

## REGISTRY AGENT REVIEW

### Credit Issuance

Project Name	Botany Farm Partnership
Project ID	C06-006
Reporting Period	01/01/2022 - 01/01/2023
Date of Submission	11/20/2024
Credit Protocol	GHG Benefits in Managed Crop and Grassland Systems 1.5.1 <b>Methodology:</b> Soil Organic Carbon Estimation in Regenerative Cropping and Managed Grassland Ecosystems. v 1.1
Regen Registry Program Guide Version	1.1
Project Proponent	David Wright, ecometric Ltd.
Registry Agents	Rebecca Harman, Regen Network Development, PBC.
Documents Submitted	<p>4997Botany22 Soil Organic Carbon Project Report - Baseline</p> <p>4998Botany23 Soil Organic Carbon Project Report - Monitoring Round 2023</p> <p>4998Botany23_GHG_Emissions_30_Sep_2023.pdf</p> <p>Emissions Raw Data: Soil Samples, Carbon Data Collection, Spray &amp; Fertilizer, Equipment List, Cultivation, Drilling, Fertilising and Harvesting Fuel use, Fuel Usage, SOYL Maps, Stewardship Areas</p> <p>4998Botany23_Ecometric_Sample_Blocks-4326.shp</p> <p>4998Botany23_Ecometric_Sample_Cores-4326.shp</p> <p>4998Botany23_Ecometric_Sample_Fields-4326.shp</p> <p>4998Botany23_Sample_Points_4326.shp</p> <p>4998Botany23_Ecometric_Sample_Plan</p>

	4998Botany23_Ecometric_Sample_Plan_Results.csv
	4998Botany23_Net_Training_Data_Input_20240116
	4998Botany23_Historic_5_Year_Management_and_Average_Yields
	4998Botany23_Net_Results_Images
	4998Botany23_Sampled_Net_Results-20240116-12-12-200
	4998Botany23_Project_Net_Results-20240116-12-12-200

## 1 Registry Agent Review Overview

### Registry Agent Role in Credit Issuance

The Registry Agent serves as the primary evaluator for projects seeking to issue credits under the Regen Registry Program. During credit issuance review, the Registry Agent conducts a comprehensive assessment of the Monitoring Report and supporting documentation to verify compliance with Program Guide and Credit Protocol requirements. The Registry Agent must ensure that all monitoring and verification elements are properly documented and all requirements have been met before credits can be issued on Regen Ledger.

### Registry Agent Review Checklist

The Registry Agent Review Checklist provides a systematic framework for evaluating project compliance with the Regen Registry Program Guide and associated Credit Protocol. The checklist is organized by key requirements, with each requirement referencing specific Program Guide or Credit Protocol sections, defining required evidence, providing space to document submitted evidence, and including approval status and Registry Agent comments. Each requirement is assessed individually with decisions based on concrete evidence. This structured approach ensures thorough review of documentation while maintaining consistency across different projects and reviewers.

### Approval Categories

Approval determinations are made based on concrete evidence submitted by Project Proponents. For each requirement, the Registry Agent must verify that submitted evidence adequately demonstrates compliance. When evidence is insufficient or missing, the Registry Agent documents specific deficiencies and required actions for the Project Proponent.

Approval Categories indicate whether a submission meets Program requirements.

- Approved: The submitted evidence fully satisfies the requirements
- Not Approved: The evidence is either insufficient or missing, requiring additional documentation or clarification (note: projects may request requirements deviations is unable to provide sufficient evidence)

Approval means that the Registry Agent found that the project fully met the requirements for credit issuance with the submission of the Monitoring Report and supplementary documentation.

