



Iowa Department of Natural Resources
Wastewater Section
Construction Permit Application
SCHEDULE R2A, Low Rate Land Application of Sludge, Part I

DNR USE ONLY
Project No. _____
Permit No. _____

Date Prepared _____	Project Identity
Date Revised _____	

- How will this sludge be stabilized? _____
- Will this sludge be made available to persons for their own use or to persons for sale or distribution to others for residential type uses or for application to land engaged in growing food crops which may be consumed raw or made available to the public in a raw or unprocessed form? Yes No If yes, provide by attachment information detailing type of food crop(s) expected along with any other pertinent information concerning the crop's processing and intended use.
- a. Has the wastewater influent to the treatment plant been analyzed to determine if any industrial wastewater sources exist which may contribute significant quantities of potentially hazardous chemicals or other toxic substances to the treatment plant? Yes No Attach a copy of the wastewater analysis.
- b. Provide the concentrations of the sludge constituents listed below, also, list any other potentially hazardous chemicals or toxic substances that are found in the sludge. Do any concentrations exceed the permissible levels?

Constituent	Actual Level*	Permissible Level*	Excessive?	
			Yes	No
Total nitrogen (N total)	_____	≤ 10%	<input type="checkbox"/>	<input type="checkbox"/>
Total phosphorus (P total)	_____	≤ 6.9%	<input type="checkbox"/>	<input type="checkbox"/>
Total potassium (K total)	_____	≤ 0.9%	<input type="checkbox"/>	<input type="checkbox"/>
Arsenic (As)	_____	≤ 50 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium (Cd)	_____	≤ 15 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Chromium (Cr)	_____	≤ 1,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Copper (Cu)	_____	≤ 1,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Lead (Pb)	_____	≤ 1,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Mercury (Hg)	_____	≤ 10 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Nickel (Ni)	_____	≤ 200 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Zinc (Zn)	_____	≤ 2,000 mg/kg	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	_____	≤ Level of toxicity to be determined by the director of the DNR		
_____	_____	≤		
_____	_____	≤		

*Levels specified are on a dry weight basis

- Name of laboratory that performed wastewater and sludge analysis _____
Location of laboratory _____
Is the laboratory approved by the State Hygienic Laboratory? Yes No
Were test procedures conducted in accordance with acceptable methods as required under subrule 567-121.3(1)d(2) of the Iowa Administrative Code? Yes No
- By attachment, provide a copy of the long-range program for low rate land application of sludge. Attached program must address the points as outlined in subrule 567-121.3(1)d(3) of the Iowa Administrative Code.
- Is or will any additional sludge storage, handling, or disposal facilities be required? Yes No
If yes, what necessary actions are being undertaken to fill the additional needs?

- Will records of sample analysis and sludge disposal operations be maintained? Yes No