

TECHNICAL FACT SHEET

August 20, 2026

Purpose and Summary

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Air Quality Division (AQD), is proposing a General Permit to Install (general PTI) for portable hot mix asphalt (HMA) plants that meet specific requirements. A portable HMA plant consists of:

- A counter-flow drum dryer and mixer,
- Cold feed bins,
- Conveyor belts,
- Vibrating screen,
- Liquid asphalt cement (AC) tanks with associated heaters,
- Aggregate storage piles,
- On-site roads, and
- HMA storage silos.

Portable hot mix asphalt plants are used primarily for the road construction industry. In a counter-flow drum mixer, the aggregates are moved through a rotating drum in the opposite direction of fuel combustion products. The drum is inclined with the aggregate feed chute located at the top and the burner located at the bottom. Recycled asphalt pavement (RAP) can be used to reduce the quantity of virgin aggregates used in the mix. This reuses waste material and reduces the amount of liquid asphalt cement that must be added. If RAP is used, it is added at the approximate midpoint of the dryer drum. Asphalt cement is introduced at the lower end of the drum where rotation of the drum coats aggregates with asphalt cement. The asphalt cement mixing zone is located behind the burner flame zone to prevent direct contact with the flame. The emission controls associated with the process include capturing and controlling exhaust from the mixing drum and top of the silos as well as fugitive dust control measures.

A portable HMA plant covered by the proposed general permit would be allowed to move to different locations within Michigan if it can meet the permit requirements. However, before a portable HMA plant can relocate, a notification to the AQD District Supervisor must be submitted demonstrating the requirements in the general PTI will be met at the new location.

The proposed general PTI contains terms and conditions necessary to ensure that the plant will comply with all applicable state and federal air quality requirements, including:

- Site restrictions,
- Emission limits,
- Material usage limits, and
- Annual production limits.

Owners/operators who apply for coverage under the general PTI must certify that the equipment to be installed meets the necessary applicability criteria and will comply with the special conditions of the permit. An owner/operator always has the option of applying for a site-specific PTI, pursuant to R 336.1201 of the Administrative Rules for Air Pollution Control (Rule 201), if their equipment is unable to comply with the conditions of the general PTI.

Restrictions

This general PTI may not be used:

- If the installation is part of a larger project. Improperly permitted installation and/or operations may constitute cause for civil and/or criminal enforcement proceedings and fines as provided for under Act 451, and other applicable state and federal statutes. Use of this general PTI does not obviate the necessity of complying with applicable regulations and obtaining any other necessary permits.
- To circumvent the state and federal Prevention of Significant Deterioration (PSD) regulations as identified in Michigan Air Pollution Control Rule Part 18, Nonattainment New Source Review regulations as identified in Michigan Air Pollution Control Rule Part 19, or in 40 Code of Federal Regulations (CFR) 52.21. Portable HMA plants subject to the PSD regulations as a major modification are not intended to be covered by this general PTI and must obtain a PTI pursuant to Rule 201.
- If there are any outstanding unresolved violations of the Michigan Air Pollution Control rules, orders, permits, or federal air quality regulations.

A public comment period and a virtual public hearing, if requested in writing, are being held prior to a decision being made on this general PTI.

Background Information

Part 55 of the Natural Resources and Environmental Protection Act, Act 451 of 1994, allows EGLE to issue a general PTI, covering similar processes or process equipment, after public notice and opportunity for public participation. A general PTI is a permit that provides a streamlined permitting alternative for processes that:

- Produce the same or reasonably similar products.
- Have the same or similar components.
- Emit the same or similar air contaminants.
- Have capture and control methods that are the same or limited to a small number of specific alternatives.
- Are subject to the same emission limitations, monitoring requirements, federal standards, or state rules.

For each proposed general PTI, EGLE holds a minimum 30-day public comment period and a virtual public hearing, if requested in writing, prior to making a decision on the proposed general PTI.

Applicable Requirements

The following [state requirements](#) are considered applicable to all sources, processes, or process equipment and are addressed in the General Conditions of the permit.

Table 1: List of State Rules and actions authorized

Citation	Description
R 336.1201a	To issue a general PTI.
R 336.1201(4)	To void a permit.
R 336.1207(1)	To deny a permit.
R 336.1219	Requires written notification of change of ownership.
R 336.1301	Sets the standards for density of particulate emissions.
R 336.1370	Requires the proper disposal of collected air contaminants.
R 336.1901	Prohibits the emission of air contaminants, which interfere with the enjoyment of life and property and/or has injurious effects to health or safety.
R 336.1910	Requires a pollution control device be operated properly.
R 336.1912	Requires notice of abnormal conditions or malfunctions, which result in emissions in excess of the standards.
R 336.2001, 2003, 2004	Allow EGLE to request performance testing and specify how the test should be conducted.

