## Instructions forApplication for Construction/Operation for Spray Irrigation
## Schedule H

This schedule must be submitted for all projects where wastewater will be sprayed onto fields including the spraying of supernatant from sludge for crop fertilization. It is not for the application of sludges on agricultural land.

**Note:** "Wastewater Land Treatment Site Regulation Act" 415 ILCS 50/1 (1994) requires "Certificates of Authorization" for wastewater land treatment sites (this includes untreated digested sludge) and steering committees for wastewater land treatment sites and digested sludge utilization sites.

It is intended by the use of this method that there will be no surface discharge or runoff from the spray irrigation field except after flowing through the soil as included in the basis of design. The discharge from underground tiles would then be the point of discharge to the receiving stream and continuous monitoring programs must be considered in the application.

1. The name of the project must be the same as that indicated on WPC-PS-1.

2. In addition to the other schedules submitted as a part of the application for permit, prepare and submit the design engineering report as provided by 35 Ill. Adm. Code 370.111 and 372.112 or 35 Ill. Adm. Code: Subtitle C, Part 37.

3. Sources and Types of Wastes:

   3.1 Give a general description of the type of industry producing the waste or state, if applicable, that the wastewater is domestic sewage from a municipality, etc. If this information is given at another point in this application, please indicate this fact.

   3.2 The application forms are designed so that appropriate schedules can be submitted for permits. It is anticipated that Schedules D, E and possibly J would be utilized in conjunction with this schedule although exceptions are anticipated.

   3.3 Schedule N must be submitted and the waste characteristics should be indicated therein. See the instructions for Schedule N. Also, if a collection system and discharge is included in a design of a spray irrigation project, the actual and/or anticipated effluent characteristics should be indicated on the Schedule N.

4. Submit a narrative description and technical basis for the project including but not limited to the following:

   4.1 **Major Unit Operations**: The complete description including specifications manufacturer's drawings, etc., for such times as spray irrigation headers, pumps, temporary piping equipment, reversing plows, etc., must be indicated.

   4.2 **Winter Operation**: The narrative should include when the wastewater will be applied to the land, and the particular winter conditions required for satisfactory application. It is anticipated that wastewater application practices will be severely curtailed during the winter months and little if any application will be allowed when frozen soil or snow conditions exist.

   4.3 **All Weather Access**: When wastewater application is being practices, it is mandatory that access be provided under all conditions for all sampling points on the project.

   4.4 **Method of Application**: Furnish a detailed narrative of the method of application such as wheel roll spray irrigation, spray gun spray irrigation, direct incorporation into the soil or plow injection into the soil, or other methods.

   4.5 **Control of Runoff**: Methods for control of runoff must be utilized. The system shall be designed to prevent surface runoff entering or leaving the project site.

   4.6 **Rate of Application**: In addition to hydraulic limitations of the soil, nutrient limitations must also be considered. See Part 372, Illinois Design Criteria for Slow Rate Land Application of Treated Wastewater for acceptable application rates.

   4.7 **Operating Practices**: This item gives details of now monitoring results will be applied to reducing or increasing an application rate, the pumping of runoff water back into storage lagoons, etc.

   4.8 **Odor Control**: Provision to control odors below objectional levels shall be a part of the design considerations.

   Adjacent land use and proximity and density of residential dwellings will in part determine the method and procedure for storage and application of the wastewater to the land.

   At no time will the odor from such facilities exceed the standards for odor set forth by the Illinois Pollution Control Board.

   4.9 **Monitoring Program**: The information on monitoring in the “Illinois Desgin Standards For Slow Rate Land Application of Treated Wastewater,” 35 Ill. Adm. Code: Subtitle C, Part 372 will principally govern the submission.

   Depending on the situation and constituents to be monitored, the monitoring well design will vary. It is recommended that the Illinois EPA Groundwater Section, (217) 785-4787, be contacted for advice and assistance in the design of monitoring wells.

5. Previous permit numbers must be included, if available, for solid waste hauled to landfills and for treatment works given pre or complete treatment to the wastewater which this permit covers or other wastewater from the same property.

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6. Safety Precautions: Supplemental safety precautions and operating practices included in a design to prevent ground and surface water pollution should be indicated. If all of the considerations are listed in 4.0 above, so indicate.

7. The Illinois Pollution Control Board Regulations, 35 Ill. Adm. Code 312.101 indicates requirements for Operator Certification.

FOR IEPA USE:
LOG #
DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62706

**SCHEDULE H SPRAY IRRIGATION**

1. NAME AND LOCATION: Name of project _____

2. Submit design report as specified in Part 372, Illinois Design Standards for Slow Rate Land Application of Treated Wastewater.

3. SOURCES AND TYPES OF WASTES:

   3.1 Describe Sources of Wastewater:

   3.2 Treatment Prior to Spray Irrigation: Submit the appropriate Schedules D, E and/or J.

   3.3 Submit Schedule N.

   3.4 Land Area _____ acres, Maximum slopes _____ %.

   3.5 Design Application Rate _____ inches/unit time.

   3.6 Total Flow _____ GPD.

4. BASIS OF DESIGN AND OPERATION: Submit a narrative description of this disposal operation.

5. Provide IEPA Permit Numbers for all solid, waste disposal or wastewater treatment works located at the site of this facility.

   _____ _____

   _____ _____

6. SAFETY PRECAUTIONS: Describe supplementary operating practices and design features to prevent ground and/or surface water pollution.

7. SPRAY IRRIGATION (TREATMENT WORKS) OPERATOR: List names and certification number of operators;

This Agency is authorized to require this information under IllinoisRevised Statutes, 1979, Chapter 111 1/2, Section 1039, Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.