DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION ACTIVITY REPORT: On-site Inspection

N057969160		
FACILITY: KLETT CONSTRUCT	ON DIVISION	SRN / ID: N0579
LOCATION: MICHIGAN PAVING	& MATERIALS CO, PAW PAW	DISTRICT: Kalamazoo
CITY: PAW PAW		COUNTY: VAN BUREN
CONTACT: Jeff Reed , HMA Plar	d Manager	ACTIVITY DATE: 08/16/2023
STAFF: Rachel Benaway	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: On-site inspection to v	erify compliance with PTI #269-98D and all state an	d federal air use regulations.
RESOLVED COMPLAINTS:		

AQD staff (Rachel Benaway and Jared Edgerton) completed an unannounced air quality inspection of Michigan Paving & Materials Co. (MPMC) (N0579), a hot mix asphalt (HMA) plant located in Paw Paw, MI, on 8/16/2023. The purpose of this inspection was to verify MPMC is in compliance with their Permit to Install (PTI) #263-98D and all state and federal air use regulations. MPMC is considered a synthetic minor source of emissions for hazardous air pollutants (HAPs) and a minor source of nitrogen oxides (NOx), sulfur oxides (SOx), carbon monoxide (CO), lead (Pb), and particulate matter (PM) emissions. The facility is subject to New Source Performance Standard (NSPS) 40 CFR 60 Subpart I for Hot Mix Asphalt Facilities. The last inspection was completed at the facility on 6/82018. Jeff Reed is the Plant Manager. Sue Hanf, Environmental Engineer, is responsible for submitting requested records. Adam Davison, facility operator, was present for the on-site inspection. Personal protection equipment includes a hard hat, safety glasses, and safety shoes.

The facility operates 1 shift per day, depending on weather and demand, from April or May to November and employs approximately 3 people at the site. No new equipment has been installed and no current equipment has been relocated or modified in the past two years.

uipment at Facility	
JHMA: HMA facility: aggregate conveyors, drum mixer, baghouse fabric filter du illector	st
JYARD: Fugitive dust sources: roadways, yard, storage piles, material bins	
JACTANKS: Liquid asphalt cement storage tanks	
JSILOS: HMA paving material product storage silo	

Aggregate material is stored in bins and then conveyed to the main drum where they are heated. The heated material is sent to the mixing drums and then conveyed into one of the four silos where it is stored until a truck comes for a delivery. The recipe for the day is programmed into the computer and executed. Belt scales are used to monitor the virgin and recycled asphalt product (RAP) feed rate continuously.

On site, there are 2 RAP feeders, 10 cold or virgin feeders, 4 asphalt cement (AC) tanks, a baghouse, and 4 silos. The facility uses 3 different types or RAP (coarse, fine, and crushed). About 90% of the RAP used is crushed. The facility either outsources crushing operations to Thompson Recycling or it is done by their sister company Stoneco, located nearby.

The following is a summary of information obtained from the on-site inspection and the submittal of requested records. Where applicable, compliance determinations are indicated for each special condition established in the PTI, organized by emission unit or flexible group.

EUHMA

This portion of the HMA facility includes the aggregate conveyors, dual drum mixer system, and a baghouse fabric filter dust collector for particulate matter pollution control.

The baghouse inlet was at 228 degrees (F) and the outlet was at 207 degrees (F).

Emission Limits:

SC	Pollutant	Limit	Time Period	COMPLIANT?
1.1a	со	0.201 lb/ton of HMA material produced	1 hour	*
1.1d	со	89.5 tpy	12-MRT	Yes
1.1e	SO2	0.19 lb/ton of HMA material produced	1 hour	*
1.1f	SO2	85 tpy	12-MRT	Yes
1.1g	NOx	0.12 lb/ton of HMA material produced	1 hour	*
1.1h	NOx	53.4 tpy	12-MRT	Yes

*No emissions testing has been requested to verify compliance with these limits.

Comment: Emissions calculations were submitted demonstrating compliance with the 12-month rolling totals in SC 1.1d, 1.1f, and 1.1h.

