

# STATE OF MISSISSIPPI SOLID WASTE MANAGEMENT PERMIT

TO OPERATE A SOLID WASTE MANAGEMENT FACILITY IN  
ACCORDANCE WITH THE REGULATIONS GOVERNING  
SOLID WASTE MANAGEMENT

## THIS CERTIFIES THAT

Waste Management of Mississippi, Inc.

has been granted permission to operate a solid waste management facility

located at

Section 12, Range 06N, Township 16E

under the name of

Pine Ridge Sanitary Landfill and Recycling Center

This permit is issued in accordance with the provisions of the Mississippi Code Annotated, and the regulations and guidelines adopted and promulgated thereunder

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**

  
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**AUTHORIZED SIGNATURE**

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

Issued: SEP 11 2012  
Expires: AUG 31 2022

Permit No. SW03801B0397

## **CONDITIONS**

### **A. EFFECT OF PERMIT**

The permittee shall operate the solid waste management facility in accordance with the Mississippi Nonhazardous Waste Management Regulations (state regulations), applicable federal regulations, and conditions of this permit.

### **B. PERMIT ACTIONS**

This permit may be modified, revoked and reissued, or terminated for noncompliance with the terms and conditions of the permit. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

### **C. SEVERABILITY**

The provisions of the permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

### **D. DUTIES AND REQUIREMENTS**

1. **Duty to Comply.** The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the solid waste law and regulations promulgated thereunder and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application.
2. **Duty to Reapply.** If the permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the permittee must submit a complete application for a new permit at least 180 days before this permit expires.
3. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize, prevent, or correct any adverse impact on human health or the environment resulting from noncompliance with this permit.
4. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all equipment and systems which are installed or used by the permittee to achieve compliance with the conditions of this permit and application as submitted and approved by the Department of Environmental Quality (Department).

5. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
6. **Inspection and Entry.** The permittee shall allow an authorized representative of the Department upon the presentation of credentials and other documents as may be required by law to:
  - a. Enter on the permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this permit;
  - b. Have access to and copy at reasonable times any records that must be kept under the conditions of this permit;
  - c. Inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under this permit;
  - d. Sample or monitor at reasonable times for the purposes of assuring permit compliance.
7. **Transfer of Permits.** This permit is not transferable to any person except after notice to and approval of the Mississippi Environmental Quality Permit Board. The Permit Board may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.
8. **Signature Requirements.** An application for the re-issuance, modification or transfer of this solid waste management permit and all permits required by this permit or other information requested by the Permit Board shall be signed as follows:
  - a. For a corporation: a president, vice-president, secretary, or treasurer of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation;
  - b. For a partnership or sole proprietorship: a general partner of the proprietor, respectively;
  - c. For a municipality, county, state, federal, or other public agency: a principal executive officer or ranking elected official;

- d. The signature of a Duly Authorized Representative (DAR) shall be a valid signature under the state regulations, in lieu of the signatures described previously provided the following conditions are met:
  1. The DAR is an employee of the entity holding the solid waste management permit.
  2. The DAR is identified to the Department by the ranking officer of the corporation, partnership, proprietorship, municipality, county, state, federal or other public agency.
  3. The DAR is responsible for the overall management of the solid waste facility.
9. Property Rights. It is the responsibility of the permittee to possess or acquire a sufficient interest in or right to the use of the property including access route. The issuance of this permit does not convey any property rights or interest in either real or personal property; nor does it authorize any injury to private property, invasion of personal rights, or impairment of previous contract rights; nor any infringement of Federal, State or local laws or regulations.

#### **E. CONSTRUCTION REQUIREMENTS**

1. Construction of landfill components shall be conducted by qualified and experienced personnel. The Department shall be notified of an approximate construction schedule at least one week prior to liner and final cover construction activities.
2. Construction of the landfill and reconstruction of any unacceptable sidewall or bottom liner shall be in accordance with the following, unless an alternate method is approved by the Department:
  - a. The insitu subbase shall be inspected for cracks, large stones, other protrusions, and for soil material which would not be suitable buffer material. Unsuitable materials shall be removed and replaced with buffer material having permeability less than or equal to  $1 \times 10^{-6}$  cm/sec. The surface shall be compact, smooth, uniform, and free of desiccation cracks.
  - b. Prior to placement of the soil liner, the surface of the prepared subbase shall be scarified for proper bonding with the liner. The liner shall be placed in 6-inch lifts, evenly compacted to the density and moisture content required. Placement of the liner along the side slopes shall be in lifts along the slope, not in horizontal lifts. Between lifts, the surface shall be scarified for proper bonding.