## 2 Review Outcome

### Review Status

[ ☒ ] Approved

[ ☐ ] Not Approved

### Outcome Summary

*The Neesham Farm submission for issuance has been approved for credit issuance, having successfully met all required criteria under the Regen Registry Program Guide and the **GHG Benefits in Managed Crop and Grassland Systems** Credit Protocol. The submitted **Monitoring Report, soil sampling data, AI-driven SOC analysis, and emissions calculations** were reviewed and found to be compliant with program requirements.*

*A signed statement of fiduciary obligation is forthcoming, which does not affect the conservativeness of the project. Note that the Registry Agents were not able to open the files in the "AI" folder based on the file types; the Verifier will need to access and check those files.*

*No further action is required at this stage, and credits are now **eligible for issuance on Regen Ledger**.*

### Required Actions:

- None

## 2.2 3 Registry Agent Review Checklist

Credit Issuance					
Category	Requirement	Accepted Evidence	Submitted Material	Approved	Comments
<b>Project Boundaries</b>	Clearly define the project area using geographic boundaries, with eligible and ineligible portions clearly demarcated  <b>Source:</b> Methodology, Section 2.1	ESRI polygon shapefiles, KML/KMZ files, GeoJSON	<b>Primary Documentation:</b> 4997Botany22 Soil Organic Carbon Project Report: Baseline 2022 Figure 1 & 4998Botany23 Monitoring Round Report 2023 - Figure 1 Project SOCS  <b>Supplementary Evidence:</b> 4998Botany23_Ecometric_Sample_Blocks-4326.shp; 4998Botany23_Ecometric_Sample_Fields-4326.shp	Approved	
<b>Data Reporting</b>	Must include summary quantification results, number of credits Project Proponent is eligible for, apply any estimation uncertainty deductions, follow templates and procedures of approved Credit Protocol; must include soil sampling, analysis of	Stated in Monitoring Report, Soil Samples, Analysis of Samples, SOC Maps in Monitoring Report	<b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Report 2023: Executive Summary, Figures 1, 2 and 3  <b>Supplementary Evidence:</b> 4998Botany23_GHG_Emissions_30_Sep_2023.pdf;	Approved	

	<p>samples, equations and references, the SOC maps</p> <p><b>Source:</b> Program Guide, Section 11.3.4, Methodology Section 5</p>		4998Botany23_Ecometric_Sample_Plan		
<b>Project Monitoring</b>	<p>Describe the current status of project operation, and include the data monitored, the monitoring plan, the calculated emission reductions and ecological indicators for the Reporting Period</p> <p><b>Source:</b> Program Guide, Section 9.2.2; Methodology, Section 5</p>	Stated in Monitoring report	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Report 2023: Table 2: Carbon Balance; Appendix: Project Information, Monitored Impact Information, Summary,</p> <p><b>Supplementary Evidence:</b> 4998Botany23_GHG_Emissions_30_Sep_2023.pdf</p>	Approved	
<b>Monitoring Period</b>	<p>Define the current monitoring period, including start and end dates.</p> <p><b>Source:</b> Program Guide Section 11.6</p>	Monitoring period dates clearly stated in the report	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023:, Executive Summary, Project Outline</p>	Approved	Monitoring year 2023
<b>Soil Sampling Methods &amp; Scheme</b>	<p><b>Sampling Design:</b> Provide sampling stratification design with average strata size, core numbers per stratum, including method for assigning strata boundaries and core locations. A minimum of 10 soil cores per stratum is</p>	Stratification map showing sampled area, soil Sample Report from the laboratory, description of method for strata determination and size	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Figure 2: Monitoring Period Net SOCS Change; Appendix: Sampling Method</p> <p><b>Supplementary Evidence:</b></p>	Approved	Change from 1 ha grid 50% coverage to 4 ha grid 100% coverage between baseline and next monitoring round

