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U.S. Landfill Protocol Project Data Report

The Project Data Report (PDR) Template must be completed for each verification period. This template is only intended as a guide and provides the minimum required information to be reported. This template is designed for use with the U.S. Landfill Protocol V6.0 (US LP). The project developer has the option to include additional information at their discretion.

Please note that this document will be made publicly available once the project has registered credits the verification cycle. If there is proprietary information, please provide a redacted version for publication and a non-redacted version for internal review. Please contact the Reserve to discuss what information may be allowed to be redacted.

Account Holder	Anew Environmental, LLC
Project ID and Name	CAR1372: Rochelle Municipal Landfill
Cooperative/Aggregate ID (if applicable)	N/A
Current Reporting Period Dates	1/1/2024 - 12/31/2024
Protocol Version	U.S. Landfill V6.0
Claimed CRTs by Vintage	88,666.00
Date Submitted	8/19/2025

1 Introduction

Provide a general description of the project, including location, baseline scenario, project activity, etc.

The Rochelle Municipal Landfill is a municipal sanitary waste landfill located in Ogle County at 6513 S Mulford Road in the city of Rochelle, Illinois. The landfill began its initial operation in 1973. The Landfill consists of Units #1-3, all of which are separate units from each other and incorporate geomembrane liners which prevent the migration of gas between units.

The Project landfill gas (LFG) well field and active gas collection and control system installation was completed in 2009 and currently captures gas from all landfill Units for destruction in the engines or flares. Prior to this system, LFG was collected and flared from Unit #1 only. Because LFG from Unit #1 was destroyed prior to the Project activity, LFG methane flow from Unit #1 is not eligible for crediting.

This is a voluntary implementation of a gas collection and destruction system as the landfill is not required to install a gas control system because it is below the EPA limit of 34 megagrams per year NMOC emissions for NSPS and EG applicability. The baseline scenario is defined as the installation of a new gas collection system on physically distinct cells where neither gas collection nor destruction has previously occurred.

2 Project Definition

a Project Definition

Provide information on whether the project is an expansion of an existing landfill project or is being submitted as a new project, the type of destruction device (e.g. utility flares, enclosed flares, engines, turbines, microturbines, boilers, pipelines, leachate evaporators, kilns, sludge dryers, burners, furnaces, or fuel cells), default or site-specific destruction efficiency values, and whether landfill gas is destroyed onsite or transported for offsite use. Supporting documentation must be provided to the verifier during each verification cycle, which may include project diagrams, LFG flow data, methane flow data, facility records, etc.

The Project consists of the voluntary collection and destruction of landfill gas in three Caterpillar 3520C Gensets which are located on a small lease area on Landfill property. Default methane destruction efficiencies are used for each device. There are two open flares belonging to the Landfill which are not included in the emission reduction calculations. Only gas from landfill cells 2 and 3 are eligible for credit generation.

b Project Developer

List the entities which have any amount of legal control over the project boundary and identify the mechanism through which the Account Holder has legal authority to implement the project. In addition, please state which entity will be designated as the project developer and will sign the Attestation of Title. If the Account Holder is not the entity listed on the facility's operating permit, explain how they obtain the right to operate the project on the facility's behalf.

Rochelle Energy LLC owns the landfill gas to energy facility which is responsible for destruction of the landfill gas to generate electricity and CRTs. Rochelle Energy LLC has a Landfill Gas Purchase Agreement with the Rochelle Municipal Landfill (both parties under previous entity names in the agreement) which grants Rochelle Energy LLC the title and interest to

Environmental Attributes associated with emission reductions resulting from the destruction of landfill gas.

Rochelle Energy LLC additionally has a Carbon Credit Purchase and Sale Agreement with Anew Environmental, LLC (both parties under previous entity names in the agreement) which designates Anew Environmental, LLC as the Project Developer under CAR according to the definition given in the US Landfill Protocol V6.0: "an entity that has an active account on the Reserve, submits a project for listing and registration with the Reserve, and is ultimately responsible for all project reporting and verification."

3 Project Eligibility

a Project Location

Provide the project location.

The Project is located in Ogle County at 6513 S Mulford Road in the city of Rochelle, Illinois.

☐ Latitude: 41° 55' 37.11" N

Longitude: 88° 59' 54.43" W

b Project Start Date

Briefly describe the documentation used to demonstrate the date at which the GCCS system became operational, i.e., the date landfill gas was first destroyed in a project destruction device. Provide a description of the start-up testing period (destruction device, timeline, etc.), if applicable. Include what documentation will be provided to the verification body to demonstrate the commencement of methane destruction.

The Project start date is June 12, 2009, which was confirmed through review of the Illinois Environmental Protection Agency (IEPA) approval of the Landfill Operating Permit modification which allowed the Unit #2 Gas Collection Control System (GCCS) to begin operation to collect and destroy methane; therefore, the identified start date is within 90 days of first flow of landfill gas from Unit #2.

c Project Crediting Period

State the project's crediting period as defined in Section 3.2 of the Protocol.

