

# 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

Three Rivers Solid Waste Management Authority  
has been granted permission to operate a solid waste management facility

located at

Section 14 and 23, Township 9 South, Range 2 East  
Pontotoc County

under the name of

Three Rivers Regional Landfill

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: October 12, 2010**  
**Expires: September 30, 2020**

**Permit No. SW0580010427**

## 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. SITE SPECIFIC OPERATING CONDITIONS**

1. The disposal of solid waste shall be restricted to the approved permitted area consisting of approximately 206.9 acres, and shall be within approved elevations.
2. The property line setback distance of no less than 250 feet with adequate on-site screening between the property lines to the disposal areas shall be maintained as approved in the permit application. Adequate visual screening shall be provided in accordance with the Mississippi Nonhazardous Solid Waste Management Regulations (Regulations).
3. 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.
4. Construction, operation, closure, and post-closure activities of the facility shall be conducted in accordance with the approved plans, as submitted to the Department.

5. Construction or reconstruction of any unacceptable sidewall or bottom liner of the landfill shall be conducted 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 suitable buffer material having a permeability equal to or less than  $1 \times 10^{-6}$  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 on 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 layer.
  - d. Field density, permeability, moisture content, and thickness tests shall be conducted in accordance with the approved plan in the submitted 2009 permit renewal and modification application. Test holes in the soil 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.
6. 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.
7. At least two weeks prior to the placement of solid waste in a newly constructed cell or subcell, a construction quality assurance report shall be submitted to the Department which demonstrates compliance with all

applicable sections of the state regulations. The report shall be certificated by an independent registered professional engineer declaring that the area has been constructed according to the approved design plans, applicable testing, subgrade survey, top of liner survey, and construction testing methods. The report shall also include field logs, results of testing, surveyed elevations and construction testing methods.

8. 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. Likewise, each cell shall be constructed and maintained to direct uncontaminated surface water around and away from the active disposal area. Uncontaminated surface water run-off from construction activities, from areas with daily or intermediate cover, or from areas with final cover not having established vegetation, shall be diverted to an onsite sedimentation pond.
9. The sedimentation pond shall be constructed and maintained to collect and control at least the water volume from a 24 hour, 25 year storm event. Periodic dredging shall be conducted to maintain proper elevations, capacity, and operation.
10. Surface water contaminated by contact with solid waste and surface leachate flowing from filled areas of the landfill shall be collected and disposed as leachate. Surface leachate and contaminated surface water shall not be allowed to flow offsite of the landfill property.
11. The permittee shall provide documentation upon request demonstrating that the facility personnel have been properly trained to recognize regulated hazardous waste and PCB waste. All applicable federal requirements regarding training of personnel at the site must be demonstrated to the satisfaction of the Department.
12. The landfill shall be operated by employees of the permittee or employees of Waste Connections of Mississippi Disposal Services, LLC, as specified in the permit application unless otherwise approved by the Department. Prior to the operation of the facility by any other private entity, a complete disclosure form for the entity shall be submitted to and approved by the Permit Board as set forth in Section 17-17-501 et seq., Mississippi Code Annotated and all regulations promulgated pursuant thereto.
13. The permittee shall employ a landfill operator certified by the Department in accordance with Section IV.B.20 of the Mississippi Nonhazardous Solid Waste Management Regulations. A person who holds the current certificate of competency shall have direct supervision over and be personally responsible for the daily operation and maintenance of the landfill. In the event of temporary loss of a certified operator due to

illness, death, discharge or other legitimate cause, written notice shall be given to the Department within 7 days. Continued operation of such system without a certified operator may proceed on an interim basis not to exceed 180 days, except for good cause shown upon petition to the Commission.

14. Operation of the facility shall be conducted in accordance with all applicable requirements of the U.S. Army Corps of Engineers.
15. 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.
16. 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.
17. The service area of the facility shall be consistent with the service area listed in the approved Three Rivers Solid Waste Management Authority's 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.
18. Regulated asbestos containing material may be accepted for disposal pursuant to compliance with the approved asbestos acceptance operating plan and all applicable Federal Regulations. Such operating plans shall be reviewed and modified as necessary to ensure compliance with EPA NESHAP regulations 40 CFR 61.153 and 61.154 and submitted to and approved by the Department.
19. 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.
20. 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 driver, shall be refused acceptance at the site until the situation is remedied.
21. Random inspection of the incoming wastes shall be conducted at the frequency of at least 1 load per day.
22. Burning or smoldering wastes accepted at the site shall be unloaded and extinguished in an area separate from the active disposal area. The material shall not be placed into the active area until all smoldering debris

has been adequately extinguished. Such wastes, however, shall not be left uncovered at the close of operations for that day.

