



Plan Approval - Management Plan For Sludge or Industrial Byproducts other than Treated Sewage

Note: This form, with the attachments indicated, is intended to serve as the main substance of the management plan. If you prefer to submit a separate and complete document to serve as your management plan, then to respond to a question where a description or calculation is requested (such as Items C.1 through C.4), simply enter the page numbers of the submitted plan where the information requested can be found. Please respond on this form when just a check mark or brief statement is requested.

FOR AGENCY USE ONLY	
Application Number:	Date Received: / /

Applicant:
Facility Owner:
Application/Plans Prepared by:
Project Name:

A. Background Information
a. Briefly describe type and source of material to be land applied:
b. Briefly describe proposed uses of materials (agronomic uses, soil blends, structural fill, etc.):
c. Existing Plan Approval number: _____ <input type="checkbox"/> N/A

B. Generating Facility	<input type="checkbox"/> N/A
a. Amount of sludge/byproduct generated _____ dry tons/year	
b. Amount proposed for beneficial use _____ dry tons/year	
c. Disposal method for amount not used _____	
d. Storage capacity at facility: _____ days	

C. Land Application (If N/A, Skip to D)	<input type="checkbox"/> N/A
a. Use category of land application area (check all that apply): <input type="checkbox"/> Unrestricted Access site <input type="checkbox"/> Restricted Access site	
b. Quantity of material to be land applied: _____ Inches/acre/year (annual average-liquid) _____ Dry tons/acre/year (annual average-sludge)	
c. Does the land application area have subsurface drains/tiles located less than 24 inches below natural grade? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown at this time	
d. Amount of land area available for land application if known (do not include buffer zones in the figure) _____ acres	
e. Maximum slope of land to be used for land application = _____ %	
f. Type(s) of crops or vegetation to be grown on land application area:	

C.1 Describe the method or methods used for the storage and land application of sludge/other byproducts (including detailed information about the distribution system):

C.2 State what the maximum land application rate(s) are proposed to be and the total acres required and available for land application. Attach calculations and references showing how the application rates and acreage needs were determined.

C.3 Describe the monitoring of the material to be land applied and the soils in the land application area(s), including frequency, methods and parameters that will be measured in each:

C.4 Describe the appropriate weather conditions required for the land application of sludge/other byproducts and how they will be determined and documented:

C.5 Check which land application activities listed below are proposed. If yes, please explain how runoff, ponding or discharges to waters of the state will be prevented (attach separate pages as needed).

- | | |
|---|--|
| Do you propose to land apply during precipitation events?
If yes , please explain: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Do you propose to spray irrigate when instantaneous wind speeds exceed 20 miles per hour?
If yes , please explain: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Do you propose to land apply within 10-year floodplain?
If yes , please explain: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Do you propose to land apply in wetlands?
If yes , please explain: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Do you propose to land apply where the land application contract is expired or void?
If yes , please explain: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Do you propose to land apply when the ground is saturated at or near the surface?
If yes , please explain: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Do you propose to land apply where there is at less than 12 inches between final grade and bedrock, sand or gravel lenses, compacted glacial till, and/or normal ground water elevation?
If yes , please explain: | <input type="checkbox"/> Yes <input type="checkbox"/> No |

C.6 List setback distances that will be observed for all of the following:

Ditches/Streams/Waterways: _____ feet	Private Water Supply Well: _____ feet
Residences/Business: _____ feet	Public Water Supply Well: _____ feet
Sinkholes: _____ feet	Public Surface Drinking Water Intake: _____ feet
Pond or Lake: _____ feet	Other: _____ feet

Attach additional pages if different setbacks are proposed for different methods of application (e.g. greater setbacks should be observed for surface application than injection).

C.7 Land application on frozen/snow-covered ground is not recommended. If land application on frozen/snow-covered ground is proposed, please indicate which of the following practices will be used to minimize pollutant discharges or nuisances:

- Application rate is limited to 10 wet tons/acre for solid materials (50% moisture or more) and 5 wet tons/acre for material less than 50% moisture. For liquids the application rate is limited to 5,000 gallons/acre.
- Applications will be made on land with at least 90% surface residue cover.
- Material shall not be land applied on more than 20 contiguous acres, separated by breaks of at least 200 feet.
- Application setbacks shall be increased to at least 200 feet from all grassed waterways, drainage ditches, streams, surface inlets, and water bodies.
- The rate of application will not exceed: _____ lbs Nitrogen/acre or _____ lbs Phosphorus/acre
- Application will not take place on slopes greater than 6% unless material is applied in alternating strips less than 200' wide generally on the contour, or in the case of contour strips, on alternating strips.

If any of these practices are not proposed to be followed, please attach a description of how pollutant discharges will be minimized during application on frozen/snow covered ground.

C.8 Describe or list any other practices that will be used to minimize pollutant discharges or nuisances:

C.9 Land Application Records

How will land application information be recorded? :

- Ohio EPA's Land Application Record Form Our Own Land Application Record Form (attached)

Where will the records be kept? :

C.10 Application Site Map (If known)

a. A map locating each land application site shall be attached. Each site shall be labeled "Restricted access site" or "Unrestricted access site". The map(s) should show the following items and are considered part of this plan:

- All present and known proposed occupied buildings within 300 feet of the land application area.
- All present and known proposed non occupied buildings within 300 feet of the land application area.
- All present and known proposed public and private water supply wells within 1,000 feet of the land application area.
- All sinkholes and waters of the state (including ditches, grass waterways, streams and rivers) within 200 feet of the land application area.
- All public surface drinking water supply intakes within 1500' of the land application area.
- All present and known proposed developments and public access areas within 300 feet of the land application area.

b. If the land application site(s) are not known, will site maps be submitted before land application starts? Yes No

D. Other Beneficial Uses

1. Is this material one of the following:
- Spent Foundry Sand
 - Bottom Ash From Coal Combustion
 - Fly Ash
 - Steel Slag
 - Sludge
 - Other:
2. If the material is "Other", have you contacted Ohio EPA to discuss the applicable regulations? Yes No
3. Is a comprehensive management plan attached for uses other than land application? Yes No

E. Miscellaneous Information:

The following items shall be included with this land application management plan:

- Two copies of the Permit-to-Install/Plan Approval Application Form A or the NPDES Permit Application.
- If applicable, two copies of the site and soil evaluation(s) (For renewal applications, this is only needed if additional or different areas)
- One copy of the sampling results for the material to be beneficially used (the most recent, but no older than one year).
- Four copies of this management plan and any attachments or Four copies of a separate/complete management plan.
- Fee check payable to "Treasurer, State of Ohio."

The following additional information is included with this form:

F. The foregoing data is a true statement of facts pertaining to this proposed management plan.

Printed (Person Preparing Plan):

Title:

Signed:

Date: / /