

**Synthetic Minor Determination and/or**  **Netting Determination**

Permit To Install **14-05066**

Shelly Materials, Inc.

Plant No. 42

A. Source Description:

Shelly Materials Inc. has submitted a permit to install (PTI) application to modify PTI 14-2600 to allow for an increase in production and the use of waste oil as fuel in their 400 ton per hour drum mix asphalt plant. Emissions from the drum mixer are controlled with a fabric filter.

B. Facility Description:

This facility is located in Fairfield Township, Butler County, Ohio near the Great Miami River and is currently a minor facility. Butler County is classified as in attainment for the pollutants subject to the National Ambient Air Quality Standard (NAAQS) - particulate matter, PM10, CO, SO2, NOx, Pb, and ozone (VOC).

C. Source Emissions:

Potential emissions for each of the NAAQS pollutants, except PM and PM10, are less than 250 TPY. Uncontrolled PM emissions are 5600 TPY and PM10 emissions are 1300 TPY. Potential emissions of PM/PM10, SO2, and CO from this emissions unit (including fugitive particulate emissions) are above the threshold of 100 TPY, which would make the permitted a major facility for Title V purposes. Therefore Shelly Materials Inc. will have a production limit of 400,000 tons per year and a requirement to use a fabric filter for control of particulate matter to eliminate the need for PSD review for PM/PM10 and eliminate Title V rule applicability. Parametric monitoring of the fabric filter will be required in order to ensure that the fabric filter is operating within the allowable pressure drop range. Compliance with the annual production limit will be based upon a rolling, 12-month summation. This facility will maintain monthly records and submit excursion reports that identify all exceedances of the rolling, 12-month production rate limitation.

D. Conclusion:

With this permit, the federally enforceable terms and conditions will limit the annual asphalt production and require the use of control equipment so that the facility has a potential to emit less than 100 tons per year of PM/PM10, SO2, and CO. Shelly Materials Inc. will not be considered a major facility for the purpose of Title V permitting or PSD review.



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

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

Lazarus Gov.  
Center

**RE: DRAFT PERMIT TO INSTALL  
BUTLER COUNTY**

**CERTIFIED MAIL**

**Application No: 14-05066**

**DATE: 3/29/2001**

Shelly Materials - plant 42  
Beth Mowrey  
P.O. Box 266 8775 Blackbird Lane  
Thornville, Ohio 43076

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$1000** will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA HCDES KY IN OH-KY-IN Reg Coun of Gov



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT PERMIT TO INSTALL 14-05066**

Application Number: 14-05066  
APS Premise Number: 1409000018  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Shelly Materials - plant 42  
Person to Contact: Beth Mowrey  
Address: P.O. Box 266 8775 Blackbird Lane  
Thornville, Ohio 43076

Location of proposed air contaminant source(s) [emissions unit(s)]:

**107 River Circle Drive  
Fairfield, Ohio**

Description of proposed emissions unit(s):

**Modification to PTI 14-02600 issued March 31, 1993 and modified July 29, 1998, by adding the ability to burn waste oil.**

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

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Director

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## 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 Related to Monitoring and Recordkeeping 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

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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

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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 application must be made to the Director for the installation or modification of any other emissions unit(s).

**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**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or

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modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 thirty (30) days after commencing operation of the source(s) covered by this permit.

#### 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>
PM	18.1
PM <sub>10</sub>	15.0
CO	26.5
SO <sub>2</sub>	11.6
NO <sub>x</sub>	11.0
OC	12.1

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Facility ID: 1409000018

Emissions Unit ID: P902

**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

Applicable Rules/Requirements

P902 - Drum mix asphalt plant  
w/fabric filter including oil-fired  
dryer, hot aggregate elevator, and  
silos - **modification**

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

OAC rule 3745-35-07(B)  
Synthetic Minor to avoid Title V

40 CFR Part 60 Subpart I

OAC rule 3745-17-07(A)

OAC rule 3745-31-05(D)  
Synthetic Minor to avoid PSD

OAC rule 3745-17-07(B)

