

VALIDATION/VERIFICATION REPORT

ACR Validation/Verification of the Scott River Wildcat IFM Project (ACR734)

REPORTING PERIOD 1

Date: 5/19/2023 Version 2.1

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Project Name	Scott River Wildcat IFM Project			
Project ID	ACR734			
Reporting Period	6/7/2021 – 3/31/2022			
Client	EFM Investments & Advisory Inc.			
Date of Issue	5/19/2023			
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	Technical Reviewer: Alexa Kandaris			
	Biometrician: Elizabeth McGarrigle			
	Technical Expert: Marty Duffany			
	Site Visit Team: Bill Stack (RPF), Thomas Blair (RPF), Alex Powell & Kim Mattson			
	Internal Approver: Alexa Kandaris			

Summary

The Scott River Wildcat IFM Project (project) is composed of 7,798 acres of forestland located approximately 8 miles south of Etna, California. The project's western boundary is the Marble Mountain and the Russian Wilderness areas with the eastern boundary abutting the Scott Valley, which is composed primarily of private agricultural lands. The project area consists of a diverse conifer forest assemblage including Douglas Fir, white fir, ponderosa pine, incense cedar, sugar pine, Shasta a red fir, and western white pine. Smaller percentages of hardwoods are also present including canyon live oak, California black oak, and red alder.

The purpose of this IFM project is to increase the forest carbon stocks during the project period by implementing management actions that go above and beyond common practices in the local area by creating expanded voluntary riparian buffers, special wildlife areas, reduced intensity silvicultural practices, and increased rotation ages via FSC-certified management practices. The result of these changed management practices will be less timber harvest as compared to growth over the project period. Also, this management regime will improve the overall forest health and resiliency of the project area, while creating and maintaining habitat for a range of wildlife species. Carbon revenue will replace some forgone timber harvest revenue over the project period.

This report presents the results of the project's validation and initial verification to the American Carbon Registry (ACR) Standards. Its purpose is to systematically assess and report the project's conformance with the ACR standard requirements corresponding to the first reporting period from 6/7/2021 – 3/31/2022. The evaluation involved; document analysis, interviews with interested parties; relevant actors, as well as observations and measurements made directly in the field, while considering a representative sample of the project activities and sites. Validation activities included forest inventory checks, interviews with project managers, contractors, and other relevant stakeholders. The context of the surrounding landscape conditions under the baseline and project scenarios was also assessed. The scope of the verification included the ACR verification of the project's initial monitoring period to determine the project's conformance with the ACR Standard (v7.0), the applied ACR IFM Methodology (v1.3), supporting ACR Program documents, and implementation of the validated GHG Plan.

The validation and verification were performed through a combination of document review, interviews and communications with relevant personnel, as well as on-site inspections. The site visit to the project was conducted from 6/20-6/23/2022. The verification process included several official and documented exchanges between the verifier team and the project proponents in order to gather additional information for review and for examination of compliance with all applicable criteria. These exchanges included 2 rounds of an Issues Log produced by S&A to which the project proponents were required to respond, and for which 7 Clarification requests, 5 New Information Requests and 3 Non-Conformances were identified. Verifiers confirmed in an email to the project proponents dated 1/3/2023 that all remaining issues were satisfied in the responses provided in the Issues Log.

Once all identified issues were adequately resolved, S&A Carbon prepared this final combined validation & verification report and deems, with a reasonable level of assurance, that the project is in conformance with all of the requirements in the ACR Standards, without qualifications or limitations. The project has been implemented in accordance with the validated GHG Plan over the initial monitoring period with no deviations from the described project activities in the GHG Plan or from the applied ACR methodology.

S&A Carbon is thus able to issue a positive validation opinion of the project's design as outlined in the GHG Plan dated 12/20/2022 and the projected *ex-ante* GHG emission reductions of 482,416 tCO2e over the first 20-year crediting period. S&A Carbon is also able to issue a positive verification opinion for the 26,428 tCO2e of verified emissions reductions, as reported in the Monitoring Report dated 12/20/2022. The verification assessment covered the monitoring period from 6/7/2021 - 3/31/2022 and verified that the calculated GHG removals and emission reductions were achieved during the monitoring period with a reasonable level of assurance. The overall risk rating was 22.0%. Therefore, the total number of credits to be deposited in the buffer account for the initial monitoring period is 5,815 tCO2e and the total ERTs to be issued are 20,613 tCO2e.

Abbreviations

ACR American Carbon Registry

ANAB ANSI National Accreditation Board

BMP Best Management Practices CO_2e Carbon Dioxide Equivalent

CP Common Practice

EPA Environmental Protection Agency

ERTs Emission Reduction Tons

GHG Greenhouse Gas

HWP Harvested Wood Products

ICS Initial Carbon Stocks

MR Monitoring Report

MP Monitoring Period

NRCS USDA Natural Resource Conservation Service

PD Project Developer

PP Project Proponent

RP Reporting Period

RPF Registered Professional Forester

S&A S&A Carbon

t Metric Tonnes

U.S.A United States of America

USDA United States Department of Agriculture

VVB Validation and Verification Body

1 Introduction

S&A Carbon (S&A) has been asked by L&C Carbon to verify the greenhouse gas (GHG) removals and emission reductions generated by the Scott River Wildcat IFM Project (the project). The validation/verification process is required by the American Carbon Registry's Improved Forest Management Methodology for Quantifying GHG Removals and Emission Reductions through Increased Forest Carbon Sequestration on Non-Federal U.S. Forestlands (ACR IFM Methodology, v1.3). S&A validation/verification activities began on 6/7/2022. This report presents the findings from the validation/verification of the project's GHG removals and emission reductions.

The Offset Project Registry (OPR) for this project is the American Carbon Registry (ACR), listed as ACR734.

1.1 Project Participants

Role	Organization Name	Main Contact Information and Person		
Project Proponent	EFM Investments & Advisory Inc.	Amrita Vatsal		
(PP)	(EFM)	721 NW Ninth Avenue, Suite 200		
(Portland, OR 97209 <u>amrita@efmi.com</u>		
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Offset Developer & Technical	L&C Carbon	710 SW Carmen Heights Dr		
	L&C Carbon	Dundee, OR 97115		
Consultant		503.449.6957 <u>davidford27@gmail.com</u>		
		David Shoch, TerraCarbon		
Technical	Terra Carbon LLC	700 Harris St, #201B		
Consultant		Charlottesville, VA 22903 434.326.1144		
		david.shoch@terracarbon.com		
		Clint Gray, Cougar Environmental, Inc		
Technical	Cougar Environmental Inc	494492 Hwy 95		
Consultant	Cougar Environmental, Inc	Naples, Idaho 83847 208.290.2144		
		clint@cougarenvironmental.com		
Technical		Greg Latta, Latta Forestry		
	Latta Forestry	1009 Birdsong Lane Moscow, ID 83843		
Consultant		541.619.9212 lattaforestry@gmail.com		

Entities listed above are collectively referred to as project participants throughout this document.

1.2 Description of Project

The common silvicultural practice in northwestern California (west of the Cascade Range) is to manage conifer stands to a minimum rotation age as specified in the California Forest Practice Rules (depending on site class), clearcutting, and replanting with native conifers.

EFM plans to manage the project area towards an uneven-aged management regime. The project activity is projected to harvest less than the annual growth. By limiting annual harvests, the average stand age will increase resulting in increasing CO2e reductions over the project period. As the project activity is designed to achieve an uneven-aged stand structure, it cannot be characterized as common practice which is typically an even-aged silvicultural system with clearcutting and replanting.

The project area is composed of 7,798 acres of mixed conifer and hardwood forest that will be managed for the purpose of increasing carbon stocks by maintaining existing forest biomass and restricting harvests to less than the annual forest biomass growth over the project period. The planned harvest levels over the project period are well below the volumes permissible under federal and state laws, including California's Forest Practices Act and the implementing regulations and rules. The result of this reduced harvest regime will be an extension of rotation age, well beyond the common practice of shorter-rotation management of the neighboring forest owners. Since this project is using a conservative baseline, nearly all the credits being generated over the project period are removals.

The purpose of this IFM project is to increase the forest carbon stocks during the project period by implementing management actions that go above and beyond common practices in the local area by creating expanded voluntary riparian buffers, special wildlife areas, reduced intensity silvicultural practices, and increased rotation ages via FSC-certified management practices. The result of these changed management practices will be less timber harvest as compared to growth over the project period. This management regime will also improve the overall forest health and resiliency of the project area, while creating and maintaining habitat for a range of wildlife species. Carbon revenue will replace some forgone timber harvest revenue over the project period.

Date Description	Date
Project Start Date	6/7/2021
Crediting Period	6/7/2021- 6/6/2041
Reporting Period 1	6/7/2021- 3/31/2022
Validation/Verification Start Date	6/7/2022

1.3 Validation/Verification Objectives

This is the Project's ACR validation and initial verification. This will be a combined project validation and full initial verification, including a site visit to assess the Project's conformance with the ACR criteria outlined below, corresponding to the first reporting period from 6/7/2021 - 3/31/2022.

The objectives of validation are to evaluate:

- Conformance to the ACR Standard;
- GHG emissions reduction project planning information and documentation in accordance with
 the applicable ACR-approved methodology, including the project description, baseline,
 eligibility criteria, monitoring and reporting procedures, and quality assurance/quality control
 (QA/QC) procedures; and
- Reported GHG baseline, ex-ante estimated project emissions and emission reductions/removal enhancements, leakage assessment, and impermanence risk assessment and mitigation (if applicable).

The objectives of verification are to evaluate the following:

- Reported GHG baseline, project emissions and emission reductions/removal enhancements, leakage assessment, and impermanence risk assessment and mitigation (if applicable);
- Any significant changes to the project procedures or criteria since the last verification (N/A);
 and

• Any significant changes in the GHG project's baseline emissions and emission reductions/removal enhancements since the last verification (N/A).

Further, S&A will review the GHG Project Plan, GHG Assertion and any additional relevant documentation to determine:

- That the reported emissions reductions and/or removal enhancements are real;
- Degree of confidence in and completeness of the GHG assertion;
- That project implementation is consistent with the GHG Project Plan;
- Eligibility for registration on ACR; and
- Sources and magnitude of potential errors, omissions, and misrepresentations, including:
 - o Inherent risk of material misstatement; and
 - o Risk that the existing controls of the GHG project will not prevent or detect a material misstatement.

1.4 Validation/Verification Scope and Criteria

Validation shall include examination of all the following elements of a GHG Project Plan:

- Project boundary and procedures for establishing the project boundary;
- Physical infrastructure, activities, technologies, and processes of the project;
- GHGs, sources, and sinks within the project boundary;
- Temporal boundary;
- Description of and justification for the baseline scenario;
- Demonstration of additionality;
- Methodologies, algorithms, and calculations that will be used to generate estimates of emissions and emission reductions/removal enhancements;
- Process information, source identification/counts, and operational details;
- Data management systems;
- QA/QC procedures;
- Processes for uncertainty assessments; and
- Project-specific conformance to ACR eligibility criteria.

Verification shall include examination of some or all of the following elements of a GHG Project Plan:

- Physical infrastructure, activities, technologies, and processes of the GHG project;
- GHG SSRs within the project boundary;
- Temporal boundary;
- Baseline scenarios;
- Methods and calculations used to generate estimates of emissions and emission reductions/removal enhancements;
- Original underlying data and documentation as relevant and required to evaluate the GHG assertion;
- Process information, source identification/counts, and operational details;
- Data management systems;
- Roles and responsibilities of project participants or project proponent staff;
- QA/QC procedures and results;
- Processes for and results from uncertainty assessments; and
- Project-specific conformance to ACR eligibility criteria.

