Monitoring Report

VERSION 5.0

2023-07-01

INSTRUCTIONS ACR requires that a Monitoring Report be provided to the verification body at each project verification. To facilitate this requirement, use of this Monitoring Report template is required. Follow all instructions found within each section and provide all requested information. If a field is not applicable, respond with "N/A". Sign and save this Monitoring Report as a PDF prior to uploading to the ACR Registry. This form must be completed and executed by a duly authorized representative of the Project Proponent or Project Developer Account Holder. Terminology as defined in the *ACR Standard* applies to this document.

SECTION I: REPORT COMPLETED BY		
1	**Name**	Aaron Holley
2	**Title**	Manger - Forestry
3	**Organization**	TerraCarbon
4	**Phone**	+1 (434) 987-4335
5	**Email**	aaron.holley@terracarbon.com
6	**Date form completed**	12/19/2024
SECTION II: PROJECT INFORMATION		
1	**Project Title**	Wabassus Improved Forest Management Project
2	**ACR Project ID#**	ACR 422
3	**ACR Account Holder**	Downeast Lakes Land Trust
4	**Project Proponent**	Downeast Lakes Land Trust

5	**Current Reporting Period (MM/DD/YYYY–MM/DD/YYYY)**	January 1, 2023 to December 31, 2023
6	**Project Start Date (MM/DD/YYYY)**	January 1, 2018
7	**Current Crediting Period (MM/DD/YYYY–MM/DD/YYYY)**	January 1, 2018 - December 31, 2037
8	**ACR Standard version applied at validation**	ACR Standard 5.1
9	**ACR-approved Methodology title and version currently applied**	Improved Forest Management Methodology for Quantifying GHG Removals and Emission Reductions through Increased Forest Carbon Sequestration on Non-Federal U.S. Forestlands version 1.3
10	**ACR-approved Methodology title and version applied at validation (if different than above)**	

SECTION III: PROJECT DETAILS

1 Project Description

INSTRUCTIONS

- Provide a brief project description.
- State the Total GHG Emission Reductions and Removals achieved and verified in the current Reporting Period.

The project property is located in the state of Maine, entirely in Washington County, in townships T43 MD BPP and T42 MD BPP. The project area covers a total of 6,144 acres.

The project activity is improved forest management, with DLLT's wildlife-centered practices representing an improvement in carbon storage and conservation value over the higher return, more aggressive timber management practices on other ownerships of the region.

During the reporting period, emission reductions totaled 91,333.0 tCO2e.

2 Programmatic Development Approach (PDA) Implementation (for PDA projects only)

INSTRUCTIONS

- Has a new Cohort been added to the project during this Reporting Period? Answer YES or NO.

N/A

- If **YES**, information on the new Cohort and its respective Sites must be added to the Multi-Site Design Document, to be verified and uploaded to the Registry, denoted as a GHG Project Plan document type, and maintained as public. The Cohort's Sites must be added to the Site Information Table, including their unique identifiers. List the unique identifiers of the Sites added during this Reporting Period.

3 Project Deviations

INSTRUCTIONS

- State any deviation request(s) affecting this Reporting Period and rationale for the deviation(s); in the rationale, provide both the necessity of the deviation(s) and demonstration that it/they is/are conservative (i.e., will underestimate Total GHG Emission Reductions and Removals).
- State whether ACR has formally approved the deviation request(s).

Project had no deviations during the reporting periods.

4 Environmental and Social Impacts

INSTRUCTIONS

- Projects must prepare and disclose an assessment of its environmental and social risks and impacts in the GHG Project Plan (per 8.A of the ACR Standard). All negative risks and impacts, as well as measures implemented to minimize and address the risks and impacts must be included in ongoing project Monitoring Reports.
- Disclose here all negative environmental and social risks, impacts, and/or claims resulting from the Project. Provide confirmations and/or updates, as applicable, to the original Environmental and Social Impact Assessment included in the validated GHG Project Plan.
- Provide confirmations and/or updates, as applicable, to the original SDG Contributions Report included in the validated GHG Project Plan.

