# DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION ACTIVITY REPORT: Self Initiated Inspection

N656931193		
FACILITY: PAYNE & DOLAN	INC C34	SRN / ID: N6569
LOCATION: C34 PORTABLE	ASPHALT PLANT #40-99A, GLADSTONE	DISTRICT: Upper Peninsula
CITY: GLADSTONE		COUNTY: DELTA
CONTACT: Nathan Petrich , C	perator	ACTIVITY DATE: 09/14/2015
STAFF: Joe Scanlan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Unannounced insp	ection to determine compliance with PTI# 40-99C	
RESOLVED COMPLAINTS:		

# FACILITY: Portable Asphalt Plant C34

### INSPECTION DATE: 9/14/2015

### MDEQ-AQD STAFF

• Joseph Scanlan, EQA

### FACILITY REPRESENTATIVE

Nathan Petrich, Operator

## LOCATION

At the time of inspection, C34 was located at the Lakoskey Pit (a.k.a. Bedrock Quarry) on Percy Road, just northwest Shingleton off of M-28. The area is largely rural, however there are some residences adjacent to the pit.

### SOURCE DESCRIPTION

This is a portable asphalt plant.

# **INSPECTION**

On 9/14/2015 I conducted an unscheduled visit of Payne & Dolan's portable asphalt plant C34. PPE worn during this inspection included steel-toed boots, safety vest, safety glasses and hardhat. Few odors were noted downwind and outside of the facility. The haul roads and the active parts of the quarry had noticeable fugitive dust emissions generated from heavy equipment and haul trucks during the inspection.

I met with operator Mr. Nathan Petrich in the operator's control room. The plant was operating at the time of my inspection.

## **EMISSION UNIT DETAILS**

Emission Unit ID	Description of Emission Unit	ROP/PTI#	Installation/ Modification Date	Compliance Status
EUHMAPLANT	Hot mix asphait (HMA) facility including: aggregate conveyors,	PTI# 40-99C	12/09/1985	с
LOHWAFLANT	drum mixer, fabric filter dust collector (baghouse)	F 11# 40-33C	7/20/2009	
EUYARD	Fugitive dust sources including: plant roadways, plant yard, material storage piles, material handling operations (excluding cold feed aggregate bins)	PTI# 40-99C	10/01/1998	с
EUACTANKS	Liquid asphalt cement storage tanks	PTI# 40-99C	10/01/1998	с
EUSILOS	HMA paving material product storage silo	PTI# 40-99C	04/17/2003	с

FGFACILITY	Covers emission units: EU- HMAPLANT, EU-YARD, EU- ACTANKS, EU-SILOS	PTI# 40-99C	01/01/1985	С
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### **EUHMAPLANT**

I. EMISSION LIMIT(S) – See PTI# 40-99C for complete limits

II. MATERIAL LIMIT(S) – Permittee shall not burn any hazardous waste and blended fuel oil or RUO may not contain contaminants exceeding the limits presented in the PTI.

- A waste oil shipement was received just prior to my arrival. Records were presented for the shipment and sampling results showing the product met the hazardous materials restriction and contaminants within the waste oil were not in exceedance of the limits.
- The plant was operating at 16 percent RAP at the time of inspection. This is about average for this facility.
- Plant has processed 62,000 tons in a 12-month rolling time frame; 1500 tons produced the day of inspection.
- Plant was operating at approximately 300 tons per hour (235 dry tons / 298 finished @ 299°F)

## III. PROCESS/OPERATIONAL RESTRICTION(S)

Compliance Monitoring Plan for RUO

• As required by the CMP, the RUO supplier has proper certification and pre-qualification analytical data provided by an independent third-party lab for halogen screen and required laboratory analyses for contaminants.

**Fugitive Dust Control Plan** 

There were issues regarding fugitive dust created by haul vehicles and heavy equipment during the time of
inspection. This was brought to the attention of the operator, who addressed the issue using the water truck c
site.

CO emissions control

Drum mix burners were operating with an inlet temperature of 341°F and a finished product temperature of 25
 F

Fabric filter dust collector (baghouse)

• Baghouse is black light tested every Spring upon startup and visually inspected upon arrival at every new sit There was an ample amount of spare bags on hand (over 100 spares). Baghouse pressure drop range was between 4.2" and 4.5" at the time of inspection and record logs indicated that was normal for this facility, with the 1" to 6" requirements of the PTI.