OAC rule 3745-17-08(B)

Applicable Emissions  
Limitations/Control Measures

10.2 lbs PM/hr from stack emissions

8.2 lbs PM-10/hr from stack emissions

23.0 lbs PM/hr from fugitive emissions

20.7 lbs PM-10/hr from fugitive emissions

53.0 lbs CO/hr,  
 22.0 lbs NO<sub>x</sub>/hr, 11.0 TPY\* NO<sub>x</sub>  
 23.2 lbs SO<sub>2</sub>/hr,  
 24.1 lbs OC/hr, 12.1 TPY\* OC

See term A.2.b, A.2.e, A.2.f and B.3

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B), OAC rule 3745-17-08(B), 40 CFR Part 60 Subpart I, OAC rule 3745-31-05(D) and OAC rule 3745-35-07(B).

6.6 TPY\* PM from stack emissions  
 4.6 TPY\* PM-10 from stack emissions

11.5 TPY\* PM from fugitive emissions

10.4 TPY\* PM10 from fugitive emissions

26.5 TPY\* CO

11.6 TPY\* SO<sub>2</sub>

\* The TPY emission limitations are based on a rolling, 12-month summation.

0.04 grain PM per dry standard cubic foot of exhaust gases.

The opacity emission limitation specified by this rule is less stringent than the opacity emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

Visible particulate emissions of fugitive dust shall not exceed 20 percent opacity, as a 3-minute average.

RACM-

Use of adequate enclosures and sufficient draft to minimize or eliminate visible emissions of fugitive dust from the hot aggregate elevator, storage silos, and weigh hopper.

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.

OAC rule 3745-17-11(B)

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The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.

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** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a fabric filter to control the particulate emissions from the dryer, an annual asphalt production limit, maintenance of the aggregate in a moist condition, visible emissions limitations and compliance with 40 CFR Part 60, Subpart I .
- 2.b** Visible particulate emissions from any stack associated with emissions unit P902 shall not exceed 10% opacity, as a six-minute average.
- 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.
- 2.d** The hourly emission limitations outlined in term A.1. are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limits.
- 2.e** All recycled, used oil burned in this emissions unit shall meet the following specifications:

<u>Contaminant/Property</u>	<u>Allowable Specifications</u>
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum

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chromium	10 ppm, maximum
lead	60 ppm, maximum
PCBs	10 ppm, maximum*
total halogens	4000 ppm, maximum
mercury	1 ppm, maximum
flash point	100°F, minimum

**Shell****PTI**Emissions Unit ID: **P902****Issued: To be entered upon final issuance**

heat content	135,000 Btu/gallon, minimum
sulfur content	0.50 %

\* If the permittee is burning used oil with any quantifiable level (2ppm) of PCBs, then the permittee is subject to the notification requirements of 40 CFR 279.62.

- 2.f** Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR Part 266.40(c) and OAC rule 3745-279. Therefore, the permittee may receive and burn used oil exceeding 1000 ppm of total halogens (but less than 4000 ppm, maximum) only if the supplier ["marketer" in 40 Part CFR 266.43(a)] has demonstrated to the Ohio EPA's Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.

## **B. Operational Restrictions**

1. The pressure drop across the fabric filter shall be maintained within a range of 2 inches of water to 6 inches of water while the emissions unit is in operation.
2. The maximum hourly asphaltic concrete production from this plant shall not exceed 400 tons per hour.
3. The maximum annual asphalt production rate for this emissions unit shall not exceed 400,000 tons per year based upon a rolling, 12-month summation of the production rates.

The permittee shall comply with the rolling 12-month production limitation immediately upon startup under this permit based on past records of monthly production.

4. The permittee may not receive or burn any used oil which does not meet the specifications listed in this permit without first obtaining a permit to install that authorizes the burning of such used oil.
5. The permitted may not receive or burn any #2 fuel oil and/or used oil which has a sulfur content greater than 0.50 percent.
6. The use of recycled asphalt product (RAP) shall be limited to 50 percent for surface, base, and intermediate mixes.