The criteria for the offset verification services are:

- The American Carbon Registry Standard, v7.0, December 2020
- The ACR Validation and Verification Standard, v1.1, May 2018
- The Improved Forest Management (IFM) Methodology for Non-Federal U.S. Forestlands, v1.3, April 2018
- Errata and Clarifications for ACR IFM Methodology v1.3, April 2022
- ACR Tool for Risk Analysis and Buffer Determination v1.0
- ISO Standards 14064-2 and 14064-3, 2006

1.5 Materiality & Level of Assurance

The validation/verification team must state with reasonable assurance that discrepancies between GHG emissions reductions/removal enhancements claimed by the Project Proponent and estimated by the VVB be immaterial (less than the materiality threshold of \pm 5%). The equation below is used to calculate the percent error in the GHG removals and emission reductions assertion.

$$\% \ Error = \frac{Project \ Emission \ Reduction \ Assertion - Verifier \ Emission \ Reduction \ Recalculation}{Verifier \ Emission \ Reduction \ Recalculation} \times 100$$

1.6 Audit Team

Role	Name
Lead Validator	Pablo Reed
Lead Validator (under observation)	Bill Stack
Lead Verifier	Bill Stack
Technical Reviewer	Alexa Kandaris
Biometrician	Elizabeth McGarrigle
Technical Expert	Marty Duffany
Site Visit Team	Bill Stack (RPF), Kim Mattson, Thomas Blair (RPF) &
Site visit realii	Alex Powell
Internal Approver	Alexa Kandaris

2 Audit Process and Methodology

S&As audit included the following activities:

2.1 Desk Review

A document request and kickoff call agenda list were sent to the PP on 6/3/2022 and 6/6/2022, respectively. A kickoff conference call was held on 6/7/2022, signaling the start of the validation/verification services. The project team and verifiers discussed initial findings from a desk review of submitted documents, targeting aspects of the project and supporting information that might affect the evaluation. Meeting minutes were prepared following the kickoff meeting.

The draft GHG Plan was provided 6/4/2022. The verifiers reviewed this document and assessed the eligibility criteria required to design, measure, and monitor the project to the requirements of the ACR

Standards and IFM Methodology. Verifiers confirmed that the ACR eligibility requirements were met. The Verification Plan was completed and sent to the PP.

A draft Sampling Plan was prepared based on information available from the PP. The Sampling Plan evaluates the credibility and rigor of the verification methodology items. A risk evaluation was conducted assessing the Inventory Methodology Verification Items of the ACR Standard. Finally, the plan outlined a sampling scheme, based on the risk assessment and document reviews, to evaluate the projects monitoring system's compliance with the ACR Standard. The final Sampling Plan summarizes the results of the sampling and the data checks performed on the sampled data.

The Sampling Plan will be retained by S&A for a period of not less than 15 years following the submission of the Project Verification Statement. All material received, reviewed, and generated by the provision of Offset Verification Services will be retained by S&A for the same period.

2.2 Site Visit

A site visit was conducted by Thomas Blair, Alex Powell, Kim Mattson & Bill Stack from 6/20/2022 through 6/23/2022. An opening meeting was conducted on 6/20/2022. Attendees of the site visit were as follows:

Attendees	Company	Role	Attend Opening Meeting	Attend Field Sampling	Attend Closing Meeting
Bill Stack	S&A Carbon	Lead Auditor	Х	Х	Χ
David Ford	L&C Carbon	Project Developer	X	Χ	Χ
Darin Stringer	Darin Stringer EFM Forester		X		
Dave Powers	EFM	Advisor Conservation			
		Programs	X		
Bettina von Hagen	EFM	CEO		Χ	
Thomas Blair	S&A Carbon	Contractor, S&A Site Visit Team	X	Χ	Χ
Kim Mattson S&A Carbon Contractor, S&A Site Visit Team		Х	Х	Х	
Alex Powell	S&A Carbon	Contractor, S&A Site Visit Team		Х	

^{*}Note: This site visit was completed concurrently with two other EFM projects (Scott River Shackleford and Scott River Whiskey, ACR 732 & ACR 733, respectively.

During the opening meeting, the objectives of the site visit and overall validation/verification process were presented by the verification team including an overview of the statistical t-test required for verification of the forest inventory; the qualifications of the PP were confirmed; inventory procedures and QA/QC were discussed and clarified; and site visit logistics & safety, personnel and vehicles/transport, and schedules were discussed and planned.

During the site visit, verification team activities included the measurement of 8 randomly selected forest inventory plots across the project area. Following plot data collection, the verifiers ran their verification data through the t-test. The analysis showed that the project's inventory was verifiable at a confidence interval of 90% (i.e., the means were the same, p=0.15). Site visit activities also included collecting GPS data (plot center, project boundaries); observing and documenting the forested conditions within the project area (e.g., species composition, age class, canopy cover); and discussions with the PP on QA/QC processes around the inventory data collection, baseline model inputs, and regional common practice for forest management of the forest types within the project area.

A closing meeting for the site visit was held on 6/23/2022 near Etna, California (on site, in forest). Attendees are listed in the table above. Other topics also discussed included preparation of the Issue Log, scheduling of the baseline model review call, and proposed validation/verification schedule; and reflections and learnings from the site visit.

2.3 Quantitative Review (only required for verification)

The data and information supporting the PP's GHG assertion for this Project is based on historical records (forest inventory data) and future projections (modeled tree growth). To verify this assertion, S&A conducted various quantitative analyses of the project and baseline carbon stocks, covering the relevant carbon pools quantified by the PP, and the inputs used in the calculation of the projected exante emission removals and reductions over the first 20-year crediting period as well as the actual expost emission removals and reductions for this initial reporting period (6/7/2021 - 3/31/2022). The audit team implemented a detailed review of all aspects of the carbon stock modeling, including the stratification process, forest inventory design and specifications, measurement techniques used by the PP's inventory crew, review of the species in the inventory and the correct assignment of volume and biomass equations, and checks to confirm that modeled growth used to project carbon stocks forward have been calculated and applied correctly. The modeling methods were assessed to ensure an approved model was used, that it was appropriately calibrated for the region, and inventory data flow through the modeling system was reviewed.

The reported ex-post emission removals and reductions were confirmed by tracking all components of the PP's emission reduction calculation workbooks. This included checks that the entries for initial carbon stocks, confidence deduction, baseline stocks, baseline harvested wood products, and the reversal risk determinations, leakage and uncertainty are all entered and calculated correctly from their computed sources, as well as confirming the accuracy of their sources. The entire inventory treelist was independently recalculated by the verifiers to estimate the project's carbon stocks and the results were compared to the PP's reported values. This recalculation process includes a complete quantitative check of the PP's inventory data on a plot-by-plot level to verify PP's project stock calculations were done accurately and completely to comply with the ACR Standard. Uncertainty and associated deductions were also independently calculated by the verifier.

For projects where plot sampling is required during a verification, ACR provided guidance stating VVBs shall resample a minimum of 5% of the project's plots. For sampling to pass verification, all strata need to be represented in the sample selection and statistical agreement must be attained between the verifier's and project's plot carbon values using a t-test at 90% confidence interval. This minimum sampling intensity was considered in the selection of sample plots to be measured by the verifiers along with allocation of sample plots among individual project strata based on risk.

All trees within the selected sample plots were re-measured by the verifiers including tree diameters (DBH) & limiting distances (i.e., trees in/out of the plot), species identifications, missing volume, and tree status assessments (live/dead) were independently measured using tools identical or comparable to those used by the PP. No tree height measurements were sampled during the site visit as this field parameter was not needed in calculating project stocks as specified in the IFM Methodology. Verifiers did, however, take at least one tree height measurement on selected the sample plots to check inputs used in baseline modeling.

Inventory re-measurement was confirmed to meet the ACR recommendations and all measurement methods were confirmed to be consistent with the PP's inventory specification. Carbon per plot and across the project area was calculated from the sampled plots and compared to the PP's inventory for the same plots. The verifier calculations and the PP's calculations were entered into a t-test worksheet, using the paired plot method (two-tailed t-test, at the 90% confidence interval), and confirmed to meet the statistical standards expected by ACR for projects that require independent re-measurement for verification.

2.4 Interviews

The following is a list of the people interviewed as part of the validation/verification. The interviewees included those people directly, and in some cases indirectly, involved and/or affected by the project activities. The training and qualifications of the PP team was confirmed by referencing bios for the team on the PP website on 6/15/2022 (https://efmi.com/; https://www.terracarbon.com/) and/or during interviews with Project Participants throughout the validation/verification process.

Date	Name	Title
Throughout Verification	David Ford	L&C Carbon, Project Developer
Throughout Verification	Greg Latta	Latta Forestry, Technical Consultant
6/7-6/23/2022	Darin Stringer	EFM, Forester
6/7 & 6/21/2022	Amrita Vatsal	EFM, Managing Director
6/20 - 6/23/2022	Dave Powers	EFM, Advisor Conservation Programs
6/22/2022	Bettina von	EFM, Chief Executive Officer
	Hagen	
9/27/2022	Steve Wilson	CALFIRE, Forester, Siskiyou Office
10/13 & 10/31/2022	Andrew Taylor	ACR, Forestry Program Officer
10/19/2022	Aaron Holley	TerraCarbon, Manager
10/19/2022	Deb Quinlan	EFM Contractor, GIS analyst
11/24/2022	Laura Bradley	SLT Stewardship, Siskiyou Land Trust
11/28/2022	ACR	ACR Forestry staff – Andrew Taylor, Kurt Krapfl &
		Warren Reed

2.5 Findings

Throughout the validation/verification, findings were recorded by the audit team as per guidance outlined in the criteria and supporting documents cited above. Any discrepancies identified by the validation/verification team were documented in the Issues Log. The validation/verification team has also documented in the Issues Log the source of any difference identified, including whether the

difference results in a correctable error. The Issues Log was submitted to the client. Prior to completion of the validation/verification, all identified non-conformances were required to be addressed, and correctable errors were required to be fixed. The client submitted additional evidence for S&A's evaluation for conformance. The client corrected all correctable issues.

2.6 Audit Schedule

The following table summarizes the key audit milestones:

Verification Activity	Proposed Date	Actual Date
Kick-off meeting	6/7/2022	6/7/2022
Site visit (*done currently with the other two EFM Scott	6/20/2022 –	6/20/2022-
River IFM projects – Shackleford (ACR 732) & Whiskey (ACR733)	6/24/2022	6/23/2022
S&A Carbon submits issues log v1.0	7/11/2022	10/4/2022
TC response to issues	7/25/2022	11/6/2022
S&A Carbon submits issues log v2.0	8/8/2022	12/6/2022
TC response to issues	8/22/2022	12/20/2022
S&A Carbon closes out issues log	9/6/2022	1/3/2023
S&A Carbon submits validation/verification report for Technical Review	9/7/2022	2/13/2023
S&A Carbon submits verification report for TC review/approval	9/14/2022	2/14/2023
Closing Call; S&A Carbon submits final validation/verification documents to ACR	9/15/2022	2/15/2023

2.7 Validation Activities

The validation and concurrent verification were performed through a combination of document review, interviews and communications with relevant personnel, as well as on-site inspections. The site visit to the project was conducted from 6/20 through 6/23/2022 near Fort Jones, California. The validation/verification process included several official and documented exchanges between the verification/validation team and the project proponents to gather additional information for review and for examination of compliance with all applicable criteria. These exchanges included two rounds of an Issues Log produced by S&A, for which 7 Clarification requests, 5 New Information Requests and 3 Non-Conformances were identified. Verifiers confirmed in an email to the project proponents dated 1/3/2023 that all issues were resolved in the Issues Log.