**IV. MONITORING** 

Aggregate feed rate: 235 tons per hour dry

RAP feed rate: 16%

CO readings: \_\_\_\_\_

Fuel usage: \_\_\_\_\_

### V. RECORDKEEPING/REPORTING

Source emissions data, operating, and maintenance information on file for 5 years

- Maintenance records and logs for all significant maintenance and repairs for EUHMAPLANT
- Fuel consumption and analytical data
- Virgin aggregate and RAP continuous feed rates
- Product temperature
- Mix design at start-up or new activation
- 12-month rolling emission calculations of criteria pollutants and HAPs

- 12-month rolling amount of HMA paving material produced
- 12-month rolling amount of fuel consumed (gallons per ton produced)

# VI. STACK/VENT RESTRICTIONS

SV001 48" x 34" * 26' R 336.1225, 40 CFR 52.51(c) & (d)	Stack & Vent ID	Maximum Dimension (in)	Minimum Height Above Ground Level (ft)	Applicable Requirements
	SV001	48" x 34"	* 26'	R 336.1225, 40 CFR 52.51(c) & (d)

The exhaust gases shall be discharged unobstructed vertically upwards to the ambient air.

\*This stack height will be increased to 40' once C34 becomes a permanent facility under issuance of the impending PTI.

## **VII. PORTABLE EQUIPMENT**

Facility may only be relocated if:

- There are no unresolved violations regarding MDEQ or Federal regulations;
- Shall not be situated at a site for more than 24 consecutive months
- Relocation notices submitted to MDEQ 21 days prior to relocation
- Shall not be located within 800' of residential/commercial/place of public assembly unless prior approval is granted by AQD district office;
- Shall have a copy of PTI 40-99C clearly posted in operators control room;
- PTI# shall be posted on equipment and be clearly visible from operators control room.

Facility meets all the above requirements listed for Portable Equipment.

## **EUYARD**

## I. PROCESS/OPERATIONAL RESTRICTION(S)

• Fugitive Dust Control Plan has been implemented and is being maintained.

# **II. RECORDKEEPING/REPORTING**

• Annual fugitive dust emissions has been calculated and submitted to MAERS as required.

# **EUACTANKS**

# I. PROCESS/OPERATIONAL RESTRICTION(S)

• EUACTANKS have vapor condensation and recovery system installed and operating in a satisfactory manner

# **FGFACILITY**

# I. EMISSION LIMIT(S)

• Individual and aggregate HAPs are below limits for the 12-month rolling time period

## SUMMARY

No violations of PTI# 40-99C were observed at the time of this inspection and the facility appears to be in compliance with the permit.



Image 1(C341) : Bins and conveyor



Image 2(C342) : Silo, drum, conveyors



Image 3(C343) : Water tanker, control room, silo, drum

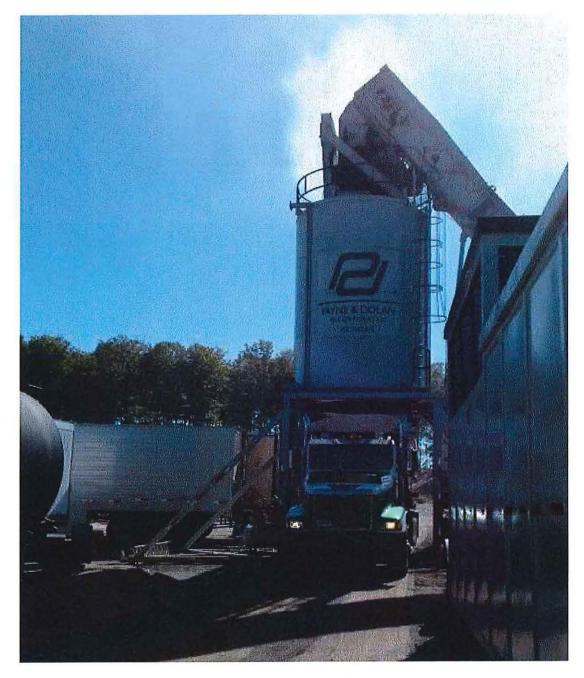


Image 4(C344) : HMA loadout

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Client SampleID: Shiping Tank 15 Laboratory SampleID: 15050449-001		and the second	
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Parameter	Method	Result	Analysis Date
Arsenic(As)	EPA 6010 C	< 1.00 ppm	5/5/2015 5/5/2015
Cadmiuni(Cd)	EPA 6010 C EPA 6010 C	< 0.100 ppm < 4.00 ppm	6/6/2015
Chromium(Cr) Lead(Pb)	EPA 6010 C	11.0 ppm	5/6/2016
втилю	ASTM D-240-09	18852 BTU/IO	6/6/2015
Flash Pont	EPA 1010	>200 'F	6/0/2015
Total Halogen	EPA 9075	418 ppm	5/6/2016
Waler	ASTM D-6304	1.82 wt%	5/6/2015
% Sulfur	ASTM D-4294	0.2322 %	5/5/2015
Total PCBs	EPA 8082	< 1.00 ppm	5/6/2015
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Image 5(C345) : RUO analytical data

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Image 6(C346) : RUO supplier reciept

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DATE 10/28/15

SUPERVISOR