This project contributes to several SDGs as detailed in the Project SDG Contribution Report:

Goal 3 – Good Health and Well-being

Goal 6 – Clean Water and Sanitation

Goal 9 – Industry Innovation & Infrastructure

Goal 13 – Climate Action

Goal 15 – Life on Land

No negative environmental or community impacts or claims of negative environmental or community impacts occurred during the reporting period,

SECTION IV: AFOLU PROJECTS ONLY

1 Project Area

INSTRUCTIONS

- Provide the total acreage (rounded to the nearest acre) for the end of the Reporting Period; if the project is stratified, provide the total acreage for each stratum.
- If the project area or stratification has changed since the previous Reporting Period, please describe the change and explain why it was necessary.

6,143.6 acres total

Aspen-birch 227.5 acres

Hemlock 2,677.7 acres

Northern hardwoods 1,500.0 acres

NWC 152.7 acres

Pine-conifer 462.0 acres

Spruce-fir 1,123.8 acres

2 Carbon Pools

INSTRUCTIONS Populate the below table with the total tCO2e for each applicable Carbon Pool (adding rows as needed for additional relevant Carbon Pools).

CARBON POOL	START OF REPORTING PERIOD (TOTAL TCO_2E)	END OF REPORTING PERIOD (TOTAL TCO_2E)
Live Biomass	474,497.5	637,467.3
Dead Biomass	11,924.0	11,676.4
Soil	NA	NA
Harvested Wood Products (current reporting period)		0.0

3 Inventory

INSTRUCTIONS

- State whether the project is using the original inventory methodology as described in the GHG Project Plan.
- If **NO**, describe the changes to the original inventory methodology since the last verification.
- If new inventory data has been collected, report the updated confidence statistic and uncertainty deduction.

The project is using a different inventory standard operating procedure than that describe in the GHG Project Plan. Details on the changes can be found in the appendix, "Wabassus_RP 5_Monitoring Report APPENDIX_R5_20241210.docx"

SECTION V: PROJECT MONITORING

Parameters Monitored/Modeled

INSTRUCTIONS Populate the table below with each parameter monitored during the Reporting Period (attaching tables for each parameter as necessary). Validated modeled parameters should also be reported using the table(s) below.

PARAMETER	$C_{P,\,TREE,\,t}$
UNITS	Metric tons of CO_2
DESCRIPTION	Carbon stored in above and below ground live trees at the beginning of the year *t*.
METHODOLOGY SECTION	D
EQUATION #(S)	11
SOURCE OF DATA	Forest inventory and/or FVS-NE growth and yield model. To be consistent with field measurement protocols specified in "Wabassus_SOPs_2023-08-07". The inventory used a stratified random sample design which targeted a precision of +/- of the mean live and dead tress biomass with 90% confidence.
MEASUREMENT FREQUENCY	Every 5 years or less, or at request of ERT issuance.

PARAMETER	$C_{P,DEAD,t}$
UNITS	Metric tons of CO_2
DESCRIPTION	Carbon stored in dead wood at the beginning of the year t.
METHODOLOGY SECTION	D
EQUATION #(S)	12
SOURCE OF DATA	Forest inventory and/or FVS-NE growth and yield model. To be consistent with field measurement protocols specified in "Wabassus_SOPs_2023-08-07".
MEASUREMENT FREQUENCY	Every 5 years or less, or at request of ERT issuance.

