



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
LICKING COUNTY**

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: 01-08238**

**DATE: 1/9/2001**

Ashland Unocal Remediation  
Mark Metcalf  
5200 Blazer Parkway  
Dublin, OH 43017

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  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

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

CC: USEPA

CDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 01-08238**

Application Number: 01-08238  
APS Premise Number: 0145010362  
Permit Fee: **\$400**  
Name of Facility: Ashland Unocal Remediation  
Person to Contact: Mark Metcalf  
Address: 5200 Blazer Parkway  
Dublin, OH 43017

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**Irving Wick Dr**  
**Heath, Ohio**

Description of proposed emissions unit(s):  
**Expansion of existing vacuum enhanced hydrocarbon vapor recovery system.**

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 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 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

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**PTI Application: 01-08238**  
**Issued: 1/9/2001**

**Facility ID: 0145010362**

Environmental Protection Agency if the proposed sources are inadequate 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 prove to be inadequate 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**

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 thirty (30) 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>
Benzene	0.16
Ethyl Benzene	0.02
Toluene	0.1
Xylenes	0.1
Hexane	3.85
VOC	32.90

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

### A. Applicable Emissions Limitations and/or Control Requirements

- 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>
P001: Vapor-enhanced hydrocarbon recovery system with two oxidizers (modification to PTI 01-6499, issued 8/6/97)	OAC rule 3745-31-05(A)(3)	<p>Benzene emissions shall not exceed 0.04 pound per hour and 0.2 ton per year.</p> <p>Ethyl benzene emissions shall not exceed 0.005 pound per hour and 0.02 ton per year.</p> <p>Toluene emissions shall not exceed 0.02 pound per hour and 0.1 ton per year.</p> <p>Total xylene emissions shall not exceed 0.02 pound per hour and 0.1 ton per year.</p> <p>Hexane emissions shall not exceed 0.88 pound per hour and 3.9 tons per year.</p> <p>Volatile organic compound emissions shall not exceed 7.5 pounds per hour and 32.9 tons per year.</p> <p>See II.A.2.a.i - II.A.2.a.ii below.</p>

## 2. Additional Terms and Conditions

2.a The permittee shall use two oxidizers on P001 with the following properties:

- i. Soil-Therm Oxidizer Unit must have a 90% destruction of BTEX aromatic in catalytic mode and a destruction efficiency of at least 95% in thermal mode.
- ii. Global Oxidizer Unit must have a 99% destruction in catalytic mode.

## B. Operational Restrictions

### 1. Minimum Temperature

- a. Soil-Therm Oxidizer Unit shall be operated at a minimum temperature of 1400 degrees Fahrenheit when in the thermal oxidizer mode and 600 degrees Fahrenheit when in the catalytic oxidizer mode.
- b. Global Oxidizer Unit shall be operated at a minimum temperature of 600 degrees Fahrenheit.

### 2. Retention Time

- a. In the thermal mode, all emissions from the Soil-Therm Oxidizer Unit must remain in the oxidizer chamber for a minimum of one second (at a minimum inlet temperature of 1400 degrees Fahrenheit) before exiting the chamber.
- b. In the catalytic mode, all emissions from the Soil-Therm Oxidizer Unit must remain in the oxidizer chamber for a minimum of one second (at a minimum inlet temperature of 600 degrees Fahrenheit) before exiting the chamber.
- c. In the catalytic mode, all emissions from the Global Oxidizer Unit must remain in the oxidizer chamber for a minimum of 0.12 second (at a minimum inlet temperature of 600 degrees Fahrenheit) before exiting the chamber.

3. The permittee shall burn only natural gas or propane in this emissions unit.

## C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall continuously monitor and record the outlet temperature from the oxidizers serving P001. The temperature records shall be retained in this facility's files for a period of not less than three years and shall be made available to the Director or any authorized representative

of the Director during normal business hours.

2. For each day during which the permittee burns a fuel other than natural gas or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
3. The permit to install for this emissions unit (P001) was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Hexane

TLV (mg/m<sup>3</sup>): 176

Maximum Hourly Emission Rate (lb/hr): 0.88

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 132.3

MAGLC (ug/m<sup>3</sup>): 4190

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in

Emissions Unit ID: **P001**

an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

1. This facility shall submit reports which provide the following information for each period during which the outlet temperatures fall below the specifications in B.2.:
  - a. the date of the excursion;
  - b. the time interval over which the excursion occurred;
  - c. the temperature values during the excursion;
  - d. the cause(s) of the excursion; and
  - e. the corrective action which has been or will be taken to prevent similar excursions in the future.