2.8 Eligibility Requirements

The verifiers assessed the project against the eligibility criteria of the ACR Standard as well as the applicability conditions required by the ACR IFM Methodology and determined the project to be ACR eligible and applicable to the ACR IFM Methodology. The project applied an ACR approved methodology, Improved Forest Management Methodology for Quantifying GHG Removals and Emission Reductions through Increased Forest Carbon Sequestration on Non-Federal U.S. Forestlands, v1.3. The project was found to meet the eligibility requirements of the ACR Standards in terms of its start date, minimum project term, crediting period length, land eligibility & title/ownership, adherence to natural forest management requirements and the permanence of the generated GHG emission removals and reductions. It was also found to meet the applicability conditions of this

methodology in terms of land ownership type, legality of harvesting activities, types of project activities and natural forest management criteria.

The reporting period length for RP1 (6/7/2022-3/31/2022) is less than two years and meets the eligibility requirement. The project start date is after 11/1/1997 and is therefore considered an eligible project. The project start date of 6/7/2021 coincides with the signing of a confidential contract between EFM and L&C Carbon. The start date is also the same date as the beginning of the first crediting period. The project is expected to achieve validation against the ACR standards within 3 years of the project start date. The minimum project term stated in the GHG Plan is 40 years as required by the methodology. The Crediting period is 20 years, consistent with the applied methodology.

The project is an IFM project type. The PP asserts the project area is greater than 10% forest cover (live trees) for this initial reporting period to comply with the ACR Standard eligibility requirement (A.3). Based on reviewing recent aerial imagery (NAIP CA 2020) and June 2022 site visit observations, verifiers are reasonably assured the project area is covered by greater than 10% forestland. The verifiers are also reasonably assured that the project area is located on private owned lands within California based on aerial imagery assessments, deeds and Siskiyou County tax maps. The current project activities do involve commercial harvesting, none were implemented, however, during the reporting period.

The project area's forest is composed of 100% native species. The project area contains 7,798 acres of a diverse conifer forest assemblage, which consists primarily of ponderosa pine, Douglas-fir, white fir, incense cedar, sugar pine, Shasta red fir, and western white pine. Smaller percentages of hardwoods are also present including California black oak, Oregon white oak, red alder, and canyon live oak. The project activity doesn't involve any use of non-native species. Most of the project area is made up of highly variable topography ranging from steeply sloped hillsides (>35%) to more gentle slopes on topographic benches, larger stream floodplains and isolated wetlands. Elevations range from approximately 3,100 to 6,700 feet.

In accordance with the ACR IFM Methodology, the PP's risk assessment for Reporting Period 1 uses the ACR Tool for Risk Analysis and Buffer Determination (v1.0), which was determined to have a risk rating of 22.0%. Verifiers completed a review of the percent contributions for each risk category and found the individual risk ratings reasonable, appropriate, accurate and well supported with documentation to justify the associated risk ratings and conforms with the ACR descriptions for each risk type. In total, 22.0% of the gross emission reductions will be deposited into the ACR buffer account. This deduction is made to the gross ERT calculations produced by the PP's to determine the total tradeable balance of ERTs generated by the project during this initial reporting period.

The table below presents the verifiers' findings pertaining to the Project's Permanence Risk Rating, following the guidance in the ACR Tool for Risk and Analysis and Buffer Determination.

Risk Type	Conform	Finding	GHG Plan	VVB Check
Financial	Υ	Default	4%	4%
Project Management	Y	Default	4%	4%

Risk Type	Conform	Finding	GHG Plan	VVB Check
Social/Policy	Υ	Default	2%	2%
Conservation Easement Deduction	Υ	CE recorded on December 28, 2020	-2%	-2%
Fire	Υ	Recent Wildfire <30 miles of Project Area	8%	8%
Diseases and Pests	Υ	Default	4%	4%
Levee Failure & Water Table Changes	Υ	Default	0%	0%
Other Natural Disaster Events	Υ	Default	2%	2%
Total Risk			22.0%	22.0%

2.9 Additionality

To demonstrate the GHG emission removals and reductions from the project are additional and considered to be above and beyond the "business as usual" scenario, it must pass the ACR three-prong additionality test to prove that it (1) currently exceeds current effective and enforced laws and regulations; (2) exceeds common practice in the relevant industry sector and geographic region; and (3) faces at least one of the three implementation barriers (financial, technological, or institutional). The project was found to be additional with the project activities above and beyond the business-as-usual scenario for privately owned commercially managed forest lands in northwestern California.

The laws and regulations outlined in Section C1 of the GHG plan were found to comprehensively identify the applicable laws and regulations that could affect the project. The verifiers' assessment of these laws determined that none of them impact the project activities, or require the PP to implement the project activities, thereby demonstrating regulatory surplus.

The description of applicable National, State, and local laws and regulations in the GHG Plan was found to consider all applicable laws and regulations for both the project and baseline activities. Applicable legal constraints were found to be adequately incorporated into the modeled baseline harvest scenario, and the verifiers are reasonably assured all applicable laws and regulations have been considered in addressing the Regulatory Surplus Test (see Section E1 of the GHG Plan).

Verifiers also confirmed any legally binding elements of the conservation easement were included in the baseline constraints (many of which are addressed under the CA Forest Practice Rules). The conservation easement for the project area was recorded on December 31, 2020 in the County of Siskiyou, California. The conservation easement is held by the Siskiyou Land Trust (SLT) (https://www.siskiyoulandtrust.org) and explicitly reserves all carbon rights associated with the property to the grantor. The conservation easement does not restrict forest management activities and is bound by the legal requirements contained in the California Forest Practices Act (CA Forest Practice Rules). The most recent SLT conservation easement annual monitoring report (12/2021) indicated there were no non-conformances regarding the easement's legal requirements. Lastly, while Binding International Agreements are described in the GHG Plan, none are considered to impact the baseline scenario or the project activities.

As described in Section C.2, common silvicultural practice of the forest type within the project area is managing conifer stands to a minimum rotation age as specified in the California Forest Practice Rules

(site class dependent), clearcutting, and replanting with native conifers (even age management). Verifiers confirmed this practice through discussions with the PP, regional consulting foresters, and CalFire forester; through the verification team's professional work experiences in the region; internet searches pertaining to common silvicultural practices in northwestern California; and site visit observations. The verifiers are reasonably assured that the project and its associated project activities, exceed common practice in this region of northwestern California.

Unlike the common practice, EFM plans to manage the Project Area towards an uneven-aged management regime. The project activity will increase carbon stocks by maintaining existing forest biomass and restricting harvests to less than the annual forest biomass growth over the project period. This reduced harvest regime will result from an extension of rotation age, which will increase the average stand age resulting in increasing CO2e reductions over the project period. The planned harvest levels over the project period are well below the volumes permissible under federal and state laws, including California's Forest Practices Act and California's Forest Practice Rules 2022.

Section B.5 and E.1 of the GHG Plan offers a reasonable definition of the baseline harvest scenario, which the PP asserts is the common practice harvesting regime in the region for similar types of landowners and forest types. The baseline management scenario was based on typical overstory removal and associated basal area retention while incorporating the legal constraints, such as limited harvesting in Watercourse and Lake Protection Zones, as specified in the 2022 California Forest Practices Rules (Title 14, California Code of Regulations Chapters 4, 4.5 and 10). Specific baseline silvicultural harvest prescriptions are described in Section E.1 of the GHG Plan and the baseline modeling workbooks.

The PP has elected to demonstrate there are financial barriers to implementation of the project activities and adherence to the ACR Implementation Barrier Test for additionality. Specifically, the PP asserts the landowners face limited access to financial capital, in the absence of carbon project income, that would prevent them from implementing the project activities. The PP states in the GHG Plan (C.3) carbon project income is expected to incentivize the project's implementation due to the lost revenue associated with the potential timber harvesting that could legally and feasibly occur within the project area.

The verifiers were provided with a Net Present Value (NPV) financial analysis for both the baseline and with project scenarios that accounts for all costs and revenues from these scenarios. In this analysis, the PP used a 6% discount rate, which was based on private industrial ownership and complies with the specifications in the IFM Methodology (C.1, Table 1). Required inputs for the project NPV calculation were based on the 2021 timber inventory, growth and yield under a range of silvicultural treatments, stumpage prices for wood products, logging and hauling costs of harvest and basal area retention as required by the California Forest Practices Rules, other management costs, and carrying costs. Verifiers found these inputs to be reasonable, appropriate, accurate and well supported.

In 2021 dollars, the project activity without carbon revenue is expected to generate an NPV of \$396,523, which is substantially lower than the NPV maximization scenario of the baseline model (\$8,759,657), thus demonstrating the financial barrier of the implementation of the project. Based on this NPV analysis and stakeholder interviews, verifiers are reasonably assured the project has met the financial barrier test.

2.10 Permanence and Risk Mitigation

The project's GHG Plan outlines a risk assessment conducted in accordance with the *ACR Tool for Risk Analysis and Buffer Determination*. Percent contributions for each risk category have been applied based on guidance in the tool. All the categorical risk ratings were applied consistent with the Tool's method. All risk ratings were based on the default values except for fire, which had a risk rating of 8%. The PP noted a recent wildfire, the River Complex fire (~200,000 acres, contained fall 2021) in Northern California, which is greater than 1,000 acres and within 30 miles of the project area, thus the 8% risk rating. Verifiers concur with this assessment and the applied fire risk rating. The Conservation Easement Deduction was appropriately applied (CE recorded 12/31/2020). Verifiers also confirmed the PP's assertion that the project is not located in a region with the presence of an epidemic disease or infestation. Verifiers confirmed the PP's total risk rating of 22%.

In total, 22.0% of the gross emission reductions will be deposited into the ACR polled buffer account. This deduction is made to the calculated gross ERT calculations generated by the project to determine the total tradeable balance of ERTs generated by the project over the initial reporting period.

Section 5.B of the ACR Standard requires that "Project Proponents of AFOLU projects with risk of reversal shall enter into a legally binding Reversal Risk Mitigation Agreement with ACR/Winrock that allows them to select a reversal risk mitigation mechanism and details the requirements for reporting and compensating reversals." This Risk Mitigation Agreement must be executed upon completion of the final GHG Plan, which the verifiers understand to be the point in time when ACR approves the final GHG plan and is ready to register the validated project. Therefore, the verifiers determined that checking this executed agreement between the PP and ACR doesn't explicitly need to take place before their final submission to ACR, but that the verifiers will need to confirm it has been executed once ACR has reviewed & approved the project just prior to registration.

2.11 Baseline

As mentioned previously in section 2.9, the common silvicultural practices in the region for the private land industrial owners with the project's area forest types are based on even-age management (e.g., clear cutting and re-planting). Verifiers confirmed this practice through discussions with the PP (e.g., 7/8/2022 model review call) and regional consulting foresters; through the verification team's professional work experiences in the region; internet searches pertaining to common silvicultural practices in northwestern California; and site visit observations within and near the project area.

The PP, however, utilizes a more conservative baseline management regime as compared to common practice by modeling harvests to achieve an uneven age management condition. The baseline silvicultural practices involve thinning stands (single tree and group selections) to the legally required minimum basal area per acre stocking levels as prescribed by the California Forest Practice Rules 2022. The baseline modeling includes a constraint that leaves at least 75 square feet per acre of basal area for site class III and 50 square feet per acre of basal area for site class IV and V as per the California Forest Practice Rules 2022. Further, the baseline modeling includes a constraint which prohibits any harvest within all Riparian Management Zones (RMZs) and Special Habitat Management Zones (SHMZs) which exceed the requirements contained in the conservation easement recorded in 2020.

The baseline (and project) on-site carbon stocks found on the project area were determined through a forest inventory implemented on the project area in the fall of 2021. The inventory design employed

a sample of 143 fixed-radius and variable-radius plots installed on a systematic grid across the project area. After the inventory was completed the project area was stratified into six strata which was based on remote sensing information (LEMMA data - https://lemma.forestry.oregonstate.edu/) along with Nearest Neighbor (NN) imputation methods. Strata 1-5 were based on forest cover, stocking (basal area) and DBH. Strata 6 incorporated the baseline constraints associated with water resource areas and special management zones. The verifiers found the project's stratification methods to be reasonable and the inventory methodology to follow standard industry practices. This stratification process was discussed more fully in the project documents as well as the Issues Log (items #13 and #14).

