



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
TUSCARAWAS COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 06-07733

Fac ID: 0679000270

DATE: 5/5/2005

Oster Enterprises (Canton Asphalt Co.)
Scott Oster
5947 Whipple Ave NW
North Canton, OH 44720

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: USEPA

SEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 5/5/2005
Effective Date: 5/5/2005**

FINAL PERMIT TO INSTALL 06-07733

Application Number: 06-07733
Facility ID: 0679000270
Permit Fee: **\$1650**
Name of Facility: Oster Enterprises (Canton Asphalt Co.)
Person to Contact: Scott Oster
Address: 5947 Whipple Ave NW
North Canton, OH 44720

Location of proposed air contaminant source(s) [emissions unit(s)]:
**3467 Dover Zoar Rd.
Bolivar, Ohio**

Description of proposed emissions unit(s):
250 TPH Drum Mix Asphalt Plant.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS**A. Permit to Install General Terms and Conditions****1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions

and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE (stack)	9.0
SO ₂	14.5
NO _x	13.8
CO	32.5
VOC	8.0
PE (fugitive)	8.6

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Plant roadways and parking areas	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 6.5 tons per year.
paved roadways and parking areas (see Section A.2.a)	OAC rule 3745-31-05(A)(3)	There shall be no visible particulate emissions except for one minute during any 60-minute period. The permittee shall implement best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, and A.2.e through A.2.i).
unpaved roadways and parking areas (see Section A.2.b)	OAC rule 3745-31-05(A)(3)	There shall be no visible particulate emissions except for 3 minutes during any 60-minute period. The permittee shall implement best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.i).

2. Additional Terms and Conditions

- 2.a The paved roadways and parking areas that are covered by this permit and subject to the

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Oster

PTI A

Issued: 5/5/2005

Emissions Unit ID: **F001**

above-mentioned requirements are listed below:

paved roadways:

Driveway from public road

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

Areas around asphalt plant

unpaved parking areas:

All

- 2.c** The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water or virgin oil at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.f** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust

suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

- 2.g The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited from activities at the facility, by trucking or earth moving equipment or erosion by water or other means .
- 2.h Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.i Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
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Driveway from public road	Daily, when operating
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<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
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All	Daily, when operating
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2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with

snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 3.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emissions limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
There shall be no visible particulate emissions except for 1 minute during any 60-minute period for paved roads.
There shall be no visible particulate emissions except for 3 minutes during any 60-minute period for unpaved roads.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 2002).

- b. Emission Limitation:
Particulate emissions shall not exceed 6.5 TPY.

Applicable Compliance Method:

UNPAVED SURFACES:

Compliance shall be determined based on the emissions factor calculation for unpaved roadways and parking areas in AP-42 section 13.2.2 (12/03). Initial compliance has been determined using inputs representing current conditions as follows:

$$E = [k(s/12)^a(W/3)^b[(365-p)/365]]$$

Where:

E = size-specific emission factor (lb/VMT)
s = silt content of road surface material (%) = 5.0 %
W = mean vehicle weight (tons) = 31
a = constant (dimensionless) = 0.7
b = constant (dimensionless) = 0.45
k = particle size multiplier (dimensionless) = 4.9
p = number of rain days per year >0.01 in = 140

Therefore, E = 4.68 lbs particulate/VMT

Maximum travel = 3,350 VMT/year

$$(3,350 \text{ VMT/yr})(4.68 \text{ lbs/VMT})(1 \text{ ton}/2000 \text{ lbs}) = 7.84 \text{ TPY uncontrolled PE}$$

Assume 75% control for roadway watering and gravel application

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Emissions Unit ID: F001

$$(7.84 \text{ tons/year})(0.25) = 1.96 \text{ TPY controlled PE}$$

c. PAVED SURFACES:

Compliance shall be determined based on the emissions factor calculation for unpaved roadways and parking areas in AP-42 section 13.2.1 (12/03). Initial compliance has been determined using inputs representing current conditions as follows:

$$E = k(sL/2)^{0.65}(W/3)^{1.5} - C$$

where:

E = size-specific emission factor (lb/VMT)

k = particle size multiplier (dimensionless) = 0.082

sL = road surface silt loading (g/m²) = 49.9

W = mean vehicle weight (tons) = 35

C = constant = 0.00047

Therefore, E = 26.44 lb PE/VMT

Maximum travel = 1350 VMT/year

$$(1350 \text{ VMT/yr})(26.44 \text{ lbs/VMT})(1 \text{ ton}/2000 \text{ lbs}) = 17.85 \text{ TPY uncontrolled PE}$$

Assume 75% control for roadway watering

$$(17.85 \text{ TPY})(0.25) = 4.46 \text{ TPY controlled PE}$$

TOTAL EMISSIONS

$$\text{Unpaved: } 1.96 \text{ TPY} + \text{Paved: } 4.46 \text{ TPY} = \text{Total: } 6.42 \text{ TPY}$$

F. Miscellaneous Requirements

None.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
<p>F002 - Aggregate storage piles</p> <p>load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)</p>	<p>OAC rule 3745-31-05(A)(3)</p>	<p>Particulate emissions (PE) shall not exceed 0.5 TPY from plant load-in and load-out of storage piles.</p> <p>There shall be no visible particulate emissions except for one minute during any 60-minute period.</p>
<p>wind erosion from storage piles (see Section A.2.a for identification of storage piles)</p>	<p>OAC rule 3745-31-05(A)(3)</p>	<p>The permittee shall implement best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f).</p> <p>PE shall not exceed 0.2 TPY from wind erosion of storage piles.</p> <p>There shall be no visible particulate emissions except for one minute during any 60-minute period.</p> <p>The permittee shall implement best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.f).</p>

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Oster

PTI A

Issued: 5/5/2005

Emissions Unit ID: **F002**

2. Additional Terms and Conditions

- 2.a** The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:
- One sand pile
Two aggregate piles
One recycled asphalt pavement (RAP) pile
- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to water, as needed, to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to water, as needed, to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of

Oster Enterprises (Canton Asphalt Co.)

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Emissions Unit ID: F002

OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
One sand pile	Daily, when operating
Two aggregate piles	Daily, when operating
One recycled asphalt pavement (RAP) pile	Daily, when operating

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
One sand pile	Daily, when operating
Two aggregate piles	Daily, when operating
One recycled asphalt pavement (RAP) pile	Daily, when operating

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
One sand pile	Daily, when operating
Two aggregate piles	Daily, when operating
One recycled asphalt pavement (RAP) pile	Daily, when operating

- 4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that

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is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 6.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

Oster Enterprises (Canton Asphalt Co.)

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Emissions Unit ID: **F002**

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emissions limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
PE shall not exceed 0.5 TPY from plant load-in and load-out of storage piles.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor calculation for drop operations associated with storage piles in AP-42 section 13.2.4 (01/95). Initial compliance has been determined using inputs representing current conditions as follows:

$$E = k (0.0032)[(U/5)^{1.3}/(M/2)^{1.4}]$$

Where:

E = emission factor expressed in pounds (lbs) / ton

k = particle size multiplier for TSP (dimensionless) = 0.74

U = mean wind speed expressed in miles per hour (MPH) = 9.9

M = material moisture content (%) = 5 (sand), 3 (agg. #1), 2 (agg. #2), 3 (RAP)

Therefore, E (lb PE/ton) = 0.0016 (sand), 0.0033 (agg. #1), 0.0058 (agg. #2), 0.0033 (RAP)

maximum annual load-in throughput (tons/year) = 143,000 (sand), 238,332 (agg. #1), 95,332 (agg. #2), 47,666 (RAP)

maximum annual load-out throughput (tons/year) = 143,000 (sand), 238,332 (agg. #1), 95,332 (agg. #2), 47,666 (RAP)

$$\begin{aligned} & [(143,500 \text{ tons/yr})(0.0016 \text{ lb PE/ton}) + (143,000 \text{ tons/yr})(0.0016 \text{ lb PE/ton}) + (238,332 \\ & \text{ tons/yr})(0.0033 \text{ lb PE/ton}) + (238,332 \text{ tons/yr})(0.0033 \text{ lb PE/ton}) + (95,332 \\ & \text{ tons/yr})(0.0058 \text{ lb PE/ton}) + (95,332 \text{ tons/yr})(0.0058 \text{ lb PE/ton}) + (47,666 \\ & \text{ tons/yr})(0.0033 \text{ lb PE/ton})) + (47,666 \text{ tons/yr})(0.0033 \text{ lb PE/ton})] / 2000 \text{ lb/ton} \\ & = 1.726 \text{ TPY uncontrolled PE} \end{aligned}$$