PARAMETER	$BS_{P,t}$
UNITS	Metrics tons of CO_2
DESCRIPTION	Carbon stock in logging slash burned in the project year *t*
METHODOLOGY SECTION	D
EQUATION #(S)	13
SOURCE OF DATA	Burning of any kind is not performed as part of management practices. Surveillance of slash management on harvests is performed on annual FSC audits via visual census.
MEASUREMENT FREQUENCY	Annual

PARAMETER	$C_{P,HWP,t}$
UNITS	Metrics tons of CO_2
DESCRIPTION	Carbon remaining stored in wood products 100 years after harvest for the project in year t.
METHODOLOGY SECTION	D
EQUATION #(S)	14
SOURCE OF DATA	Harvest did not take place during this monitoring period. If harvesting occurs, it will be monitored by obtaining receipts from wood scaled at mills.
MEASUREMENT FREQUENCY	Annual data summed for the monitoring period, applied as average annual for the monitoring period.

PARAMETER	Project area
UNITS	Acres
DESCRIPTION	Area of IFM project
METHODOLOGY SECTION	
EQUATION #(S)	
SOURCE OF DATA	Validated project GHG Plan. Not re-measured – area remains fixed through crediting period. Project area determined based on Wabassus boundaries established through deeds and ownership.
MEASUREMENT FREQUENCY	Not monitored

PARAMETER	Sample plot area
UNITS	Acres
DESCRIPTION	Collective area of forest inventory sample unit.
METHODOLOGY SECTION	
EQUATION #(S)	
SOURCE OF DATA	As specified operating procedures detailed in "Wabassus_SOPs_2023-08-07.docx", employing variable radius plots.
MEASUREMENT FREQUENCY	Sample plot area is not monitored. Sample plots are to be re-measured every 5 years or less.

PARAMETER	Tree species
UNITS	Taxon (to species level)
DESCRIPTION	Species of tree measured in forest inventory sample unit.
METHODOLOGY SECTION	
EQUATION #(S)	
SOURCE OF DATA	Forest inventory as pe SOP, "Wabassus_SOPs_2023-08-07*.docx".
MEASUREMENT FREQUENCY	Sample plots are to be measured every 5 years or less.

PARAMETER	$GHG_{P,\,t}$
UNITS	Metrics tons of CO_2
DESCRIPTION	Greenhouse gas emission resulting from the implementation of the project in year *t.*
METHODOLOGY SECTION	D
EQUATION #(S)	13
SOURCE OF DATA	Calculated using equation 13 of the methodology. Not measured (calculated from monitored parameter $BS_{P,t}$)
MEASUREMENT FREQUENCY	Calculated at each monitoring event every 5 years or less

Copy and paste new parameter tables below as needed

2 Monitoring Plan

INSTRUCTIONS

- Provide the names and roles/responsibilities for each party involved in monitoring the project.
- Provide a description of the GHG data management system employed including:
- The location and recordkeeping/retention requirements for all stored data;
- Methods used to generate data; and
- Transfer points and methods of non-automated transfer of data.
- If applicable, describe any calibration procedures and the frequency with which calibration and other maintenance requirements are performed.
- Describe the internal audit and other quality assurance/quality control procedures.
- Describe the sampling methods utilized and performed during the Reporting Period (if not otherwise described in section IV.3).

Live tree stocks will be monitored via forest inventory conducted every 5 years or less, with field measurement and estimation procedures consistent with those outlined in the document "Wabassus_SOPs_2023-08-07". The SOP document also details QA/QC procedures, which include

audit plots, double checking for transcription errors, and data sorting in Excel to check for anomalous values, among other procedures.

In addition, DLLT personnel actively manages the forest across these parcels and thus is regularly on the ground, monitoring any impacts to the forest.

After QA/QC, inventory data area stored as Excel files on laptop hard drives, external drives, and a cloud storage system owned by The Climate Trust.

Personnel Involved:

1. Madeline Montague, Sr. Forest Carbon Analyst, The Climate Trust – work with DLLT's staff to monitor project status.

2. Aaron Holley, Manager Forest Carbon, TerraCarbon - synthesize data and develop calculations for monitoring report, compile monitoring report

3. Grace Tregidgo, Project Associate, TerraCarbon - compile monitoring report (no longer employed with TerraCarbon)

SECTION VI: GHG EMISSION REDUCTIONS AND REMOVALS

INSTRUCTIONS Attach as an appendix, a spreadsheet documenting the calculation of GHG emission reductions and removals for the reporting period, including the following information:

1 Baseline Emissions

INSTRUCTIONS Provide the total baseline emissions or stock change for the Reporting Period.

