



REGION 5

CHICAGO, IL 60604

MEMORANDUM

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Michigan Paving & Materials Co., Lansing, Michigan

FROM: Brianna Fenzl, Environmental Engineer
AECAB (IL/IN)

THRU: Nathan Frank, Section Supervisor
AECAB (IL/IN)

TO: File

BASIC INFORMATION

Facility Name: Michigan Paving & Materials Co.

Facility Location: 16777 Wood Rd, Lansing, Michigan

Date of Inspection: May 16, 2024

EPA Inspector(s):

1. Brianna Fenzl, Environmental Engineer
2. Aileen Drum, Physical Scientist

Other Attendees:

1. Norm Holm, Commercial Manager
2. Sue Hanf, Environmental Engineer
3. Brooks Cozert, Plant Operator

Contact Email Address: shanf@mipmc.com

Purpose of Inspection: To determine compliance with the Clean Air Act and Michigan Department of Environment, Great Lakes, and Energy (EGLE) Permit-to-Install

Facility Type: Hot Mix Asphalt Plant

Regulations Central to Inspection: EGLE Permit-to-Install

Facility Name: Michigan Paving & Materials Co.
Facility Location: 16777 Wood Rd, Lansing, Michigan
Date of Inspection: May 16, 2024

Arrival Time: 10:30 AM

Departure Time: 12:49 PM

Inspection Type:

- ☒ Unannounced Inspection
- ☐ Announced Inspection

OPENING CONFERENCE

- ☒ Presented Credentials
- ☒ Stated authority and purpose of inspection
- ☒ Provided Small Business Resource Information Sheet: *Provided via email post-inspection*
- ☐ Small Business Resource Information Sheet not provided. Reason:
- ☒ Provided CBI warning to facility

The following information was obtained verbally from Michigan Paving & Materials, Co. (MPM) unless otherwise noted.

Process Description:

MPM is an asphalt manufacturing site that is permitted to operate 24/7, but typically operates 8-10 hours each day with approximately 20 employees. Raw materials include gravel, sand, liquid asphalt, and recycled asphalt millings. Sand, gravel, and recycled asphalt millings are brought in by trucks and stored in piles in the facility yard. Liquid asphalt and cement are stored in tanks. There is a line of feed hoppers that hold aggregates separated by particle size and property. The amount of each aggregate is variable in each mix, and dependent on the use that type of asphalt is made for. Feed hoppers run at a fixed rate, depending on how much of each aggregate is needed. Shakers and screen decks are used to screen-out larger pieces that are not meant to go into the mix. The aggregate for the mix is brought by belt to a drum where it is dried. The dry aggregate travels down the drum and liquid asphalt is injected. A bucket elevator carries the hot mix asphalt (HMA) to a drag conveyor and then to a silo for storage. At each silo, there is a blue smoke control unit at each silo to control PM and "haze" from silo filling. There are 10 silos, each with a capacity of 300 tons of HMA. There is a knockout box that leads to a baghouse where the pressure drop is monitored daily. If the pressure drop is out of range, production is slowed until it is brought back between 2 and 8" WC. A black light test, where black light powder is injected, is done at the baghouse annually to check bag efficiency.

MPM has a fugitive dust plan where gravel roads are sprayed with chloride 2-3 times a year and paved roads are swept 1-2 times a week.

Staff Interview:

Production has been steady for the last five years. MPM operates under a throughput limit in their permit. MPM tracks their emissions in their internal air log that are based on tons of HMA produced.

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Emission factors are either from EGLE, AP-42 Vol. 1: Section 11.1 Hot Mix Asphalt Plant, and/or a stack test conducted in 2007.

TOUR INFORMATION

EPA Toured the Facility: Yes

Data Collected and Observations:

EPA observed the stockpiles and feed hoppers first. Then observed the aggregates mixed transferred into the drum to be dried. EPA observed the baghouse, baghouse stack, and liquid asphalt tanks. EPA went into the control room and read the pressure drop at the baghouse to be 3.4" WC.

Photos and/or Videos: were taken during the inspection and are listed in Appendix A.

Field Measurements: were not taken during this inspection.

RECORDS REVIEW

1. Asphalt Process Diagram
2. AP-42 Vol. 1: Section 11.1 Hot Mix Asphalt Plant

CLOSING CONFERENCE

☐ Provided U.S. EPA point of contact to the facility

Requested documents:

- Internal Air Log from January 2021-Present
- 2007 Stack test
- Annual Emissions Reports from 2021-Present
- Baghouse design and capacity
- Original permit application for the baghouse

DIGITAL SIGNATURES

Report Author: **BRIANNA FENZL**  Digitally signed by
BRIANNA FENZL
Date: 2024.07.15
20:29:03 -05'00'

Section Supervisor: **NATHAN FRANK**  Digitally signed by
NATHAN FRANK
Date: 2024.07.15
22:29:53 -05'00'

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APPENDICES

1. Appendix A: Digital Image Log and Digital Video Log

Facility Name: Michigan Paving & Materials Co.
Facility Location: 16777 Wood Rd, Lansing, Michigan
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APPENDIX A: DIGITAL IMAGE LOG AND DIGITAL VIDEO LOG

Inspector Name: Aileen Drum

Archival Record Location: *AECAB Library >
Enf_MichiganPavingSpartanAsphalt_MI_24 >
Enf_MichiganPavingSpartanAsphalt_MI_24_Inspection
> Photos*

Image Number	File Name	Date and Time (incl. Time zone and DST)	Description of Image
1	P5160003.JPG	5/16/24 12:15 PM CST	MPM Plant
2	P5160004.JPG	5/16/24 12:15 PM CST	MPM Plant, duplicate
3	P5160005.JPG	5/16/24 12:34 PM CST	HMA storage silos and baghouse stack
4	P5160006.JPG	5/16/24 12:36 PM CST	HMA storage silos, baghouse stack, and liquid asphalt tanks