



Sludge Site Authorization Packet for Non-EQ Sewage Sludge

General Instructions - Sludge Site Authorization Packet for Non-EQ Sewage Sludge

Site authorization **must** be requested for each site proposed for sewage sludge land application. A site may consist of more than one field.

Read the following instructions carefully. These instructions should not be submitted with the application forms. Please retain them for future reference. Included with these instructions is a Nitrogen Agronomic Rate Worksheet, which should not be submitted with the application forms.

The following forms, with support documentation, should be submitted as an application packet:

- Sludge Generator Summary (Form SSA-1)
- Landowner Consent for Sludge Application (Form SSA-2)
- Farm Operator Request and Consent for Sludge Application (Form SSA-3)
- List of Fields (Form SSA-4)
- Field Identification (Form SSA-5)
- Field Soil Analysis (Form SSA-6)

The first three forms are related to the overall property. Only one copy of these forms needs to be submitted. The latter three forms relate to each individual field that may receive sewage sludge. One set of these forms must be submitted for **each** field. Copy the blank forms as needed.

Definitions - Sludge Site Authorization Packet for Non-EQ Sewage Sludge

The following terms are defined to make the application clearer and easier to complete:

Land Owner:	The person who owns the legal rights to the property (pays taxes on the property).
Farm Operator:	The person who grows and manages the crops on the property.
Applicator:	The entity who applies the sludge to the property.
Farm:	The total property receiving the sludge, which may or may not contain more than one site or one field.
Authorized site:	An area of land bordered by fences, tree lines, streams, roads, or other means of demarcation, upon which sewage sludge is land applied.
Vicinity Map:	A portion of a United States Geological Survey 7.5 minute series topographic quadrangle map, scale 1:24,000 map which indicates the location of the field with respect to nearby highways and towns.
Soil Map:	A map which indicates the different types of soils present on the site. Soil maps may be obtained from the local Natural Resources Conservation Service office.
CPLR Sludge:	A sludge with a metals concentration which exceeds the Pollutant Monthly Average Concentrations of paragraph 3745-40-05(F)(3) of the Ohio Administrative Code, but which meets the Pollutant Ceiling Concentration requirements of paragraph 3745-40-04(F)(1) of the Ohio Administrative Code.
Isolation distance:	The distance to a specified object from the nearest edge of the sewage sludge application area (see Chapter 3745-40-04(N) of the Ohio Administrative Code).
Agronomic rate:	The whole sewage sludge application rate (dry weight basis) intended to provide the food crop, feed crop, fiber crop, cover crop, pasture, or vegetation the appropriate nitrogen for the reasonably expected yield, and to minimize the amount of nitrogen in the sewage sludge that passes to waters of the state.
Crop year:	The period of time for a particular crop to be planted and harvested, or one year's time, whichever is shorter.
Division:	The Ohio Environmental Protection Agency, Division of Surface Water, with any approvals or authorizations manifested through its Chief.

Detailed Instructions - Sludge Site Authorization Packet for Non-EQ Sewage Sludge

Use the checklist below to insure that all the necessary items are included. Incomplete packets **will not** be reviewed and will be returned to you for completion. All forms must be typed or printed clearly in ink. Word processor files of this packet may be requested via e-mail at the following address: chris.bowman@epa.state.oh.us .

- 1. Complete all information in the **Sludge Generator Summary** (form SSA-1).

- 2. Complete all landowner information in the **Landowner Consent For Sludge Application** (form SSA-2) and have the land owner of the property sign and date the form.

- 3. Complete all farm operator information in the **Farm Operator Request And Consent For Sludge Application** (form SSA-3) and have the farm operator of the property read, sign and date the form.

- 4. List all the field names for the site on the **List of Fields** (form SSA-4). **Do not** fill in the OEPA Site #, it will be completed by the OEPA upon authorization. Sites that do not get authorized will not receive an OEPA Site #, and will be left blank.

- 5. Complete the information on the **Field Identification** (SSA-5) for each field included on the **List of Fields** (form SSA-4). **Do not** fill in the OEPA Site #. Note special instructions on application rates (a Nitrogen Agronomic Rate Worksheet is included with these instructions).

- 6. Include a vicinity map for each field and insert them after the appropriate **Field Identification** (form SSA-5). Identify the mapped fields with the same field names as were used on the **List of Fields** (form SSA-4). The maps should be 8 ½-inch by 11-inch copies of the appropriate United States Geological Survey 7.5 minute series topographic quadrangle map, scale 1:24,000 (1-inch equals 2,000-feet). Identify the county where the field is located, and the name of the quadrangle map from which the vicinity map (or majority of the vicinity map where overlap occurs) was obtained. USGS 7.5 minute series maps can be ordered from the Ohio Department of Natural Resources from the following website: <http://www.ohiodnr.com/geosurvey/pub/usgstopo.htm>. Another source

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for USGS topos are local Soil and Water Conservation District offices.

Alternatively, vicinity maps may be generated from the following websites:

<http://www.topozone.com/>, and

<http://terraserver.homeadvisor.msn.com/default.asp>

The “Advanced Find” feature of the Terraserver site allows entry of an address to bring up an aerial photograph of a field. Once the field is located another feature of the site will switch the background to the USGS topo for that field.

There may be other similar sources for maps. The Ohio EPA requests vicinity maps be produced using this type of map source to enable a more efficient development of a GIS for the land application part of Ohio EPA’s sewage sludge program.

7. Show the following features on the vicinity map for each field:

- (1) Isolation distances from any waters of the state
- (2) Isolation distances from any occupied building
- (3) Isolation distances from any medical care facility
- (4) Isolation distance from any private potable water source
- (5) Isolation distance from any sinkhole or UIC Class V drainage well

[Note: Circumstances surrounding a field may change over time. New occupied buildings, wells, and other developments that require changes to existing isolation distances may occur. It is the responsibility of the sewage sludge generator, and their contractor, to note any changes that have occurred in the vicinity of an authorized site, and follow all required isolation distances accordingly. In other words, the isolation distances submitted with the site authorization application are a point in time, and subject to change.

8. The Division of Surface Water, in conjunction with the Division of Drinking and Groundwater, will determine if any of the proposed fields fall wholly, or partially, within a Groundwater Source Water Assessment and Protection area as described in paragraph 3745-40-04(O) of the Ohio Administrative Code.

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- 9. Complete all the information on the **Field Soil Analysis** (form SSA-6). Do not fill in the OEPA Site #. Background soil metals analysis is asked for to determine if previous unknown activity may have resulted in a contamination issue. Note: depth to bedrock information is available in county soil survey publications published by the United States Department of Agriculture, Natural Resources Conservation Service, in cooperation with the Ohio Department of Natural Resources and the Ohio Agricultural Research and Development Center.

- 10. Include a soil map of each field from appropriate soil survey publication as mentioned above. Include after the appropriate **Field Soil Analysis** (form SSA-6). If soil maps are unavailable, please indicate this on the form.

- 11. Check to insure that all forms are filled out completely, and that all required forms and maps are included in the packet.

Sludge Generator Summary - Sludge Site Authorization Packet for Non-EQ Sewage Sludge

Sludge Generator: _____

Address: _____

Phone No: (____) _____ - _____

Plant Superintendent: _____

NPDES Permit No: _____

Responsible Official: _____

Title: _____

Land Owner(s): _____

Farm Operator(s): _____

Applicator: _____

Address: _____

Contact: _____

Phone No: (____) _____ - _____

I hereby agree that all contents of this package are, to the best of my knowledge, true and accurate.

Responsible Official

Date

Title

Landowner Consent for Sludge Application - Sludge Site Authorization Packet for Non-EQ Sewage Sludge

Owner(s) Name(s): _____

Address: _____

Phone No: (____) _____ - _____

Farm Location: _____

Total Acres: _____ (Proposed for sludge application)

County: _____

Township: _____

1. I agree to allow sludge to be land applied to my property at agronomic rates.
2. I agree to allow federal, state and local regulatory staff access to my land for the purposes of inspecting and authorizing the site, applying sludge, obtaining samples from the site and testing. I reserve the right to ask the above parties for proper identification at any time.
3. This Consent may be terminated at any time by the landowner or farm operator.
4. I certify that I am holder of legal title to the above described property or am authorized by the holder to give consent for the land application of sludge and that there are no restrictions to the granting of consent under this form.

Owner Signature

Date

Title (If signing as the owners representative)

Farm Operator Request and Consent for Sludge Application - Sludge Site Authorization Packet for Non-EQ Sewage Sludge

Farm Operator: _____

Address: _____

Phone No: (____) _____ - _____

Farm Location: _____

Total Acres: _____ (proposed for sludge application)

County: _____

Township: _____

Crops: _____

I agree to be responsible for following the Site Restrictions of Chapter 3745-40-05(P) of the Ohio Administrative Code.

Farm Operator Signature

Date

(If signing as the farm operator's representative)

Field Identification - Sludge Site Authorization Packet for Non-EQ Sewage Sludge

Site#: _____
(OEPA Use Only)

Field Identification: _____

If known, Latitude: _____ Longitude: _____

Lat/Long reference point: _____

Has sludge been applied to this site since July 20, 1993 (Yes/No)? _____

If yes, list sources and years: _____

Do you know of any endangered species or endangered species habitats located on the land application site (Yes/No)? _____

If yes, what is the endangered species or habitat: _____

Example agronomic sludge application rate _____ dry tons/acre/crop year.

Copy Line No. 5.3 from the Water Environment Research Foundation worksheet in the space above. This worksheet is available on the Biosolids Program website below, or can be provided as a .pdf file by the Ohio EPA Sewage Sludge Management program.

http://www.epa.ohio.gov/dsw/sludge/estimating_N.aspx

Field Soil Analysis - Sludge Site Authorization Packet for Non-EQ Sewage Sludge

Site #: _____
(OEPA Use Only)

Field Identification: _____

Laboratory Name: _____

Lab Contact: _____

Phone No: (____) _____ - _____

Size of Site: _____ acres

Soil pH: _____ SU

Soil CEC: _____ meg/100g

Bedrock Depth: _____ feet

Phosphorus: _____ ppm Bray-Kurtz P1 / Mehlich 3 (circle one)

Please submit the following information if available (Include lab report if available).

Arsenic: _____ mg/kg

Cadmium: _____ mg/kg

Copper: _____ mg/kg

Lead: _____ mg/kg

Mercury: _____ mg/kg

Molybdenum: _____ mg/kg

Nickel: _____ mg/kg

Selenium: _____ mg/kg

Zinc: _____ mg/kg

Soil Map: Included Unavailable

Soil Type(s): _____