**Shell****PTI****Issued: To be entered upon final issuance**Emissions Unit ID: **P902****C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the fabric filter on a daily basis.
2. The permittee shall receive a chemical analysis with each shipment of used oil from the supplier. The analysis shall identify the name and address of the supplier, the supplier's USEPA identification number, and the following information:
  - a. date of shipment or delivery,
  - b. quantity of used oil received (gallons),
  - c. the Btu value of the used oil (Btu/gallon),
  - d. the flash point of the used oil (°F),
  - e. the arsenic content (ppm),
  - f. the cadmium content (ppm),
  - g. the chromium content (ppm),
  - h. the lead content (ppm),
  - i. the PCB content (ppm),
  - j. the total halogen content (ppm),
  - k. the mercury content (ppm), and
  - l. the sulfur content (%).

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the dryer.

3. The permittee shall maintain monthly records of the following information:
  - a. The production rate for each month.
  - b. The updated rolling, 12-month summation of the production rates.
4. For each shipment of #2 fuel oil received for burning in this emissions unit, the permittee shall

maintain records of the total quantity of oil received and the permittees or oil supplier's analyses for sulfur content and heat content.

#### **D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified in term B.1.
2. The permittee shall notify the USEPA and the Ohio EPA within 30 days if any of the used oil exceeds the used oil specifications found in OAC rule 3745-279-11 or term A.2.e. If the permittee is burning used oil which exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of that rule.
3. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation.
4. The permittee shall submit annual reports which specify the total PM, PM10, SO<sub>2</sub>, NO<sub>x</sub>, OC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 30 of each year.
5. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
6. The permittee shall submit deviation (excursion) reports that identify all exceedances of the sulfur content limits in Term B.5.
7. 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

Shell  
PTI

Emissions Unit ID: **P902**

**Issued: To be entered upon final issuance**

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

and

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, Ohio 45219

**E. Testing Requirements**

1. Compliance with the PM, PM<sub>10</sub>, CO, NO<sub>x</sub>, OC, and SO<sub>2</sub> emissions limits on the Air Emissions Summary page of this permit shall be demonstrated by the record keeping in Term C.3 and the following:
  - a. When using No. 2 fuel oil or used oil, the emission factors for CO, NO<sub>x</sub>, SO<sub>2</sub> and OC from Compilation of Air Pollution Emission Factors (AP-42), Tables 11.1-7 and 11.1-8, Fifth Edition or the results of the emissions testing..
  - b. For PM and PM<sub>10</sub> from the exhaust stack, the results of the emission testing will be used to demonstrate compliance.
2. The fugitive emissions for unloading to storage bins and cold aggregate elevators are calculated using the Ohio EPA Reasonably Available Control Measures manual, Table 2.21-1 and a multiplier based on the fraction of total production for each feed material type.

	Emissions Factor in lb PM/ton of production
unloading aggregate to bins	0.074
unloading RAP	0.02
RAP conveyor	0.1
cold aggregate conveyor	0.37
total =	0.564

The permittee shall calculate annual fugitive emissions by multiplying 0.564 lbsPM/ton of production by actual production quantities, in tons per year, and then dividing by 2000 lbs/ton to yield TPY PM.

3. Compliance with the used oil specifications in Term A.2.e shall be demonstrated by the chemical analysis which is submitted with each shipment from the supplier and as required by the recordkeeping in Term C.2 .

**Shell****PTI**Emissions Unit ID: **P902****Issued: To be entered upon final issuance**

4. Compliance with the annual asphalt production limitations in Term B.3 shall be demonstrated by the record keeping in Term C.3.
5. Compliance with the visible emissions limitations in Terms A.1 and A.2 shall be demonstrated by Method 9, 40 CFR Part 60, Appendix A.
6. The permitted 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 achieving the maximum production rate but not later than 180 days after initial startup of the emissions unit.
  - b. The emission testing shall be conducted to demonstrate compliance with the particulate, carbon monoxide, nitrogen oxide and volatile organic compound emission limits.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulate, Method 5 of 40 CFR Part 60, Appendix A, for organic compounds, Method 25 of 40 CFR Part 60, Appendix A- if applicable, for NO<sub>x</sub>, Method 7 of 40 CFR Part 60, Appendix A and for CO, Method 10 of 40 CFR Part 60,

**Shelly Materials - plant 42**

**PTI 14-2600**

**Issue**

**Facility ID: 1409000018**

Emissions Unit ID: **P902**

Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Hamilton County Department of Environmental Services.