Growth and yield projections were based on the US Forest Service Forest Vegetation Simulator (FVS), Inland California and Southern Cascades (CA). FVS is identified as an appropriate model in the ACR IFM methodology applied by the project. FVS was calibrated to the conditions of the project area and surrounding region. This variant requires a 50-year site index, the PP used a strata-level weighted average Douglas-fir site index which was based on published variables and the expertise of local forest managers and other natural resource professionals in the region. Verifiers' check of site index through the USDA Soils data found the PP's estimate of site index to be reasonable. The inventory tree list was de-grown one year in FVS to estimate the beginning of reporting period stocks. The baseline model was run for a 100-year timeframe using a 1-year time period for the first 21 years and then 5-year periods throughout the remainder of the modeling time horizon.

Baseline carbon in long-term storage in wood products was calculated based on projected harvest volume removals from the FVS model. Harvest volumes were broken out into the categories of softwood sawlog, softwood pulp, hardwood pulp and hardwood sawlog by referencing the merchantability standards in FVS. Harvest volumes were converted to biomass by applying species-specific specific gravity values references in the USFS Handbook and Miles and Smith 2009. Biomass values were then converted to units of tCO2e using appropriate conversion factors. Carbon transferred into wood products was estimated by applying mill efficiency values sourced from the California ARB Compliance Offset Protocol, for northwestern California.

Baseline carbon in wood products was then summed across the established wood categories and distributed to various end-wood product classes referenced from the California ARB Compliance Offset Protocol, for northwestern California. Baseline carbon in long-term storage was then summed for in-use wood products and wood products in landfills to produce annual total tCO2e stored in in-use and landfill by applying the appropriate 100-year storage factors taken from the ACR IFM Methodology. Emissions due to burning logging slash are conservatively assumed in the baseline to be zero. Verifier checks of the baseline carbon storage in harvested wood confirmed the accuracy of the PP's calculations in accordance with the ACR IFM Methodology.

2.12 Leakage

According to the ACR IFM Methodology, there may be no leakage beyond *de minimis* levels through activity shifting to other lands owned, or under management control, by the timber rights owner. If the project decreases wood product production by greater than 5% relative to the baseline then the Project Proponent and all associated landowners must demonstrate there is no leakage within their operations (i.e., on other lands they manage/operate outside the bounds of the ACR carbon project).

As described in the GHG Plan, quantification of leakage is limited to market leakage. As shown on EFM's website, the PP does own approximately 101,400 acres of other forestland properties outside of the project area. As all of these other forestlands are third-party certified managed lands or will be within 5 years for those more recent acquisitions (group Forest Stewardship Certificate SCS-FM/COC-00117G), thus, there is no activity shifting leakage.

Quantification of leakage of the project is therefore limited to market leakage. Market leakage was determined by quantifying the merchantable carbon removal in both the baseline and with-project scenarios. Carbon in long-term storage in in-use wood products and landfills was used to assess relative amounts of total wood products produced in the baseline. Some commercial timber harvesting is projected to occur in the implementation of the project. The decrease in wood production relative to the baseline was calculated to determine the applicable market leakage discount factor in accordance with the methodology. Since the project activities decrease total HWP produced by the project relative to the baseline by 25% or more over the crediting period, the leakage deduction is 40%. This leakage deduction was found to be correctly determined and correctly applied in the supporting ERT calculation workbook.

2.13 Monitoring Requirements

Section D of the GHG Plan outlines the project's monitoring plan. All appropriate data and parameters to be monitored over the life of the project are outlined including details on the unit of measurement for the data/parameter, a description of the parameter, the data source used, the measurement methodology, monitoring frequency, values applied, procedural and QA/QC references, the purpose of the data and the calculation method. The monitoring plan also indicates that each reporting period the PP will sign and submit to ACR the required attestations confirming: the continuation of the project activities; that ownership of the project area remains clear and uncontested; and a disclosure of any negative environmental or community impacts and plans to mitigate, if applicable (Validation & Verification Standard, 6E). These attestations have been included in the signed Monitoring Report for this initial reporting period.

Project monitoring is generally focused on the project's on-site carbon stocks through updates to the projects forest inventory data. A full re-inventory of the project area is to take place at least once every decade following validation & initial verification to allow for calibration of the growth model and improve the project's carbon sequestration estimates. In addition, affected portions of the project area will be updated periodically in response to natural disturbance events of significant forest management activities. If impacts from such events are significant, the affected areas will be reinventoried and adjusted to reflect current on-site carbon stocks. For those years in-between when an updated inventory is carried out, on-site carbon stocks will be monitored through forest growth and yield modeling. Beyond forest inventory updates, the PP will continually monitor the general health and condition of the forest through the course of regular forest management activities including road maintenance, harvesting, ecological restoration projects, or boundary maintenance.

QA/QC procedures have been established as part of the monitoring plan and are outlined in section D1 of the GHG Plan and Section 2 of the SOP (Carbon Cruise Protocol). Both forest and desk-based QA/QC procedures are established. At least 5% of the forest inventory plots will be checked by a different cruiser than the individual who measured the plot. The plot check cruise consists of full plot measurements to identify any issues or significant discrepancies. The SOP provides the measurement

type, tolerance, and audit result (e.g., error pts or plot failure) that the inventory contractor (Cougar Environmental) applied to assess cruiser performance, issues and inventory implications. Any consistent error will be resolved through discussion with the cruisers who carried out the original measurements or removal of the individual if deemed necessary. The stated desk QA/QC procedures also focus on ensuring that all collected data is appropriately managed and maintained, and that all subsequent calculations of the data that are incorporated into the ERT issuance are correct.

Verifiers were provided with the six Check Cruise batch workbooks detailing the plots and trees checked and comments on the errors identified (e.g., DBH, Height, Status, In/Out). The workbook also includes the original plot/tree data for the check cruised plots. In total, about 5% of the forest inventory plots were check cruised. Incorrect diameter measurements were the most common error identified during the check cruising. There were not a significant number of errors identified during the check cruise nor was any systematic bias or error found with any cruiser.

Verifiers uncovered some minor issues during the site visit sampling such as differences in DBH and needed SOP clarifications (e.g., inventory specifications for limiting distance trees and missing biomass percentages in the bole). As these were relatively minor and the requested detail incorporated into the revised SOP has been provided, the verifiers found no reason to further question the implementation or effectiveness of the established QA/QC mechanisms.

2.14 Community and Environmental Impacts

As part of the GHG Plan, ACR requires all projects to prepare and disclose an environmental and community impact assessment. Section F1 of the project's GHG Plan outlines the Community and Environmental Impact Assessment addressing the requirements of the ACR Standard.

The project activity is improved forest management. The landowner's forest management practices represent a significant improvement in carbon storage and conservation value when compared to industrial private forestlands in the region that emphasize higher financial return and management regimes characterized by shorter, even-aged rotations. The project activity will increase carbon stocks by maintaining existing forest biomass and restricting harvests to less than the annual forest biomass growth over the project period. This reduced harvest regime will result from an extension of rotation age, which is much longer than common practice of the neighboring forest owners in this region.

No formal stakeholder consultation was conducted in advance of the project, nor was any required because the Project Area is privately held property. As the project area is privately owned by EFM, no communities or other stakeholders are affected by the project activities, there is not a detailed community consultation and communications plan. The GHG Plan indicates that the project is not a community-based project. In Section F1 of the GHG Plan the PP notes: "If EFM is contacted by any persons regarding the project, EFM staff will provide references to the publicly available documentation for the project. EFM has conducted informal community and stakeholder outreach about its interest and plans to develop an Improved Forest Management carbon project. Formal community and stakeholder outreach will be done as part of EFM's Forest Stewardship Council forest management certification."

As noted in the 2020 Forest Management Plan: "The Property is managed according to the core principles of EFM, which seek to build both conservation and social values, while providing adequate

risk-adjusted financial returns to its investors". Property goals and objectives are provided in Table 1 of this Plan. Core goals and objectives include maintaining roads and protecting the property from risks. Habitat-related goals and objectives will be enacted where financially viable and/or conservation funding allows. Other goals include contributing to the local economy and engaging community members and stakeholders to seek input and involvement in management and monitoring activities across the property.

The GHG Plan gives a general assessment of the project's environmental risks and impacts, covering the relevant factors outlined in the standard including climate change mitigation and adaptation; biodiversity; air/soil/water quality; and natural habitats. Impacts have all been categorized as positive except for air/soil/water quality and natural habitats which has been rated as neutral; verifiers agree with all the PP's impact determinations. As such, there is no need to describe how negative impacts will be avoided or minimized.

Monitoring of the risks and impacts is covered in sections F1 & D1 of the GHG Plan which gives an outline of monitoring activities including inventories (forest measurements), calibrations of forest growth and yield modeling, and management activities and plans. Annual forest management monitoring is completed by the EFM management staff or hired contractors, which includes monitoring the general health and condition of the forest through the course of normal management activities including roads, recreation, wildlife, timber harvesting, and wildfire resiliency practices (silviculture, maintaining roads). Verifiers find these monitoring methods are deemed sufficient to meet the requirements of the ACR Standard (Chap 3). The GHG Plan (F1) also includes a description on how the positive impacts contribute to the SDGs as required.

2.15 Stakeholder Comments

The GHG Plan asserts that stakeholder comments are non-applicable. The Project Proponent is a private forestland owner and adhere to their respective internally agreed upon practices of project consultation and notification on associated decision making affected by the project activity. EFM has an internal Board of Directors that guides the direction of the organization, policies, and management decisions. As noted in Section F1 of the GHG Plan, "If EFM is contacted by any persons regarding the project, EFM staff will provide references to the publicly available documentation for the project." The GHG Plan indicates that the project is not a community-based project. The verifiers agree with this determination considering the project ownership and decision-making management system.

2.16 Validation Conclusion

During the validation assessment the verifiers identified 7 Clarifications, 5 New Information Requests, and 3 Non-Conformances. All audit findings were responded to and addressed to the satisfaction of the verifiers. Once all identified issues were adequately resolved, S&A Carbon drafted this final combined validation & verification report. After reviewing the final GHG Plan (12/20/2022) and all supporting documentation, the verifiers concluded with a reasonable level of assurance that the project is in conformance with the applicable criteria and requirements of the ACR Standards listed in Section 1.4. The findings in this report represent the final determinations of the project's conformance with the standard criteria included in the scope of this validation audit. S&A Carbon is thus able to issue a positive validation opinion of the project's design as outlined in the final GHG Plan and the projected *ex-ante* GHG emission reductions of 482,416 tCO2e over the first 20-year crediting period.

3 Verification Activities

3.1 Project Implementation Status

As previously described in this report, the project's initial verification took place concurrently with the project's validation. The verifiers determined the project activities were implemented over the initial reporting period corresponding to the dates 6/7/2021 to 3/31/2022 in accordance with the project design established in the GHG Plan. The PP submitted a completed copy of the Monitoring Report (MR) that provides the information required in the ACR monitoring report template. The verifiers are reasonably assured there were no changes to the landowner, project area or inventory over the reporting period, and estimates of the current on-site carbon stocks based on the inventory data are provided. There was no commercial harvesting over the initial reporting period with no reported carbon stored long term in harvested wood products. No project deviations occurred during the initial reporting period.

The MR outlines the data and parameters monitored over the reporting period, which are found to be consistent with the data and parameters included in the monitoring plan of the GHG Plan. The MR also includes the project's GHG emission removals and reductions including baseline emissions, project emissions, leakage emissions, contributions to the buffer pool, and a summary of the net GHG emission removals and reductions at the end of the reporting period. The verifiers confirmed the accuracy of the ERT calculations and consistency with the final values reported in the MR with the supporting ERT calculation workbook.

