



Landfill Project Submittal Forms

Instructions:

This project form must be submitted to the Reserve and to the verifier in the first year of reporting prior to verification. In some cases, it may be necessary to update parts of the Project Submittal Form in subsequent years. All information in this Form will be made publicly available.

These forms are to be used for reporting general Landfill Project information to the California Climate Action Registry in order to initiate the project listing process. All fields must be completed as thoroughly as is possible. If the project in question is still in the planning/development phase, all fields must be completed using best available data and estimations based on the proposed system design. Upon receipt of completed submittal forms, Registry staff will perform a general eligibility screen (in accordance with the most current version of the California Climate Action Registry Landfill Project Reporting Protocol) based on the information provided. Project Developers can expect an Invoice for the \$500 project listing fee within 15 days of receipt of the completed forms, and a letter regarding the status of the project within 15 days of the receipt of the project listing fee. If a project passes the eligibility screen, it will be officially "listed" with the Climate Action Reserve.

This is an interactive PDF form that can be filled out and saved as a PDF. All fields must be completed, if a field is not applicable insert N/A in the space provided. The completed form must be saved and uploaded to your Climate Action Reserve account. Submit all questions regarding the project submittal process to: reserve@climateresry.org.

Be sure to fill out the invoicing contact info below, in order to expedite the process.

Please provide contact information for invoicing purposes:

Name: Ken Thrasher, Executive Director

Email: Confidential

Address: Confidential

Phone: Confidential

Fax: Confidential

Version 2.1
July 2008



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Form 1: General Landfill Information

1. Date of form completion:

September 19, 2008

2. Form completed by (name): Ken Thrasher

3. Name of Landfill: Black Warrior Solid Waste Facility

4. Approximate Latitude/Longitude of Landfill Project (degrees/minutes/seconds):

N 33° 14' 19.58" 87° 39' 13.35" W

5. Address (including county):

3301 Landfill Drive, Coker, Alabama 35452 (Tulaloosa County, Alabama)

6. Owner of Landfill and owner contact information:

Black Warrior Solid Waste Disposal Authority - Ken Thrasher Exec Dir 205 339 7330; Daniel Wells, engineer, 334 222 9431; Jim Sledge, attorney 205 469 2404

7. Type of landfill (sanitary, controlled, or open dump):

Sanitary

8. Landfill size – designed area for waste placement (acre or hectare):

127.5 acres

9. Total waste in place (cubic meters or tons): 1,500,658 Tons, through August, 2008

10. Designed landfill capacity (cubic meters or tonnes): 8,915,000 tons



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11. Year landfill opened: 1997

12. Year landfill closed or estimated date of closure: 2043

13. Approximation of percent municipal / industrial / inert wastes:
100% Municipal

14. Average annual quantity of waste accepted at landfill (cubic meters or tonnes):

150,000 tons

15. Description of any regulatory framework for landfill methane capture and control (include an estimate of the date which the landfill will meet or exceed the 50 megagrams per year threshold of calculated NMOC emissions per NSPS/EG regulations and the type of testing that justifies the estimate (i.e. Tier 1 or Tier 2 NMOC emission rate estimates)):

NMOC Tier II emission test last conducted 2006, results 13 megagrams per year. Rate for 2007 calculated per EPA LandGEM version 3.02 at 15.11 megagrams per year using equations and procedures in 40 CFR 60.754(a). Per LandGEM this facility not expected to reach 50 megagrams per year until 2036 or later.

16. Description of local and state air and water quality, explosive gas, or other regulations pertinent to the project:

Ala. Admin. Code §335-13-1, et seq. (Solid Waste).
Ala. Admin. Code §335-3-19, et seq. (Air Quality).
National Pollution Discharge Elimination (NPDES) (335-6).



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17. Is this project required by any local, state, or federal regulation? Yes ☐ No ☒

Comments (if any):

18. When did the project first commence operation, or when is the project expected to commence operation?

November 30, 2008 - Expected Operational.