6/12/2019 to 6/11/2029

d Additionality

i Performance Standard Test

Check the box below and provide a brief description of how the landfill gas destruction project meets the performance standard test as outlined in Section 3.4.1 of the protocol.

☐ Installation of a landfill gas collection and a new qualifying destruction device at an eligible landfill where landfill gas has never been collected and destroyed prior to the start date.

☐ Installation of a new qualifying destruction device at an eligible landfill where landfill gas is currently collected and vented, but has never been destroyed in any manner prior to the start date.

☐ Installation of a new qualifying destruction device at an eligible landfill where landfill gas was collected and destroyed at any time prior to the project start date using:

☐ A non-qualifying destruction device (e.g., passive flare)

☐ A destruction device that is not otherwise eligible under the protocol

☒ Installation of a new gas collection system on a physically-distinct cell (or cells) where neither gas collection nor destruction has previously occurred.

Description: The Project consists of the installation of a new gas collection system on physically distinct cells where neither gas collection nor destruction has previously occurred and therefore exceeds the performance standard defined by the CAR Protocol, specifically Scenario 4 from the list provided in Section 3.4.1 of the CAR Protocol. The landfill previously collected and destroyed LFG in an open flare from Unit #1.

ii Limits on Credit Stacking

Disclose if the project participates in carbon or other types of mitigation project types outside of the Reserve. If so, include a brief description of the project activity, the Registry in which the project is listed, and how the two projects do not result in double counting. Confirm that the Reserve and the other registry are aware of and provided approval for credit stacking. If no project stacking / credit stacking is occurring, state, "Not applicable."

Not applicable.

iii Legal Requirement Test

Attest that the project activities are not legally required. Identify any federal, provincial, or local regulations or legally binding mandates that are relevant to the project. State whether the project is subject to NSPS regulations and provide information regarding recent NMOC emission rate testing. Confirm that the landfill has not exceeded the NMOC threshold or provide the date at which the landfill is legally required to implement the GCCS.

The landfill has a permitted capacity above the 2.5 million cubic meter threshold of municipal solid waste that triggers New Source Performance Standard (NSPS) requirements. As such, the most recent non-methane organic compounds (NMOC) emissions rate testing occurred on April 20, 2022. The NSPS Tier II Landfill Gas Sampling Test Report dated April 2022 was prepared in accordance with 40CFR60, Subpart XXX and serves as the five-year compliance report. The report identifies that the NMOC emission rate is estimated to be 26.26 Megagrams (Mg) per year in 2023, which is below the 34 Mg per year threshold established by the NSPS regulation. Therefore, the landfill is not required to operate an active collection system under NSPS requirements.

No other state, local, or federal requirements apply to the Landfill that would necessitate the collection and destruction of the landfill gas.

e Social and Environmental Safeguards

i Social Safeguards

Confirm below that the project is in material compliance with all labor and safety laws for the verification period.

The Project is in material compliance with all labor and safety laws for the verification period.

ii Environmental Safeguards

Confirm below that the project was in material compliance with all environmental regulations during the reporting period, and how the project is designed and implemented in such a way to mitigate potential releases of pollutants that may cause degradation of the quality of soil, air, and surface and groundwater. Provide a brief description of any environmental benefits or harms that have resulted from the project.

Please refer to the Attestation of Regulatory Compliance for confirmation of the project's compliance with environmental regulations. Facility is designed to make beneficial use of landfill gas that would otherwise be emitted to atmosphere, combusting the methane to produce electricity that's exported to the local grid. This reduces the CO₂-equivalent emissions and improves air quality.

Environmental Health and Safety systems are in place to prevent the release of oil or other hazardous contaminants to the soil, air, or water. Flammable and hazardous liquids are stored in containers that are either approved by the U.S. Department of Transportation or by the State Fire Marshall, or listed and labeled by the National Registration and Test Laboratory as approved for such liquids. Waste oil and coolant are picked up by designated 3rd party waste handling companies to be disposed of properly.

f Regulatory Compliance

Provide the national, provincial, and/or local regulatory agencies with jurisdiction over the project boundary. Disclose any instances of non-compliance during the reporting period. Describe how the project will monitor for compliance during future reporting periods.

Environmental Protection Agency, Clean Water Act Permit. Compliance is reported by Landfill which can be checked via EPA ECHO Report. No material violations occurred in reporting period.

Illinois Environmental Protection Agency, Title V Permit. Compliance is reported by Facility which can be checked via EPA ECHO report. No material violations occurred in reporting period.

4 GHG Assessment Boundary

a GHG Assessment Boundary

The table below includes only the SSRs that are included in the project quantification. For all SSRs considered in the GHG Assessment Boundary (included and excluded GHGs and their justification) refer to Table 4.1 in the Protocol.