The following state and federal requirements are considered to be applicable to portable HMA plants and were considered in the development of the proposed general PTI. These requirements are addressed in the Special Conditions of the proposed permit.

Table 2: List of Applicable State Rules

Citation	Description
R 336.1205	Requires enforceable emission limits.

Citation	Description
	The proposed permit contains emission limits for the following criteria pollutants: particulate matter (PM), particulate matter less than 10 microns in diameter (PM₁₀), particulate matter less than 2.5 microns in diameter (PM_{2.5}), carbon monoxide (CO), sulfur dioxide (SO₂), and nitrogen oxides (NO_x). These limits are made enforceable by limiting the amount of HMA that can be produced on an hourly and annual basis.
R 336.1224	Requires Best Available Control Technology for toxics (T-BACT) and requires that emissions from the process meet the allowed impact levels. The requirements of Rule 224 do not apply to any emission units that emit volatile organic compounds (VOC) that comply with Rule 702 VOC BACT. Therefore, VOC TACs from the process are not subject to Rule 224. The particulate toxics from the mixing drum will be controlled using a fabric filter system, also known as a baghouse. The particulate emissions from the top of the silos will be captured and either routed back to the mixing drum to ultimately be controlled by the baghouse or sent to a dedicated filter. The asphalt tanks will be equipped with a vapor condensation and recovery system to reduce toxics emissions. These emission controls are considered T-BACT for portable HMA plants.
R 336.1225	Prohibits the emissions of a toxic air contaminant (TAC) in excess of a rate that results in a maximum ambient impact which is more than a health-based screening level. AQD staff reviewed air quality modeling and evaluation of TAC impacts. The review found that all TACs will meet their respective health-based screening levels and thus comply with the requirements of Rule 225.
R 336.1702	Applies to new sources of VOC. This rule requires an evaluation of the following four items to determine what will result in the lowest maximum allowable emission rate of VOCs: a. BACT or a limit listed by the department on its own initiative b. New Source Performance Standards (NSPS) c. VOC emission rate specified in another permit d. VOC emission rate specified in the Part 6 rules for existing sources. An evaluation of these four items determined that VOC BACT (Rule 702(a)) would dictate the lowest maximum allowable

Citation	Description
	emission rate of VOC which is the use of the counterflow drum with good combustion practices.

Table 3: List of Applicable Federal Regulations

Citation	Description
40 CFR Part 60 Subpart I	New Source Performance Standards (NSPS) were established under 40 CFR Part 60. Portable HMA Plants are subject to the NSPS for HMA Facilities, 40 CFR Part 60 Subpart I. These regulations apply to all HMA plants constructed or modified after June 11, 1973. The main requirements of the subpart are an opacity limit (Opacity can be simply defined as how thick smoke is allowed to be. The lower the allowed opacity percentage, the less visible the smoke will be), a PM emission limit, visual observations, and stack testing. These requirements are included in the proposed permit conditions.
40 CFR 52.21(c) & (d)	Federal PSD Air Quality requirements for the Ambient Air Increment and the National Ambient Air Quality Standards (NAAQS). These regulations require compliance with ambient air increment concentration limits for clean areas and the NAAQS. The portable HMA plant exhaust stack restrictions ensure that the impacts of the federally regulated pollutants including PM₁₀, PM_{2.5}, SO₂, NO_x, and CO, will meet the applicable federal air quality standards.

Applicability Criteria

To qualify for a general PTI, based on the listed applicable requirements, a portable HMA plant must:

- Have a counterflow drum dryer and mixer and it must be equipped with a fabric filter dust collector and have a maximum production rate of 500 tons HMA per hour.
- Have a combined maximum annual production rate of 500,000 tons HMA per 12-month rolling time period across all sites.
- Limit the use of RAP to 50% of material used on a monthly basis.

- Discharge exhaust gases from the fabric filter dust collector with:
 - An exit point unobstructed vertically upwards to the ambient air with a height greater than or equal to 30 feet above ground level, and
 - A diameter less than or equal to 67 inches or 68 inches x 52 inches.
- Allowed fuels to be used: natural gas, propane, distillate oil, residual oil, blended fuel oil, or recycled used oil (RUO).
- Not burn hazardous waste, blended fuel oil or specification RUO containing any contaminant that exceeds the following concentrations or for which the flash point, ash content, or acidity vary from the standards specified in Table 4 below.