(6,826.2) tCO2e

2 With- Project Emissions

INSTRUCTIONS Provide the total with-project emissions or stock change for the Reporting Period.

162,722.1 tCO2e

3 Deductions

INSTRUCTIONS If applicable, provide a detailed summary of deductions (e.g., uncertainty, leakage) relevant to quantification of Total GHG Emission Reductions and Removals for the Reporting Period. Do not report in this section any deductions for reversal risk mitigation (if applicable) as reported in section VI.5.

Leakage: 60,890.0 tCO2e

Summary of calculations included in appendix.

4	**Total GHG Emission Reductions and Removals** **INSTRUCTIONS** State the Total GHG Emission Reductions and Removals for the Reporting Period (i.e., quantity after deductions in section VI.3 applied). 91,333.0 tCO2e Summary of calculations attached as appendix.
5	**Reversal Risk Mitigation (For AFOLU and geologic sequestration projects only)** **INSTRUCTIONS** For AFOLU projects: • State the Buffer Pool Contribution Percentage and, if a new Reversal Risk Analysis has occurred, attach as an appendix a description and/or spreadsheet documenting the risk analysis and quantification of the Buffer Pool Contribution Percentage. • Provide a summary calculation of the Buffer Pool Contribution for the Reporting Period. 14,614.0 tCO2e Note: Buffer credits will be transferred from a separate account. Summary of calculations included in the appendix. For geologic sequestration project: • State the project's Reserve Account contribution to date and whether an additional contribution is required for this Reporting Period based on an increase in the project's annual Total GHG Emission Reductions and Removals.
6	**Net GHG Emission Reductions and Removals (For AFOLU and geologic sequestration projects only)** **INSTRUCTIONS** State the Net GHG Emission Reductions and Removals for the Reporting Period (Total GHG Emission Reductions and Removals per section VI.4 minus the Buffer Pool Contribution/additional Reserve Account Contribution for the Reporting Period per section VI.5). 76,719.0 tCO2 Note: Buffer credits will be transferred from a separate account. Summary of calculations attached as appendix and excel workbook
7	**Crediting Summary** **INSTRUCTIONS***:*

- Enter the ERTs as shown in the table below, allocated according to Vintage.
- For AFOLU and geologic sequestration projects:
  - Enter the Reserve Account or Buffer Pool Contribution (from section VI.5), if applicable, allocated according to Vintage.
  - If calculating Removals according to an approved Methodology, report the Removals and Emissions Reductions subsets of the Net Emission Reductions and Removals for the Reporting Period, allocated by Vintage.
- Omit or provide additional rows for Vintages as needed.

ALL GHG PROJECTS		AFOLU & GEOLOGIC SEQUESTRATION PROJECTS ONLY			
VINTAGE	TOTAL ERRS (VI.4)	BUFFER POOL / RESERVE ACCOUNT CONTRIBUTION (VI.5, IF APPLICABLE)	NET ERRS (VI.6, IF APPLICABLE)	REMOVALS SUBSET (IF APPLICABLE)	EMISSION REDUCTIONS SUBSET (IF APPLICABLE)
2023	91,333.0	14,614.0	76,719.0	87,656.0	3,677.0
Totals	**91,333.0**	**14,614.0**	**76,719.0**	**87,656.0**	**3,677.0**

8 Reversals (Please note that reversals must be reported to ACR per the terms of the Reversal Risk Mitigation Agreement)

INSTRUCTIONS

- Have there been any Reversals during the Reporting Period? Answer YES or NO.