Assume 75% control for watering (RACM, Table 2.1.1-8)

$$(1.726 \text{ tons/year})(0.25) = 0.428 \text{ TPY controlled PE}$$

- b. Emission Limitation:
PE shall not exceed 0.2 TPY from wind erosion of storage piles.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor calculation for wind erosion from storage piles in BACM, Equation 2-12 (September, 1992). Initial compliance has been determined using inputs representing current conditions as follows:

$$E = 1.7(s/1.5)((365-p)/235)(f/15)$$

Where:

E = emission factor expressed in pounds (lbs) /day/acre

s = silt content of stored material (%) = 1.0 %

p = number of rain days per year > 0.01 in = 140

f = percentage of time wind speed exceeds 12 mph (%) = 30

A = total surface area of storage piles (acres) = 1.5

Therefore, E = 2.17 lbs/day/acre

$(2.17 \text{ lbs/day/acre})(365 \text{ days/yr})(1.5 \text{ acres})/2000 \text{ lbs/ton} = 0.594 \text{ TPY uncontrolled PE}$

Assume 80% control for watering (RACM, Table 2.1.1-8)

$(0.594 \text{ tons/year})(0.20) = 0.119 \text{ TPY controlled PE}$

- c. Emission Limitation:
There shall be no visible particulate emissions except for one minute during any 60-minute period.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

F. Miscellaneous Requirements

None.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	aggregate storage bins, cold aggregate elevator
P902 - 250 ton/hour drum mix asphalt plant vented to a baghouse	

Applicable Rules/Requirements

OAC rule 3745-31-05(A)(3)

OAC rule 3745-18-06(E)

OAC rule 3745-31-05 (A)(3)

OAC rule 3745-23-06(B)

OAC rule 3745-31-05(C)

40 CFR Part 60, Subpart I

OAC rule 3745-17-07 (A)(1)

OAC rule 3745-17-11 (A)

Applicable Emissions Limitations/Control Measures	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).	Emissions of VOC shall not exceed 8.0 TPY based upon a rolling, 12-month summation of the monthly emissions.
Emissions of carbon monoxide (CO) shall not exceed 32.5 lbs/hour.	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).	See Section B.1.
Emissions of oxides of nitrogen (NO _x) shall not exceed 13.8 lb/hour.	See Section A.2.b.	Visible emissions of fugitive dust shall be less than or equal to 10% opacity, as a 3-minute average.
Emissions of sulfur dioxide (SO ₂) shall not exceed 14.5 lb/hour.	Particulate emissions (PE) from the baghouse stack shall not exceed 9.0 TPY based upon a rolling, 12-month summation of the monthly emissions.	Fugitive PE shall not exceed 1.4 lbs/hr.
Emissions of volatile organic compounds (VOC) shall not exceed 8.0 lb/hour.	Fugitive PE shall not exceed 1.4 TPY based upon a rolling, 12-month summation of the monthly emissions.	The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the elevator loading area.
Emissions of particulate matter shall not exceed 0.03 grains/dscf of exhaust gases.	Emissions of CO shall not exceed 32.5 TPY based upon a rolling, 12-month summation of the monthly emissions.	The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize or eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.
Visible particulate emissions from the stack serving this emissions unit shall be less than or equal to 20 percent opacity, as a 3-minute average.	Emissions of NO _x shall not exceed 13.8 TPY based upon a rolling, 12-month summation of the monthly emissions.	
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).	Emissions of SO ₂ shall not exceed 14.5 TPY based upon a rolling, 12-month summation of the monthly emissions.	
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).		

2. Additional Terms and Conditions

- 2.a** In accordance with OAC rule 3745-31-05, this emissions unit has been approved for the use of recycled asphalt products.
- 2.b** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06, by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).
- 2.c** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

B. Operational Restrictions

1. The maximum annual operating rate for this emissions unit shall not exceed 500,000 tons of asphalt production, based upon a rolling 12-month summation of the asphalt production.