Table 4: List of hazardous waste, blended fuel oil or specification RUO contaminant concentrations

Contaminant	Limit	Units
Arsenic	5.0	Parts per million by weight (ppmw)
Cadmium	2.0	ppmw
Chromium	10.0	ppmw
Lead	100.0	ppmw
Polychlorinated biphenyls (PCBs)	1.0	ppmw
Total Halogens	1000.0	ppmw
Sulfur	1.5	Weight %
Minimum Flash Point	100.0	°F
Maximum Ash Content	1.0	Weight %
Acidity	Minimum pH = 4 Maximum pH = 10	N/A

- Liquid AC tanks with associated heaters with a maximum combined total heat capacity of 5 Million British Thermal Units per hour for natural gas-fired or 10 gallons per hour for diesel-fired
- Control liquid AC storage tank(s) with a vapor condensation and recovery system.
- Control each HMA paving materials product storage silo with an emission capture system.

- Develop, Maintain, and Follow:
 - o A fugitive dust control plan contained in Appendix A of the general PTI. This plan provides dust control strategies for the areas in and around the portable HMA plant.
 - o The preventative maintenance program contain in Appendix B of the general PTI. The purpose of this plan is to keep the dust collector in good operating condition and maintain its capture efficiency.
 - o An emission abatement plan for startup, shutdown and malfunctions. This plan provides the best practices for controlling excess emissions during startup, shutdown and malfunctions.
 - o The compliance monitoring plan for facilities burning recycled used oil (RUO), if applicable. This plan includes the specific monitoring required for plants burning RUO.
- The HMA plant cannot be at the same location for more than 24 consecutive months.
- The HMA plant must be greater than 800 feet from a residential or commercial establishment or a place of public assembly.

The applicant must certify through MiEnviro Portal that all of the above criteria are met by completing the General PTI Application form “Equipment-Specific General PTI Primary Form Questions” (See Attachment A).

The general PTI shall not apply to a source, process or process equipment that is included in an existing PTI pursuant to Rule 201 and/or is further referenced in an outstanding consent order or consent judgment.

Permit Conditions

The general PTI terms and conditions propose the applicable emission limits, material usage limits, process/operational limits, testing, monitoring, recordkeeping and reporting requirements, and stack restrictions which are necessary to ensure that the portable HMA plant subject to this general PTI will comply with all applicable state and federal air quality requirements.

More information, including the proposed terms, special conditions, and appendices for the general PTI can be found at Michigan.gov/EGLEAirPublicNotice.

Pollutant Emissions

The following table (Table 5) provides the estimated emissions for each criteria pollutant for the proposed portable HMA plant that has a general PTI which includes the counterflow drum and dryer, the AC tanks, the AC tank heater, silo loadout, silo filling, vehicle traffic, screens, transfer points, storage pile wind erosion, and storage pile loading and unloading. The emissions were based on a counterflow drum with the maximum production rates of 500 tons of HMA per hour and 500,000 tons of HMA per 12-month rolling time period.

Table 5: Emission Summary

Pollutant	Estimated Emissions (tons per year (tpy))	Significant Emission Rate (SER)
Particulate Matter (PM)	6.8	25
Particulate matter less than 10 microns in diameter (PM10)	9.4	15
Particulate matter less than 2.5 microns in diameter (PM2.5)	8.5	10
Sulfur Dioxide (SO ₂)	35.0	40
Carbon Monoxide (CO)	52.1	100
Nitrogen Oxides (NO _x)	32.1	40
Volatile Organic Compounds (VOCs)	14.6	40

Ambient Air Impacts

According to AQD Policy and Procedure, “[AQD-022, Dispersion Modeling Guidance for Federally Regulated Pollutants](#)”, if the facility wide emissions are less than the Significant Emission Rate (SER) as defined in the policy, modeling is not required. As shown in Table 5 above, the emissions of each pollutant are less than their respective SER; therefore, modeling is not required.

Odor Concerns

Asphalt plants, in general, have historically been a source of odor complaints. EGLE has developed requirements to reduce potential odor emissions and included them in this proposed general PTI. These requirements include the use of a counterflow drum design and control for the top of silo(s) control.

Owner/Operator Responsibilities

If the owner/operator of a portable HMA plant decides to install and operate their plant under the terms of this proposed general PTI, then it is the responsibility of the owner/operator to apply to the AQD, through MiEnviro Portal, for coverage under the general PTI. The owner/operator shall submit the final application forms within MiEnviro Portal. Proposed application questions, which include all information necessary to determine qualification for, and to ensure compliance with, the general PTI are in Attachment A to this Technical Fact Sheet. Installation of equipment prior to the

granting of a PTI, including a general PTI, is a violation of Michigan Air Pollution Control Rule 201.