Project level live carbon stocks were derived by inputting the inventory tree list into FVS and calculating the total project stocks of the inventory tree list using Jenkins biomass equations (as per the ACR IFM methodology). Verifiers concur with this approach as this process ensures consistency among the reported project and baseline stocks, the latter of which is also derived by using the inventory tree list to grow and harvest the baseline stocks for each period in FVS.

The verifiers performed checks on the ERT calculations for the initial reporting period to confirm the accuracy of the PP's calculations. Reporting period ERTs were also calculated using the verifier's internal calculations of end of reporting period on-site carbon stocks as the basis for the materiality checks as presented below.

3.2 Data-Checks & Materiality

A summary of selected data checks for the project are provided below. The assigned ranking reflects both the size and uncertainty associated with these SSRs. These and other data checks performed (along with narrative details of the check and results) are included in the verifiers data check log.

SSR (rank)	Data reviewed Checks performed	Reported (PP) tCO ₂ e	Calculated (VB) tCO ₂ e	Dis- crepancy tCO ₂ e	Impact on misstatement/ conformance
Rank 1 Sum of Project stocks; end of	2021 Inventory, volume and biomass equations, calculation methods	1,289,563	1,289,563	0	No impact on Materiality

P.D.					
RP					
(CP,TREE,t,					
CP,DEAD,t,					
CP,HWP,t,					
GHGP,t)					
Rank 2	2021 Inventory, volume				
Sum of	and biomass estimates,				
Project	grown modeling results,				
stocks;	grown tree list. Model				
beginning of	appropriateness and use.	1,260,307	1,260,307	0	No impact on
RP	Data systems.	_,,_,	_,,_,	_	Materiality
(CP,TREE,t,	Checks of accumulations				
CP,DEAD,t,	and correct transfer to				
CP,HWP,t,	Monitoring Report				
GHGP,t)					
Rank 3	Monitoring Report and				
20-Yr Average	supporting modeling				
Baseline	documents. Model				
stocks (live	appropriateness and use.	1 002 906	1 002 906	0	No impact on
and dead tree	Data systems.	1,092,806	1,092,806	0	Materiality
CO2e)	Checks of accumulations				
CBSL,AVE	and correct transfer to				
(total)	Monitoring Report.				
Rank 4					
Emissions	Manitania - Danast				
Reduction at	Monitoring Report				
t					
(before					Mar Construction
buffer	Checks that all PP entries	26,428	26,428	0	No impact on
deduction)	are correct. Check sources.				Materiality
(CACR,t)	Checks that calculations				
	within the worksheet are				
	correct. Calculation check				
	uses PP values.				
Rank 5					
Market					
Leakage	Monitoring Report,	12,881	12,881	0	No impact on
Discount	supporting documents.	(40%)	(40%)		Materiality
Factor (LK)					
Rank 6	Monitoring Popert				
Baseline	Monitoring Report,				
Harvested	supporting worksheets				
Wood					
Products	Model results LIMP				
	Model results, HWP	10.000	10.000	0	No impact on
(CBSL,HWP,t)	worksheet. Confirm model	10,906	10,906	0	Materiality
	projections and sums.				·
	Correct use of appropriate				
	mill efficiencies, product				
	classes and long-term				
	storage factors.				

Rank 7 Buffer Credits and Risk Rating (TBt)	Monitoring Report, calculation workbooks, supporting worksheets Checks that all PP entries	5,815 (22%)	5,815 (22%)	0	No impact on Materiality
	are correct. Check risk rating and calculations have been calculated correctly.				
Rank 8 HWP Project (CP,HWP,t)	Monitoring Report, supporting worksheets				
	On-site observations, GIS review, interviews with the PP. Checks of mill receipts and HWP storage calculations. Correct use of appropriate mill efficiencies, product classes and long-term storage factors.	0	0	0	No impact on Materiality
Rank 9 Total Uncertainty (UNCt)	Monitoring Report supporting worksheets	0	0	0	No impact on
Comment: Rela	Use PP data for 2021 inventory stocks; checks the calculation of total uncertainty was done correctly. bw 10% threshold, so total uncertainty	(<10%)	(<10%)	0	Materiality

The validation/verification team must state with reasonable assurance that discrepancies between emissions reductions/removal enhancements claimed by the Project Proponent and estimated by the VVB be immaterial (less than the materiality threshold of +/- 5%). The equation below is used to calculate the percent error in the GHG removals and emission reductions assertion.

$$\% \ Error = \frac{Project \ Emission \ Reduction \ Assertion - Verifier \ Emission \ Reduction \ Recalculation}{Verifier \ Emission \ Reduction \ Recalculation} \times 100$$

Percent error =
$$[26,428 - 26,428] \times 100 = 0.000\%$$

26,428

Project ERTs – Verifier ERTs (tCO2e)	Verifier ERTs (w/o buffer deductions) (tCO2e)	Calculated Materiality %	
0	26,428	0.000%	

The materiality check was carried out according to ACR guidance using the equation above. The verifiers independently calculated the reporting period ERTs using their internal calculation of total project level stocks. The verifiers calculation of ERTs was the same as the PP's calculation using their quantified parameter values. The Materiality Calculation shows the project has no materiality (0.000%). Thus, the project is less than the 5.0% materiality threshold.

3.3 Verification Conclusion

During the verification process, the S&A verification team gathered evidence to evaluate the project design, the project implementation, and assess the accuracy of the GHG assertion associated with the reporting period.

After review of all project information, procedures, calculations, and supporting documentation, S&A confirms that Project reporting is accurate and consistent with all aforementioned criteria and requirements of the ACR Standards. S&A confirms all verification activities, including objectives, scope and criteria, level of assurance, and project documentation adhere to the ACR Standards. S&A concludes without any qualifications or limiting conditions that the Project meets the requirements of the ACR Standards.

S&A has verified the PP's GHG assertion of **26,428 tCO2e** for the Reporting Period of 6/7/2021 to 3/31/2022.

Vintage Year	Total ERTs (tCO ₂ e)	Total ERTs to Buffer Pool (tCO ₂ e)	ERTs Net (tCO₂e)		
2021	18,446	4,059	14,387		
2022	7,982	1,756	6,226		
Total for RP1	26,428	5,815	20,613		

S&A has also verified removals and other ERTs, which is summarized below for the Reporting Period of 6/7/2021 to 3/31/2022. Removals are calculated based on equation 24 within the ACR Errata and Clarifications v1.3 (April 2022). They are defined as "The mass of GHGs removed from the atmosphere over a specific period relative to an approved baseline. In the context of this methodology, removals are carbon stock changes resulting in sequestration attributable to the with-project scenario".

Vintage Year	Total ERTs (tCO₂e)	Other ERTs (tCO ₂ e)	Removals (tCO₂e)		
2021 18,446		6,194	12,252		
2022	7,982	2,680	5,302		
Total for RP1	26,428	8,874	17,554		

Appendix A: Reference List

Project Proponent Documents & References

Description	Filename
Listing	ACR Project Listing_Wildcat_22Dec2021_Submit.pdf
	GHG Plan_Wildcat_IFM_v2.2_Final_20Dec2022
CUC Plan	Appendix A_Wildcat GHG Plan_Inventory Strata Plots_03Dec2022.pdf
GHG Plan	Appendix B_EFM_CarbonCruise_Protocol_NorCal_v4.0_20Dec2022_FINAL.pdf
	Appendix C_Wildcat GHG Plan_ERT worksheet_09Dec2022.xlsx
	EFM_Wildcat_RP1 Monitoring Report_v2.1_Final_20Dec2022_signed
Monitoring Report	Appendix A_Wildcat_Monitoring Repoart_RP1_ ACR_ERT worksheet_09Dec2022
	Appendix B_Wildcat_Monitoring Report_ACR Risk Analysis_Buffer Calculation_09Dec2022
	EF II Grant Deed.PDF
	EF II to WW Grant Deed.PDF
Drawanti Daada Ouraarahin	Siskiyou County_ACREAGE FOR WILDCAT WHISKEY LLC.xlsx
Property Deeds-Ownership	Wildcat LEGAL DESCRIPTION.docx
	Wildcat Parcels & Map.pdf
	SRH_TRS_Map.pdf
Conservation Easement	Wildcat CE EFM Recorded 2020.pdf
Forest Management Plan/Certification	Wildcat Forest Management Plan Final.pdf
Torest Mariagement Flan/Certification	FM_CRT_EcotrustForestManagement_073020.pdf
	Wildcat_112922.gdb
	Wildcat_SHMZ.shp
	Project_boundary_02Nov2022.zip (EFM_Wildcat_Boundary.shp)
GIS Files – Spatial Data	Calfire_buffers_Wildcat_110822.shp
	Calfire_buffers_byUnit_110822 — Calfire_buffers_Wildcat_110822.shp
	EFM_Wildcat_SamplePoints_Final_Strat.shp
	EFM_Wildcat_SiteIndex_Overlay2.shp

	EFM_CarbonCruise_Protocol_NorCal_v4.0_20Dec2022_FINAL.docx
	EFM_Wildcat_Inventory Calcs & Stats_01Dec2022.xlsx
	EFM_Wildcat_Fishnet_WGS84_JWF_20221104.shp
	SystematicSamplingGISworkflow_2022.docx
	EFM_ScottRiver_StratificationMethods_20220211.docx
Inventory	PP Responses to Stratification Questions_08July2022.docx
,	EFM_Carbon Inventory_Wildcat_FINAL_15Dec2021_Rev_22June20221.accdb
	Inventory Documents\Inventory Plot Information
	Inventory Documents\Check Cruise
	EFM_Plots in Slivers Due to Boundary Expansion_11Dec2022.docx
	EFM_WalkthroughResponses_03Dec2022.docx
	i-Tree Canopy_Wild_20221014.pdf
	Modeling\FVS_Modeling
	Modeling\NPV_Modeling
	EFM_Wildcat_Degrow_Steps.docx
	EFM_Wildcat_LP_Formula Explanation.docx
	EFM_Wildcat_Model_Files_Directory.docx
	EFM_Wildcat_Site_Index.xlsx
	EFM_Wildcat_Site_Index_03Dec2022.xlsx
Madalina	EFM_Wildcat_Site_Index Explanation.docx
Modeling	EFM_Wildcat_Site_Index Explanation_03Dec2022.docx
	EFMCA_Wildcat_Baseline_RP1.gms
	EFMCA_Wildcat_Baseline_RP1.lst
	EFMCA_Wildcat2_Baseline_RP1_Management_Breakdown.txt
	EFMCA_Wildcat2_Project_RP1_Management_Breakdown.txt
	SRV_Project Baseline Modeling_No Harvest
	Constraints_28Nov2022_FINAL.xlsx
	PPI_Forest_Cost_Inflator_DataFinder-20221129022310.xlsx
Other Documents	EFM_Forest Carbon Projects_Organizational Chart_10April2022.docx
Other Documents	EMF_LC Carbon_Consulting Services Contract_07June2021_signed.pdf

	EFM_Carbon_Stream_Letter_110422				
	mr225_sppsz_2017_aa.pdf (LEMMA – GNN Accuracy Assessment Report-				
	Release Version:2020.1)				
	2022-fpr-and-fpa_ada.pdf (California Forest Practices Rules)				
	Conversion_Factors_gtr_srs251.pdf				
	Ecotrust FSC v BAU forestry study.pdf				
Data Sources	https://open-data-siskiyou.hub.arcgis.com/				
Data Sources	https://www.co.siskiyou.ca.us/gis/page/siskiyou-county-open-data				
	https://forest-practice-calfire-				
	forestry.hub.arcgis.com/search?tags=forest%20practice%20hydrology%20ta83				
	www.canopy.itreetools.org				

