



The National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Permit Program regulates wastewater discharges to land and surface waters. This form applies to municipal and sanitary sewer district facilities that generate biosolids, privately owned facilities with a mechanical wastewater treatment component that generates biosolids (i.e., "fast" systems), and industrial permittees that have a separate domestic wastewater treatment facility.

Complete the attachment by typing or printing in black ink. Attach additional sheets as necessary. For more information, please contact the Minnesota Pollution Control Agency (MPCA) at: In Metro Area: 651-296-6300 or Outside Metro Area: 800-657-3864.

Facility Information

Permittee name: _____ Permit number: MN

Biosolids Production

Total U.S. dry ton estimate based on gallons or wet tons per latest 365-day time period and percent total solids.

1. How many gallons or wet tons produced? _____ ☐ gallons or ☐ wet tons (choose one)
2. What is the percent of total solids? _____
3. How many dry tons are produced by permittee? _____
4. How many dry tons are produced by others? _____
5. Estimated dry tons received from off site, include septage: _____
6. Total dry tons: _____

*To calculate dry tons: Gallons x percent of Total Solids (decimal) divided by 240 for liquid biosolids
Wet tons (wet weight) x percent of Total Solids (decimal) for dewatered biosolids*

Biosolids Use or Disposal

Indicate the amount in U.S. dry tons for each chosen alternative listed below:

- ☐ Land applied as Class A or B: _____ ☐ Distributed or marketed for land application as EQ Biosolids:* _____
If land applied, who is the Type IV Certified Operator? _____
Certification number: _____ Expiration date: _____
Telephone: _____ E-mail: _____
If land applied, when will biosolids be applied to sites? (i.e., monthly) _____
- ☐ Land filled: _____
Contact person at Receiving Facility: _____
Telephone: _____ E-mail: _____
- ☐ Transferred to another facility: _____ Receiving Facility: _____
Contact person at Receiving Facility: _____
Telephone: _____ E-mail: _____
- ☐ Incinerated: _____

Treatment Processes – How is pathogen reduction (PR) Met? (choose all that apply)

Class A Options***	Class B Options
<input type="checkbox"/> Option 1A Time and temperature \geq 7% TS	<input type="checkbox"/> Option 1 Fecal Indicator Organism testing
<input type="checkbox"/> Option 1B time and temperature \geq 7% TS, small particles and heat dryers	<input type="checkbox"/> Option 2, PSRP Anaerobic Digestion
<input type="checkbox"/> Option 1C Time and temperature < 7% TS treated for less than 30 minutes	<input type="checkbox"/> Option 2, PSRP, Aerobic Digestion (to meet PR, these digesters must be heated)
<input type="checkbox"/> Option 1D Time and temperature < 7% TS treated for at least 30 minutes	<input type="checkbox"/> Option 2, PSRP Air Drying, conventional drying beds
<input type="checkbox"/> Option 2 High pH- High temperature alkaline process (basically the N-Viro process)	<input type="checkbox"/> Option 2 PSRP Composting

List of options continues on page 2.

Class A Options***	Class B Options
<input type="checkbox"/> Option 5 PFRP Composting	<input type="checkbox"/> Option 2 PSRP Lime Treatment
<input type="checkbox"/> Option 5 PFRP Heat Drying – dryers	
<input type="checkbox"/> Option 5 PFRP Heat Treatment	Septage classified as biosolids:
<input type="checkbox"/> Option 5 PFRP ATAD	<input type="checkbox"/> Inject or incorporate within 6 hours
<input type="checkbox"/> Option 5 PFRP Pasteurization	<input type="checkbox"/> Lime Treatment

PSRP = Process to Significantly Reduce Pathogens PFRP = Process to Further Reduce Pathogens TS = Total Solids

* If Exceptional Quality (EQ) biosolids are prepared for distribution or marketing, are you applying for “deregulation of the product with this permit?” ☐ Yes ☐ No. If yes, complete additional information required for EQ biosolids on page 3

Note: Deregulation is not permitted for liquid Exceptional Quality (EQ) biosolids.