	<p>required.</p> <p><b>Source:</b> Methodology, Section 5.1.1</p>		<p>4998Botany23_Ecometric_Sample_Plan; 4998Botany23_Ecometric_Sample_Plan_Results.csv; 4998Botany23_Ecometric_Sample_Blocks-4326.shp; 4998Botany23_Ecometric_Sample_Cores-4326.shp; 4998Botany23_Ecometric_Sample_Fields-4326.shp</p>		
	<p><b>Sampling Depth:</b> Soil samples will be taken to a depth of 0-30cm, and all cores within each stratum must be composited into a single sample. Consistent sampling depth.</p> <p><b>Source:</b> Methodology, Section 3.4</p>	<p>Soil Sample Report detailing sampling depth and compositing method</p>	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Appendix: Sampling Method</p> <p><b>Supplementary Evidence:</b> 4998Botany23_Ecometric_Sample_Plan_Results.csv, Column W</p>	Approved	
	<p><b>Sampling location:</b> geo-locations of the actual in-field core positions will be reported by the sampling team and recorded in supporting data to evidence that the sampling scheme was followed</p> <p><b>Source:</b> Methodology, Section 3.5.1</p>	<p>List of geolocations of in-field core positions</p>	<p><b>Supplementary Evidence:</b> 4998Botany23_Ecometric_Sample_Blocks-4326.shp; 4998Botany23_Ecometric_Sample_Cores-4326.shp; 4998Botany23_Ecometric_Sample_Fields-4326.shp</p>	Approved	

	<p><b>Sampler Details:</b> Report of the sampling date, contractor and equipment including tool diameter for core samplers and proper compositing techniques</p> <p><b>Source:</b> Methodology, Section 5.1.1</p>	Description of sampling event and compositing method	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Project Outline table; Appendix: Sampling Method</p> <p><b>Supplementary Evidence:</b> 4998Botany23_Ecometric_Sample_Plan_Results.csv: Columns R; Appendix Sampling Method</p>	Approved	
	<p><b>GNSS Accuracy:</b> Record the accuracy of GNSS used for soil sampling locations. Minimum accuracy should be <math>\pm 4\text{m}</math>.</p> <p><b>Source:</b> Methodology, Section 3.5.4</p>	GNSS device details, accuracy report (minimum $\pm 4\text{m}$ ) for all recorded soil sample locations	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Appendix: Sampling Method</p>	Approved	
SOC Analysis	<p><b>Analysis Parameters:</b> SOC % analysis must follow standard recommendations and be reported. Same analysis type continued through the crediting period.</p> <p><b>Source:</b> Methodology, Section 5.1.1</p>	Laboratory analysis indicating analysis method used and showing %SOC, total soil volume, bulk density, and SOC stock calculation	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Sampling Method, DUMAS method</p> <p><b>Supplementary Evidence:</b> 4998Botany23_Ecometric_Sample_Plan_Results: Column V Bulk density, Column AE SOC, Column AH SOCS</p>	Approved	
	<p><b>Laboratory:</b> include name and accreditation</p>	Name and accreditation of laboratory	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round</p>	Approved	

	<b>Source:</b> Methodology, Section 5.1.1		Report 2023: Appendix: Laboratory Analysis		
AI	<b>Training:</b> Inclusion of AI training method summary  <b>Source:</b> Methodology, Section 5.1.1	Description in monitoring report	<b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Appendix: AI Processing  <b>Supplementary Evidence:</b> 4998Botany23_Net_Training_Data_Input_20240116	Approved	
	<b>Accuracy:</b> Detailing of method used to quantify AI accuracy during monitoring period  <b>Source:</b> Methodology, Section 5.1.1	Description in monitoring report	<b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Appendix: AI Processing, Accuracy  <b>Supplementary Evidence:</b> 4998Botany23_Net_Training_Data_Input_20240116	Approved	
	<b>Network Prediction Uncertainty:</b> The network prediction uncertainty will be quantified using the MAPE  <b>Source:</b> Methodology, Section 3.7	MAPE calculation for network prediction uncertainty, under 20% uncertainty	<b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Appendix: AI Processing  <b>Supplementary Evidence:</b> 4998Botany23_Sampled_Net_Results-20240116-12-12-200; 4998Botany23_Project_Net_Results-20240116-12-12-200	Approved	MAPE reported at 7.12% for 2022, 4.98% for 2023