To ensure enforceability during the first 12 calendar months of operation following the startup of the emissions unit P902, the permittee shall not exceed the asphalt production specified in the following table:

Month	Maximum Cumulative Allowable Asphalt Production, in tons
1	125,000
1 - 2	250,000
1 - 3	375,000
1 - 4	500,000
1 - 5	500,000
1 - 6	500,000
1 - 7	500,000
1 - 8	500,000
1 - 9	500,000
1 - 10	500,000
1 - 11	500,000
1 - 12	500,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual asphalt production limitation shall be based upon a rolling, 12-month summation of the production rates.

2. All used oil burned in this emissions unit shall be "on-specification" (on-spec) oil which meets the following limitations:

Contaminant/Property Allowable Specifications

arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
lead	100 ppm, maximum
PCB's	50 ppm, maximum
total halogens	4,000 ppm maximum*
mercury	1 ppm, maximum
flash point	100oF, minimum

2. The permittee shall maintain monthly records of the following information:
 - a. The asphalt production, in tons, for each month.
 - b. Beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of the asphalt production, in tons.

Also, during the first 12 calendar months of operation following issuance of this permit, the permittee shall record the cumulative asphalt production, in tons, for each calendar month.

3. The permittee shall receive the chemical analyses from the supplier/marketer for each shipment of used oil burned in this emissions unit, which shall contain the following information:
 - a. the date the used oil was received at the facility;
 - b. the name, address, and USEPA identification number (if applicable) of the supplier/marketer;
 - c. the results of the chemical analyses demonstrating the used oil meets the standards in OAC 3745-279-11, including:
 - i. arsenic content, in ppm;
 - ii. the cadmium content, in ppm;
 - iii. the chromium content, in ppm;
 - iv. the lead content, in ppm;
 - v. total halogens, in ppm; and
 - vi. flash point;
 - d. the analysis demonstrating that the used oil is below 1,000 ppm total halogens or the certification for the rebuttal of the assumption that the oil is hazardous waste or has been mixed with hazardous waste, as described in OAC rule 3745-279-63 (B); and
 - e. the results of the analyses demonstrating that the used oil meets the heating value and mercury and PCB limitations contained in this permit.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the director (the Ohio EPA Southeast District Office) upon verbal or written request. The director, or any authorized representative of the director, may require or may conduct periodic detailed chemical analyses, by the agency (Ohio EPA) or through an independent

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laboratory, of any used oil shipments received by this facility or any used oil stored at this facility.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports that include the following:
 - a. An identification of all days during which any visible PE or fugitive PE were observed from the baghouse stack and the aggregate storage bins and cold aggregate elevator associated with this emissions unit.
 - b. A description of any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month asphalt production limitation and, for the first 12 calendar months of operation following the startup of the emissions unit P902, all exceedances of the maximum allowable cumulative monthly asphalt production. These reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.
3. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P. O. Box 163669
Columbus, Ohio 43216-3669

and

Southeast District Office
2195 Front Street
Logan, Ohio 43138

4. The permittee shall notify the U.S. EPA and the Ohio EPA Southeast District Office, in writing and within 30 days, of burning any used oil exceeding the on-spec oil limitations found in OAC rule 3745-279-11 and/or any incident or occurrence of non-compliance with any other applicable requirement of 40 CFR part 279; and shall also notify the Ohio EPA, within the same amount of time, if any oil is/was burned which exceeds the mercury limitation of 1 ppm and/or is documented as having a heating value of less than 135,000 Btu/gallon.
5. The permittee shall submit deviation (excursion) reports which identify any exceedance of the sulfur content fuel restriction specified in Section B.4. The notification shall be sent to the Ohio EPA, Southeast District Office within 30 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emissions Limitation:

Emissions of particulate matter shall not exceed 0.03 grains/dscf of exhaust gases.
PE shall not exceed 9.0 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Method:

As required in Section E.2, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton. This limit is based on the following calculation:
 $(0.03 \text{ gr/dscf})(35000 \text{ cfm})(60 \text{ min/hr})(1 \text{ lb}/7000 \text{ gr})(2000 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 9.0 \text{ TPY}$

- b. Emission Limitation:

Emissions of volatile organic compounds (VOC) shall not exceed 8.0 lb/hour.
Emissions of VOC shall not exceed 8.0 TPY based upon a rolling, 12-month summation

of the monthly emissions.

Compliance Methods:

As required in Section E.2, VOC emissions shall be determined according to test Methods 1 - 4, and 18 or 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Initial compliance has been demonstrated by multiplying the emission factor from AP-42, Table 11.1-8 (12/00), 0.032 pounds of emissions per ton of production, by the maximum hourly production rate of 250 tons per hour to obtain 8.0 lb VOC per hour.

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton.

c. Emissions Limitation:

Emissions of sulfur dioxide (SO₂) shall not exceed 14.5 lb/hour

Emissions of SO₂ shall not exceed 14.5 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Method:

As required in Section E.2, sulfur dioxide emissions shall be determined according to test Methods 1 - 4, and 6 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Initial compliance has been demonstrated by multiplying the emission factor from AP-42, Table 11.1-7 (12/00), 0.058 pounds of emissions per ton of production, by the maximum hourly production rate of 250 tons per hour to obtain 14.5 lb SO₂ per hour.

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton.

d. Emissions Limitation:

Emissions of oxides of nitrogen (NO_x) shall not exceed 13.8 lb/hour.

Emissions of NO_x shall not exceed 13.8 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Method:

As required in Section E.2, nitrogen oxides emissions shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Initial compliance has been demonstrated by multiplying the emission factor from AP-42, Table 11.1-7 (12/00), 0.055 pounds of emissions per ton of production, by the maximum hourly production rate of 250 tons per hour to obtain 13.75 lb NO_x per hour.

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton.

e. Emissions Limitation:

Emissions of carbon monoxide (CO) shall not exceed 32.5 lbs/hour.

Emissions of CO shall not exceed 32.5 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Method:

As required in Section E.2, carbon monoxide emissions shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Initial compliance has been demonstrated by multiplying the emission factor from AP-42, Table 11.1-7 (12/00), 0.13 pounds of emissions per ton of production, by the maximum hourly production rate of 250 tons per hour to obtain 32.5 lb CO per hour.

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton.

f. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall be less than or equal to 20 percent opacity, as a 3-minute average.

Compliance Method:

If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

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- g. Emission Limitation:
Visible emissions of fugitive dust shall be less than or equal to 10% opacity, as a 3-minute average.

Compliance Method:

If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

- h. Emission Limitation

Annual emission shall not exceed 1.4 TPY of fugitive particulate emissions as a rolling 12-month summation.

Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined using the following worst case calculation, where total fugitive emissions equal the summation of the fugitives from the aggregate storage bins, cold aggregate elevator, and associated operations:

$$((363,635 \text{ tons of aggregate/year} \times 0.0069 \text{ lb PE/ton of aggregate}) + (136,365 \text{ tons of sand/year} \times 0.0021 \text{ lb PE/ton of sand})) \times (0.0005 \text{ ton/lb}) = 1.40 \text{ ton}$$

The emissions factors in the above equation are derived from AP-42, Table 11.12-2 (10/01).

- i. Emission Limitation

Emissions of fugitive particulate emissions shall not exceed 1.4 pounds per hour

Applicable Compliance Method

Compliance with the hourly emissions limitation shall be determined using the following worst case calculation, where total fugitive emissions equal the summation of the fugitives from the aggregate storage bins, cold aggregate elevator, and associated operations:

$$((182 \text{ tons of aggregate/hour} \times 0.0069 \text{ lb PE/ton of aggregate}) + (68 \text{ tons of sand/hour} \times 0.0021 \text{ lb PE/ton of sand})) = 1.4 \text{ lbs PE/hr}$$

The emissions factors in the above equation are derived from AP-42, Table 11.12-2

(10/01).

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after startup of the modified emissions unit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for PM, CO, NO_x, SO₂, and VOC.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-5 for PE, Method 25 for VOC, Method 1-4 and 10 for CO, Method 1-4 and 6 for SO₂, and Method 1-4 and 7 for NO_x.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity using worst case fuel and per cent of RAP listed in this permit, unless otherwise specified or approved by the Ohio EPA Southeast District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Southeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Southeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Southeast District Office.

F. Miscellaneous Requirements

None.

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