Once the application has been received by the AQD, permit staff will review the submission package for completeness. The general PTI for a portable HMA plant will be granted by the AQD to qualifying applicants within 30 days of receipt of a complete submittal package. Upon approval, the AQD will provide a copy of the general PTI and approval letter within MiEnviro Portal to the facility owner/operator.

This public comment period and, if requested, a virtual public hearing on the proposed general PTI will meet the requirements for public participation. Therefore, public comment will not be required for an individual submission package if the general PTI terms and conditions are approved.

Final Action

Prior to making a final decision, the AQD is holding a public comment period, and if requested, a virtual public hearing, on this proposed general PTI for portable HMA Plants. Based on the analyses conducted to date, AQD staff conclude that the proposed general PTI would comply with all applicable state and federal air quality requirements. Also, the general PTI, as proposed, would not violate the federal NAAQS or the state and federal PSD Increments.

Based on these analyses, AQD staff have developed proposed permit terms and conditions to ensure that the design and operation of a portable HMA Plant covered by this proposed general permit are enforceable, and that sufficient monitoring, recordkeeping and reporting would be performed by the applicant to determine compliance with these terms and conditions. If the general PTI is deemed approvable, the delegated decision maker may determine a need for additional or revised conditions to address issues raised during the public participation process.

If you would like additional information about this proposal, please contact Lauren Magirl, AQD, at MagirlL@Michigan.gov or 517-582-0386 or Ambrosia Brown, AQD, at BrownA39@Michigan.gov or 517-730-1158.

Attachment A
General PTI Application



EQUIPMENT-SPECIFIC GENERAL PTI PRIMARY FORM QUESTIONS - NEW GENERAL PERMIT TO INSTALL FOR PORTABLE HOT MIX ASPHALT PLANTS

These questions will be part of the MiEnviro Portal application forms if the general PTI is approved.

Section 1 – Applicant Details

Applicant Name: _____

Applicant Mailing Address: _____

County: _____

Authorized Employee (Name, Title) : _____

Authorized Employee Phone Number: _____

Contact Person (if different than Authorized Employee - for questions regarding this application): _____

Is the proposed equipment identified in the application:

☐ New ☐ Existing

Is there an existing Permit To Install for any equipment identified in this application?

☐ Yes ☐ No

Is any of the proposed equipment included in an outstanding consent order or consent judgement?

☐ Yes ☐ No

Section 2 – Eligibility Questions

The questions in this section are a single select yes or no question unless otherwise stated.

Are you proposing to install a portable counter flow drum dryer and mixer?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed hot mix asphalt (HMA) counter flow drum dryer and mixer have a maximum production rate less than or equal to 500 tons HMA per hour?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant process less than or equal to 500,000 tons HMA per 12-month rolling time period combined at all locations?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant process less than or equal to 50% recycled asphalt pavement (RAP)?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant be controlled with a fabric filter dust collector?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant process any asbestos tailings or waste materials containing asbestos?

☐ Yes ☐ No

If yes, the applicant is not eligible for this General Permit

Will the proposed HMA plant process any hazardous waste (as defined in state or federal law), blended fuel oil or specification recycled used oil (RUO) containing any contaminant that exceeds the following concentrations or for which the flash point, ash content, or acidity vary from the standards specified in the following table?

☐ Yes ☐ No

Contaminant	Limit	Units
Arsenic	5.0	Parts per million by weight (ppmw)
Cadmium	2.0	ppmw
Chromium	10.0	ppmw
Lead	100.0	ppmw
PCBs	1.0	ppmw
Total Halogens	1000.0	ppmw

Contaminant	Limit	Units
Sulfur	1.5	Weight %
Minimum Flash Point	100.0	°F
Maximum Ash Content	1.0	Weight %
Acidity	Minimum pH = 4 Maximum pH = 10	N/A

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant keep and maintain records of daily pressure drop readings from the fabric dust collector?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant be located a minimum of 800 feet from a residential or commercial establishment or place of public assembly?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant have heated liquid asphalt cement storage tank(s)?

☐ Yes ☐ No

How are the proposed liquid asphalt cement storage tanks heated? Select all applicable fuels.

☐ Natural Gas ☐ Diesel

Will the proposed liquid asphalt cement storage tank heater(s) have a total heat capacity of less than or equal to 5 million British Thermal Units per hour (MMBtu/hr)? [This question will only be available if the question above is answered Natural gas]

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed liquid asphalt cement storage tank heater(s) have a total heat capacity of less than or equal to 10 gallons per hour? [This question will only be available if the question above is answered Diesel]

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed liquid asphalt cement storage tank(s) be controlled with a vapor condensation and recovery system?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant have any HMA paving materials product storage silo(s)?