Verifier Documents

Document Description	Filename
Project Specific COI Form	ACR734_COI Form_v2-20230126.pdf
Validation/Verification Plan	ACR734_Wildcat_Validation-Verification Plan_v1.8_15Feb2023
Sampling Plan	ACR734_Wildcat_Sampling Plan_v1.8_15Feb2023
Data Check Log	ACR734_DataCheckLog_20Jan2023
Issues Log	ACR734_Wildcat_IssuesLog_v2.1_30Dec2022_closed
Site Visit -Plot Sampling t-Test	ACR734_Wildcat_T-Test Worksheet_23June2022

Appendix B: Findings List

<u>Verifier Issue</u>	Issue ID:	<u>22-1</u>	Status: Closed	Checked by:	MD	Date Identified	22-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments	
ACR Standard (A.3.2)	GHG Plan, Section B3	Possible non conformance. May impact materiality or conformance.	the PP's boundary sl locations are ~200 for adjacent sections sh description there we the reason for the co	are four locations where property sec shape file. At three of these locations feet. In these instances, verifiers belie hould meet at the same point. Verifier fere no instances where sections corner corner mismatches and make correction ta showing these locations (SAA_Check 13).	the differences between the eve these the corners of rs confirmed in the deed ers varied. Please explain ons if needed. Verifiers have	sAA_Checkpts_V	
			previous project bou (Google Earth, 2020	2 Findings the PP's revised project boundary spateundaries, the county tax parcel lines, I OCA NAIP). Revising the project bound the has cleared up the misalignment o	PLSS lines and aerial image daries to agree with the	ry <u>https://open-datasiskiyou.hub.arc</u>	
PP Response							
Date	PP Comment					Additional evidence s PP	ubmitted for review by
8-Nov-22	As the result of consultation with ACR and the Verification Body and to address corner alignment issues, the PP is now using the Siskiyou County tax lot GIS layer as the data source to define the spatial boundaries of the tax parcels owned EFM. All tax lots owned by EFM were confirmed by referencing Siskiyou County tax lot data. **Project_boundary_02Nov2022.zip** **Project_boundary_02Nov2022.zip** **Project_boundary_02Nov2022.zip** **Project_boundary_02Nov2022.zip** **Index of the tax parcels owned by EFM were confirmed by referencing Siskiyou County tax lot data.** **Index of the tax parcels owned EFM.** **Index of tax parcels owned EFM.** **Index owned EFM.** **Ind						·

<u>Verifier Issue</u>	Issue ID:	<u>22-2</u>	Status: <u>Closed</u>	Checked by:	MD	Date Identified	22-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments	
ACR Standard (A.3.2)	GHG Plan, Section B3	New information request. May impact conformance; no materiality	PLSS section lines. The di basis for the location of th corrections if needed. V	ation in two property / project G ifferences are between 250 and he GIS property boundaries in the 'erifiers have attached spatial data s_Wildcat_9-2022; check point if	300 ft. Please explain the nese locations. Make the showing the locations of	SAA_Checkpts	Boundary.shp _Wildcat_9-2022

		northern section corner and line with the large variation. The next section corner south from point 14 is where the other large variation is located.	er
		November 20, 2022 Findings Verifiers reviewed the revised project boundary spatial data relative to the Siskin County's tax parcel lines, PLSS lines and aerial imagery (Google Earth, 2020 CA N The verifiers see that using the County tax parcel lines for project boundaries had brought consistency to the project boundaries and that there still are some mind discrepancies relative to two PLSS section corners and lines. However, the verificancept the revised project boundaries; they are reasonably accurate and believe acreage difference from an adjustment to match the PLSS corners would be insignificant (<0.25 acres) and not a materiality issue. Thus, this issue is conside closed.	AAIP). https://open-data-siskiyou.hub.arcgis.com/ or iers e the
PP Response	?		
Date	PP Comment		Additional evidence submitted for review by PP
8-Nov-22	layer as the data source to de were confirmed by referenci	with ACR and the Verification Body, the PP is now using the Siskiyou County tax lot GIS efine the spatial boundaries of the tax parcels owned EFM. All tax lots owned by EFM ng Siskiyou County tax lot data. The Siskiyou County GIS tax lot parcel layer being used to define the spatial boundary, with concurrence of ACR, does not resolve the PLSS	Project_boundary_02Nov2022.zip https://open-data-siskiyou.hub.arcgis.com/

<u>Verifier Issue</u>	Issue ID:	<u>22-3</u>	Status: Close	<mark>ed</mark>	Checked by:	MD	Date	Identified	22-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Descripti	on				Comments	
	GHG Plan	New information request.		typo in the GHG plan ce see "Know and ma	., 0 ,		raph,	GHG Plan_\	Vildcat_IFM_03June2022.pdf
		May impact conformance;	There is also a	typo on page 50 rega	rding the FVS variant	t used (Pacific Coast	variant).		
		no materiality	These typos oc needed.	cur in all three Scott F	River IFM projects. F	Please review and re	evise as		
			November 21, The PP has not	2022 Findings responded to the issu	ue and it remains op	en.			
				022 Findings at the typo on page 1 issue is closed.	7 of the updated GF	IG plan has been co	rrected.	_	Wildcat_IFM_v2.0_02Dec Change Version
			in the revised \	FVS variant typo, an F Vildcat GHG plan and /S version should be t	the variant in each	case is different. Ve	rifier		

		as needed. This discrepancy also still occurs in b GHG Plans. This part of the issue remains open.	oth the Shackleford and Whiskey		
		· ·	December 15, 2022 Findings Verifiers note the FVS variant typos still exist in the revised Wildcat GHG plan (and in the Shackleford and Whiskey GHG plans). Please review and revise as appropriate.		
		December 21, 2022 Findings Verifiers acknowledge discrepancies related to the corrected in the revised GHG Plan as well as with Shackleford and Whiskey projects. This issue is not shared the corrected in the revised GHG Plan as well as with the corrected in the revised GHG Plan as well as with the corrected in the revised GHG Plan as well as with the corrected in the revised GHG Plan as well as	nin the revised GHG Plans for	GHG Plan_Wildcat_IFM_v2.1_20 Dec 2022_Track Change Version	
PP Response					
Date	PP Comment		Additional evid	Additional evidence submitted for review by PP	
2-Dec-22	GHG Plan has been revised to address typos.		GHG Plan_Wild Version	GHG Plan_Wildcat_IFM_v2.0_02Dec2022_Track Change Version	
11-Dec-22	Revised GHG Plan submitted by the PP		GHG Plan_Wild Version	GHG Plan_Wildcat_IFM_v2.0_11Dec2022_Track Change Version	
20-Dec-22			GHG Plan_Wild Version	dcat_IFM_v2.1_20Dec2022_Track Change	

Verifier Issue	Issue ID:	<u>22-4</u>	Status: Closed Checked by: MD/BS	Date Identified 22-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description	Comments
IFMv1.3 (D1); Standard (2A)	GHG Plan (E1)	Possible non conformance. May impact materiality or conformance.	Verifiers find in the forest management plan the reference to various non-forested cover types on the property (pg 16, Table 4) - a total of 101 acres designated as either annual grassland (the majority), barren, pasture or wet meadow. These larger non-forest areas do not appear to have not been removed from the project area despite the listing of such in the management plan. Verifiers believe these larger non-forest areas should be excluded from the project area as they are not forestlands and do not contribute to the project's forest carbon stocks. Please review, clarify, and revise as needed.	Wildcat Forest Management Plan Final.pdf GHG Plan_Wildcat_IFM_03June2022.pdf
			November 20, 2022 Findings Verifiers understand the PP is including low stocked (<10% forest cover) and nonforest areas (e.g., wet meadows) within the project area as these vegetation cover types can be included because the project area as a whole meets the forestland definition as specified in Section A1 of the ACR IFM v1.3 (i.e., meets the 10% stocking requirements, in aggregate, over the entire area). The PP has also provided	Scott River Headwaters PMP Draft – Public Wildcat Forest Management Plan Final canopy.itreetools.org

supporting evidence that the entire project area meets this forestland definition (i.e., iTree Canopy results showing the project area is 95% forestland).

Verifiers acknowledge the PP's inventory design accounts for non-stocked and low-stocked areas in a statistically sound manner by using a systematic grid; all cover types within the project area had equal probability of being selected for sampling. And that the project area was post-stratified and the associated inventory sampling error would be reflected in the uncertainty calculations in estimating the project stocks. Verifiers also understand that IFM methodology, Section D1, does not require stratification nor does it specify *ex-ante* stratification for projects that are post-stratified.

To be clear, verifiers are not questioning whether the project area contains greater than 10% forestland nor whether the inventory design is statistically sound. Rather, verifiers are assessing whether the PP's approach of including some relatively large non-forest areas (>5-10 acres), some of which have been documented in the landowner's forest management plan (e.g., grasslands) and are also visible on aerial imagery, meets the Guiding Principles for GHG Accounting (ACR Standard v7.0; A.2). All principles are relevant here, but verifiers are primarily concerned with the Conservatism Principle:

"Use conservative assumptions, values, and procedures to ensure that GHG emission reductions or removal enhancements are not overestimated."

This principle is also further highlighted for VVBs in the ACR Validation & Verification Standard (v1.1, Chap 5 and Chap 9).

The project area contains some relatively large non-forest areas (e.g., grasslands, wet meadow) as listed in Table 4 of the 2020 Wildcat Property- Forest Management Plan (pg 16):

i-Tree Canopy_Whis_20221014.pdf

VB.

FIA, National Core Field Guide, Vol 1, v9.2

https://www.fia.fs.usda.gov/library/field -quides-methodsproc/docs/2022/core_ver9-2_9_2022_SW_HW%20table.pdf

Table 4. Wildcat Property Vegetation Types (CALVEG)

Vegetation Type	Acres	% Tot
Annual Grassland	88	1.1
Barren	2	0.0
Douglas Fir	1,067	13.1
Jeffrey Pine	228	2.8
Klamath Mixed Conifer	4,538	55.6
Mixed Chaparral	386	4.7
Montane Chaparral	79	1.0
Montane Hardwood	64	0.8
Montane Hardwood-Conifer	388	4.8
Pasture	2	0.0
Ponderosa Pine	1,068	13.1
Red (Shasta) Fir	130	1.6
Subalpine Conifer	5	0.1
Wet Meadow	9	0.1
White Fir	111	1.4
Total	8,165	

Some of these areas are not likely to support tree growth during the crediting period (e.g., grasslands) or may be shrub dominated areas (e.g., chaparral, see FMP pg 18). Because of this, verifiers are not reasonably assured the PP's approach to estimating project stocks complies with the conservatism principle. Verifiers believe these nonforest areas should not be included in estimating project stocks and should be removed from the project area. Verifiers recognize some of these areas (identified within the management plan or the verifiers' aerial imagery spot checks of vegetation types within the project area), may be classified non-productive but still be considered forestland as described below.

To gain clarity on the definition of forestland noted in the ACR IFMv1.3, verifiers met with ACR staff on November 14, 2022. We understand this definition stems from the FIA National Core Field Guide, which uses condition classes to define cover types including forestlands. For forestlands, the FIA Guide (v9.2, Section 2) notes the following:

"Forest Land has at least 10 percent canopy cover of live tally tree species of any size or has had at least 10 percent canopy cover of live tally species in the past, based on the presence of stumps, snags, or other evidence."