- c. In construction/preparation of the buffer subbase and the soil liner, the surface shall not be allowed to dry out and crack before placement of the next layer. If desiccation cracks do form, the surface shall be rewetted, rehomogenized, and recompact to the depth of the cracks before placement of the succeeding year.
  - d. Field density, permeability, and moisture content tests shall be conducted in accordance with the approved plan. Test holes in the soil liner shall be sealed with bentonite, or another method approved by the Department.
  - e. Prior to placement of the geomembrane, the soil liner shall be smooth, uniform, and free from protrusions or cracks. During and after installation, the geomembrane shall be protected from damage (e.g. heavy equipment, tearing, puncturing, exposure to sun, etc.). Field seams shall be oriented vertically along the side slopes (i.e. top to bottom of side slope). The protective layer shall be promptly placed over the geomembrane, and properly maintained until waste is placed over the area.
3. Any changes to the approved QA/QC for liner installation (e.g., installation procedures, testing frequencies, testing methods, etc.) shall be submitted to the Department for approval.
  4. Prior to the disposal of solid waste:
    - a. All borings drilled on the site in preparation of the permit application, which will not be converted to monitoring or supply wells, shall be properly sealed.
    - b. Access restriction and security measures must be installed and implemented.
    - c. A QA/QC report shall be submitted for each cell, in accordance with the Mississippi Nonhazardous Waste Management Regulations, the approved plans, and condition E.4. of this permit.
    - d. Documentation demonstrating that the facility personnel have been properly trained to recognize regulated hazardous waste and PCB waste shall be submitted to the Department. All applicable federal requirements regarding training of personnel at the site must be demonstrated to the satisfaction of the Department.
    - e. Documentation of compliance with operator certification requirements in accordance with state regulations shall be submitted to the

Department.

- f. Documentation or proof of establishment of the financial assurance mechanism for closure and post-closure costs shall be submitted to the Department. Financial assurance shall be maintained for closure and post-closure costs, as required by State law and regulations.
5. At least two weeks prior to the placement of solid waste in a newly constructed cell within the permitted area, a construction quality assurance report shall be submitted to the Department which contains a certification from an independent Mississippi registered professional engineer that the area has been constructed according to the approved design plans and all applicable state regulations. The report shall also include field logs, results of testing, subgrade survey, top of liner survey, and construction testing methods.
6. Construction, operation, closure, and post-closure activities of the facility shall be conducted in accordance with the approved plans, as submitted to the Department.

#### **F. OPERATING REQUIREMENTS**

1. The disposal of solid waste shall be restricted to the approved area, consisting of approximately 75 acres, and the final height shall not exceed the elevation demonstrated in the approved drawings.
2. The property line setback distances shall be maintained as in the approved drawings dated March 17, 2011. Visual screenings shall be maintained around the entire property.
3. Regulated asbestos containing material shall be disposed of in accordance with the approved operations plan, which complies with NESHAP regulations 40 CFR Part 61.153 and 61.154 (reporting and standard for active waste disposal sites). Excavation of waste for the disposal of asbestos shall occur only in areas where the waste has been in place for less than 72 hours.
4. Infectious medical wastes, as defined by the Mississippi Department of Health, generated by established medical facilities, shall be prohibited from disposal unless such wastes have been satisfactorily rendered non-infectious and placed in special bags or other appropriate packages.
5. The service area of the facility shall be consistent with the service area listed in the approved East Central Mississippi Solid Waste Management Plan. Solid waste generated by areas not within the approved service area shall be prohibited from disposal, unless specifically approved by the Commission

on Environmental Quality.

