



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DATE: See Date of Section Chief Signature Below

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
MAT Asphalt, Chicago, IL

FROM: David Sutlin, Environmental Engineer, EPA
AECAB (MN/OH)

THRU: Brian Dickens, Section Chief
AECAB (MN/OH)

TO: File

BASIC INFORMATION

Facility Name: MAT Asphalt, LLC

Facility Location: 2055 Pershing Avenue, Chicago, Illinois

Date of Inspection: July 27, 2021

EPA Inspector(s):

1. David Sutlin, Environmental Engineer

Other Attendees:

1. Joe Haughey, Plant Manager, MAT Asphalt
2. Brian Derry, Principal, EnSafe Inc.
3. Kevin Mattison, Illinois EPA
4. Daniel Delgado, Illinois EPA

Contact Email Address: jhaughey@matasphalt.com

Purpose of Inspection: To record videos at potential VOC emission points using a FLIR camera, during a performance test of the hot mix asphalt plant.

Facility Type: Hot mix asphalt production

Arrival Time: 7:30AM

Departure Time: 10:15 AM

Inspection Type:


- Unannounced Inspection
- Announced Inspection

SUMMARY

EPA conducted onsite monitoring of potential VOC emission points during a performance test at the hot mix asphalt plant's baghouse stack. FLIR cameras can detect emissions of organic compounds, some of which may be VOC. Weather conditions during the monitoring consisted of partly cloudy skies, temperatures near 81°F, 50-60% humidity, and shifting winds at or below 5 mph. EPA first stopped by the control room to check current operating conditions and confirmed that the hot mix asphalt production rate was between 350-360 tons per hour, with drum temperature between 284-304 °F, and RAP percent between 1.5-1.7%. While the testing commenced, EPA captured FLIR video of the baghouse stack, the tops of the storage silos where finished asphalt was being loaded off a conveyor system, and the truck load out where asphalt was being loaded into trucks driving below the storage silos. The videos appear to show emissions of organic compounds at all three locations. Such emissions are typical of hot mix asphalt plants, and conclusions as to the quantity or speciation of these emissions cannot be derived from these videos.

DIGITAL SIGNATURES

Report Author: **DAVID SUTLIN**  Digitally signed by DAVID SUTLIN
Date: 2021.09.24 10:42:17 -05'00'

Section Chief: **Brian Dickens**  Digitally signed by Brian Dickens
Date: 2021.09.27 06:46:48 -05'00'

Facility Name: MAT Asphalt, LLC

Facility Location: 2055 Pershing Avenue, Chicago, Illinois

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APPENDICES AND ATTACHMENTS

1. FLIR Video Log

Facility Name: MAT Asphalt, LLC

Facility Location: 2055 Pershing Avenue, Chicago, Illinois

Date of Inspection: July 27, 2021

APPENDIX A: FLIR VIDEO LOG

1. Inspector Name: David Sutlin	2. Archival Record Location: <i>C:\Users\Dsutlin\OneDrive - Environmental Protection Agency (EPA)\Cases\MAT Asphalt\FLIR Inspection - 7-27-21\FLIR Videos</i>
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Image Number	File Name	Date and Time (incl. time zone and DST)	Description of Image
1	MOV_2576.mp4	7/27/2021 7:42	Hot mix asphalt plant baghouse stack
2	MOV_2577.mp4	7/27/2021 7:49	Hot mix asphalt plant baghouse stack
3	MOV_2578.mp4	7/27/2021 7:50	Asphalt storage silo loading
4	MOV_2579.mp4	7/27/2021 7:52	Truck loadout
5	MOV_2581.mp4	7/27/2021 7:58	Truck loadout
6	MOV_2583.mp4	7/27/2021 8:03	Asphalt conveyor and storage silo loading
7	MOV_2584.mp4	7/27/2021 8:05	Asphalt storage silo loading (likely interference from stack plume)
8	MOV_2585.mp4	7/27/2021 8:08	Asphalt storage silo loading
9	MOV_2586.mp4	7/27/2021 8:15	Top of storage silos/baghouse stack plume
10	MOV_2587.mp4	7/27/2021 8:18	Hot mix asphalt plant baghouse stack
11	MOV_2588.mp4	7/27/2021 8:20	Asphalt storage silo loading
12	MOV_2589.mp4	7/27/2021 8:25	Asphalt storage silo loading
13	MOV_2591.mp4	7/27/2021 8:38	Asphalt storage silo loading
14	MOV_2592.mp4	7/27/2021 9:37	Diesel engine in rail yard adjacent to MAT Asphalt
15	MOV_2593.mp4	7/27/2021 9:40	Hot mix asphalt plant baghouse stack

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16	MOV_2595.mp4	7/27/2021 10:05	Truck pulling forward after load out
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