

OUTPUT AUDIT STATEMENT

350Solutions, Inc. has verified CO₂ removal capability and eligibility for CO₂ Removal Credits (CORCs) under the Puro.Earth Puro Standard General Rules v 3.0 and Geologically Stored Carbon Edition 2021 for the following company:

Technology & Company Information		
CO ₂ Removal Supplier & Facility Operator	Production Facility Location(s)	CO ₂ Removal Method
Red Trail Energy LLC	3682 North Dakota 8, Richardton, ND 58652, Facility ID: 353054	Geologically Stored Carbon

350Solutions affirms that Red Trail Energy LLC has the appropriate equipment, procedures, and protocols in place and documented to quantify carbon dioxide (CO₂) removal through the measured injection of CO₂ in permitted Class VI wells and appropriate lifecycle analysis in accordance with the requirements of the Puro.Earth General Rules and Geologically Stored Carbon Methodology. Eligibility criteria are verified as follows:

Eligibility Criteria		
Criteria	Verified Eligibility Status	Rationale
<i>Stores Carbon Dioxide in Geologic Formations</i>	Eligible	CO ₂ is injected into a permitted Class VI well.
<i>CO₂ Biogenic Origin</i>	Eligible	CO ₂ sources are not mixed with fossil sources of carbon
<i>Net Negative LCA</i>	Eligible	Documented via valid LCA report
<i>Raw Materials are Sustainably Sourced</i>	Eligible	Biomass materials are procured regionally for ethanol production. Sustainable sourcing documentation is available
<i>Environmental & Social Safeguards</i>	Eligible	Facility properly permitted and compliance demonstrated
<i>Additionality</i>	Eligible	Project not required by regulation. Carbon finance supports financial viability
<i>Carbon Content Quantification</i>	Eligible	Injected gas CO ₂ purity analysis is conducted by third party on several representative samples.
<i>Production Facility Data</i>	Eligible	Production facility data matches Puro.Earth Registry and meets the Puro.Earth definition of a 1st generation ethanol plant
OVERALL ELIGIBILITY	ELIGIBLE	
<i>Reporting Period</i>	08/01/2023 to 01/31/2025	
<i>Total Verified CORCs</i>	221264	

350Solutions has audited and verified eligible CO₂ removals for the facility and period specified above. CO₂ removal credits have been calculated in accordance with the Puro.Earth Standard Rules and Geologically Stored Carbon Methodology. Additional details regarding the Output Audits can be found in the Output Audit Report – Red Trail Energy (Document ID 350VR-RTE-PU2406).

Verifier Information		
Verification Body	Lead Verifier	Verification ID No.
350Solutions, Inc.	Kelly Inder-Nesbitt	VS-RTE-PU2406

Signed: Kelly Inder-Nesbitt (Lead Verifier)



Bill Chatterton, Feb 27, 2025

Bill Chatterton (Peer Reviewer)



Issue Date:
 February 27, 2025
 Valid for 5 years
 from date of issue

OUTPUT AUDIT STATEMENT:

Red Trail Energy LLC

Additional Information

TECHNOLOGY DESCRIPTION

The Red Trail Energy LLC (RTE) project captures CO₂ generated by the corn fermentation process during ethanol production. Fermentation exhaust is cleaned using a water scrubber which separates any remaining ethanol and other impurities to produce a purity stream of CO₂. From the scrubber, CO₂ exhaust is sent to compressors to raise its pressure to 325 psi. Upon compression, the CO₂ is dehydrated to remove any remaining water and is then sent to a refrigeration unit where it is subcooled to a liquid at -10°F. The condensed CO₂ is then lightly distilled and pumped through a flowline to an injection well onsite where it is sequestered permanently in the Broom Creek formation. The injected gas has high CO₂ purity (greater than 99.9%) with only trace quantities of nitrogen and oxygen. The process is summarized in Figure 1.

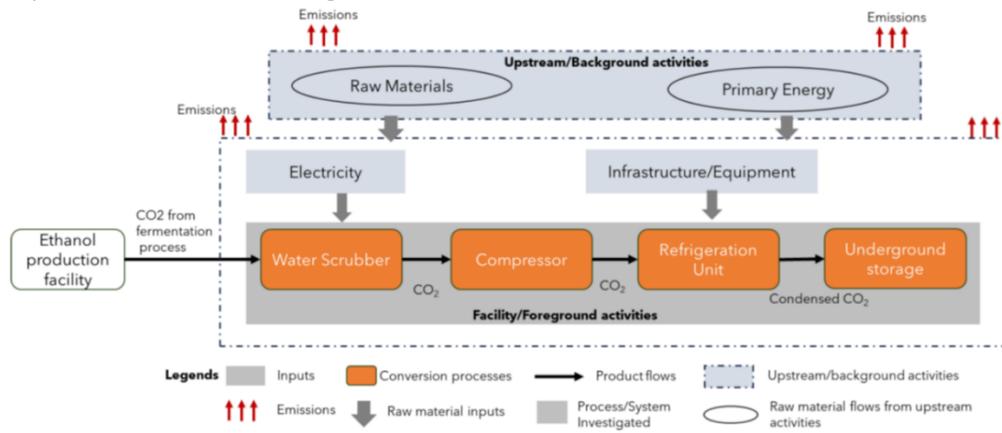


Figure 1. Red Trail Energy Carbon Capture and Geological Storage Process

VERIFICATION DESCRIPTION

Verification activities were conducted by 350Solutions to independently verify the operations, supporting data, and CORC claims. The verification was conducted following the specifications of Puro General Rules v 3.0 and the Geologically Stored Carbon Methodology, Edition 2021. The Output Audit was completed remotely from January 14th – February 27th 2025.

DATA QUALITY & LEVEL OF ASSURANCE

350Solutions is an ANAB-accredited ISO/IEC 17020:2012 independent inspection body for ISO 14034:2016 Environmental Technology Verification. The 350Solutions Quality Management Plan and Quality Systems Procedures generally apply to activities associated with the Output Audit performed in accordance with the Puro Standard. 350Solutions utilized a reasonable level of assurance in performance of the Output Audit.

In broad terms, the data provided by RTE in accordance with the Puro Standard and methodology requirements was found to be acceptable for verification of initial CORC claims. Requirements and recommendations for improvement of data quality are provided in the Verification Report. All findings of the data quality review support verification of the performance claims and conform to the requirements of the standards.

Notice: 350Solutions, Inc. declares that we are an impartial auditor, free from any conflicts of interest, capable, and qualified to complete this audit according to Puro Standard and related Validation and Verification Body Requirements. Verifications and audits conducted by 350Solutions are based on an evaluation of technology performance and CO₂ removal claims via site visit observations and review of data submitted by the audited company. Audits are completed in accordance with rules and methodologies specified by client and utilizing the appropriate quality assurance procedures. 350Solutions makes no expressed or implied warranties as to the performance of the technology and does not certify that a technology will always operate at the levels verified, nor that it meets all state, local, or federal legal requirements.