

OHIO E.P.A.

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Ohio EPA Permit No.: 3745-42-HD001

Effective Date: May 1, 2010

Expiration Date: April 30, 2015

**OHIO ENVIRONMENTAL PROTECTION AGENCY**

**GENERAL WASTEWATER DISPOSAL SYSTEM PERMIT TO INSTALL (PTI)  
FOR  
LAND APPLICATION OF HYDRO-DEMOLITION WASTEWATER  
UNDER OHIO ADMINISTRATIVE CODE CHAPTER 3745-42 AND  
OHIO REVISED CODE CHAPTER 6111.**

In compliance with the Ohio Water Pollution Control Act (Ohio Revised Code (ORC) Chapter 6111.), the applicant, as defined in Part VI of this PTI, is authorized by the Ohio Environmental Protection Agency, hereafter referred to as "Ohio EPA," to install a wastewater disposal system in locations identified in the applicant's Notice of Intent (NOI) on file with Ohio EPA in accordance with conditions specified in Parts I through VII of this PTI.

Granting of the PTI coverage is conditional upon payment of applicable fees.

An applicant's PTI coverage shall expire if installation by the applicant has not occurred within one year of the date of the Director's notification letter. A one-time extension may be granted pursuant to Part I of this permit. By accepting coverage under this PTI, the applicant acknowledges that this one year period shall not be considered or construed as extending or having any effect whatsoever on any compliance schedule or deadline set forth in any administrative or court order issued to or binding upon the permit applicant and the applicant shall abide by such compliance schedules or deadlines to avoid the initiation of additional legal action by the Ohio Environmental Protection Agency.

Ohio Environmental Protection Agency



Chris Korleski  
Director  
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I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

By:  Date: 4-6-10

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## **PART I. COVERAGE UNDER THIS PTI**

### **A. PTI Area.**

This PTI covers the entire State of Ohio.

### **B. Eligibility.**

#### **1. Activities covered by this PTI.**

This PTI covers the installation and operation of wastewater disposal systems designed for the land application of water used for the hydro-demolition of Portland cement concrete bridge decks. This PTI explicitly prohibits the discharge of hydro-demolition wastewater to waters of the State.

#### **2. Limitations on coverage.**

**This PTI does not provide coverage for a hydro-demolition wastewater disposal system when:**

- a. The applicant has a documented history of noncompliance with the conditions of this PTI.
- b. Installation of the wastewater disposal system was initiated prior to receipt of an approved PTI.
- c. The hydro-demolition wastewater is mixed with any other wastewater streams that are not hydro-demolition wastewater or storm water.
- d. The hydro-demolition process is to be used on Portland cement concrete surfaces that are painted or have other coatings present.

#### **3. Requiring an individual PTI.**

- a. The director may require an individual PTI or an alternative general permit. The director has the authority to require any applicant eligible for this PTI to apply for and obtain either an individual PTI or an alternative general permit in accordance with ORC Chapter 6111. and Ohio Administrative Code (OAC) Chapter

3745-42. Any interested person has the right to petition the director to take action under this paragraph.

The Central Office of the Ohio EPA Division of Surface Water will send written notification that an individual PTI is required. This notice shall include a brief statement of the reasons for this decision. Upon receipt of the written notification, the applicant has the right to choose to withdraw the NOI and submit a new NOI after making changes, or the applicant can apply for an individual PTI.

- b. Applicants have the right to request an individual PTI. Any applicant eligible for this general PTI has the right to apply for an individual PTI. The applicant is not required to request coverage under this general PTI. The applicant shall submit the individual PTI application to the appropriate Ohio EPA District Office.

**C. Authorization.**

1. Authorized site visits. An authorized representative of the director of the Ohio Environmental Protection Agency has the authority to enter upon the premises of the above named applicant during installation and operation at any reasonable time for the purpose of making inspections, collecting samples, conducting tests, and examining records or reports pertaining to the modification or installation of the above-described source of wastewater pollutants.
2. PTI duration. Pursuant to OAC Chapter 3745-42, this PTI is authorized for five years. Any applicant that has obtained coverage or an extension of coverage pursuant to OAC Chapter 3745-42 and paragraph D of this PTI and commenced construction shall be covered until such time that the project is completed or the director revokes an applicant's coverage, whichever occurs first.

