

**Instructions for Application for Construction/Operation Permit for Industrial
Treatment/Pretreatment Works
Schedule J**

This application form is intended for applications for Permits or Authorizations to Construct or Permits to Operate industrial treatment works or pretreatment works. Schedule J must be submitted with a WPC-PS-1 Form.

All blanks must be filled. When the question is not applicable to your project write "not applicable" or "N.A."

- 1.1 The name of the project must be the same as that indicated in WPC-PS-1.
 - 1.2.1 Give the location of the discharge point to the nearest quarter section including section, township, range and principal meridian.
 - 1.2.2 Give the location of the discharge point and degrees, minutes, and seconds by interpolation from a quadrangle map.
 - 1.2.3 Name of U.S. Geological Survey Quadrangle Map used in making above determinations.
2. Such a description and schematic waste flow diagram should show the flow of the water from the source to the treatment works. The diagram should specifically include both routine and potential sources of contamination. It may be that information included for this subject could be included on the schematic diagram required in Part 3 below. If this is the case, so indicate and do not duplicate other information provided.
 - 3.1 A schematic wastewater flow diagram must be submitted. It should generally conform to the following description:

A line drawing of waste water flow through the facility producing the proposed discharges. Average flow rates should be shown for various waste waters. Specific treatment processes are to be indicated.

A location map is also required. The map should generally conform to the following:

A map showing the location of each discharge structure including any and all outfall devices, dispersive devices, and non-structural points of discharge. The usual meridian arrow showing north as well as the map scale must be shown. On all maps of rivers, the direction of the current is to be indicated by an arrow. Preferably this location map should be done on a copy of U.S. Geological Survey Quadrangle Map for the area involved.

Plans and specifications: For instruction on completion or plans and specifications please refer to the instructions for Schedule D Treatment Works Item 3.
4. Receiving Stream: Please refer to the instructions on receiving stream for Schedule D - Item 4. If the industrial waste treatment or pretreatment is tributary to a municipal sanitary, storm, or combined sewer, signatures of the appropriate municipal or sanitary district official should be provided on Form WPC-PS-1 in Items 5.5 and 5.6 and a current copy of the industrial waste ordinance must be provided.
5. The Agency's design criteria mandates that waste treatment facilities shall be located at an elevation which is not subject to flooding or otherwise be adequately protected against flood damage. Therefore, it will not be acceptable to include in a design the possibility of the waste treatment facilities being subject to flooding at any time regardless of the extent of the flooding.
6. The approximate time schedule is requested to allow the scheduling of Agency field engineering personnel to begin visits to the waste treatment facility site. The date of completion and the date of operation are expected to be essentially the same. The 100 percent design load to be reached by the year indicated is essentially the design year at which time additional facilities must be provided to treat additional waste load to the treatment plant if necessary.
 - 7.5 Contact the Illinois Water Survey in Urbana.
 - 7.6 See the definition of dilution ratio in Chapter 3 Illinois Pollution Control Board Regulations.
 - 8.1.2 Use maximum daily flow for last twelve months.
11. Rule 601(a) of the Illinois Pollution Control Board Chapter 3 Regulations indicates that all treatment works and associated

facilities shall be so constructed and operated as to minimize violations of the applicable standards during such contingencies as flooding, adverse weather, power failure, equipment failure, or maintenance through such measures as multiple units, holding tanks, duplicate power sources or other measures.

12. A Schedule G is necessary if sludge must be disposed of from this facility.
13. Submit Schedule N. Use the instructions for Schedule N for completing the information required.
14. The requirements for Operator Certification are given in Part 12 of Chapter 3 Illinois Pollution Control Board Regulations.

FOR IEPA USE:
LOG #
DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION

Springfield, Illinois 62706

SCHEDULE J INDUSTRIAL TREATMENT WORKS CONSTRUCTION OR PRETREATMENT WORKS

1. NAME AND LOCATION:

- 1.1 Name of project _____
- 1.2 Plant Location
- 1.2.1 _____
- | | | | | |
|---------|---------|----------|-------|-------|
| Quarter | Section | Township | Range | P.M. |
| _____ | _____ | _____ | _____ | _____ |
- 1.2.2 Latitude _____ deg. _____ min. _____ sec. "NORTH
- 1.2.3 Longitude _____ deg. _____ min. _____ sec. "WEST
- 1.2.3 Name of USGS Quadrangle Map (7.5 or 15 minute) _____

2. NARRATIVE DESCRIPTION AND SCHEMATIC WASTE FLOW DIAGRAM: (see instructions)

2.1 PRINCIPAL PRODUCTS:

2.2 PRINCIPAL RAW MATERIALS:

3. DESCRIPTION OF TREATMENT FACILITIES:

- 3.1 Submit a flow diagram through all treatment units showing size, volumes, detention times, organic loadings, surface settling rate, weir overflow rate, and other pertinent design data. Include hydraulic profiles and description of monitoring systems.
- 3.2 Waste Treatment Works is: Batch _____, Continuous _____, No. of Batches/day _____, No. of Shifts/day _____
- 3.3 Submit plans and specifications for proposed construction.
- 3.4 Discharge is: Existing _____; Will begin on _____.

4. DIRECT DISCHARGE IS TO: Receiving Stream _____ Municipal Sanitary Sewer _____ Municipal storm or municipal combined sewer _____
- If receiving stream or storm sewer are indicated complete the following:
- Name of receiving stream _____; tributary to _____;
- tributary to _____; tributary to _____;

5. Is the treatment works subject to flooding? Yes _____ No _____ If so, what is the maximum flood elevation of record (in reference to the treatment works datum) and what provisions have been made to eliminate the flooding hazard?

6. APPROXIMATE TIME SCHEDULE: Estimated construction schedule:

Start of Construction _____; Date of Completion _____

Operation Schedule _____; Date Operation Begins _____

100% design load to be reached by year _____.

7. DESIGN LOADINGS

- 7.1 Design population equivalent (one population equivalent is 100 gallons of wastewater per day, containing 0.17 pounds of BOD₅ and 0.20 pounds of suspended solids);
- BOD _____; Suspended Solids _____; Flow _____.
- 7.2 Design Average Flow Rate _____ MGD.

- 7.3 Design Maximum Flow Rate _____ MGD.
- 7.4 Design Minimum Flow Rate _____ MGD.
- 7.5 Minimum 7-day, 10-year low flow _____ cfs _____ MGD.
 Minimum 7-day, 10-year flow obtained from _____
- 7.6 Dilution Ratio _____; _____.
8. FLOW TO TREATMENT WORKS (if existing):
- 8.1 Flow (last 12 months)
- 8.1.1 Average Flow _____ MGD
- 8.1.2 Maximum Flow _____ MGD
- 8.2 Equipment used in determining above flows
9. Has a preliminary engineering report for this project been submitted to this Agency for Approval?
 Yes No . If so, when was it submitted and approved. Date Submitted _____
 Certification # _____
 Dated _____
10. List Permits previously issued for the facility:
11. Describe provisions for operation during contingencies such as power failures, flooding, peak loads, equipment failure, maintenance shut downs and other emergencies.
12. Complete and submit Schedule G if sludge disposal will be required by this facility.
13. WASTE CHARACTERISTICS: Schedule N must be submitted.
14. TREATMENT WORKS OPERATOR CERTIFICATION: List names and certification numbers of certified operators: