

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF POLLUTION CONTROL
SOLID WASTE AND MINING BRANCH**

PERMIT APPLICATION INFORMATION FOR LAND APPLICATION
FACILITIES WHICH WILL LAND APPLY MUNICIPAL
WASTEWATER SLUDGES ONLY

According to the Mississippi State Nonhazardous Waste Management Regulations, a permit is required to operate a land application facility. The completion of a permit application is required for permitting all new or expanded land application facilities. To apply for a land application permit, complete the attached permit application form and include all maps, engineering drawings and other required information and then submit it in a report format in a three-ring binder. Application shall be submitted in triplicate. Information/documentation pertaining to the permit application, but not part of the discussion (e.g., letters, calculations, reports, etc.) should be contained as appendices at the end of the appropriate part/section. All pages should list the date the submittal was prepared, the revision number, and page number. For example:

PREPARED: 2-29-1999
REVISION NO.: 0
PAGE: 1-1

Applications should be sent to the following appropriate address:

BY MAIL

**Mississippi Department of
Environmental Quality
Office of Pollution Control
Nonhazardous Waste Branch
P.O. Box 2261
Jackson, MS 39289-2261**

BY DELIVERY

**Mississippi Department of
Environmental Quality
Office of Pollution Control
Nonhazardous Waste Branch
515 East Amite Street
Jackson, MS 39204**

After a permit is issued for operating a land application facility, the permitted facility must be operated in accordance with all the applicable state regulations and requirements. Also, the operation of the permitted facility needs to be conducted in compliance with the standards for disposal of sewage sludge by land application as provided in the EPA final sludge regulations 40 CFR Part 503, a copy of which is also enclosed in this application information package.

The Office of Pollution Control (OPC) reserves the right to ask for additional information as determined necessary. Questions regarding land application facilities should be directed to the Nonhazardous Waste Branch Permitting Section at the telephone number (601) 961-5171.

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF POLLUTION CONTROL
SOLID WASTE AND MINING BRANCH
P.O. BOX 2261
JACKSON, MISSISSIPPI 39225-2261**

**APPLICATION FOR A PERMIT TO OPERATE A LAND APPLICATION FACILITY
WHICH WILL LAND APPLY MUNICIPAL WASTEWATER SLUDGES ONLY**

Part 1 General Data

1. Name of facility: _____

2. Name, address and telephone number of applicant:

(Name)

(Street address, P.O. Box, etc.)

(City) (State) (Zip)

Telephone number: _____

3. Name, address, and telephone number of contract operator (if not applicable, so indicate):

(Name)

(Street address, P.O. Box, etc.)

(City) (State) (Zip)

Telephone number: _____

4. Name, address, and telephone number of the landowner (if same as applicant, so indicate):

_____ (Name)

_____ (Street address, P.O. Box, etc.)

_____ (City) (State) (Zip)

Telephone number: _____

5. Attach a complete copy of the land deed, certified by the county clerk.
6. When the applicant intends to lease rather than own the land on which the site is located, a notarized statement signed by the owner of the land which acknowledges and concurs in the use of this property as a land application facility shall be attached to this application. (See Attachment A for form).
7. If the applicant or the contract operator (for commercial facilities only) is not a public agency, disclosure information must be included with the application, as required by Section 17-17-501 et seq., Mississippi Code of 1972. The disclosure statement must be submitted on forms supplied by the Department.

Part 2 Property Information and Maps

8. The proposed facility will be located in _____ County.
9. The total property consists of _____ acres and lies in the following topographic sections:

<u>Section</u>	<u>Township</u>	<u>Range</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

10. The actual area for land application (excluding buffer zones and other unused areas) consists of _____ acres.

11. Attach a United States Geological Survey (USGS) topographic quadrangle map of the area showing the following:
 - a. the property boundaries of the site;
 - b. the approximate land application area within the property boundary; and
 - c. the location of active/inactive hydrocarbon wells and water wells present within the land application area.

The map may be a high quality photocopy.

12. Is the property line buffer distance designated on the map less than 200 feet on any side?

yes no

If yes, attach documentation of compliance with Section III.T., of the State of Mississippi Nonhazardous Waste Management Regulations.

13. Is the proposed application area within 300 feet from any inhabited building?

yes no

If yes, attach documentation of compliance with Section VIII.D., of the State of Mississippi Nonhazardous Waste Management regulations.

14. Attach a property owners map indicating the immediately adjacent landowners to the site and a list of the complete names and addresses of the landowners.

Part 3 Local Government Regulation/Solid Waste Management Plans

15. Attach a letter from the appropriate County or City official confirming that the siting of the proposed facility will be in conformance with all local laws, regulations and ordinances, or that no such laws, regulations, or ordinances are applicable.
16. The proposed facility must be consistent with the approved local solid waste management plan, as submitted to the Department by the local solid waste management authority. Attach a copy of the page(s) of the plan which recognizes the operation of this facility. If the local solid waste management plan has not yet been approved for land application sites, no submittal is necessary. The Department should be contacted prior to addressing this item.

Part 4 Demonstration of Need

Section 17-17-229, Mississippi Code Annotated, requires each permit application to contain a demonstration of need which shall include the items *in italics* below. This may be achieved by answering questions in items 17 - 19 below.

- 17. *Verification that the facility for which the permit is sought meets the twenty year capacity needs identified in the county or regional nonhazardous solid waste management plan which shall take into account the quantities of municipal solid waste generated and the design capacities of existing facilities*

If the proposed facility is included in and consistent with the local solid waste management plan, then the facility meets the twenty year capacity needs. Is the proposed facility included in and consistent with the local solid waste management plan? yes no. If not, provide explanation on an attached sheet.

- 18. *Demonstration that the host jurisdiction and the jurisdiction generating the solid waste destined for the applicant's facility are actively involved in, and have a strategy for meeting the statewide waste minimization goal.*

Certification that the proposed service area of the facility is consistent with a local solid waste management plan.

Every approved local solid waste management plan has an approved waste minimization strategy included in the plan. If the jurisdiction (excluding out-of-state jurisdictions) generating the solid waste destined for the facility (the proposed service area) has an approved local solid waste management plan, the first requirement above is met. The service area for the proposed facility must be consistent with the service area as specified in the approved local solid waste management plan for this facility. List below the service area of the facility (by city, county and/or state):

- 19. *The extent to which the proposed facility is needed to replace other facilities.*

Many of the state's landfills were forced to close in 1993 and 1994 due to the Subtitle D regulations. Disposal at the remaining landfills became more expensive and in most cases, involved a long haul out of county. As a result, it has become economically and environmentally advantageous to find alternate or supplemental disposal/management methods for solid waste and rubbish waste. Is this situation representative for your proposed facility? yes no. If not, provide on an attached sheet a description of the extent to which the proposed facility is needed to replace other facilities.

Part 5 Plan of Operation

20. Attach a list of the anticipated sources of sludges.
21. Attach the type, description, and characteristics of the sludges to be land applied, and estimates of current and future quantities of sludges expected to be land applied at the proposed site.
22. Attach a plan of operation, at a minimum, to include the following items:
 - a. A list of the individual(s) responsible for managing the operation of the proposed facility;
 - b. Plans for prohibiting unauthorized wastes from entering the facility;
 - c. A narrative description of the operation from the point of waste unloading, through all steps of the land application of the proposed waste, to the point of growing crops. The plan must indicate that the application of waste will be confined within the designated application area;
 - d. A description of surface water control features, including run-on, run-off control systems and measures to prevent any washing or escape of waste from the property. No discharge of contaminated water shall occur unless specifically approved by the DEQ Surface Water Division;
 - e. Plans for installation of a sign to identify the site;
 - f. A list and description of all operating equipment to be used at the proposed facility;
 - g. Procedures for obtaining weight or volume measurements of waste entering the facility, and any waste quantities removed as being unacceptable. Also provide discussion of record keeping;
 - h. A description of the application method to be utilized;
 - i. Plans for testing, monitoring, recording and reporting; and
 - j. Description for site preparation, such as clearing and grubbing, berm construction, drainage control structures, access roads, screening, fencing, etc.

Part 6 Technical Information

- 23. Attach engineering drawings to include the following:
 - a. boundaries of the property;
 - b. buffer distances;
 - c. actual application area;
 - d. surface elevations;
 - e. location of the 100-year floodplain;
 - f. location of wetlands;
 - g. surface drainage feature including the general direction of flow;
 - h. roads; and
 - i. other physical characteristics of the proposed site.
- 24. Attach a description and characteristics of the surficial soil.
- 25. Attach soil analysis to include the following parameters:
 - a. pH
 - b. Nitrate
 - c. Total Arsenic
 - d. Total Cadmium
 - e. Total Chromium
 - f. Total Copper
 - g. Total Lead
 - h. Total Mercury
 - i. Total Molybdenum
 - j. Total Nickel
 - k. Total Selenium
 - l. Total Zinc
- 26. Submit data to describe the historic high water table at or in the vicinity of the proposed site.
- 27. Attach a site map designating the boundary lines of each field on which sludge will be applied, the number of acres of each field, and general use of each field (Cropland, Pastureland, etc.).
- 28. Attach the calculations for designing the sludge application rate (in dry tons/acre).

29. Attach the following for the sludges to be land applied from each source:

a. Typical sludge analysis for the following parameters:

- | | |
|-------------------------|----------------------|
| 1. pH | 9. Total Chromium |
| 2. Percent Solids | 10. Total Copper |
| 3. Total Nitrogen (TKN) | 11. Total Lead |
| 4. Ammonia Nitrogen | 12. Total Mercury |
| 5. Nitrate Nitrogen | 13. Total Molybdenum |
| 6. PCB | 14. Total Nickel |
| 7. Total Arsenic | 15. Total Selenium |
| 8. Total Cadmium | 16. Total Zinc |

Test parameters for nutrient and metal contents shall be calculated on a dry-weight basis.

- b. A description of the processes to reduce pathogens, utilized by each treatment plant. Also, mention whether the proposed sludge is Class A or Class B with respect to pathogens. In this regard, attach necessary documentation of compliance with the EPA sludge regulations 40 CFR 503.32.
- c. A description of the process to reduce vector attraction, utilized by each treatment plant. In this regard, attach necessary documentation of compliance with the EPA sludge regulations 40 CFR 503.33.

Part 7 Siting Requirements for Land Application Facilities

30. Is the proposed facility located within the 100-year floodplain?

yes no

If yes, attach a demonstration that the facility will not restrict the flow of the 100-year flood, reduce the temporary water storage capacity of the floodplain, or result in washout of solid waste so as to pose a hazard to human health or the environment.

31. Attach a letter from the U.S. Army Corps of Engineers regarding the wetlands determination of the proposed facility location. If the facility is within wetlands, also attach documentation of approval for the proposed land application operation, as required by federal law.

32. For proposed facilities located in southern Hancock, Harrison or Jackson counties, attach a letter from the Mississippi Department of Marine Resources regarding the coastal wetlands determination of the proposed facility location. If the facility is within coastal wetlands, also attach the documentation of approval for the proposed operation, as required by state law.

33. Is the facility located in an area which may result in recurring washout of waste, such as within a drainage ditch, along the banks of a drainage channel, along the banks of any surface water, or similar area?

yes no

34. Attach documentation from the U.S. Fish and Wildlife Service and/or the Mississippi Department of Wildlife, Fisheries and Parks stating that the operation of the facility in the proposed location will not affect a federally or state listed endangered or threatened species, or attach documentation that the proposed operation is in compliance with all statutes, rules and regulations within the jurisdiction of the U.S. Fish and Wildlife Service and the Mississippi Department of Wildlife, Fisheries and Parks concerning listed endangered or threatened species.

35. Attach a letter from the Mississippi Department of Archives and History regarding the impact of the siting of the proposed operation to any cultural resource listed in, or eligible for listing in, the National Register of Historic Places. If the initial determination is that a significant and adverse impact will occur, attach documentation of appropriate mitigation.

36. Will the proposed facility be located within 250 feet of the banks of any river, stream, lake, reservoir, or coastal water?

yes no

37. Is the proposed facility located within 0.5 mile of a national, state, county or city designated park or an outdoor recreational area, such as a golf course or swimming pool, owned by a city, county or other public agency?

yes no

If yes, attach a letter from the person responsible for managing the park or recreational area consenting to a smaller setback distance.

38. Is the proposed facility located within national forest land, a national wilderness area, or national wildlife refuge area, as designated by the appropriate federal agency?

yes no

If yes, attach written consent for the proposed operation from the agency responsible for managing such area.

39. Is the proposed facility located within a state wildlife management area, state game management area, or state natural area, as designated by the Mississippi Department of Wildlife, Fisheries and Parks?

yes no

If yes, attach written consent for the proposed operation from the agency responsible for managing such area.

40. Is the proposed facility located within 0.5 mile of any licensed school, licensed day-care center, licensed hospital, or licensed nursing home, or within 1000 feet of any church?

yes no

The Permit Board may allow a smaller setback distance if a written agreement is obtained from the owner or appropriate representative stating that a smaller setback is acceptable.

41. Is the facility located within one mile of a residential area?

yes no

[Note: If proposed facility is located in an established industrial park, then the distance to any residential area shall be no less than 1000 feet.]

42. a. Is the proposed facility located within 0.5 mile of a public water supply intake structure in a surface water body?

yes no

b. Is the proposed facility located within 1000 feet of any existing public water supply well?

yes no

Part 8 Signature and Date

I certify that the information provided in this application form is a true and correct representation of that which is requested.

I also confirm that I have received a copy, have read and understand those sections of the following regulations and law applicable to rubbish disposal sites:

- a. Sections I, II, III, and VI of the Mississippi Nonhazardous Waste Management Regulations; and
- b. EPA Final Sludge Regulations 40 CFR Part 503.

(Signature of applicant)

(Title, if applicable)

(Date)

ATTACHMENT - A
(Landowner should complete this form if land is to be leased)

PROVIDE LEGAL DESCRIPTION OF THE PROPERTY

As owner of the above-described property, I hereby acknowledge that the property described in this permit application is leased for the purpose of operating a compost facility and that as owner of the property, I may be held jointly and severally responsible for maintenance of the site and all liabilities associated with the site upon termination of the operation. The lease agreement for the proposed property will expire on _____.

(Signature of the landowner)

(Date)