"To qualify as forest land, the prospective condition must be at least 1.0 acre in size and 120.0 feet wide measured stem-to-stem from the outer-most edge. Forested strips must be 120.0 feet wide for a continuous length of at least 363.0 feet in order to meet the acre threshold. Forested strips that do not meet these requirements are classified as part of the adjacent nonforest land." Additionally, as the PP notes, the ACR forest land definition is: "Forest land is defined as land at least 10 percent stocked by trees of any size, or land formerly having such tree cover, and not currently developed for non-forest uses. Land proposed for inclusion in this project area shall meet the stocking requirement, in aggregate, over the entire area". Based on our recent discussions with ACR and review of the FIA's specifications, verifiers believe the words "in aggregate" may be a source for misinterpretation. Verifiers understand the intention of "in aggregate" is to include lands that meet the FIA forest land specification (condition class of >1 acre and 120 ft wide), which also includes the lands that once met this definition and were forested. As shown on recent aerial imagery, the Wildcat project area contains areas that were recently harvested (Sections 8 & 9). These harvest units currently have limited forest cover but contain stumps and snags. Verifiers' understanding is that these are the types of areas that are suitable to be aggregated-they were capable of growing trees ("formerly having such tree cover"). As noted, the ACR forest land definition excludes areas not currently developed for non-forest uses (e.g., pasture lands). Based on the FIA's definition of condition class for forest land, verifiers understanding is that other project area lands such as grasslands that do not meet the specifications were not intended to be aggregated in forest land cover estimates. As mentioned, verifiers concur with the PP that the project area meets the ACR eligibility standard for forest cover (>10%). We differ, however, in that lands that are relatively large in area (>5 acres), which do not meet the FIA forest land condition class, are being included within the project area to estimate project stocks. Regardless of if the project is stratified (pre or post inventory), the inclusion of such lands does not satisfy the conservatism principle in estimating GHG emissions reductions/removals and should be removed from the project area. December 15, 2022 Findings Wildcat 112922.gdb Verifiers acknowledge the PP has revised the project area based on identifying and removing non-forest areas. Verifiers understand the PP completed a systematic Wildcat SHMZ.shp review and utilized the landowners GIS spatial data of previously delineated special habitat management zones described in the property's management plan, which is

referenced in the conservation easement.

	believe the PP's app comprehensively re non-forest lands wit area spatial data; th	tion and delineation of the non-forest lands is subjective, verifiers roach is reasonable and conservative; and has been viewed and assessed, and accurately implemented in removing thin the project area. Verifiers concur with the revised project is issue is now considered closed.	
PP Response			
Date	PP Comment		Additional evidence submitted for review by PP
8-Nov-22	It is the project development team's opinion that it is allowable and statistically sound to include areas of low stocking in the project areas. It is also the project development team's understanding that the inclusion of non-forest areas is allowable under ACR IFM v1.3, given that the project area meets the definition of "forestland" in section A1 of the methodology. This definition states: "Forest land is defined as land at least 10 percent stocked by trees of any size, or land formerly having such tree cover, and not currently developed for non-forest uses. Land proposed for inclusion in this project area shall meet the stocking requirement, in aggregate, over the entire area". To demonstrate that the project area qualifies as forestland as defined by ACR IFM v1.3, iTree Canopy (canopy.itreetools.org) was utilized to estimate tree cover across the project area. iTree Canopy randomly allocates points within a defined polygon and allows the user to determine if the area is forest or non-forest. Three hundred points per project area were randomly assigned, and the max zoom extent was considered as the area of concern: if the area contained approximately >=10% canopy cover, it was called forestland; if not, it was called non-forestland. Results of the iTree Canopy exercise indicate that the Wildcat project area is 96% forestland. Thus, this project area meets the definition "forestland" in aggregate as defined by ACR IFM v1.3. iTree Canopy reports and project files are being made available to the Verification Body as part of the PP's response support documents. The inventory design accounts for non and low-stocked areas in a statistically sound manner. The inventory was designed as a systematic grid and was post-stratified; thus, every acre of the property had equal probability of selection for sampling, regardless of stocking. Therefore, all stocking levels are statistically accounted for in the inventory and are reflected in the baseline and with-project scenarios. The project areas were post-stratified us		i-Tree Canopy_Wild_20221014.pdf
2-Dec-22	result of this review, the PP removed the acres deemed t in instances where no trees (i.e. exposed rock outcrops a stumps) are present through review of aerial imagery. W	s completed to evaluate the issues raised in this finding. As a o be non-forest land. Our focus on removing non-forest land was nd barren areas) or evidence of trees (i.e. dead timber and/or e concur some "non-productive" land identified in the Forest these acres were not removed. The process of identifying and	Wildcat_112922.gdb Wildcat_SHMZ.shp

removing non-forest areas is very subjective; however, we completed a systematic review of the entire project area, including the use of an EFM internal GIS layer of proposed special habitat management zones (SMHZs) that are contained in the CE.

<u>Verifier Issue</u>	Issue ID:	<u>22-5</u>	Status: <u>Closed</u>	Checked by:	BS/MD	Date Identified	5-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments	i
IFM v1.3(B4)	GHG Plan (E.1.3)	Clarification. May impact materiality or conformance.	provide the data set u 2) How were the SHMZ asource that was used document, there is reprovided. Please proassociated attributes	elineate this stratum. Baselemental Stratification Mers understand Strata 6 inconformia Forest Practices Ruse within the proposed coment zones). I verifiers reviewed the pure data and found discrepantwo examples of the discrepantwo examples are seeking ting documents that allow have been appropriately	sed on the GHG Plan ethods document, and or porates the legal ules (WLPZ-Watercourse onservation easement of the legal ules of th	EFM_Scott 0220211.d e and Wildcat Fo Final.pdf Wildcat CE ia RMA S&A: Wildcat_ls California_ te ion of	Wildcat_IFM_03June2022.pdf River_StratificationMethods_2 oc rest Management Plan EFM Recorded 2020 sue_22-5_15Sept2022 Streams_shp (CA F&W)
			· ·	was used to define the va			

the California Forest Practice Rules (Article 6; § 916.5, 936.5, 956.5)? Please provide the WLPZ used for the associated watercourse classes (i.e., buffer width sizes).

Verifiers understand the Wildcat Forest Management Plan provides widths of the large and small riparian corridors associated for the SHMZ but Strata 6, based on the strata spatial data, appears to use three different buffer widths. Moreover, this is different terminology that does not reflect the California Forest Practice Rules regarding WLPZ required buffers. Additional clarification is needed in the GHG Plan and/or an associated project document that defines these parameters.

- 4) According to the California Forest Practice Rules (Article 6; § 916.4, 936.4, 956.4), the WLPZ is measured from the "Watercourse Transition Line". As there are numerous streams and associated sizes within the project area, how did the PP account for these various channel widths in determining the WLPZ?
- 5) The GHG Plan provides a map showing streams, water bodies and wetlands (Section B3, Figure 4). The wetlands data appears to reflect the US Fish & Wildlife Service's National Wetlands Inventory source data (NWI). Is that correct?

The spot checks completed by verifiers show the NWI's mapped wetlands are outside the Strata 6 boundaries. The second screenshot within the provided *Wildcat_Issue_22-5_15Sept2022* shows an example of a discrepancy observed. Please clarify why these wetlands have not been included in Strata 6.

6) In Exhibit B of the Conservation Easement (Part II: Conditions for Forest Management), verifiers note various conservation areas are listed (e.g., Engelman Spruce, wet meadows, forest reserve). Have these areas been included in the SHMZ areas for Strata 6 (RMA)? Also, as requested above, please provide the SHMZ spatial data and associated attributes.

 7) While it is inferred that the RMA is Strata 6 in the Stratification Methods description document (item #2), please revise this item to add clarity on what stratum RMA represents. Please review and revise the project documents as appropriate to address and clarify these items and incorporate a more detailed description on the process used in the defining and delineating Strata 6 (RMA). 	
 November 20, 2022 Findings Verifiers understand the PP had previously delineated stream locations and associated classes based on the spatial dataset from the previous landowner(s) and is now switching to a public dataset (CalFire). The PP has clarified and provided the requested spatial data set; this issue item is now closed. Verifiers are seeking clarifications on the process used to define and delineate Strata 6 and how legal constraints were addressed and incorporated into the baseline model. The PP states the High Conservation Value Forests (HCVF) and NWI wetlands are primarily located within stream buffers and these buffered areas were determined based on the applicable California Forest Practices Rules for the project's stream classes (i.e., WLPZ). Verifiers now understand the basis for determining stream classes and delineating the associated and required WLPZ (issue item 1 above) that have been incorporated as a legal constraint in the baseline modeling. Verifiers, however, are not clear on how the HCVFs within the SHMZ areas stated within the Forest Management Plan (e.g., Forest Reserve, wet meadow/wetlands, pg 56) and associated conservation easement restrictions (FMP pgs 37-38) are being addressed within the baseline model's legal constraints. The GHG Plan (pg 23-24) does note the conservation easement restricts harvest in SHMZ and RMZs. Project documents, however, are lacking in providing the details of these constraints and associated restrictions to allow the verifiers to confirm the baseline legal constraints are being addressed to comply with the IFM Standard (baseline modeling). To close this issue item, verifiers request the following be incorporated into the appropriate project documents & data and methods utilized in delineating Strata 6 and (2) the same information for how the PP is addressing potential legal constraints for the baseline model associated with HCVF/SHMZ areas and Conser	https://forest-practice-calfire-forestry.hub.arcgis.com/search?tags=forest%20practice%20hydrology%20ta83 Calfire_buffers_byUnit_110822 — Calfire_buffers_Wildcat_110822.shp Project_boundary_02Nov2022.shp EFM_Carbon_Stream_Letter_110422 EFM_ScottRiver_StratificationMethods_20202011 Wildcat CE_EFM_Recorded DEc 2020 GHG Plan_Wildcat_IFM_v1.1_ 17June2022 S&A: ACR734_Wildcat_Issues Log_22-5(8).pdf USFW_NWI.gdb

Verifiers recognize the process used to determine the SMHZ for Strata 6 has changed. If the previously requested document spatial data (*Wildcat_SHMZ.shp*) is revised, please provide.

- 3.) Verifiers have confirmed the PP's use of CALFIRE stream data in determining the various water course classes. The buffer width sizes for Class 1 (165') and Class 2 (115') were provided. The project area contains Unclassified Perennial (140') and Unclassified intermittent (40.25') streams which were buffered using a weighted average with weighting guidance from California Registered Professional Forester, Dewey Robbins. Forest practice rules do not require buffers on Class 3 streams and as such, none are outlined in the project area. Verifiers find the approach reasonable, representative, and conservative. As with item 2 above, this issue item remains open until a description on this process has been added to the appropriate project document(s).
- 4.) Verifiers acknowledge the PP is assuming CA FPR's most conservative buffer widths for all stream classes to compensate for the other buffer-sizing parameters that vary between streams within the project area (i.e., channel widths (WTL) and the hillside slopes). Based on site visit observations on channel widths & topography, verifiers find these assumptions adequately and conservatively address the required WPLZ in complying with the California Forest Practice Rules (Article 6; § 916.4, 936.4, 956.4). This item remains open until a description on this process has been added to the appropriate project document(s).
- 5.) The PP indicates only CalFire stream data was used in the delineation of Strata 6 and that most of the USF&W's NWI wetlands are contained within Strata 6. Verifiers concur with the PP; most of these wetlands are associated with riverine systems and are within the existing stream's WLPZ. The GHG Plan (Figure 4, pg 18) and the 2020 Forest Management Plan (pg 14) further supports the PP's assertion.

The FMP (pg 41), however, does note the presence of a wet meadow/wetland within the project area:

Wet Meadow/Wetland SHMZ

Wet meadow/Wetland SHMZ consists of two polygons totaling 17 acres occurring in the French and Miner Creek Drainages (see Map 13). These meadows are dominated by grasses and forbs including some wet soil indicators (e.g., false hellebore). Surface water was noted during visits. Conifer encroachment is occurring on both sites from a mix of reproduction aged to commercial sized trees. Decades old stumps suggest conifers have been removed from the Miners Creek site during past logging entries. Plant surveys have not been completed by the current owner. Recent visits to these areas show livestock grazing has occurred on both sites and it is likely these meadows have been used by cows for many decades. The French Creek site is classified as a freshwater emergent wetland, while the Miners Creek site is not in the National Wetlands Inventory.