Image & Ancillary Data Processing	<p>Use imagery with a sensing date as close as possible to the sampling date, but within <math>\pm 4</math> months</p> <p><b>Source:</b> Methodology, Section 3.5.7</p>	<p>Imagery and ancillary data reports, including sensing dates and processing logs</p>	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Appendix: AI Results</p> <p><b>Supplementary Evidence:</b> 4998Botany23_Net_Results_Image; 4998Botany23_Sampled_Net_Results-20240116-12-12-200; 4998Botany23_Project_Net_Results-20240116-12-12-200</p>	Approved	Registry Agents unable to open .mat file types and cross check their contents.
Results	<p><b>AI SOC Results:</b> Show field level results in numerical and map form for AI SOC results.</p> <p><b>Source:</b> Methodology, Section 5.1.1</p>	<p>Field results with field area (ha), monitoring interval crop type, Net mean SOCS after deduction of MAPE. After baseline, results listed for previous and current.</p>	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023:, Figure 1: Project SOCS, Figure 2: Monitoring Period Net SOCS Change, Figure 3: SOC Results Map</p> <p><b>Secondary Evidence:</b> 4998Botany23_GHG_Emissions_30_Sep_2023.pdf; Emissions Raw Data: Soil Samples, Carbon Data Collection, Spray &amp; Fertilizer, Equipment List, Cultivation, Drilling, Fertilising and Harvesting Fuel use, Fuel Usage, SOYL Maps, Stewardship Areas</p>	Approved	
	<p><b>Soil sample results:</b> Show in numerical and map form the tabulated results by field of sampling</p>	<p>Sampling report to include crop type, sampled field area, SOCS total (t/ha), stone content %, SOCS field total (t)</p>	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Project Outline with</p>	Approved	

	<p><b>Source:</b> Methodology, Section 5.1.1</p>		<p>sampling dates, number of samples and SOC results</p> <p><b>Supplementary Evidence:</b> 4998Botany23_Ecometric_Sample_Plan_Results.csv: Crop type, field, stone content, SOC included</p>		
	<p><b>ΔSOC:</b> SOCs change between monitoring rounds (tSOC) and [tCO<sub>2</sub>e]</p> <p><b>Source:</b> Methodology, Section 5.1.1</p>	<p>Map or Table showing SOC change between monitoring periods</p>	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Table 2:Carbon Balance, Figure 3:SOC Results Map</p>	<p>Approved</p>	
Emissions	<p>Current year GHG Emissions</p> <p><b>Source:</b> Methodology, Section 5.1.1</p>	<p>Current year GHG Emission report references with link to detailed GHG Emission Report</p>	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Project Emissions Change 2022:2023, Table 2: Carbon Balance</p> <p><b>Supplementary Evidence:</b> 4998Botany23_GHG_Emissions_30_Sep_2023.pdf; Emissions Raw Data: Soil Samples, Carbon Data Collection, Spray &amp; Fertilizer, Equipment List, Cultivation, Drilling, Fertilising and Harvesting Fuel use, Fuel Usage, SOYL Maps, Stewardship Areas</p>	<p>Approved</p>	

	<p>GHG Emissions change between monitoring rounds [tCO<sub>2</sub>e]</p> <p><b>Source:</b> Methodology, Section 5.1.1</p>	Documentation of GHG emissions change	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023:Project Emissions Change 2022:2023, Table 2: Carbon Balance</p> <p><b>Supplementary Evidence:</b> 4998Botany23_GHG_Emissions_30_Sep_2023.pdf; Emissions Raw Data: Soil Samples, Carbon Data Collection, Spray &amp; Fertilizer, Equipment List, Cultivation, Drilling, Fertilising and Harvesting Fuel use, Fuel Usage, SOYL Maps, Stewardship Areas</p>	Approved	
	<p><b>Emissions contractor:</b> Contact of independent contractor used to gather GHG Emissions data and calculate GHG emissions</p> <p><b>Source:</b> Methodology, Section 5.1.1</p>	Independent contractor contact	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023:, Appendix: Greenhouse Gas Emissions Monitoring</p> <p><b>Supplementary Evidence:</b> 4998Botany23_GHG_Emissions_30_Sep_2023.pdf</p>	Approved	
<b>Risk</b>	<p><b>Buffer Pool:</b> Provide buffer pool contributions of each issuance (if applicable)</p>	Risk assessment reports and documentation of contributions to buffer pools if reversals occur or risks increase	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Executive summary: Permanence Buffer Credit</p>	Approved	

