



Iowa Department of Natural Resources  
 Wastewater Section  
 Construction Permit Application  
**SCHEDULE S, Land Application of Wastewater**

**DNR USE ONLY**  
 Project No. \_\_\_\_\_  
 Permit No. \_\_\_\_\_

Date Prepared _____	Project Identity
Date Revised _____	

- Land Application Location County: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_  
 Is this a:  New Site  Existing Site  Expansion of Existing Site
  - Total area of land available: \_\_\_\_\_ acres General slope of land \_\_\_\_\_ % Maximum slope \_\_\_\_\_ %
  - Type primary land use \_\_\_\_\_
  - Will site be accessible via all-weather accessible road?  Yes  No
- Does the project lie in a flood plain?  Yes  No  
 Elevation of 100 year flood (MSL): \_\_\_\_\_ Elevation of 25 year flood (MSL): \_\_\_\_\_
- Minimum depth to high water table: \_\_\_\_\_
- Describe geology of area: \_\_\_\_\_
- Describe soil conditions: \_\_\_\_\_ Soil pH: \_\_\_\_\_
- State the minimum distances and directions from land application site to:
  - Public shallow wells \_\_\_\_\_
  - Public deep wells \_\_\_\_\_
  - Private wells \_\_\_\_\_
  - Inhabitable residences, commercial buildings, or other inhabitable structures \_\_\_\_\_
  - Lakes and public impoundments \_\_\_\_\_
  - Property lines and public road rights-of-way \_\_\_\_\_
  - Flowing stream \_\_\_\_\_
  - Public lake or impoundment used as potable water source \_\_\_\_\_
  - Tile line surface intake; down-grade from application area \_\_\_\_\_
- Will warning signs be provided at 500 foot maximum intervals?  Yes  No  
 If no, explain: \_\_\_\_\_
- Direction of prevailing winds: \_\_\_\_\_
- Is land area available for expansion?  Yes  No If yes, how much? \_\_\_\_\_  
 Description of expansion area? \_\_\_\_\_ Property Owner: \_\_\_\_\_
- Method of Land Application:  Pivot System  Surface  Overland Flow  Other: \_\_\_\_\_
- Monitoring wells: Up-gradient #: \_\_\_\_\_ Down-gradient #: \_\_\_\_\_
- Is data from wastewater analysis available?  Yes  No
- Number of storage structures: \_\_\_\_\_ Total storage capacity: \_\_\_\_\_ gallons
- Land Application hydraulic loading rate: \_\_\_\_\_ gallons/year/acre
- Land Application nutrient loading rate: Nitrogen \_\_\_\_\_ lbs/acre, Phosphorus: \_\_\_\_\_ lbs/acre, Other: \_\_\_\_\_
- Is site located near karst or sinkhole area?  Yes  No If yes, how many feet from the nearest sinkhole? \_\_\_\_\_
- Is site accessed or used by the public?  Yes  No  
 If yes, describe pathogen treatment and site access restriction requirements. Attach additional information as necessary.
- Does the facility have a soil amendment certification from the Iowa Department of Agriculture (IDALS)?  Yes  No  
 If yes, include the certification number: \_\_\_\_\_

Complete separate Schedule S for each separate project site.

## Instructions for Schedule S

1. Self-explanatory.
2. Self-explanatory.
3. Indicate minimum depth to typical wet weather groundwater level.
4. Description of landforms and geologic features of the site. Include depth to bedrock, presence of impermeable layers.
5. List dominant soil type, hydrologic class, saturated conductivity, and salinity classification in accordance with Iowa Wastewater Design Standards Chapter 21.1.3.1.
6. Self-explanatory.
7. Self-explanatory.
8. Self-explanatory.
9. Self-explanatory.
10. Self-explanatory.
11. Self-explanatory.
12. Wastewater analysis data from laboratory testing should be provided with parameters listed in Iowa Wastewater Design Standards Chapter 21.1.4 and 21.1.2.2.
13. Self-explanatory.
14. Determine in accordance with Iowa Wastewater Design Standards Chapter 21.1.6.1 including restrictions specified in Iowa Wastewater Design Standards Chapter 21.2.7.
15. Determine in accordance with Iowa Wastewater Design Standards Chapter 21.1.6.2.
16. Self-explanatory.
17. Self-explanatory.
18. Self-explanatory.