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

Not later than 30 days prior to the proposed test date(s), the permitted shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency.

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 District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permitted may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

7. Compliance with the fabric filter pressure drop limitation in Term B.1 shall be demonstrated by the record keeping in Term C.1.
8. Compliance with the sulfur content limitation in Term B.5 shall be demonstrated by the record keeping in Term C.4.

## **F. Miscellaneous Requirements**

1. The terms and conditions listed in this permit to install shall supercede all the air pollution control requirements for this emission unit contained in permit to install 14-2600 as issued on March 31, 1993.

**Shell**

**PTI /**

Emissions Unit ID: **P902**

**Issued: To be entered upon final issuance**

2. The following terms and conditions of this permit are federally enforceable: A., B.1- B.6, C.1- C.4., D.1 - D.7 and E.1 - E.8.

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3. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permitted is hereby advised that changes in the composition of the materials, or use of new materials that would cause the emission of any pollutant that has a listed TLV to increase to above 1.0 tons per year may require the permitted to apply for and obtain a new permit to install.

**NEW SOURCE REVIEW FORM B**

PTI Number: 14-05066 Facility ID: 1409000018

FACILITY NAME Shelly Materials - plant 42

FACILITY DESCRIPTION Modification to PTI 14-02600 issued CITY/TWP Fairfield  
 March 31, 1993 and modified July 29,  
 1998, by adding the ability to burn waste  
 oil and increasing production rates.

SIC CODE	2951	SCC CODE	3-05-002-05,3-05-002-1 4 3-05-002-13,3-05-002-0 7 3-05-002-04,3-05-002-0 8 3-05-002-58,-59,-60,-61,- 62,-63.	EMISSIONS UNIT ID	P902
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EMISSIONS UNIT DESCRIPTION Drum mix asphalt batch plant w/fabric filter including oil-fired dryer, hot aggregate elevator, and silos

DATE INSTALLED 1992

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	21.6 lbs/hr fugitive 10.2 lbs/hr stack	7.2 TPY fugitive 4.1 TPY stack	23.0 lbs/hr fug. 10.2 lbs/hr stack	11.5 fugitive 6.6 stack
PM <sub>10</sub>	attainment	21.6 lbs./hr fugitive 8.2 lbs/hr stack	6.5 TPY fugitive 10.4 TPY stack	20.7 lbs/hr fug. 8.2 lbs.hr stack	10.4 TPY fug. 4.6 TPY stack
Sulfur Dioxide	attainment	21.75 lbs/hr	7.25 TPY	23.2 lbs/hr	11.6 TPY
Organic Compounds	attainment	13.5 lbs/hr	4.5 TPY	24.1 lbs/hr	12.1TPY
Nitrogen Oxides	attainment	20.6 lbs/hr	6.9 TPY	22.0 lbs/hr	11.0 TPY
Carbon Monoxide	attainment	48.75 lbs/hr	16.25 TPY	53.0 lbs/hr	26.5 TPY
Lead	attainment	0.35 lb/hr	0.12 TPY	0.37 lb/hr	0.19 TPY
Other: Air Toxics	see calculations				

APPLICABLE FEDERAL RULES:

NSPS? Subpart I

NESHAP? No

PSD? No

OFFSET POLICY? No

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** BAT is the use of a fabric filter to control the particulate emissions from the dryer, an annual asphalt production limit, maintenance of the aggregate in a moist condition, and limiting visible emissions.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$No

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NO

IDENTIFY THE AIR CONTAMINANTS: NA