No

- If YES, describe the Reversal, including whether it was Intentional or Unintentional, the nature and cause of the Reversal, the extent of area affected by the Reversal, and all other relevant facts. Describe the status of compensation for the Reversal. Additionally for AFOLU projects, an updated Reversal Risk Analysis must be reported in section VI.5.

NA

SECTION VII: PREVIOUS REPORTING

1 Updates to previous reporting periods

INSTRUCTIONS

- State whether there are any updates to the Listing Form and describe the update(s).
- State whether there are any details and/or data that needs to be clarified from a previous Reporting Period and describe the revision(s).

NA

SECTION VIII: VERIFICATION

1 Verification

INSTRUCTIONS

- State whether the project is undergoing a full verification (i.e., including a field visit to the project Site) or a desk-based verification.
- State the date of the last full verification and the associated Reporting Period verified (MM/DD/YYYY –MM/DD/YYYY).
- Provide the name of the Validation/Verification Body for this Reporting Period.
- State the number of consecutive years of reporting the Validation/Verification Body has verified for the project or, in the case of project types with only one Reporting Period, state how many of the last nine verifications of projects developed at the same facility the Validation/Verification Body has performed.

Yes the project will undergo a full verification including a field visit. The last verificatoin occurred in 2020-2022 by Aster Global Environmental Solutions

SECTION IX: REQUIRED ATTESTATIONS

The Project Proponent/Account Holder hereby represents and warrants to the American Carbon Registry, its affiliates and supporting organizations and any assignee of substantially all of the assets comprising the ACR, that:

1	*The Project maintained regulatory compliance with all relevant national and local laws, regulations, rules, procedures, other legally binding mandates and, where relevant, international conventions and agreements by completing all requirements at required intervals – answer YES or NO:* YES *If NO, all violations or other instances of noncompliance directly related to project activities are listed below, along with a statement of whether all regulatory requirements were completed at required intervals:*
2	*At no time during or since the development of the Project have there been any undisclosed or unmitigated adverse environmental or social impacts as a result of the development, construction, operation and/or maintenance of the Project; ongoing monitoring of risks and impacts and mitigations has been fulfilled in accordance with the Environmental and Social Impact Assessment; and any changes to the Environmental and Social Impact Assessment included in the validated GHG Project Plan have been disclosed in this Monitoring Report.*
3	*Any comments that were received from stakeholders regarding environmental or social impacts during the development, construction, operation and/or maintenance of the Project have been addressed, and when necessary, response actions have been implemented by the Project Proponent, and a true and accurate summary of any and all such communications/actions is attached hereto (as available).*
4	*The ACR Account Holder under which the project is listed is authorized to register and transact the carbon credits (ERTs) generated or to be generated by the Project, and to the best knowledge of the representing party, there are no competing claims to the ownership and legal rights to the GHG emission reductions/removals and associated ERTs.*
5	*Neither such ERTs nor any underlying emissions reductions/removals and/or greenhouse gas attributes to be registered on the ACR Registry have been serialized, registered, retired or cancelled, or otherwise transacted on another registry and/or with another carbon crediting program, regulatory body for a mandatory GHG mitigation scheme, other environmental markets (e.g., Renewable Energy Certificates), or programs based on carbon intensity of fuels (e.g., Low Carbon Fuel Standards).*
6	*Neither such ERTs nor any underlying emissions reductions/removals and/or greenhouse gas attributes to be registered on the ACR Registry have been transferred, retired, or otherwise used or disposed of prior to the date hereof, other than as duly recorded in the ACR Registry.*
7	*All information and attestations provided in this Monitoring Report and in all appendices are true, correct, and complete to the best of their knowledge, information, and belief. They further agree to notify ACR promptly in the event that they become aware that any representation or warranty set forth above was not true when made.*

Kimberly Arnold

Name	Kimberly Arnold
Title	Treasurer
Organization	Downeast Lakes Land Trust
Project Roles	**Project Proponent:** ☒ Yes ☐ No **Project Developer Account Holder:** ☒ Yes ☐ No
Date	23 April 2025