SC	Condition			COMPLI	ANT
1.2	Shall not burn	in EUHN	IA any hazaro	dous waste, blended fuel oil, or specification	
	recycled used	oil (RUO)	containing a	any contaminant that exceeds the following	
	concentration	s or for w	/hich the flas	h point, ash content, or acidity vary from	
	standard speci	fied in fo	llowing table	2:	
	Contaminant	Limit	Units	Contaminant Limit Units	
	Arsenic	5.0	ppmw	Total Halogens 1000.0 ppmw	
	Cadmium	2.0	ppmw	Min Flash Point 100.0 °F	
	Chromium	10.0	ppmw	Max Ash Content 1.0 Weight %	
	Lead	100.0	ppmw	Acidity Minimum pH = 4	
	PCBs	1.0	ppmw	Maximum pH = 10	
	Sulfur	1.0	Weight %		
	Comment: The	e facility	reports that	no RUO is being used at this time.	Yes
1.3	Shall not use a	ny asbes	tos tailings o	r asbestos containing waste materials in	Yes
	EUHMA				
1.4	Shall limit acal	alt mixt	ure process i	n EUHMA to a maximum of 50% RAP	
1, 17	jonan murtaspi	Mare transce	materials based on a monthly average.		
1.77			•	ge.	
L.7	materials base	d on a m	onthly avera	ge. highest average RAP content of the	Yes
1. 7	materials base	ed on a m <mark>ce Janua</mark>	onthly avera	highest average RAP content of the	Yes
	materials base Comment: Sin asphalt mixtu	ed on a m ce Janua re was 2	onthly avera ry 2022, the 7% in August	highest average RAP content of the of 2023.	Yes
	materials base Comment: Sin asphalt mixtu	ed on a m ce Janua re was 2 ess more	onthly avera ry 2022, the 7% in August than 890,00	highest average RAP content of the	Yes
<u> </u>	materials base Comment: Sin asphalt mixtur Shall not proce per 12-month	d on a m ce Janua re was 2 ess more rolling ti	onthly avera ry 2022, the 7% in August than 890,00 me period.	highest average RAP content of the of 2023.	Yes Yes
	materials base Comment: Sin asphalt mixtur Shall not proce per 12-month Comment: Sin	d on a m ce Janua re was 2: ess more rolling til ce Janua	onthly avera ry 2022, the 7% in August than 890,00 me period. ry 2022, the	highest average RAP content of the of 2023. O tons of HMA paving materials in EUHMA	
1.5	materials base Comment: Sin asphalt mixtur Shall not proce per 12-month Comment: Sin amount of HM	d on a m ce Janua re was 2 ess more rolling ti ce Janua 1A produ	onthly avera ry 2022, the 7% in August than 890,00 me period. ry 2022, the ced was 181	highest average RAP content of the of 2023. 0 tons of HMA paving materials in EUHMA highest 12-month rolling time period	
	materials base Comment: Sin asphalt mixtur Shall not proce per 12-month Comment: Sin amount of HIV Shall not proce	ed on a m ce Janua re was 2: ess more rolling ti ce Janua 1A produ ess more	onthly avera ry 2022, the 7% in August than 890,00 me period. ry 2022, the ced was 181 than 600 tor	highest average RAP content of the of 2023. 0 tons of HMA paving materials in EUHMA highest 12-month rolling time period ,583 in August of 2022.	

	Comment: The highest hourly production rate within the past year occurred on 5/23/23 at 370 lb/hr.		
1.7	Shall not operate EUHMA unless Compliance Monitoring Plan for RUO (Appendix C) is implemented and maintained.		
	Comment: The facility reports that no RUO is being used at this time.	NA	
1.8	Shall not operate EUHMA unless program for fugitive emission control of EUYARD (Appendix A) is implemented and maintained.		
	Comment: The facility submitted daily records indicating dust control application times, reasons, and type, for the roadways, bins, and belts.	Yes	
1.9	Shall maintain efficiency of EUHMA drum mix burners by fine tuning to control CO emissions	Yes	
1.10	Shall not operate EUHMA unless plan for minimizing emissions during startup, shutdown, and malfunctions is submitted		
1.11	Shall not operate EUHMA unless fabric filter dust collector is installed,		
	maintained, and operated in satisfactory manner: requires pressure drop range between 2 and 8 inches of water column.		
	Comment: Daily pressure drop readings were submitted demonstrating compliance with the range listed.	Yes	
Vionii	oring/Recordkeeping:		
SC	Condition COMPLI	ANT	
1.13	Monitor virgin aggregate feed rate and RAP feed rate on a continuous basis	Yes	
1.14	Use handheld CO monitor for CO emissions and production data associated		
	with time the emissions data were collected. One data sheet will be recorded		
	for each:		
	a) Upon startup of each paving season		
	b) Upon a malfunction		
	c) After every 500 hours of operation		
	A data set consists of at least 8 separate CO readings taken over 30 minutes or	Yes	
	longer.		
	Comment: Monitoring data sheet was submitted demonstrating compliance with the testing parameters listed in this condition. No readings above action level were reported.		
1.16	Install, calibrate, maintain, and operate device to monitor, by observation, pressure drop across dust collector once per day. Device shall be certified by manufacturer to be accurate within 2 in water gauge pressure and must be calibrated on an annual basis		
1.17	Monitor fuel usage rate on daily basis in gallons per day Comment: The facility is monitoring fuel usage on a daily basis.	Yes	
1.20			
1.21	Keep records for each calendar day EUHMA is operated: a) Identification, type, and amounts (gallons) of all fuel oils combusted	Yes	

	b) Sulfur content (% by wt), specific gravity, flash point, and higher heating value (Btu/Ib) of all fuel oils being combusted	Yes
	c) Tons of hot mix asphalt containing RAP produced, including average percent of RAP per ton of hot mix asphalt produced containing RAP	Yes
1.22	Keep records:	
	a) Virgin aggregate feed rate (continuous)	Yes
	b) The RAP feed rate (continuous)	Yes
	c) Asphalt paving material product temperature (intermittent)	Yes
	d) Identify all components of asphalt paving material mixture (continuous) Record initial mix design and time upon startup and record each time and mix	Yes
	when new design is activated. Keep records on file until end of paving season	Yes
1.23	Monthly and 12-MRT period emissions calculation records of all criteria pollutants and HAPs in emission table. Use emission factor if stack test is not available.	Yes
1.24	Dates and times CO was monitored for SC 1.14. Use data to calculate lb CO emitted per ton of HMA material produced.	
	Comment: Monitoring data sheet was submitted demonstrating compliance with the testing parameters listed in this condition. No readings above action level were reported.	Yes
1.25	Hourly, Monthly, and 12-MRT records of amount of HMA material produced for last 5 years.	Yes

The facility appears to be in compliance with all PTI conditions and requirements and all state and federal air use regulations at this time.

NAME Cochel Senarroy DATE 9/26/23 SUPERVISOR Marin Ma