

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

N703540543

FACILITY: Carl Schlegel Inc.		SRN / ID: N7035
LOCATION: 16527 Wood Road, LANSING		DISTRICT: Lansing
CITY: LANSING		COUNTY: CLINTON
CONTACT: Mark Schlegel , Manager		ACTIVITY DATE: 06/28/2017
STAFF: Julie Brunner	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Compliance inspection, GPTI 319-01		
RESOLVED COMPLAINTS:		

On June 28, 2017, I conducted an inspection of Carl Schlegel Inc. at Wood Road which has a non-metallic mineral crushing plant operating per the requirements of General Permit to Install (GPTI) No. 319-01 (N7035). The Wood Road plant is permitted as a portable, but is actually stationary as it never changes location.

Facility Name and Location:

Carl Schlegel Inc.
16527 Wood Road, Lansing, Michigan

Facility Contacts:

Mark Schlegel (markc@schlegelsand.com), office: 517-487-5961
Dave Schlegel (former owner and Mark's father)

Last AQD Inspection Date: August 12, 2014

Facility Background and Regulatory Overview:

Carl Schlegel Inc. has been in business for 71 years, and is a family owned and operated business. They recycle concrete, asphalt, and brick, and crush and sell construction aggregates. The Wood Road plant is used to crush stone, concrete (that contractors bring in) and asphalt for recycling. The main crusher was installed in January 2001 and the plant has been modified a couple of times. The operation includes crushing, screening, and conveying equipment, and power to the plant is provided from the grid by Consumers Energy.

Asphalt is crushed only during the winter when the material is brittle, and is a function of equipment limitations (slow speed crusher). Crushing asphalt during the summer would cause the asphalt to gum-up the equipment.

The area surrounding the Wood Road facility is mixed use with a landfill to the west, and commercial/industrial properties with some residential housing mixed in to the south. To the east is a housing subdivision and to the north it is a field.

Amount Processed: The plant is at about 25% capacity, ~100,000 tpy of product sold

Staff #: 4 plant operators **Shifts/Day:** 1 **Days of Operation/Week:** Monday thru Friday

Portable crushing plants are minor sources of any regulated air contaminants including hazardous air pollutants (HAPs) and not subject to the Title V Renewable Operating Permit (ROP) program. Equipment that is part of a portable crushing plant could be subject to the New Source Performance Standard (NSPS) in 40 CFR 60, Subpart OOO — Standards of Performance for Nonmetallic Mineral Processing Plants.

§60.670 Applicability and designation of affected facility.

(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station....

Equipment permitted on GPTI 319-01 is subject to the requirements of 40 CFR 60, Subpart OOO as indicated on the GPTI Application form. The affected facility is capable of processing greater than 150 tons per hour, and each piece of equipment is subject if it was constructed after August 31, 1983.

Michigan Air Emissions Reporting System (MAERS):

The facility reports to MAERS as a Category III fee subject. There were 454.83 lbs of PM10 emissions reported for 2016 due to crushing operations. The plant processed 45,482.83 tons of sand and gravel in 2016.

Inspection:

Arrived: 8:23 am

Departed: 9:21 pm

Weather: 61°F, SSW 9 MPH, UV Index 1 Low

When I arrived, no visible emissions were observed nor odors detected. Trucks were delivering and picking up materials, and materials were being moved around on-site. I went into the scale house and was directed upstairs to the office. I meet Mark and his father, and explained the purpose of my visit. The crushing plant was not operating that day. It has operated about 25 to 30 days this year. I got a copy of the operating record, and then Dave took me out into the yard to check equipment.

Equipment and Company IDs on GPTI 319-01 confirmed on-site:

Device ID	Equipment	Make	Max. rated capacity (ton/hr)	Manufacture date / Subpart OOO tested
F101	Feeder	Trio Fa 52" x 20'	285	5/1999
CR001	Feeder / JawCrusher	Cedar Rapids 30" x 54"	285	NA / 8-26-02
F102	Under crusher feeder	Trio 1F 40" x 10'	285	4/2000
C101	Conveyor (to magnet)	Hartman Fabco (42" x 46")	285	5/2000 / 8-26-02
C102	Conveyor (to main screen)	shop built (30" x 60')		1970s / 8-26-02
C103	Conveyor (under main screen)	shop built (54" x 25')	200	NA / 8-26-02
C105	Conveyor	Barber Green (24" x 125')	150	NA
C106	Conveyor	Hartman Fabco (18" x 45')	150	NA
SCR001	Screen (main)	ElJay FSG5163 (5' x 16')	200	NA
SCR004	Screen	Diester BXHM-1412 (4' x 12')	200	NA / 8-26-02
C123	Conveyor (to diester screen)	shop built (30" x 58')	200	1970s / 8-26-02
C124	Conveyor (return to C101)	shop built (24" x 15')	125	NA / 8-26-02
C125	Conveyor (Wood Rd fill)	shop built (60" x 45')	150	NA / 8-26-02
C170	Conveyor (cone to main screen)	shop built (36" x 102')	200	2002 / 11-8-2004

C171	Conveyor (cone feed)	shop built (30" x 80')	200	1970s / 11-8- 2004
CR005	Cone Crusher	Trio 4 1/4	350	2002 / 11-8- 2004
C172	Conveyor	shop built (24" x 22')	150	NA / 11-8- 2004
C200	Conveyor	Barber Green (24" x 118')	150	NA
C201	Conveyor (21AA trans stacker)	shop built (30" x 118')	200	NA
C230	Conveyor (21AA trans conveyor)	shop built	200	NA

Visible Emission Limits

Special Condition (SC) 1.2 contains visible emission limits for crushers, screens, and conveyors. Since the process was not operating, there were no visible emissions.

