



## PURO.EARTH FACILITY AND OUTPUT AUDIT REPORT

# Carbon Sequestration, Inc Hardin

**Puro Standard General Rules Version v3.1 (Issued in Feb 2024)**

Audit Start - End date: 23.9.2024 – 25.10.2024

Project Number: PRJN-701042

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Puro Standard: Terrestrial Storage of Biomass Edition 2023 v.1



## Table of contents

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<b>INTRODUCTION .....</b>	<b>3</b>
DNV .....	3
<b>PRODUCTION FACILITY STANDING DATA (PURO GENERAL RULES ).....</b>	<b>4</b>
GENERAL INFORMATION .....	4
BASE FOR CALCULATIONS IN OUTPUT REPORT.....	4
SHORT DESCRIPTION OF FACILITY AND ANY EXCLUSIONS FROM VERIFICATION SCOPE OBSERVED....	4
STATEMENT OF CONFIDENTIALITY .....	4
DISCLAIMER .....	5
<b>AUDIT RESULTS .....</b>	<b>6</b>
DETAILED OUTPUT REMOVAL VERIFIED .....	6
POSITIVE INDICATIONS .....	6
RECOMMENDATIONS FOR IMPROVEMENT.....	6
<b>AUDIT FINDINGS.....</b>	<b>7</b>
DETAILED FINDINGS REQUIRING CORRECTIVE ACTIONS:.....	7
<b>CONCLUSION .....</b>	<b>7</b>

### Attachments:

**ATTACHMENT 1 Audit checklist - Terrestrial Storage of Biomass\_v1\_10072024 requirements and verification results**



## Introduction

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This report summarises the results and conclusions from the performed facility and output audit. The audit is performed as a formal part of the Puro.earth certification process. The key objective is to determine the compliance of the operations with the Puro requirements.

### DNV

DNV is one of the world's leading certification, assurance, and risk management providers.

Whether certifying a company's management system or products, providing training, or assessing supply chains, and digital assets, we enable customers and stakeholders to make critical decisions with confidence.

We are committed to support our customers to transition and realize their long-term strategic goals sustainably, collectively contributing to the UN Sustainable Development Goals.



## Production facility standing data

(PURO General rules Biochar methodology)

### General information

Facility unique identity	Facility ID 959739
CO2 Removal Supplier registering the Production Facility	CSI Inc
Name	CSI Hardin
Location	Hardin, Texas, USA
Date on which the Production Facility became eligible to receive CORCs	October 25, 2024
Removal Method(s) for which the plant is eligible to receive CORCs	Terrestrial Storage of Biomass
Production Facility has benefited from public support	No
Removal Method specific information as may be specified in the relevant Removal Method specific Methodology	Terrestrial Storage of Biomass Edition 2023 V1

### Base for calculations in Output report

CORC Issuance details					
Parameter	Unit	Value	Min	Max	Remarks
<b>Activity details</b>					
Nb of storage units validated for CORC issuance this period	units	4	NA	NA	
Dry mass of biomass placed in storage units for CORC issuance	dry metric tonne	3066	NA	NA	
Average amount of biomass per storage units, at facility	dry metric tonne	767	142.83	2139.09	
Average carbon content of biomass used, at facility	% weight, dry basis	48.0%	45.00%	50.00%	

### Short description of facility and any exclusions from verification scope observed

Facility is terrestrial pit filled with wood and soil, with monitoring equipment in the form of PVC tubes laid above the pit which are sampled during monitoring.
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### Statement of confidentiality

The contents of this report, including any notes and checklists completed during the audit will be treated in strictest confidence, and will not be disclosed to any third party without the



**Page 5 of 7**

written consent of the customer, except as required by the appropriate accreditation authorities.

**Disclaimer**

An audit is based on verification of a sample of available information. Consequently, there is an element of uncertainty reflected in the audit findings. An absence of nonconformities does not mean that they do not exist in audited and/or other areas. Prior to awarding or renewing an assurance opinion this report is also subject to an independent DNV internal review which may affect the report content and conclusions.