☐ Yes ☐ No

Will the proposed HMA paving materials product storage silo(s) be controlled with an emission capture system for the top of each storage silo? [This question will only be available if the question above is answered yes]

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the hazardous air pollutants (HAPs) at the facility for each individual HAP be less than 8.9 tons per year (tpy) combined at all locations?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the HAPs at the facility for aggregate (total) HAPs be less than 22.5 tpy combined at all locations?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the fabric filter dust collector stack height be equal to or greater than 30 feet above the ground?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the fabric filter dust collector stack diameter be less than or equal to 68 inches x 52 inches or 67 inches?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant meet all the requirements of the fugitive dust control plan as specified in Appendix A of the special conditions?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant meet all the requirements of the preventative maintenance program for the fabric filter dust collector as specified in Appendix B of the special conditions?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant meet all the requirements of the emission abatement plan for startup, shutdown and malfunctions as specified in Appendix C of the special conditions?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant meet all the requirements of the compliance monitoring plan (CMP) for facilities burning recycled used oil (RUO) as specified in Appendix D of the special conditions?

☐ Yes ☐ No ☐ Not Applicable

If no, the applicant is not eligible for this General Permit

Section 3 – Equipment Location

Please provide the NAD 83 Latitude and Longitude Coordinates for the initial operating location of the proposed portable hot mix asphalt plant equipment in the space provided below. There are two ways of doing this through MiEnviro.

If you do not know the coordinates, you may use one of the following "Tools To Help Identify Coordinates" (you are not required to use these tools if the coordinates are known):

(1) To use the "Address" option, enter the waterbody or site address in the "Address" box. The coordinates for the address listed will then automatically populate the "Coordinates" box.

(2) To use the "Map" option, pan to and click on the waterbody or site on the map. This action will move the red marker to that location and populate the "Coordinates" box.

Review the location marked on the map. If needed, re-position the red marker to reflect the correct location. This can be done by clicking on and holding the marker, then dragging it with your mouse. The coordinates will automatically update with the new location of the marker.

Latitude: _____

Longitude: _____

Section 4 – Application Equipment Inventory Section

The following section cannot be amended. These questions are requirements of the system and cannot be changed. The questions range from drop-downs, single select, and short text answers. Each proposed emission unit must be entered into the Application Equipment Inventory. A maximum of one HMA plant can be installed under this General PTI.

RELEASE POINT TILE

Name: Create a release point name. There cannot be any spaces in the release point names. Examples: SVHMAPLANT, FUGFACILITY

Type: From the drop-down list, select Vertical.

Description: Enter a brief description of the release point.

Status: From the drop-down list, select Pre-Operating.

Stack Height: Enter the height, in feet above ground.

Stack Shape: Choose circular or rectangular.

Stack Diameter: Enter the diameter of the stack in feet for circular or the length and width of the stack in feet for rectangular. The system will calculate and display the number of inches after the value in feet is entered.

Exit Gas Temp: Enter the temperature of the exhaust gas in degrees Fahrenheit.

Exit Gas Flow Rate: Enter the actual gas flow rate and select the unit for the value entered or enter the velocity. If the flow rate is entered, the velocity will automatically populate.

Exit Gas Velocity: Enter the actual gas velocity and select the unit for the value entered or enter the gas flow rate. If the velocity is entered, the gas flow rate will automatically populate. If you go back and edit any of the above stack information, the system will not recalculate. Exit the screen and start over if you need the system to calculate this field after making edits to the height, diameter, temperature or flow rate.

Location Tab

Latitude (decimal degrees): Enter the release point latitude in decimal degrees.

Longitude (decimal degrees): Enter the release point longitude in decimal degrees.

CONTROL DEVICE TILE

Name: Enter the name of the control device. Example: CDBAGHOUSE, CDDUSTSUPPRESSION

Description: Enter a brief description of the control device.

Status: From the drop-down list, select Pre-Operating.

Control Measure: Begin to enter the correct code:

- 127 - Fabric Filter / Baghouse
- 217 - Dust Suppression

CONTROL PATH TILE

Name: The Control Device Pathway name. It must start with CP (or CDP, but CP is preferred).

Description: Enter a brief description of the pathway.

Control Path Segments:

Sequence # - the order of the control devices the exhaust gas goes through between generation and release.

Control Device or Control Path (sub path) – select Device, use the drop-down list to select the correct control device.