Material Processing

In SC 1.3, the permit limits material throughput to 2,000,000 tons per year per site. The plant is well below the material throughput limit.

Process/Operational Limits

SC 1.6 The program for continuous fugitive emissions in Appendix A in the permit must be followed in order to operate the crushing facility. The facility has a program for fugitive dust control in place.

Equipment

SC 1.7 Each crusher and screen is required to have water spray equipped (or bag house). I confirmed that water spray was installed on the crushing equipment.

Also, water spray is installed at the end of Conveyor C201 to reduce fugitive dust emissions.

Testing

SC 1.8 requires verification of visible emissions from 40 CFR 60, Subpart OOO subject equipment. See the table above for equipment that has been tested.

Recordkeeping (Monitoring)

SC 1.9 requires daily and annual records of material processed. A copy of the operating record for 2017 to date was obtained. Materials produced were 21AA and crushed asphalt. The amount of crushed material that has been produced up to July 5 is as follows:

23,937.5 tons of 21AA

5,750 tons of crushed asphalt

Permit Dates

SC 1.11 requires that equipment be labeled with company IDs. All equipment was labeled.

Miscellaneous/Allowed Modification

The last time the plant was modified per the requirements of SC 1.12 was July 23, 2012 to add a conveyor.

The closest residence is located greater than 600 feet to the east of the crushing plant in compliance with SC 1.13c which requires a minimum of 500 feet from a residential or commercial establishment.

Fugitive Dust Control Plan – Appendix A

A water truck is onsite to control dust and clean up spills on the paved roadways/plant yard. When I was out walking around the yard, the roads were a little dusty. Truck traffic was kicking up dust. An operator is responsible for keeping an eye on the dust, and he came out and started watering while I was

finishing the yard walk through.

They don't like to chloride the roads, and instead rely on watering. To minimize dust for crushed concrete, they also add a little dirt to help control dust when crushing.

Summary:

The plant was in compliance with all applicable air quality rules and regulations, and GPTI 319-01.

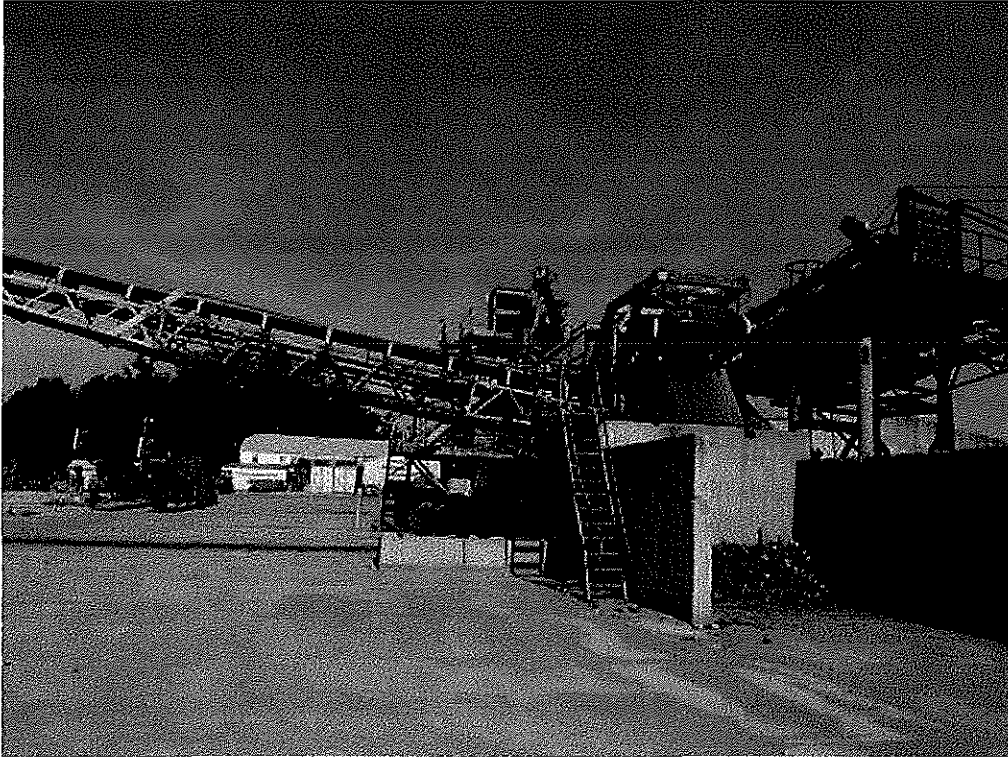


Image 1(Conveyor) : Equipment



Image 2(Feed Ramp) : Ramp to crusher



Image 3(Water truck) : On-site water truck

NAME Julie L. Brown

DATE 7/10/17

SUPERVISOR B. M.