## Audit results

### Detailed output removal verified

<i>CORC Issuance details</i>					
Parameter	Unit	Value	Min	Max	Remarks
<b>Activity details</b>					
Nb of storage units validated for CORC issuance this period	units	4	NA	NA	
Dry mass of biomass placed in storage units for CORC issuance	dry metric tonne	3066	NA	NA	
Average amount of biomass per storage units, at facility	dry metric tonne	767	142.83	2139.09	
Average carbon content of biomass used, at facility	% weight, dry basis	48.0%	45.00%	50.00%	
<b>Life cycle greenhouse gas emissions, totals over reporting period</b>					
E_stored	tonne CO <sub>2</sub> -eq	5396.73	NA	NA	
E_re-emissions as CO <sub>2</sub>	tonne CO <sub>2</sub> -eq	320.57	NA	NA	
E_re-emissions as CH <sub>4</sub>	tonne CO <sub>2</sub> -eq	1565.91	NA	NA	
E_unit_construction	tonne CO <sub>2</sub> -eq	18.24	NA	NA	
E_biomass	tonne CO <sub>2</sub> -eq	57.63	NA	NA	
E_unit_sealing	tonne CO <sub>2</sub> -eq	11.06	NA	NA	
E_site_establishment	tonne CO <sub>2</sub> -eq	0.10	NA	NA	
E_site_closing	tonne CO <sub>2</sub> -eq	0.47	NA	NA	
CORCs claimed	tonne CO <sub>2</sub> -eq	3248.69	NA	NA	a, b

### Positive indications

- Data collection and CORC calculations are systematic.
- File management is systematic.

### Recommendations for improvement

- NA.



## Audit findings

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### Detailed findings requiring corrective actions:

NA.

## Conclusion

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Conclusion	
The company is found compliant towards CORC requirement, and a certificate can be issued	Yes
The company is found NOT to be fully compliant towards CORC requirement and corrective actions are needed before a certificate can be issued	







<p>6.3.10</p>	<p>For a half-ground storage chamber without a ventilation system, the CO2 supplier may utilize oxidation rates provided by the manufacturer's reporting programme where the corresponding conditions are met (see table 3 of the Purasam TSE methodology v. 4). In such a case, the CO2 Removal Supplier must present evidence of the quantitative empirical determination using one of the methods described in 6.3.9. In such a case, the CO2 Removal Supplier must present evidence of the quantitative empirical determination using one of the methods described in 6.3.9. In such a case, the CO2 Removal Supplier must present evidence of the quantitative empirical determination using one of the methods described in 6.3.9. In such a case, the CO2 Removal Supplier must present evidence of the quantitative empirical determination using one of the methods described in 6.3.9.</p>	<p>Desktop Review</p>	<p>Implemented - see updated LCA, 8.80% decomposition rate used N/A - no ventilation system in assemblie</p>	<p>LCA 8.2.24</p>	<p>Y</p>	
<p>6.3.11</p>	<p>For a half-ground storage chamber without a ventilation system, the CO2 supplier may utilize oxidation rates provided by the manufacturer's reporting programme where the corresponding conditions are met (see table 3 of the Purasam TSE methodology v. 4). In such a case, the CO2 Removal Supplier must present evidence of the quantitative empirical determination using one of the methods described in 6.3.9. In such a case, the CO2 Removal Supplier must present evidence of the quantitative empirical determination using one of the methods described in 6.3.9. In such a case, the CO2 Removal Supplier must present evidence of the quantitative empirical determination using one of the methods described in 6.3.9.</p>	<p>Desktop Review</p>	<p>Implemented - see updated LCA, 8.80% decomposition rate used N/A - no ventilation system in assemblie</p>	<p>LCA 8.2.24</p>	<p>Y</p>	
<p>6.3.2</p>	<p>For each reporting period, the CO2 Removal Supplier must update the calculated supply-chain emissions with activity data which has been measured and recorded according to the requirements of the methodology, refer to 6.3.3.</p>	<p>Desktop Review</p>	<p>Reporting period beginning upon issuance of CORCA, see Gas Monitoring Protocol</p>	<p>Gas Monitoring Protocol</p>	<p>Y</p>	