6. Vehicles entering the facility shall be operated and maintained to prevent loss of liquids or solid waste material. Vehicles failing to meet this requirement, after one warning to the owner or driver, shall be refused acceptance at the site until the situation is remedied.
7. Security shall be maintained at the facility to prohibit unauthorized access and disposal. Access to the site shall be secured or locked when the site is closed and when no attendant is on site.
8. All solid waste shall be covered each day before the close of operations, or more frequently, if necessary, to control disease vectors, fires, odors, blowing litter, and scavenging. Cover shall consist of at least six inches of earthen material or an alternate approved method of cover. An alternate method of cover may be used if a specific description and plan of operation is submitted to the Department, and written approval is obtained.
9. Small portions of earthen cover shall be removed from low areas of each lift in order to facilitate downward movement of leachate to the collection system. The amount of soil removed shall be minimized as much as possible.
10. Filled areas of the landfill that have remaining capacity and will not receive waste within 30 days shall receive an intermediate cover of twelve inches of earthen material. An alternate cover system may be approved by the Department.
11. Filled areas of the landfill, which will not receive additional waste or final cover within one year, shall receive an intermediate cover of twenty four inches of earthen material. Following placement, a minimum of eighteen inches of the cover shall be maintained until additional waste is placed on the area or until final cover is applied. An alternate cover system may be approved by the Department.
12. Final cover shall be placed on completed areas of the landfill in accordance with state regulations and the approved plans.
13. The condition of daily, intermediate, and final earthen cover shall be routinely inspected by landfill personnel during the operation of the facility. Erosion, cracks, ponding, leachate outbreaks, and similar problems shall be promptly repaired.
14. Litter and scattered debris on the landfill area and along the property access roads shall be collected at the end of every operating day and returned to the active disposal area.

15. Burning or smoldering wastes accepted at the site shall be unloaded and extinguished in an area separate from the active disposal area and shall not be unloaded onto the working face until all smoldering debris has been adequately extinguished. Such wastes, however, shall not be left uncovered at the close of operations for that day.
16. Should an accidental fire occur, the operator shall immediately take action to extinguish the fire and shall notify the Department by the close of the next business day. Within 5 days the operator shall submit to the Department a report detailing the cause of the fire, the damage caused and repair/maintenance needs, the steps taken to control the incident, and the measure that will be taken to prevent another occurrence.
17. The landfill shall be constructed, operated, and maintained with berms, ditches, or other means such that uncontaminated surface water is directed around and away from the developed landfill area.
18. The sedimentation ponds shall be constructed and maintained to collect and control at least the water volume resulting from a 24-hour, 25-year storm event. Periodic dredging shall be conducted to maintain proper elevations, capacity, and operation.
19. Surface water contaminated by contact with solid waste and surface leachate flowing from filled areas of the landfill shall be collected and managed as leachate. Surface leachate and contaminated surface water shall not be allowed to flow offsite of the landfill property.
20. Leachate collection systems shall be cleaned, maintained, and pumped as necessary to properly manage leachate collection. The depth of leachate over the liner, excluding the trenches and sumps, shall not exceed 30 cm. Measurements of leachate head shall be made daily. Should any measurement indicate a head of 30 cm or greater on the liner, the permittee shall contact the Department immediately. Written correspondence shall be submitted within five (5) working days of non-compliance. Records shall be kept of daily measurements, quantities pumped, cleaning, maintenance, any analysis and method of disposal.
21. Leachate and gas condensate shall not be recirculated back into the landfill, unless an operational plan including detailed drawings is submitted to and approved by the Department. The acceptance of offsite leachate and gas condensate for disposal shall be prohibited.
22. Groundwater monitoring shall be conducted at the facility in accordance with state and federal regulations and the approved plan. Monitoring shall be conducted semi-annually, unless otherwise directed by the Department,



according to the following schedule:

<u>Monitoring Period</u>	<u>Report Due</u>
January – June	August 31
July – December	February 28 (of the following year)

Samples may be taken at any time during the monitoring period; however, all required sampling events (except background) shall be at least four months apart. The following reports and records shall be retained in the operating record, and they shall be compiled in a report to be submitted to the Department according to the schedule above:

- a. The dates, exact location, and time of sampling;
  - b. The individual who performed the sampling;
  - c. Results of groundwater level measurements and a map indicating direction of flow;
  - d. The date(s) laboratory analyses were performed;
  - e. The individual(s) who performed the analyses;
  - f. The analytical techniques or methods used;
  - g. The results of such analyses, provided by the laboratory;
  - h. The results of such analyses, prepared on a form provided or approved by the Department;
  - i. The statistical comparison of analyses;
  - j. A determination of statistically significant increase; and
  - k. Chain of custody forms.
23. At any time a statistically significant increase is identified for any parameter listed in Appendix I of 40 CFR Part 258, the required report outlined in Section E.34 of this permit shall be submitted to the Department within 14 days, unless otherwise directed by the Department.
24. Groundwater assessment monitoring and corrective action, if necessary, shall be conducted at the facility in accordance with state and federal regulations as well as the approved plan.

25. Groundwater monitoring wells as depicted in the submitted plans shall be installed prior to filling of the adjacent phases of the landfill and shall be properly maintained and secured. The permittee shall install additional groundwater monitoring wells if determined necessary by the Department.
26. Methane monitoring, and corrective action, if necessary, shall be conducted at the facility in accordance with state regulations and the approved operations plan. Methane monitoring shall be performed at permanent methane monitoring wells. The number and location of the wells shall be as previously approved by the Department. Monitoring shall be conducted quarterly, unless otherwise directed by the Department, according to the following schedule:

<u>Monitoring Period</u>	<u>Report Due</u>
January – March	May 30
April – June	August 31
July – September	November 29
October – December	February 28 (of the following year)

Measurements may be taken at any time during the monitoring period; however, all required monitoring events shall be at least 45 days apart. The following reports and records shall be retained in the operating record, and a copy shall be submitted to the Department according to the schedule above:

- a. The dates, exact location, and time of measurements;
  - b. The individual(s) who performed the measurements; and
  - c. The results of methane level measurements for all monitoring wells and for facility structures. Results shall be submitted on a form provided or approved by the Department.
27. Operation of the facility shall be conducted in accordance with all applicable requirements of the U.S. Army Corps of Engineers and the Mississippi Department of Transportation.
  28. All applicable federal requirements regarding training of personnel at the site must be demonstrated to the satisfaction of the Department.
  29. Mining of solid waste shall be prohibited unless plans are approved by the Department.
  30. Modification to this permit shall be required prior to a vertical or horizontal expansion of the facility or a significant change in the method of waste management.

31. Upon completion of disposal activities within completed cells, a surveyed landfill drawing shall be submitted to the Department showing the total acreage and volume of the closed disposal area, the boundaries of waste disposal, and the final contours.
32. Any significant changes to the approved closure or post-closure plan must be submitted to the Department for approval prior to implementation.
33. Financial assurance, as required by state law and regulations, shall be established and maintained for closure and post-closure costs.
34. The permittee shall provide the Department with an updated financial assurance mechanism within 90 days of any permit modification resulting in an increase in the closure and post-closure care costs.
35. An annual report shall be submitted to the Department each year no later than February 28 to include data regarding the preceding calendar year. The report shall include the items listed below:
  - a. Aggregate information on the types, amounts, and sources of waste received during the calendar year. Listed types should be divided minimally into residential and nonresidential. The sources of waste should have cities and/or counties listed individually.
  - b. A contour drawing of the landfill showing areas filled during the report year and total areas filled.
  - c. Estimated remaining capacity, in terms of volume or tons of waste.
  - d. An updated disclosure statement for the permittee and contract operator, if applicable. If all information from the previously submitted disclosure statement is unchanged, a letter stating such may be included in lieu of an updated disclosure statement.
  - e. An adjusted closure and post-closure cost estimate.
  - f. An audit of the financial assurance document and the end-of-year value of the financial assurance mechanism.
  - g. A modified financial assurance document, if necessary.
  - h. Documentation demonstrating that the facility personnel have been properly trained to recognize regulated hazardous waste and PCB waste.
  - i. Documentation of compliance with operator certification requirements in accordance with state regulations.