19. Description of waste picker and recycling activities:

None at this facility. Recycling handled at municipal level.

20. Has a detailed monitoring plan been developed for this project? If not, what date will a monitoring plan be in place?

No. Monitoring plan to be in place when facility operational, projected November 2008.

21. What Version or publication date of the Landfill Project Reporting Protocol is the project documentation based upon? _____

22. Have any vintage reduction tons from the project ever been registered with or claimed by another registry or program, or sold to another third party prior to registering with the Reserve?

No.

If the answer is yes, you must complete and return a "*Project Transfer*" form.



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22. Waste Characteristics Table

<i>Waste Types</i>	Estimated Percent of Waste Stream
Food Waste	45%
Garden and park waste	0%
Wood	0%
Paper and textiles	35%
Plastics	10%
Concrete	0%
Metal	10%
Other Inert waste	0%

Explain basis of estimates (i.e. site specific information, regional or national studies, etc.):

Source: Solid Waste Association of North America, Regional or National Study.



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Form 2: Pre existing landfill gas control system information

1. Type of existing landfill gas collection and control system in place, if any (e.g., flare, energy recovery etc.):

N/A

- i. If Landfill gas collection system is in place, is the system actively collecting or passively venting gas?

N/A

- ii. If flare or energy project is in place, what is the landfill gas flow rate (in scfm) and methane content?

N/A

- iii. Supply a copy of the as built drawings for the existing system. (Attach as a separate PDF file titled: Existing LFG System Diagram)

- iv. Name of system designer, address and other contact information.

N/A

2. When was this control system installed and operational?

N/A

3. Provide a summary of the permits obtained to build and operate this Landfill Gas Control System).

NA



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Form 3: Landfill gas utilization information for project activity

1. Landfill gas utilization (e.g., flared, generation of electricity, use on-site as a boiler or furnace fuel, or sale to a third party):

To Be Flared.

2. When was this combustion/LFG utilization system installed and operational, or when is it expected to be installed and operational?

November 30, 2008, Expected Operation.

3. If designed to generate electricity:

- a. Type of engine-generator set (e.g., internal combustion engine, micro turbine or fuel cell with the name of the manufacturer, model, power output rating (kW or MJ) for biogas, and nominal voltage :

N/A

- b. Pretreatment of landfill gas (e.g., none, condensate trap, dryer, hydrogen sulfide removal, etc. with the names of manufacturers, models, etc.):

N/A

- c. Exhaust gas emission control (e.g., none, catalytic converter, etc.):

N/A

- d. If interconnected with an electric utility:

- Name of the utility: N/A
- Type of utility contract (e.g., sell all/buy all, surplus sale, or net metering):

N/A



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e. If engine-generator set waste heat utilization:

- Heat source (e.g., cooling system or exhaust gas or both) and heat recovery capacity (Btu or kJ/hr):

N/A

- Waste heat utilization (e.g., water heating, space heating, etc.):

N/A

4. If designed to use on-site as a boiler or furnace fuel, a description of the boiler or furnace including manufacturer, model, and rated capacity (Btu or kJ/hr):

N/A

5. If designed for biogas sale to a third party, a description of the methods of processing, transport, and end use:

Facility is designed to allow possible Phase II: sale to industrial use, which Phase II is subject to economic conditions, financial feasibility, and successful negotiation of needed contracts. There is no certainty that Phase II will occur.

- a. Pretreatment of Biogas (e.g., none, condensate trap, dryer, hydrogen sulfide removal, etc.) include names of manufacturer, model etc.:

N/A

- b. Exhaust gas emission controls from gas processing step:

N/A



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6. Provide a summary of the permits obtained to build and operate this Landfill Gas Utilization System).

Alabama Department of Environmental Management (ADEM) - ADEM Air Forms: 103 - Facility Identification Form; 105 - Manufacturing or Processing Operation Form; and 110 - Air Pollution Control Device Form.