	<b>Source:</b> Program Guide, Section 10.2		Contribution		
	<b>Leakage:</b> Yield related leakage reported against 5-year average crop yields (any crop specific yield reduction of >10% from 5-year average to be justified against regional crop specific monitoring-year yield averages to differentiate between potential leakage and regional performance trends).  <b>Source:</b> Methodology, Section 5.1.1	Report of crop yields showing <10% reduction	<b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Executive Summary Carbon Balance Table, Leakage  <b>Supplementary Evidence:</b> 4998Botany23 Historic 5 Year Management and Average Yields: Crop Report showing tons/ha per crop; Ecometric Carbon Data - 2023 Cropping Yields	Approved	
GHG Accounting	<b>Carbon balance:</b> Show calculation of carbon balance [tCO <sub>2</sub> e] by deducting monitoring period GHG Emissions [tCO <sub>2</sub> e] from monitoring period SOCS gains [tCO <sub>2</sub> e].  <b>Source:</b> Methodology, Section 5.1.1	Carbon calculation results in monitoring report	<b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report Soil Organic Carbon Project Report - Monitoring Round Report 2023: Executive Summary: Carbon Balance, Table 2: Carbon Balance  <b>Supplementary Evidence:</b> 4998Botany23_Sampled_Net_Results-20240116-12-12-200; 4998Botany23_Project_Net_Results-20240116-12-12-200	Approved	

	<p><b>CO<sub>2</sub> equivalence:</b> Statement defining positive carbon balance CO<sub>2</sub>e tonnes are allocated credits [1 Credit per tCO<sub>2</sub>e] (Methodology, Section 5.1.1).</p> <p><b>Source:</b> Methodology, 1.1.</p>	Credit statement showing that the credit balance sub divides the allocated credit total into a buffer pool [20% of total] and credits pending issuance [80% of total]	<p><b>Primary Documentation:</b> 4998Botany23 Soil Organic Carbon Project Report - Monitoring Round Report 2023: Executive Summary, Credit Statement</p>	Approved	
Disclosures	<p>If Monitor is third party, must sign similar statement and Registry Agent/Project Proponent must be satisfied any potential conflicts can be mitigated</p> <p><b>Source:</b> Program Guide, Section 11.1.3, 11.1.4</p>	Signed statement confirming fiduciary obligations	Not present	Approved	In progress, will be added retroactively
	<p>Monitors must disclose all relationships (familial/fiduciary) within past 3 years between Monitor and project/Project Proponent</p> <p><b>Source:</b> Program Guide, Section 11.1.5</p>	Disclosure in Monitoring Report or separate document	No disclosure made	Approved	
Monitoring Procedure Deviations	Monitors must submit proposed project-specific deviations with evidence that the deviation does not affect the conservativeness of results.	Stated in Monitoring Report with sufficient evidence included or submitted supplementarily	No deviations reported	Approved	

	<b>Source:</b> Program Guide, Section 11.4				
<b>Verifier Requirements</b>	<p>Verifier shall be impartial, lawful, and competent with a proven background on social environmental audit. Project Developer must prove verifiers expertise as an annex to the documentation. The verifier must sign a statement confirming lack of conflict of interest with the project.</p> <p><b>Source:</b> Program Guide Section 12.1.3.</p>	Documentation demonstrating verifier's qualifications and expertise; signed statement of impartiality and conflict of interest.	N/A Verifier not contracted at time of submission	Approved	Will be added retroactively