QUALITY REPORT

Carbon Cycle, 001, Rieden, DE

PUR-511285 · Puro · Germany

Report ID: CM-0B7E4ACB · Generated: 2026-04-02 · Scoring Methodology: General v2.0

5.0 Overall Score out of 10	Integrity (35%)	5.2
	Transparency (25%)	5.0
	Claim Safety (25%)	4.6
	Documentation (15%)	5.4

Weights: Integrity 35% · Transparency 25% · Claim Safety 25% · Documentation 15%

Assessment Summary

This Puro biochar removal project has VVB-confirmed additionality via an investment test, but key integrity elements (leakage treatment, permanence/buffer approach, and quantified verified removals) are not clearly evidenced in the extracted record. The verification report lists multiple corrective actions focused on LCA inputs (dry weight, transport distances, infrastructure emissions), which raises over-crediting risk until resolved.

Project Details

Registry	Puro
Registry ID	PUR-511285
Sector	biochar
Country	Germany
Vintage	2023, 2024
Project Methodology	Puro.earth CO2 Removal Marketplace General Rules 3.1 – and Annex A: Biochar Methodology 3.1
Crediting Period	2019 — 2025
VVB	bio.inspecta AG
Monitoring Period	2023 — 2024
Confidence	High
Documents Reviewed	10 documents reviewed
Scored	2026-04-02

Red Flags

- ■ Verification report (2024) requires corrective actions on core LCA drivers (dry weight, transport distances, infrastructure emissions), indicating potential overstatement of removals if not corrected.
- ■ Leakage is not addressed in the extracted record and no leakage deduction is reported, despite logistics being a material emissions source for biochar systems.
- ■ No verified removal total is available in the extracted record, limiting confidence in issued/claimable quantities.

Score Breakdown

Integrity — 5.2 / 10

+ The verification report (2024) confirms additionality using an investment test.

- The verification report (2024) flags multiple corrective actions affecting LCA inputs (transport distances, dry weight, infrastructure emissions), weakening confidence in baseline/net removal integrity.

The verification report (2024) confirms additionality via an investment test, which supports additionality robustness. However, the same verification report lists corrective actions requiring rectification of dry weight, transport distances, customer addresses for distance verification, and potential under-reporting of infrastructure emissions due to lifetime capacity assumptions—issues that can materially change net removals. Leakage is not addressed in the extracted record and no leakage deduction is reported, which is a notable integrity gap for a biochar supply chain with transport emissions.

Transparency — 5.0 / 10

+ The verification report (2024) identifies the VVB (bio.inspecta AG) and specifies the monitoring period (2023-10-01 to 2024-08-31).

- The extracted record does not provide claimed vs verified removal totals, and leakage treatment is not documented.

The verification report (2024) provides clear third-party involvement (bio.inspecta AG) and a defined monitoring period (2023-10-01 to 2024-08-31). At the same time, the extracted record does not include total removals claimed or verified, preventing a basic cross-check of issuance quantities. Several MRV-relevant items (usage monitoring method, leakage deduction, and key accounting parameters) are not found in the extracted record, reducing transparency.

Claim Safety — 4.6 / 10

+ The project is assessed under Puro.earth General Rules 3.1 and Annex A Biochar Methodology (version 3.1), providing a defined accounting framework.

- Corrective actions in the verification report (2024) relate to emissions-sensitive parameters (transport, infrastructure), increasing over-crediting/greenwashing risk until closed.

Because the project follows Puro.earth General Rules 3.1 and the Biochar Methodology (Annex A), the accounting approach is at least anchored to a recognized program framework. Claim safety is weakened by the verification report’s (2024) corrective actions on parameters that directly affect net climate benefit (transport distances, dry weight, infrastructure emissions), which elevates the risk of over-crediting if credits were issued before corrections. CORSIA eligibility and CCP status are not stated in the extracted record, leaving uncertainty about how claims might be interpreted in higher-integrity buyer contexts.

Documentation — 5.4 / 10

+ A recent verification report is available (dated 2024-12-01) with an identified VVB and no material findings reported.

- Evidence document labeling is weak in the extracted record (evidence docs listed as “unknown”), and several key fields are not found (buffer, reversals, leakage deduction, grievance/FPIC).

A recent verification report is present (2024-12-01) and identifies the VVB, and the extracted record indicates no material findings reported. However, multiple key fields are not found (buffer pool, reversals, leakage deduction, FPIC, grievance mechanism), and the evidence document list is not specific (shown as “unknown”), which limits auditability from the extracted package. Extraction confidence is medium, which is acceptable but still suggests some caution in relying on completeness.

Risk Indicators

Additionality	VVB-confirmed investment test
Permanence	Buffer/reversal provisions not evidenced
Leakage	Leakage not addressed
Baseline	Project-specific baseline; reassessment not evidenced
Safeguards	Safeguards mentioned, but FPIC/grievance not evidenced
Double-claim	CORSIA/CCP status not stated

What Would Improve This Score

→ Provide the updated LCA and explicit closure evidence for each corrective action in the verification report (2024), including corrected dry weight, verified transport distances (with customer addresses), and revised infrastructure emissions assumptions.

→ Disclose quantified results (total removals claimed and verified for the monitoring period) and document leakage treatment (deduction percentage or justified negligible leakage) consistent with the Puro biochar methodology.

Documents Reviewed

- Audit_2024_CarbonCycle001Rieden_report.pdf
- Audit_2021_CarbonCycle001Rieden_statement.pdf
- Cycle001Rieden_statement.pdf
- Audit_2020_CarbonCycle001Rieden_statement.pdf
- Cycle001Rieden_report.pdf
- Additionality_CarbonCycle001Rieden.pdf
- Audit_2022_CarbonCycle001Rieden_statement.pdf
- DE.pdf
- Description_CarbonCycle001Rieden.pdf
- Audit_2024_CarbonCycle001Rieden_statement.pdf

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