23. Should an accidental fire occur, the operator shall immediately take action to extinguish the fire and shall notify the Department within 24 hours by phone and 5 working days by mail.
24. Mining or excavation of the disposed solid waste shall be prohibited unless plans are submitted to and approved by the Department.
25. 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.
26. The conditions 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.
27. 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.
28. Filled areas of the landfill with remaining capacity which 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.
29. Final cover shall be placed on completed areas of the landfill in accordance with state regulations and the approved plan.
30. 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 cover. 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.
31. Upon completion of disposal activities within completed cells, a surveyed landfill drawing shall be submitted to the Department showing final cover, final contours, the boundaries of waste disposal, and the waste volume contained in each cell.

32. The leachate collection system shall be operated as follows:
- (a) The leachate collection system of pipes, trenches and sumps shall be cleaned, maintained and pumped as needed to ensure proper leachate collection.
  - (b) The depth of leachate over the liner, excluding trenches and sumps, shall not exceed 30 cm.
  - (c) Leachate head measurements shall be made and/or monitored daily. If the facility utilizes an electronic pumping system, a record of the pumping quantity shall be maintained on a daily basis in lieu of daily individual leachate head measurements.
  - (d) Any measurement that indicates a head of 30 cm or greater on the liner or any electronic pumping equipment failure shall be reported to the Department immediately. Written correspondence shall be submitted within five (5) working days of non-compliance.
  - (e) Records shall be kept of daily measurements, quantities pumped, cleaning, maintenance, analyses and method of disposal.
33. The acceptance of offsite leachate and gas condensate for disposal shall be prohibited.
34. Groundwater monitoring shall be conducted at the facility in accordance with state and federal regulations. Monitoring shall be conducted semiannually, 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 a copy shall 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 potentiometric map indicating direction of groundwater 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.
35. Groundwater monitoring wells shall be properly maintained and secured. Groundwater wells GW-2R, GW-9, GW-10, and GW-11 shall be installed prior to filling of the adjacent phases of the landfill. The permittee shall install additional groundwater monitoring wells, if deemed necessary by the Department.
36. 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.
37. Groundwater assessment monitoring and corrective action, if necessary, shall be conducted at the facility in accordance with state and federal regulations and the approved plan.
38. Methane monitoring and corrective action, if necessary, shall be conducted at the facility in accordance with state regulations and the approved operating plan. Methane 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 (1½

months) 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 methane monitoring wells and for facility structures. Results shall be submitted on a form provided or approved by the Department.
39. Financial assurance, as required by state law and regulations, shall be established and maintained for closure and post-closure costs.
40. 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.
41. An annual report shall be submitted to the Department each year no later than February 28 to include data for 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 volumes or tons of waste.
  - (d) an updated disclosure statement for a 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 the year value of the financial assurance mechanism.
  - (g) a modified financial assurance document, if necessary.

- (h) documentation demonstrating that facility personnel have been trained to recognize regulated hazardous waste and PCB waste.
  - (i) documentation of compliance with operator certification requirements in accordance with state regulations.
42. Modification of 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.
  43. Any significant changes to the approved closure or post-closure plan must be submitted to the Department for approval prior to implementation.
  44. The permittee shall comply with the requirements of the Title V Air Permit to Operate issued for this facility, including but not limited to annual analysis and reporting of emissions from the facility and submittal of Title V fees in accordance with the Title V permit and applicable laws and regulations.
  45. The permittee shall comply with the requirements of the NPDES storm water permit issued for this facility, including but not limited to monitoring, analysis and reporting associated with any storm water discharge from the permitted storm water outfalls.
  46. The permittee shall comply with the requirements of the Pretreatment permit issued for this facility, including but not limited to monitoring, analysis and reporting associated with the discharge of landfill leachate to the Pontotoc POTW or the Oxford POTW.