EMISSION UNITS TILE

Name: Enter the EU ID that is in the permit, EUHMAPLANT, EUYARD, EUACTANKS, EUSILOS

Type: Begin to enter the correct code:

- E005 - Asphalt Drum Dryer / Mixer Counterflow
- E415 – Storage Tank-Asphalt
- 690 - Other process equipment (Use for EUYARD and EUSILOS)

Description: Enter a brief description that allows the AQD to easily identify the equipment.

Status: From the drop-down list, select Pre-Operating.

Additional Information Tab

Electric Generation: From the drop-down list select no.

Combustion source: From the drop-down list select no.

UNIT PROCESSES TILE

Emission Unit Identifier: Select an emission unit from the drop-down list.

SCC section: Begin to enter the correct Source Classification Code (SCC);,

- For EUHMAPLANT:
 - o 30500260 Industrial Processes-Mineral Products-Asphalt Concrete-Drum Mix Plant: Rotary Drum Dryer / Mixer, #2 Oil-Fired, Counterflow
 - o 30500257 Industrial Processes-Mineral Products-Asphalt Concrete-Drum Mix Plant: Rotary Drum Dryer / Mixer, Natural Gas, Counterflow
 - o 30500204 Industrial Processes-Mineral Products-Asphalt Concrete-Cold Aggregate Handling
- For EUYARD:
 - o 30500290 Industrial Processes-Mineral Products-Asphalt Concrete-Haul Roads: General
 - o 30500203 Industrial Processes-Mineral Products-Asphalt Concrete-Storage Piles
- For EUACTANKS:
 - o 30500212 Industrial Processes-Mineral Products-Asphalt Concrete-Heated Asphalt Storage Tanks
- For EUSILOS:

- o 30500213 Industrial Processes-Mineral Products-Asphalt Concrete-Storage Silo

Description: Enter a description of the process

Status: From the drop-down list, select Pre-Operating.

Release Point Apportionment Tab

Release Point: From the drop-down list select the release point(s) that are used for the activity for the emission unit. There must be a release point for every unit process. If the correct release point isn't in the drop-down list, go to the Release Points tile and add the correct release point.

Control Path: From the drop-down list, select the control path associated with the selected release point if it's controlled.

Apportionment: This should sum to 100% within this tab.

Section 5 – Hot Mix Asphalt Plant Equipment Information

Hot Mix Asphalt Drum – Drop down select EUHMAPLANT

Drum Fuel Type(s): (Select all that Apply)

- ☐ Distillate Oil ☐ Residual Oil ☐ Blended Fuel Oil ☐ Recycled Used Oil (RUO)
☐ Natural Gas ☐ Propane

Fuel Combustion Rating: _____ MMBtu/hr

Drum material throughput capacity: _____ tons per hour

Liquid Asphalt Cement Storage Tank(s):

How many liquid asphalt cement storage tank(s) will be installed? _____

HMA Paving Materials Product Storage Silo(s):

How many storing asphalt product silo(s) will be installed? _____

Section 6 – Additional Information

What type of additional information are you submitting with this application? If there is a proposed initial operating location, at a minimum you must attach a detailed site map for the location which shows all site characteristics including the location of any residential and/or commercial establishments and places of public assembly which are located within 1,000 feet of the proposed site.

- ☐ Attachment (May include drawings, site PDF, charts, calculations, assumptions, etc.)
☐ Technical - Specialized information regarding the installation, construction, or use of the process or stack/vent
☐ General - Any supplemental information that is not technical information

Additional information narrative - A brief description of the information. May include calculations, design parameters, etc. (short answer)



EQUIPMENT-SPECIFIC GENERAL PTI PRIMARY FORM QUESTIONS MODIFICATION

GENERAL PERMIT TO INSTALL FOR PORTABLE HOT MIX ASPHALT PLANTS

These questions will be part of the MiEnviro Portable application forms if the general PTI is approved.

Section 1 – Applicant Details

Applicant Name: _____

Applicant Mailing Address: _____

County: _____

Authorized Employee (Name, Title) : _____

Authorized Employee Phone Number: _____

Contact Person (if different than Authorized Employee - for questions regarding this application): _____

Is any of the proposed equipment included in an outstanding consent order or consent judgement?

☐ Yes ☐ No

Section 2 – Eligibility Questions

The questions in this section are a single select yes or no question unless otherwise stated.

Are you proposing to install a portable counter flow drum dryer and mixer?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed hot mix asphalt (HMA) counter flow drum dryer and mixer have a maximum production rate less than or equal to 500 tons HMA per hour?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant process less than or equal to 500,000 tons HMA per 12-month rolling time period combined at all locations?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant process less than or equal to 50% recycled asphalt pavement (RAP)?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant be controlled with a fabric filter dust collector?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant process any asbestos tailings or waste materials containing asbestos?