These reports are due by the dates described in Part 1 - General Terms and Conditions of this permit under A.I.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or propane was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

#### E. Testing Requirements

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

- a. Emission Limitations: 0.04 lb/hr Benzene  
0.005 lb/hr Ethyl benzene  
0.02 lb/hr Toluene  
0.02 lb/hr Xylene  
0.88 lb/hr Hexane  
7.5 lbs/hr Volatile organic compounds

##### Applicable Compliance Method(s):

Compliance with the short term emission limitations shall be determined by taking a sample of extracted vapor and having it analyzed by an independent laboratory in accordance with USEPA Method 5021 "Headspace" and USEPA Method 8015B "Gas Chromatography by FID" (modified to accommodate the gas phase sample). Each hourly concentration is then multiplied by the by the destruction efficiency of the oxidizer in use - (1 - 0.95) for Soil Therm Oxidizer in thermal mode, (1-0.90) for Soil Therm Oxidizer in catalytic mode, or (1 - 0.99) for the Global Oxidizer.

If required, compliance with the destruction efficiency specified in A.2.a. will be demonstrated in accordance with 40CFR60, Method 25A.

- b. Emission Limitations: 0.2 tpy Benzene  
0.02 tpy Ethyl benzene  
0.1 tpy Toluene  
0.1 tpy Xylene  
3.9 tpy Hexane  
32.9 tpy Volatile organic compounds

##### Applicable Compliance Method(s):

Compliance with the long term emission limitations shall be demonstrated by multiplying

**Ashland Unocal Remediation**  
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**Issued**

**Facility ID: 0145010362**

Emissions Unit ID: **P001**

the controlled hourly emissions by maximum, annual hours of operation (8760) and dividing by 2000 pounds per ton.

**F. Miscellaneous Requirements**

None.

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08238 Facility ID: 0145010362

FACILITY NAME Ashland Unocal Remediation

FACILITY DESCRIPTION Expansion of existing vacuum enhanced hydrocarbon vapor recovery system. CITY/TWP Heath

SIC CODE 8711 SCC CODE 4 04 003 01 EMISSIONS UNIT ID P001

EMISSIONS UNIT DESCRIPTION Vapor-enhanced hydrocarbon recovery system with two knock-out tanks and two thermal/catalytic oxidizers

DATE INSTALLED

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					
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds	attainment	7.5	32.9	7.5	32.9
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? n/a

NESHAP? n/a

PSD? n/a

OFFSET POLICY? n/a

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

Two oxidizers

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$not given

**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\*? X YES        NOIDENTIFY THE AIR CONTAMINANTS: benzene  
ethyl benzene  
toluene  
xylene  
hexane  
voc

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08238

Facility ID: 0145010362

FACILITY NAME Ashland Unocal Remediation

FACILITY DESCRIPTION	Expansion of existing vacuum enhanced hydrocarbon vapor recovery system.	CITY/TWP	Heath
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**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to [airpti@epa.state.oh.us](mailto:airpti@epa.state.oh.us)

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input type="checkbox"/>	0000000c.wpd	<input type="checkbox"/>	X
<u>Modeling form/results</u>	<input type="checkbox"/>	0000000s.wpd	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	0000000a.wpd	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

## NSR Discussion

Ashland/Unocal has expanded its original recovery system to include ten additional hydrocarbon extraction wells. The original system, hydrocarbon vapor recovery system, is presently designed with 14 wells, one knockout tank for liquids and a thermal/catalytic oxidizer to destroy organic vapors. With the expansion, the company is seeking a PTI to install a second thermal/catalytic oxidizer and knockout tank to ensure that organics released from all twenty-four wells are destroyed. Therefore, P001 is undergoing a chapter 31 modification.

Applicable Federal Rules and Regulations

(1) NSPS - n/a

(2) NESHAPS - n/a

(3) PSD -

Attainment Area - YESFacility on 28 Source Category PSD Rule List - NOCurrent Facility Potential Emissions  $\geq$  250 tpy - NO

- Facility is not a PSD Facility

**New Source Emissions  $\geq$  Significance Levels - NO** (because include control equipment in calculation)

- Not a Major Modification - No PSD Permit Needed

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08238 Facility ID: 0145010362

FACILITY NAME Ashland Unocal Remediation

FACILITY DESCRIPTION	Expansion of existing vacuum enhanced hydrocarbon vapor recovery system.	CITY/TWP	Heath
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**Applicable State Rules and Regulations**

In the design of this emissions unit, extracted vapors are sent to one of two thermal/catalytic oxidizers. Any entrained liquid in the extracted vapor is removed via knock-out tanks. Liquids are periodically emptied by a level-actuated pumping system. Hydrocarbon-water mixtures are separated in an oil-water separator and the hydrocarbons are accumulated in a 300-gallon storage tank for off-site recycling. Water is passed through activated carbon and then discharged to the City of Heath municipal system under a permit with the City of Heath. So, P001 is designed such that only when the organics go from the liquid phase to the vapor phase can the pollutant find a way to the ambient air. In this case, we are not regulating the liquid organic material and thus, this emissions unit is not subject to any of the regulations in OAC rule 3745-21.

Please complete:

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

<u>Pollutant</u>	<u>Tons Per Year</u>
Benzene	0.16
Ethyl Benzene	0.02
Toluene	0.1
Xylenes	0.1
Hexane	3.85
VOC	32.90