**D. PTI Coverage Extension.**

1. Except as provided in paragraph (D)(2) of this PTI, coverage under the PTI is for one year from the date of approval. If coverage has expired, an applicant shall submit a new NOI with all applicable fees, and receive approval from the director prior to commencing with any future installation.

2. If installation of the treatment works will not begin within one year of the PTI issuance, the applicant may request from the Director or an authorized representative, a six-month extension for the PTI provided:
  - a. The applicant submits a request for an extension at least thirty days prior to the expiration date of coverage;
  - b. The request is submitted to the Central Office of the Ohio EPA, Division of Surface Water; and
  - c. The request includes:
    1. The applicant's name;
    2. The PTI number; and
    3. The reason for the PTI extension request.
3. Coverage under the PTI expires if the applicant has not requested and received an extension in accordance with paragraphs (D)(2) to (D)(2)(c)(3) of this permit.

**E. NOI Submittal Requirements.**

To obtain coverage under this PTI, an applicant shall submit to the Central Office of the Ohio EPA, Division of Surface Water:

1. The appropriate application fees, pursuant to Section 3745.11 of the Ohio Revised Code;
2. One copy of a complete and accurate Notice of Intent (NOI) signed by the Applicant. The NOI shall be on forms approved by the director;
3. Design plans for the project developed by a Professional Engineer registered in the state of Ohio which include:
  - a. Land application plan:
    - i. Equipment to be used for land application system;
    - ii. Land to be utilized for land application;
    - iii. The expected amount of wastewater to be land-applied;
    - iv. Location of all storm sewers or catch basins in land application area;
    - v. Location and size of unlined impoundment(s).

- b. Schematic diagrams of the processes that generate, collect, treat, and dispose of the hydro-demolition wastewater. The schematic diagrams shall:
  - i. Clearly locate each major process unit in sufficient detail to allow the agency to have a clear understanding of the types and quantities of pollutants that may be generated; and
  - ii. Identify the average and maximum daily flow rates (expressed as gallons per day) for each major process unit that generates hydro-demolition wastewater.

## **PART II. NOTICE OF INTENT (NOI) REQUIREMENTS**

### **A. Deadline for an NOI notification.**

Any person who intends to obtain coverage for the installation of a hydro-demolition wastewater disposal system under this general PTI must submit the information listed in Part I., Paragraph E. of this PTI. and the appropriate fee at least thirty days prior to the commencement of disposal system installation activities.

### **B. Failure to provide an NOI.**

Any person who installs a hydro-demolition wastewater disposal system without a PTI is in violation of ORC Chapter 6111., unless those units are exempted by Rule 3745-42-02 of the Ohio Administrative Code.

### **C. Where to submit an NOI.**

Applicants seeking coverage under this PTI shall submit a signed NOI form, provided by Ohio EPA and the fee and other associated documents referred to in paragraph E. of Part I of this PTI to the address found in the associated instructions.

## **PART III. NOTICE OF TERMINATION (NOT) REQUIREMENTS**

### **A. Failure to notify.**

The terms and conditions of this permit shall remain in effect until a signed Notice of Termination (NOT) form is submitted. Failure to submit an NOT

constitutes a violation of this permit and may affect the ability of the permittee to obtain general permit coverage in the future.

**B. When to submit an NOT**

1. Permittees wishing to terminate coverage under this permit must submit a NOT form. Compliance with this permit is required until a NOT form is submitted. The permittee's coverage under this permit terminates at midnight of the day the NOT form is submitted.
2. All permittees must submit an NOT form within 45 days of completing all permitted land application activities. Enforcement actions may be taken if a permittee fails to submit an NOT.

**C. How to submit an NOT**

Permittees must use Ohio EPA's approved NOT form. The form must be completed and mailed according to the instructions and signed in accordance with Ohio Administrative Code 3745-42-03.

**PART IV. DESIGN STANDARDS**

The following design standards in Part IV of this PTI shall be considered minimum design standards.

