



Landfill Project Submittal Forms

Instructions:

This 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 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@climateregistry.org.

Version 2.2
November 2008

Project Name: Hernando County landfill Electric Generation

Timberline Energy, LLC

Project Developer: _____

Timberline Energy, LLC

Facility Owner: _____

Weaver Boos

Technical Consultants: _____

none

Other Parties with a Material Interest: _____

December 2008

Date of form completion: _____

Greg Tilden

Form completed by (name): _____



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Landfill Project Registration

Section 1: General Site Information

1. Name of Landfill: Hernando County Northwest Landfill
2. Approximate Latitude/Longitude of Landfill Project (degrees/minutes/seconds):
Lat. 8 40' 30" Long. 82 20' 10"
3. Address (including county):
14436 Landfill Road, Brooksville, FL 34614 Hernando County
4. Owner of Landfill and owner contact information:
Hernando County Board of County Commissioners Scott Harper 352-754-4112
5. Type of landfill (sanitary, controlled, or open dump): Sanitary
6. Landfill size – designed area for waste placement (acre or hectare):
28 acres
7. Total waste in place (cubic meters or tons): 1,600,000 cubic meter
8. Designed landfill capacity (cubic meters or tonnes): 1,963,000 cubic meters
9. Year landfill opened: 1991
10. Year landfill closed or estimated date of closure: 2010
11. Average annual quantity of waste accepted at landfill (cubic meters or tonnes):
125,000 tonnes



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Landfill Project Registration

12. Waste Characteristics Table

Waste Types	Estimated Percent of Waste Stream
Paper and Paperboard	25
Glass	-
Metals	5
Plastics	11
Rubber and Leather	-
Textiles	18
Wood	0
Food Scraps	22
Yard Trimmings	14
Misc. Inorganic Wastes	5
Other	0

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

Actual Waste Audit performed in 2004

Section 2: Project Eligibility and Monitoring

13. Initial verification period: **2008**

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

October 2008

15. Have any vintage reduction tonnes 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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Landfill Project Registration

16. 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)):

This site is not expected to ever exceed the 50 Mg/yr threshold for NSPS/EG regulation.

NESHAP: The Hernando County NW landfill is not classified as a major source of HazPollutants (HAPS) and therefore does not trigger HESHAP applicability requirements

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

There are no specific State of Florida Regulations for the installation of a gas collections system. The Hernando landfill is not required to install a gas collection system.

18. Is this project being implemented and maintained as the result of any law, statute, regulation, court order, or other preexisting legally binding mandate?

☐ Yes

☒ No

Comments (if any):

Project is a voluntary gas collection system

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

Yes. The landfill gas volume and content are measured continuously and recorded.

20. What Version or publication date of the Landfill Project Reporting Protocol is the project documentation based upon? **Version 2.0**
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Section 3: Pre-project landfill gas collection system information (fill out only if there was a landfill gas collection and/or control system in place that is separate from the Project system)

21. Type of pre-project landfill gas collection and control system in place, if any (e.g., open flare, enclosed flare, energy recovery etc.):

none

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

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

iii. Name of system designer, address and other contact information.

iv. Supply a copy of the as built drawings for the pre-project system. Be sure to include in the diagram the location of all pre-project wells and/or other collection equipment and the location of all project-related wells and/or other collection equipment. (Attach as a separate PDF file titled: Pre-project LFG System Diagram)

22. When was this pre-project control system installed and operational?

NA

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

NA

Section 4: Landfill gas utilization information for project activity

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

Generation of electricity and an open flare

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

October 2008

26. If designed to generate electricity:

- i. 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 :

Caterpillar model 3520, 1,600 kw, 4,160 volt

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

The condensate is removed in a condensate trap. The landfill gas is compressed and cooled to remove water. It is filtered for particulates before being combusted in the engine.

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

The engine is a low emissions model

- iv. If interconnected with an electric utility:

- Name of the utility: **Withlacochee River electric cooperative**
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- Type of utility contract (e.g., sell all/buy all, surplus sale, or net metering):

Sell all except for parasitic load.

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Landfill Project Registration

v. 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):

NA

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

NA

27. 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):

NA

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

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

NA

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

None

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

Hernando County Building permit number 1220742. FDEP air permit for the generator DEP fileNumber 0530376-001-AC. FDEP landfill operating permit 22755-009-SO/01