☐ Yes ☐ No

If yes, the applicant is not eligible for this General Permit

Will the proposed HMA plant process any hazardous waste (as defined in state or federal law), blended fuel oil or specification recycled used oil (RUO) containing any contaminant that exceeds the following concentrations or for which the flash point, ash content, or acidity vary from the standards specified in the following table?

☐ Yes ☐ No

Contaminant	Limit	Units
Arsenic	5.0	Parts per million by weight (ppmw)
Cadmium	2.0	ppmw
Chromium	10.0	ppmw
Lead	100.0	ppmw
PCBs	1.0	ppmw
Total Halogens	1000.0	ppmw
Sulfur	1.5	Weight %
Minimum Flash Point	100.0	°F
Maximum Ash Content	1.0	Weight %



Contaminant	Limit	Units
Acidity	Minimum pH = 4 Maximum pH = 10	N/A

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant keep and maintain records of daily pressure drop readings from the fabric dust collector?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant be located a minimum of 800 feet from a residential or commercial establishment or place of public assembly?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant have heated liquid asphalt cement storage tank(s)?

☐ Yes ☐ No

How are the proposed liquid asphalt cement storage tanks heated? Select all applicable fuels.

☐ Natural Gas ☐ Diesel

Will the proposed liquid asphalt cement storage tank heater(s) have a total heat capacity of less than or equal to 5 million British Thermal Units per hour (MMBtu/hr)? [This question will only be available if the question above is answered Natural gas]

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed liquid asphalt cement storage tank heater(s) have a total heat capacity of less than or equal to 10 gallons per hour? [This question will only be available if the question above is answered Diesel]

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed liquid asphalt cement storage tank(s) be controlled with a vapor condensation and recovery system?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant have any HMA paving materials product storage silo(s)?

☐ Yes ☐ No

Will the proposed HMA paving materials product storage silo(s) be controlled with an emission capture system for the top of each storage silo? [This question will only be available if the question above is answered yes]

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the hazardous air pollutants (HAPs) at the facility for each individual HAP be less than 8.9 tons per year (tpy) combined at all locations?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the HAPs at the facility for aggregate (total) HAPs be less than 22.5 tpy combined at all locations?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the fabric filter dust collector stack height be equal to or greater than 30 feet above the ground?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the fabric filter dust collector stack diameter be less than or equal to 68 inches x 52 inches or 67 inches?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant meet all the requirements of the fugitive dust control plan as specified in Appendix A of the special conditions?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant meet all the requirements of the preventative maintenance program for the fabric filter dust collector as specified in Appendix B of the special conditions?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant meet all the requirements of the emission abatement plan for startup, shutdown and malfunctions as specified in Appendix C of the special conditions?

☐ Yes ☐ No

If no, the applicant is not eligible for this General Permit

Will the proposed HMA plant meet all the requirements of the compliance monitoring plan (CMP) for facilities burning recycled used oil (RUO) as specified in Appendix D of the special conditions?

☐ Yes ☐ No ☐ Not Applicable

If no, the applicant is not eligible for this General Permit

Section 3 – Application Equipment Inventory Section

The following section cannot be amended. These questions are requirements of the system and cannot be changed. The questions range from drop-downs, single select, and short text answers. Each proposed emission unit must be entered into the Application Equipment Inventory. A maximum of one HMA plant can be installed under this General PTI.

RELEASE POINT TILE

Name: Create a release point name. There cannot be any spaces in the release point names. Examples: SVHMAPLANT, FUGFACILITY

Type: From the drop-down list, select Vertical.

Description: Enter a brief description of the release point.

Status: From the drop-down list, select Pre-Operating.

Stack Height: Enter the height, in feet above ground.

Stack Shape: Choose circular or rectangular.

Stack Diameter: Enter the diameter of the stack in feet for circular or the length and width of the stack in feet for rectangular. The system will calculate and display the number of inches after the value in feet is entered.

Exit Gas Temp: Enter the temperature of the exhaust gas in degrees Fahrenheit.

Exit Gas Flow Rate: Enter the actual gas flow rate and select the unit for the value entered or enter the velocity. If the flow rate is entered, the velocity will automatically populate.

Exit Gas Velocity: Enter the actual gas velocity and select the unit for the value entered or enter the gas flow rate. If the velocity is entered, the gas flow rate will automatically populate. If you go back and edit any of the above stack information, the system will not recalculate. Exit the screen and start over if you need the system to calculate this field after making edits to the height, diameter, temperature or flow rate.