**A. Acceptable wastewater disposal systems.**

The wastewater disposal system shall be able to adequately collect and convey all hydro-demolition wastewater to the associated land application equipment. The wastewater disposal system may collect hydro-demolition wastewater from a maximum total of 2,000 linear feet of bridge deck restoration subject to hydro-demolition activities. Projects greater than 2,000 linear feet will require multiple NOI submittals. Coverage under each NOI submittal applies to only one county. Multiple concrete bridge decks may be covered under one NOI submittal if the bridge decks are included in the same hydro-demolition project.

**B. Pretreatment.**

Prior to land-applying hydro-demolition wastewater, the wastewater must be pretreated in the following manner:

1. The wastewater to be land-applied shall display no visual presence of solids.
2. A series of check dams, unlined impoundments, or closed containers/tanks may be used for collecting and settling hydro-demolition wastewater prior to land application.
3. If an unlined impoundment will be used it shall be properly designed in order to minimize the influences of storm water. There shall be no overflow or discharge from the impoundment.
4. The pH of the wastewater shall be monitored and recorded in accordance with a pH control plan.
5. The dams and/or impoundments shall be properly reclaimed or abandoned. All sludge material shall be dewatered and managed in accordance with applicable Ohio laws and regulations. Management of the dewatered sludge material as clean hard fill may be appropriate if the dewatered sludge material meets the regulatory definition of clean hard fill adopted under ORC 3714.

**C. Land Application.**

Land application of hydro-demolition wastewater shall be performed only on land contained within publically owned right-of-ways and that is specifically designated for this use by the right-of-way owner. All land application activities shall be performed in accordance with the practices listed below:

1. Prior to land application, the applicant shall inspect the land application area to determine the suitability of the site for land application (considerations shall include tile location and depth, soil type, evidence of soil cracking, available water capacity of the soil, slope, prior precipitation, forecasted precipitation, etc.) and document field conditions at the time of the inspection.
2. Setbacks listed in Table 1 shall be maintained during land application.
3. All drains or catch basins in the land application area shall be identified, flagged, and blocked off with sandbags prior to land-applying hydro-demolition wastewater.

4. Land application of hydro-demolition wastewater shall not cause ponding or runoff.
5. Should there be any discharge of hydro-demolition wastewater to waters of the State, Ohio EPA shall be notified immediately by calling the Ohio EPA Spill Hotline at 1-800-282-9378.
6. The maximum rate for land application of hydro-demolition wastewater shall be equal to or less than 10,000 gallons per acre. The rate of application shall be reduced if needed in order to preclude ponding or surface runoff.
7. Land application shall not occur on saturated soils or during rain or runoff events, and shall not occur if the forecast (see definition in Part VII) contains a greater than 50% chance of precipitation exceeding one quarter inch for any individual hour, for a period extending 24 hours after the commencement of land application. A rain gauge shall be used for recording the actual amount of precipitation on the day of land application activities and one day after land application activities.
8. The permittee shall maintain daily records which detail amounts of hydro-demolition wastewater applied, weather conditions, and field conditions. Daily records of operation shall be maintained by the applicant and shall be submitted upon request of the Ohio EPA. The log form to be used for record-keeping can be found as Attachment 1 to this PTI.
9. Land application of hydro-demolition wastewater shall not occur on frozen or snow-covered ground.
10. Hydro-demolition wastewater shall be applied to the areas designated by the right-of-way owner.
11. Hydro-demolition wastewater shall not be applied on land with a slope exceeding 25% (4:1).

#### **PART V. STANDARD PTI CONDITIONS**

- A. The proposed wastewater treatment works shall be installed in strict accordance with the information and application approved by the director of the Ohio

Environmental Protection Agency. Any deviations from the information provided in the application or the above conditions may lead to such sanctions and penalties as provided for under Ohio law. Issuance of this PTI does not constitute an assurance by the Ohio Environmental Protection Agency 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 are inadequate or cannot meet applicable standards.

