, 2017 test event, except for the newly installed secondary crusher.

Pursuant to Special Condition 1.8 of the PTI, visible emission (VE) testing is required for all equipment that is subject to federal New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants, 40 CFR Part 60 Subpart OOO.

### **2.2 Operating Conditions During the Compliance Tests**

The facility operated normally during the test event. Water suppression was applied to the material before the crusher.

### **2.3 Summary of Air Pollutant Sampling Results**

VE observations were performed on November 7, 2017. A total of three (3) transfer points were observed for visible emissions by a certified observer of visible emissions. All visible emission observations were zero percent opacity.

No visible emissions were observed (all recorded values are 0%). The facility is in compliance with the opacity limits in Table 3 to Subpart OOO.

## **3.0 SOURCE AND SAMPLING LOCATION DESCRIPTION**

### **3.1 General Process Description**

Grosso operates non-metallic mineral processing equipment at their facility in Fair Haven, MI. The Grosso plant uses crushers, screens, conveyors, and stackers to crush and segregate the material (emission group FGCRUSHING). Recycled concrete was being crushed during the visual emission observations. Only the newly installed secondary crusher and its associated transfer points were evaluated for opacity during the test event.

Appendix 1 presents a diagram of the mineral crushing and processing equipment included in the visible emissions evaluation.

### **3.2 Rated Capacities and Air Emission Controls**

The secondary crusher has a 320 tph rated production capacity.

The equipment is equipped with water sprays that are used to control potential fugitive dust (particulate matter) when needed. Residual moisture is adequate to control fugitive emissions on the conveyors and downstream transfer points.

The control equipment is operated to maintain compliance with fugitive and visible emission limits specified by the NSPS and operational requirements of the PTI issued to Grosso Trucking and Supply Company.

### **3.3 Sampling Locations**

All VE observations were conducted at points in accordance with USEPA Method 9 requirements.

Appendix 3 provides field data sheets with appropriate VE observation point diagrams.

## **4.0 SAMPLING AND ANALYTICAL PROCEDURES**

This section provides a summary of the procedures that were used during the Grosso plant observation periods.

Opacity observations were conducted by a certified observer of visible emissions in accordance with USEPA Method 9 criteria.

40 CFR Part 60, Subpart OOO, Section 60.675(c)(3) specifies that Method 9 observations for fugitive emissions from affected sources under Section 60.672(b) must be 30 minutes (five 6-minute averages) and compliance with the applicable fugitive emission limits must be based on the average of the five 6-minute averages.

40 CFR Part 60, Subpart OOO, Section 60.675(c)(3) specifies that three sources may be read concurrently if all three emission points are within a 70° viewing sector or angle in front of the observer, such that proper sun position can be maintained for all three points, and if an opacity reading for any one of the three emission points is within 5 percent opacity of the applicable standard, then the observer must stop taking readings for the other two points and continue reading just the single point. Three emission points were observed concurrently and, at no time, was the observed opacity within 5% of the applicable limit.

**5.0 RESULTS**

**5.1 Test Results and Allowable Emission Limits**

Fugitive visible emission data for each process are presented in Table 6.1 along with the applicable opacity limit. All visible emission opacities were zero percent. Therefore, the facility is operating in compliance with the PTI and NSPS emission standards.

All observation periods were conducted at points which meet USEPA Method 9 and Subpart OOO criteria and were confirmed by MDEQ representative Nathan Hude.

Appendix 2 provides the qualified observer certificate.

Appendix 3 provides field data sheets and individual observation point diagrams.

**5.2 Variations From Normal Sampling Procedures or Operating Conditions**

The testing for all pollutants was performed in accordance with USEPA Method 9, Subpart OOO and the test protocol dated October 12, 2017. The facility was operated normally.

Table 5.1 Average opacity at each transfer point

<b>Visible Emission Observation Point</b>	<b>Observed Opacity (%) (6 min. avg.)</b>	<b>Permit Limit (%) (6 min. avg.)</b>
Secondary Crusher	0	15
Secondary Crusher to Conveyor	0	10
Conveyor to Secondary Crusher	0	10