SSR	Source Description	Gas	Baseline (B) or Project (P)	Confirm each SSR is Included
4	Emissions from Waste Breakdown in Landfill	CH ₄	B,P	☒
5	Emissions from Gas Collection System	CO ₂	P	☒
6	Emissions from Supplemental Fuel	CO ₂ , CH ₄	P	☒

7	Emissions from Project LFG Boiler Destruction	CH ₄	P	☐
	Emissions from Baseline LFG Boiler Destruction	CH ₄	B	☐
8	Emissions from Project LFG Electricity Generation	CH ₄	P	☒
	Emissions from Baseline LFG Electricity Generation	CH ₄	B	☐
9	Emissions from Project LFG Flare Destruction	CH ₄	P	☐
	Emissions from Baseline LFG Flare Destruction	CH ₄	B	☐
10	Emissions from Upgrade of LFG	CO ₂	B,P	☐
11	Emissions from Project LFG Pipeline or other NG end-use	CH ₄	P	☐
	Emissions from Baseline LFG Pipeline or other NG end-use	CH ₄	B	☐

5 Quantifying GHG Emission Reductions

a Quantifying Baseline Emissions

i Summary of Baseline Quantification

Provide the total methane destroyed by the GCCS, factor for the oxidation of methane by soil bacteria, discount factor to account for modeling uncertainties, and adjustment factor to account for baseline LFG destruction device in the verification period, as calculated in the Protocol.

Vintage: 2024	Vintage:
Total methane destroyed: 3,518.52 tCH ₄	Total methane destroyed: tCH ₄
Oxidation factor by soil bacteria: 10%	Oxidation factor by soil bacteria:
Monitoring uncertainties discount factor: 10%	Monitoring uncertainties discount factor:
Adjustment factor for baseline LFG destruction device: 10%	Adjustment factor for baseline LFG destruction device:
Baseline Emissions: 88,666 tCO ₂ e	Baseline Emissions: tCO ₂ e

b Quantifying Project Emissions

i Site-Specific Destruction Efficiency

Provide the name of the state or local agency accredited service provider utilized to conduct the site-specific destruction efficiency testing, as well as the date the test was conducted and the destruction efficiency used for quantification.

Not Applicable.

ii Summary of Project Emissions

Provide the total carbon dioxide emissions from the destruction of fossil fuel, total carbon dioxide emissions from the consumption of electricity from the grid, and the total quantity of emissions from supplemental natural gas in the verification period, as calculated in the Protocol.

Vintage: 2024	Vintage:
Emissions from fossil fuel use: 0.0 tCO ₂	Emissions from fossil fuel use: tCO ₂
Emissions from electricity use: 0.0 tCO ₂	Emissions from electricity use: tCO ₂
Emissions from supplemental natural gas: N/A tCO ₂	Emissions from supplemental natural gas: tCO ₂
Project Emissions: 0.0 tCO ₂ e	Project Emissions: tCO ₂ e

c Final CRT Summary

Summarize the final result for determining the net GHG Reductions by vintage.

Vintage: 2024	Vintage:
Baseline Emissions: 88,666 tCO ₂ e	Baseline Emissions: tCO ₂ e
Project Emissions: 0.0 tCO ₂ e	Project Emissions: tCO ₂ e
Total GHG Emission Reductions/Removals: 88,666 tCO ₂ e	Total GHG Emission Reductions/Removals: tCO ₂ e

6 Project Monitoring

Check the boxes below and attest that project monitoring has occurred according to the Protocol. If requirements were not met, please list the date of variance request and fill out Section 7.

Have all monitoring and QA/QC requirements been met? ☒ Yes ☐ No

Have all field checks and calibrations been performed by a third-party? ☒ Yes ☐ No

Date of Variance Request, if applicable:

7 Variance Request

If a variance was requested during the reporting period, provide a brief description of the rule/requirement in the protocol in question, the conditions of the determination, and the date of the variance request and determination.

Date of Variance Request:

Protocol Section and Rule/Requirement:

Description of how the project did not meet the protocol requirement above:

Date Reserve Issued Determination:

Variance Conditions:

8 Project Documentation

The following documents are required to be submitted for project registration. In cases where there is proprietary information, please provide unredacted and redacted versions. If additional documents were submitted, please include the document title and its associated file name.

Document	File Name
Project Diagram	2024 Project Diagram.png
Attestation of Title	Rochelle Attestation-Regulatory-Compliance 2024.pdf
Attestation of Voluntary Implementation	Rochelle Attestation-Title-2024.pdf
Attestation of Regulatory Compliance	Rochelle Attestation-Voluntary-Implementation 2024.pdf
Monitoring Plan	2024 Rochelle Project Monitoring Report.pdf
Project Contributions to the U.N. Sustainable Development Goals Report Tool (if applicable)	2024 Rochelle SDG-Reporting-Tool-v2.0-1.pdf
Project Data Report (this document)	2024 Rochelle Project Data Report REV1.pdf
List of Findings	
Variance Request (if applicable)	
Environmental and Social Safeguards Assessment Form	2024 Rochelle CAR Social-Environmental-Safeguards-Assessment-Form.pdf