- B.** Connection of any roof drain, foundation drain, or other clear water connection to the wastewater disposal system is prohibited.
- C.** No liquids, sludges, or toxic or hazardous substances other than those set forth in the NOI and the associated documents shall be accepted for treatment or disposal without the prior written approval of the Ohio Environmental Protection Agency.
- D.** The wastewater disposal system shall be replaced if it is no longer attaining the level of treatment required by Part IV, paragraph C of this PTI. In-kind replacement does not require approval from the Ohio EPA.
- E.** Material meeting the criteria of hazardous waste shall be handled in strict accordance with federal hazardous waste rules and laws. These materials include, but are not limited to, untreated or treated wastewater at or above a pH of 12.5.
- F.** Coverage under this PTI does not relieve the applicant of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

#### **PART VI. REOPENER CLAUSE**

PTI modifications or revocation will be conducted in accordance with paragraph (E) of Rule 3745-42-02 of the Ohio Administrative Code.

#### **PART VII. DEFINITIONS**

“Applicant” means the person applying for the PTI.

“Director” means the director of Ohio EPA or an authorized representative.

“Forecast” means the daily "hour by hour" forecast as presented by the Weather

Channel (www.weather.com), or equivalent. More specifically, the forecast for the zip code that represents the land application area/site shall be printed/recorded up to, but not greater than 24 hours prior to each land application event at any site. The percent chance of rain listed under the hour by hour forecast shall be used to determine compliance with this permit.

“Hydro-demolition wastewater” means wastewater produced during all high and low pressure water blasting operations associated with hydro-demolition or Portland cement concrete restoration operations.

“NOI” means notice of intent to be covered by this PTI.

“NOT” means notice of termination for terminating coverage under this PTI.

“PTI” is defined as a permit to install. A permit to install gives ODOT and its contractors permission to install and operate the equipment necessary to capture, treat, and land apply hydro-demolition wastewater and must be obtained from Ohio EPA prior to land-applying any hydro-demolition wastewater.

“Waters of the State” means all streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, irrigation systems, drainage systems, and all other bodies or accumulations of water, surface and underground, natural or artificial, regardless of the depth of the strata in which underground water is located, which are situated wholly or partly within, or border upon, this State, or are within its jurisdiction, except those private waters which do not combine or effect a junction with natural surface or underground waters.

**Table 1. Hydro-demolition Wastewater Land Application Distance Restrictions**

<b>Streams, Lakes, Ponds, Watercourses, Other Surface Water, Waterways, Open Tile Line Intake Structures, or Other Conduits to Surface Waters</b>
Hydro-demolition wastewater shall not be applied closer than 100 feet, unless a 35-foot vegetated buffer has been established where hydro-demolition wastewater application is prohibited. A mandatory 35-foot vegetated buffer must be established along fields with perennial streams regardless of setback requirement.
<b>Public Drinking Water Surface Water Intakes</b>
Land Application shall not take place within the emergency management zone of a public water system using surface water. Otherwise, hydro-demolition wastewater shall not be applied closer than 300 feet from the edge of the field.
<b>Seasonal Salmonid and Cold Water Habitats</b>
Hydro-demolition wastewater shall not be applied closer than 100 feet, unless a 35-foot vegetated buffer has been established where hydro-demolition wastewater application is prohibited.
<b>Public Drinking Water Wells</b>
Land application shall not take place within a highly susceptible drinking water source protection area (as defined by Ohio EPA) for a community public water system using ground water and not within the inner management zone for all other community public water systems using ground water.
Land application shall not take place within the inner management zone of a drinking water source protection area or within 300 feet of a water supply well serving a transient non-community or non-community, non-transient public water system using ground water, whichever distance is greater.
<b>Private Drinking Water Wells</b>
For injection application and surface application followed by incorporation within 24 hours, hydro-demolition wastewater shall not be applied closer than 100 feet.
For surface application not followed by incorporation within 24 hours, hydro-demolition wastewater shall not be applied closer than 300 feet.
<b>Class V Agricultural Drainage Wells, Agricultural Wellheads, or Sinkholes</b>
For injection application and surface application followed by incorporation within 24 hours, hydro-demolition wastewater shall not be applied closer than 100 feet.
For surface application not followed by incorporation within 24 hours, hydro-demolition wastewater shall not be applied closer than 300 feet.
<b>Springs</b>
Hydro-demolition wastewater shall not be applied closer than 300 feet.