** For each chosen option, select the appropriate Engineering Checklist, fill out and attach it to the permit application form if not already submitted to the MPCA previously for other reasons.

*** Options 1A, 1B, 1C, and 1D apply to batch or plug flow processes and temperature of the particles not air, however, 1B does assume small particles and effective heat transfer throughout particles as in the PFRP option for heat dryers. [Option 1A has is based on high solids fluid – i.e. eggnog.]

Treatment Processes – How is vector attraction reduction (VAR) Met? (choose all that apply)

- ☐ Option 1 Volatile solids Reduction, minimum 38% over biosolids treatment process
- ☐ Option 2 Extended Anaerobic Bench Scale test
- ☐ Option 3 Extended Aerobic Bench Scale test
- ☐ Option 4 Specific Oxygen Uptake Rate test (SOUR test)
- ☐ Option 5 Aerobic, high temperature - Composting
- ☐ Option 6 Lime or Alkaline stabilization
- ☐ Option 7 Dried to 75% TS – for stabilized solids
- ☐ Option 8 Dried to 90% TS – for primary solids
- ☐ Option 9 Injected
- ☐ Option 10 Incorporated within 6 hours of application

Describe and provide a diagram of the biosolids treatment processes and storage facilities.

A topographic map of the treatment or storage facility *extending one mile beyond the property boundary*, showing the location of any biosolids management facilities, or sites and bodies of water. Show the location of any wells known by the applicant or in public record used for drinking water within one-quarter mile of the treatment facility boundary.

Off site storage is permitted by individual permit or incorporated into your NPDES/SDS Permit. See below for additional permit application information.

For a central or regional treatment or storage facility for biosolids or septage that intends to land apply the product, describe the sources of all waste contributions expected to be treated.

Representative sampling: For biosolids that are land applied and for biosolids that are stored for more than two years and then land applied, describe from where and how representative samples will be taken for land application events and/or to track quality of biosolids each year they are stored. **Attach** most recent analysis of biosolids.

For biosolids generated in septic tanks - analysis: Describe the size and location of the septic tanks and a description of any commercial (such as a restaurant) or industrial discharges to the treatment works. The commissioner will determine and notify the permit applicant if an analysis is required (Minn. R.7041.0700, subp. B.).

Review the attachment and ensure all requested items are submitted with this attachment.

Please make a copy for your records.

Refer to the *Transmittal Form* for mailing instructions.

Additional Information for Exceptional Quality [EQ] Biosolids Proposed for Distribution or Marketing - "Deregulated Biosolids."

Minnesota Rule does not provide for an automatic "deregulation" for EQ biosolids. Whether or not a biosolids product is "deregulated" is based on the type of product and its proposed distribution. In general, this applies to dewatered biosolids products. "Deregulation" and any applicable conditions are contained in the permit specific to the product and distribution by the permittee. If the **permittee** also intends to mix the EQ product with any other material, the preparation of a material derived from biosolids must also be described in the permit application. It will be reviewed for technical soundness [of specific concern is pathogen control]. The preparation of the material derived from biosolids and quality control will be covered in the permit if necessary.

EQ biosolids permit additional application requirements: Minn. R. 7041.0700

Submit a management plan that describes how the person who prepares the biosolids will ensure that the proposed distribution or land application of the biosolids meets the requirements of Minn. R. 7041. Include and discuss the following on an additional sheet of paper:

- A copy of any permits issued to the applicant which contain conditions for the treatment of biosolids which are not issued by the MPCA.
- The proposed method of use and distribution of the biosolids.
- A copy of any labels or information sheets to be supplied to users or distributors of the biosolids, if applicable.
- The quantity of biosolids to be transported and the transportation schedule.
- What information will be submitted on the annual report and when the annual report will be submitted.

Additional Information for off site storage of biosolids and/or centralized treatment or storage of septage that will be land applied.

Storage permit application requirements: Minn R. 7041.0700, Item J

- The location on a topographic map depicting the area one mile beyond the proposed location.
- The size of the storage facility or area.
- The type of biosolids or septage to be stored or treated.
- Operating conditions for receiving and removing biosolids or septage and handling spills if liquids are stored.