Location Tab

Latitude (decimal degrees): Enter the release point latitude in decimal degrees.

Longitude (decimal degrees): Enter the release point longitude in decimal degrees.

CONTROL DEVICE TILE

Name: Enter the name of the control device. Example: CDBAGHOUSE, CDDUSTSUPPRESSION

Description: Enter a brief description of the control device.

Status: From the drop-down list, select Pre-Operating.

Control Measure: Begin to enter the correct code:

- 127 - Fabric Filter / Baghouse
- 217 - Dust Suppression

CONTROL PATH TILE

Name: The Control Device Pathway name. It must start with CP (or CDP, but CP is preferred).

Description: Enter a brief description of the pathway.

Control Path Segments:

Sequence # - the order of the control devices the exhaust gas goes through between generation and release.

Control Device or Control Path (sub path) – select Device, use the drop-down list to select the correct control device.

EMISSION UNITS TILE

Name: Enter the EU ID that is in the permit, EUHMAPLANT, EUYARD, EUACTANKS, EUSILOS

Type: Begin to enter the correct code:

- E005 - Asphalt Drum Dryer / Mixer Counterflow
- E415 – Storage Tank-Asphalt
- 690 - Other process equipment (Use for EUYARD and EUSILOS)

Description: Enter a brief description that allows the AQD to easily identify the equipment.

Status: From the drop-down list, select Pre-Operating.

Additional Information Tab

Electric Generation: From the drop-down list select no.

Combustion source: From the drop-down list select no.

UNIT PROCESSES TILE

Emission Unit Identifier: Select an emission unit from the drop-down list.

SCC section: Begin to enter the correct Source Classification Code (SCC):

- For EUHMAPLANT:
 - o 30500260 Industrial Processes-Mineral Products-Asphalt Concrete-Drum Mix Plant: Rotary Drum Dryer / Mixer, #2 Oil-Fired, Counterflow
 - o 30500257 Industrial Processes-Mineral Products-Asphalt Concrete-Drum Mix Plant: Rotary Drum Dryer / Mixer, Natural Gas, Counterflow
 - o 30500204 Industrial Processes-Mineral Products-Asphalt Concrete-Cold Aggregate Handling
- For EUYARD:
 - o 30500290 Industrial Processes-Mineral Products-Asphalt Concrete-Haul Roads: General
 - o 30500203 Industrial Processes-Mineral Products-Asphalt Concrete-Storage Piles
- For EUACTANKS:
 - o 30500212 Industrial Processes-Mineral Products-Asphalt Concrete-Heated Asphalt Storage Tanks
- For EUSILOS:
 - o 30500213 Industrial Processes-Mineral Products-Asphalt Concrete-Storage Silo

Description: Enter a description of the process

Status: From the drop-down list, select Pre-Operating.

Release Point Apportionment Tab

Release Point: From the drop-down list select the release point(s) that are used for the activity for the emission unit. There must be a release point for every unit process. If the correct release point isn't in the drop-down list, go to the Release Points tile and add the correct release point.

Control Path: From the drop-down list, select the control path associated with the selected release point if it's controlled.

Apportionment: This should sum to 100% within this tab.

Section 4 – Hot Mix Asphalt Plant Equipment Information

Hot Mix Asphalt Drum – drop down select EUHMAPLANT

Drum Fuel Type(s): (Select all that Apply)

- ☐ Distillate Oil ☐ Residual Oil ☐ Blended Fuel Oil ☐ Recycled Used Oil (RUO)
☐ Natural Gas ☐ Propane

Fuel Combustion Rating: _____ MMBtu/hr

Drum material throughput capacity: _____ tons per hour

Liquid Asphalt Cement Storage Tank(s):

How many liquid asphalt cement storage tank(s) will be installed? _____

HMA Paving Materials Product Storage Silo(s):

How many storing asphalt product silo(s) will be installed? _____

Section 5 – Additional Information

What type of additional information are you submitting with this application? If there is a proposed initial operating location, at a minimum you must attach a detailed site map for the location which shows all site characteristics including the location of any residential and/or commercial establishments and places of public assembly which are located within 1,000 feet of the proposed site.

- ☐ Attachment (May include drawings, site PDF, charts, calculations, assumptions, etc.)
- ☐ Technical -Specialized information regarding the installation, construction, or use of the process or stack/vent
- ☐ General - Any supplemental information that is not technical information

Additional information narrative - A brief description of the information. May include calculations, design parameters, etc. (short answer)