

Landfill Gas Capture/Combustion Project Submittal Form

Instructions: Please complete all fields as thoroughly as possible. If the project in question is still in the planning/ development phase, all fields must be completed using best available data and estimates based on the proposed system design. This is an interactive Word form. Upon completion, please save this form as a PDF prior to uploading it to the Reserve. This will lock your answers and protect the document from any further changes. All fields must be completed, even if the answer is also provided elsewhere; if a field is not applicable insert N/A in the space provided.

Section 1: Project Contact Information

Project Name (as it appears in the Reserve software): Oneida Herkimer Landfill Ava, NY

Account Holder (as it appears in the Reserve software): Oneida Herkimer Solid Waste Management Authority

Is the Account Holder authorized to sign the "Attestation of Title" form? ☒ Yes ☐ No

Facility Owner: OHSWMA

Technical Consultants: Barton and Loguidice and Environmental Capital LLC

Other Parties with a Material Interest: **NA**

Date of Form Completion: 04/27/2010

Form Completed By (name, organization): OHSWMA

Section 2: General Project Site Information

1. Name of Landfill: **Oneida Herkimer Solid Waste Management Authority Landfill Ava**
2. Project Description (Please provide one to two paragraphs): **Authority is currently in the process of installing a comprehensive active landfill gas collection system featuring a centralized flare. The flare will be installed by July 1, 2010. By 4th quarter 2011 the Authority plans to begin operations at a new Landfill Gas to Electricity plant utilizing internal combustion engines to produce electricity. This is a non-mandated project. The NMOC emission rate is 1.68 Mg per year. Based on this concentration, the facility**



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is expected to remain below the 50 Mg per year threshold over the life of the landfill.

The landfill gas collection figure for 2011 is anticipated to be 500 cfm.

3. Project Site Address (including county and country): **7044 State Rte 294, Boonville, NY 13309**
4. Owner of Landfill (name and organization): **OHSWMA**
5. Type of landfill (sanitary, controlled, or open dump): **Sanitary**
6. Type of waste accepted (MSW, demolition debris, organic, etc.): **MSW and demolition debris**
7. Average annual quantity of waste accepted at landfill (cubic meters or tonnes): **320,000 tons**
8. Total waste in place (cubic meters or tonnes): **1,000,000 tons**
9. Designed landfill capacity (cubic meters or tonnes): **28,519,227 cubic yards**
10. Year landfill opened: **2006**
11. Year landfill closed or estimated date of closure: **2072**

Section 3: Project Eligibility and Monitoring

12. Project Start Date (Date project became operational; format MM/DD/YYYY): **07/01/2010**
13. Project Reporting Start Date (First date for which reductions will be reported on the Reserve; format: MM/DD/YYYY): **07/01/2010**
14. 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?

☐ YES ☒ NO

Vintage: Reporting Period:



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Vintage:

Reporting Period:

Vintage:

Reporting Period:

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

15. Is the landfill subject to NSPS Regulation? (greater than 2.5 million tonnes capacity)?

☐ YES ☒ NO

16. If applicable, date of most recent Tier I or Tier II NMOC test (format MM/DD/YYYY)?

03/31/2009 (Tier 1 test date)

a. NMOC emissions per year (Mg/year): 1.68 Mg per year

b. Date at which landfill did or is expected to exceed 50 Mg NMOC per year (format MM/DD/YYYY): The landfill is not expected to exceed 50 Mg NMOC over the life of the project.

17. Description and citation of all local and state air and water quality, explosive gas, or other regulations pertinent to the landfill or project: **Title V Air Regulations, 6NYCRR Part 360 Solid Waste Regulations**

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

If yes, please explain.

19. Has a detailed monitoring plan been developed for this project? If not, what date will a monitoring plan be in place? **A Project Monitoring Plan has been drafted and final plan will be in place prior to system startup.**

20. What version of the Landfill Project Reporting Protocol is the project based upon? **Version 3.0**



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Section 4: Pre-project Information

21. Did the landfill ever collect and destroy landfill gas using a non-qualifying destruction device (e.g. passive flares)?

☒ YES ☐ NO

If yes:

- a. What date was this system operational (MM/DD/YYYY): **12/01/2006 (first passive flare operational. Subsequent flares installed in 2007 - 2009.)**
- b. Please describe (number of wells, destruction devices, etc.): **Three (3) passive, solar powered landfill gas flares were installed and connected to three (3) horizontal collector pipes in Cells 1 and 2 of the landfill. In addition, two (2) passive, solar powered landfill gas flares were installed and connected to two (2) leachate cleanout locations. The passive, solar powered flares are LSC Solar Spark , Model CF-5 flares.**
- c. What deduction will be taken to account for this pre-project destruction? A pre-project monitoring program has been implemented in accordance with the Landfill Project Protocol, Version 3.0 to quantify the pre-project destruction. The deduction will be based on the completed results of the pre-project monitoring program, calculated in accordance with the protocol.
- d. What is the landfill gas flow rate (in scfm) and methane content? **Estimated total = 52 scfm at 55% methane.**

22. Did the landfill ever collect and destroy landfill gas using a qualifying destruction device (e.g. candlestick flare, engine)?

☐ YES ☒ NO

If yes:

- a. What date was this system operational (MM/DD/YYYY): NA

- b. Please describe (number of wells, destruction devices, etc.): NA
- c. What deduction will be taken to account for this pre-project destruction? NA
- d. What is the landfill gas flow rate (in scfm) and methane content? NA

Section 5: Landfill Gas Utilization Information for Project Activity

23. 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): **Open flare**

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

NA

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

NA

- d. If interconnected with an electric utility:

- i) Name of the utility: **NA**
- ii) Type of utility contract (e.g., sell all/buy all, surplus sale, or net metering): **NA**
- iii) If engine-generator set waste heat utilization:
- iv) Heat source (e.g., cooling system or exhaust gas or both) and heat recovery capacity (Btu or kJ/hr): NA
- v) Waste heat utilization (e.g., water heating, space heating, etc.): **NA**



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

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

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: **NA**

27. Provide a summary and citation of the permits obtained to build and operate this Landfill Gas Utilization System): **Title V Air Permit, New York State Department of Environmental Conservation (NYSDEC) Permit ID No. 6-3024-00009/00007**

Additional information: NA