CE designated management requirements for this zone are described in Appendix B & C. There are no management actions scheduled in these lands during the planning period. However, habitat enhancement within this SHMZ (removal of conifer encroachment) is planned, contingent on grant funding.

This wetland is non-forestland and, according to the Conservation Easement (CE) implication noted above, appears to be managed and maintained as a wetland (planned removal of conifers). This non-forest area should be removed from the project area (noted in Issue 22-4 previously).

While this wetland does not require a WLPZ according to the CA FPR, verifiers request clarification if the Conservation Easement requires any legal constraints in regard to buffering that need to be included as a legal constraint. The CE notes Conservation Values of the Property where wetlands are included (pg 2, (F) and (H)). Is buffering of wetlands needed to meet the Conservation Purpose of the CE? Please clarify.

- 6.) This part of the issue overlaps with 22-5(2) above. The verifier has reviewed the SMHZs described in the Forest Management Plan (pg 56). The PP indicates that SMHZ areas not in the stream buffers will be assigned as no harvest in the baseline and project scenarios. We are finding it difficult to verify the baseline constraints without additional descriptions and spatial data for the SMHZ areas not included in Strata 6. To close this issue item, verifiers request this information be provided.
- 7.) While it is inferred that the RMA is Strata 6 in the Stratification Methods description document (item #2), please revise this item to add clarity on what stratum RMA represents given the latest parameters.
- 8.) Verifiers reproduced the buffer scenarios outlined by PP and compared the values for each stream class. Once all buffers were dissolved, the VB accounted for 1.5 acres in stream buffers that weren't accounted for by the PP. These appear to be buffers extending into the project area for

streams outside the project area. A screenshot is attached for reference (ACR734_Wildcat_IssuesLog_22-5(8)). Please review and revise as appropriate. 9.) Verifiers reviewed the California Forest Practice Rules (Article 6; § 916.4, 936.4, 956.4) which indicates that springs and domestic water sources should be protected with buffer widths dependent on slope (see Table 1 "Procedures for Determining WLPZ Widths and Protective Measures"). CALFIRE Hydro Point data indicates that there are springs in the project area which have not been accounted for in the buffers layer received from the PP. Please review and revise as needed. Wildcat SHMZ.shp December 15, 2022 Findings (2) The PP has revised the GIS spatial data for stream & spring buffers which are now Wildcat 112922.qdb based on the CALFIRE Forest Practice Hydrological spatial data. The associated buffer width specifications along with descriptive details of the process utilized for EFM CarbonCruise Protocol NorCal v3. delineating Strata 6 have been included in the revised GHG Plan (Section E1.3). 0 11Dec2022 FINAL Verifiers found the PP's approach to be an accurate and conservative estimate in delineating the associated WLPZ acres for Strata 6 (964 acres). Verifiers also GHG confirmed the additional description around the stratification process, assumptions Plan Wildcat IFM v2.0 11Dec2022 Tra and data sourcing for Strata 6 were incorporated to Appendix C of the updated SOP. ck Change Version Within the revised GHG Plan (Section E1.3), the PP has also included the requested descriptive details on the process, along with the supporting spatial data (SHMZ.shp), SRV Project Baseline Modeling No Harvest Constraints 28Nov2022 FINAL used to assess potential legal constraints for the baseline model associated with HCVF areas, wetlands, and conservation easement restrictions. Verifiers confirmed acreages presented in the SHMZ GIS layer for Forest Reserve and Engelmann Spruce areas; these acreages align with acreages provided in the revised GHG Plan (pg 48, Table 12 Baseline Harvest Constraints – No Harvest Areas). Verifiers find the PP's approach to accurately and conservatively account for the acreages associated with the SHMZ that are now incorporated into Strata 6. In reviewing the revised GHG Plan, verifiers note Section E1.3 (2nd paragraph) should reference the NSO Forest Reserve and Engelmann Spruce SHMZ rather than Meadows and Forest Reserve. This issue item will remain open until receipt of the GHG Plan with that minor update. (3) Verifiers confirmed that the description of how unclassified CalFire perennial and intermittent streams were classified and buffered via weighted averages (140' and 40.25', respectively) has been added to the revised GHG Plan (Section E1.3) and Appendix C of the updated SOP.

Given the differing buffers for Class 1 and Class 2 streams across project areas, Appendix C does not articulate accurately the buffers for Unclassified Perennial and Unclassified intermittent for Wildcat. Verifiers recommend that those buffer widths be explicitly stated by project area to maintain consistency across projects. This issue item will remain open until Appendix C has been revised.

(4) Verifiers acknowledge the PP has updated SOP (Appendix C) to include the requested description on the methods used to define the water transition line in complying with the CA FPR for delineating WPLZ along streams. This document states the various stream class buffers are based on the steepest slopes (maximum CA FPR buffer distance). All buffers applied in the creation of the RMA strata are now clearly described and defined in Appendix C of the updated SOP and accurately delineated in the revised spatial data.

Verifiers confirmed the buffer widths described in the GHG Plan and Appendix C of the SOP are consistent with those executed in GIS to form Strata 6 (Class 1- 165', Class 2- 115', Class 3 – no buffer, Unclassified Perennial-140' and Unclassified Intermittent- 40.25'). These buffer widths were dissolved to approximately 964 acres as outlined in Table 12 of the revised GHG Plan.

Given the differing buffers widths for Class 1 and Class 2 streams across project areas, Appendix C does not accurately articulate the buffers for Unclassified Perennial and Unclassified intermittent for Wildcat. For clarity, verifiers request that those buffer widths be explicitly stated by project area to maintain consistency across projects. This issue item will remain open until Appendix C has been revised.

- (5) Verifiers acknowledge the receipt of the revised GIS spatial data. Verifiers confirmed the removal of the non-forested acres associated with wetlands noted in the FMP (Map 13) from the project area (17 acres). This approach was found to be reasonable and accurately delineated in the revised spatial data. This issue item is closed.
- (6) Verifiers have reviewed the CE's potential forest management restrictions and the associated SHMZ GIS layer related to the restrictions. GIS layer acreages for Engelmann Spruce areas and NSO forest reserves aligned with those presented in the revised GHG Plan (Table 12 Baseline Harvest Constraints No Harvest Areas). Verifiers also acknowledge the riparian areas in the SHMZ GIS layers were derived from different hydrological data than that which was used in creating Strata 6. When compared, verifiers found the CALFIRE hydrology-based buffers included approximately 105 acres more than the SMHZ GIS associated with the draft CE.

		Verifiers agree that this is a conservative and reasonable approach for determ the baseline constraints in the project area. This issue item is closed. (7) Verifiers have reviewed Appendix C (Stratification) of the revised SOP (EFM_CarbonCruise_Protocol_NorCal_v3.0), which outlines all criteria for LEN raster categorizations for the strata and includes the requested additional dedetails on the delineation process for Strata 6 (RMA). This issue item is closed (8) Verifiers have reviewed the revised strata spatial data and the baseline constraints – No Harvest Areas). Required stream buffers extending into the area for streams outside the project area have now been included in the revist strata 6 spatial data. Verifiers' checks of these acreages now closely align with PP's total acreages for Strata 6 (< 0.01%). This issue item is closed. (9) Verifiers have reviewed the revised strata spatial data and the baseline concareages associated with Strata 6 in the revised GHG Plan (Table 12). Verifiers checks confirm that CALFIRE hydro point springs spatial data has now been in within Strata 6 and these springs were buffered at 150 ft to comply with the CVerifiers acknowledge the PP has described the inclusion of these springs in the buffer within the revised GHG Plan and Appendix C of the SOP. This issue item closed. December 21, 2022 Findings (2) The PP has updated Section E1.3 (2nd paragraph) to correctly reference the Forest Reserve and Engelmann Spruce SHMZ in the revised GHG Plan. This is is now closed.	MMA scriptive d. Instraint Harvest project sed h the Instraint s spot Included CA FPR. he RMA n is The NSO Is a NSO Is	GHG Plan_Wildcat_IFM_v2.1_20 Dec 2022.pdf EFM_CarbonCruise_Protocol_NorCal_v4. 0_20Dec2022_FINAL.pdf
		Protocol) now includes the buffer widths for Unclassified Perennial and Unclaintermittent streams for Wildcat and denoted that these widths are different Shackleford and Whiskey. These issue items are now closed. All issue items have now been resolved; this issue is considered closed.	ssified	
PP Response				
Date	PP Comment		Addition	nal evidence submitted for review by PP
8-Nov-22	owner and, unfortunately, no sou		https://f	forest-practice-calfire- hub.arcgis.com/search?tags=forest%20pra Dhydrology%20ta83
	stream layer by using the publicly	Verification Body and ACR Registry personnel, PP decided to revise the project available CalFire stream layer (https://forest-practice-calfire-ags=forest%20practice%20hydrology%20ta83).	Calfire_L	buffers_Wildcat_110822.shp

The CalFire steam layer includes stream class designations. However, within the project area, the CalFire stream layer lists 7.66 miles of stream as unclassified perennial and 9.61 miles of stream as unclassified intermittent. PP consulted with Californian Registered Professional Forester, Dewey Robbins of Jefferson Resources, seeking his opinion on a conservative method to assign stream width buffers to the unclassified streams contained in the CalFire stream layer.

PP, based on the opinion and recommendation of RFP Robbins (see letter from Robbins to PP), assigned a weighted average buffer width to the unclassified perennial and intermittent streams as follows:

- Unclassified perennial use a 140-foot buffer width (each side of the stream course), which is the average using an assumption of 50% of the stream mileage as Class 1 (165') and 50% of the stream mileage as Class 2 (115'). This buffer width is greater than recommended by RFP Robbins to ensure conservatism.
- Unclassified intermittent use a 40.25-foot buffer width (each side of the stream course), which is greater than the average using an assumption of 35% of the stream mileage as Class 2 (115') and 65% of the stream mileage as Class 3 (0').

According to the California Forest Practice Rules (Article 6; § 916.4, 936.4, 956.4), the WLPZ is measured from the "Watercourse Transition Line". To account for the various channel widths associated with the stream courses within the project area that require buffers, we used a conservative buffer width for stream classes as follows:

Class 1 - PP used 165'; however, the rules require a variable buffer width based on slope and yarding technique (<30% 75'; 30-50% 100'; [>50% 150' (-50' for cable yarding)]). Note that the recorded Conservation Easement (12/31/2020) requires a 150-foot buffer on Class 1 streams, so PP has expanded the buffer width to account for various channel widths. Also, note PP is not required to include CE restrictions as a legal constraint because the Project Start Date is less than on year from the CE recording date.

Class 2 – PP used 115'; however, the rules require a variable buffer width based on slope and yarding technique (<30% 50'; 30-50% 75'; [>50% 100' (-25' for cable yarding)]). Note that the recorded Conservation Easement (12/31/2020) requires a 100-foot buffer on Class 2 streams, so PP has expanded the buffer width to account for various channel widths. Also, note PP is not required to include CE restrictions as a legal constraint because the Project Start Date is less than on year from the CE recording date.

Class 3 – PP did not use a buffer; the rules do not restrict harvesting, rather buffers are to define an equipment limitation zone (25' <30% and 50' >30%) where ground-based equipment must be excluded.

Class 4 – PP did not buffer, as the rule do not require any buffer as these are man-made features.

CALFIRE Stream Buffer Acreage

Dissolved by Stream Class

Wildcat Acres Miles

EFM_CA_Carbon_Stream_Buffer_Letter_110422.p df

CALFIRE Stream Buffer Acreage		
	986.05	61.69
Unclassified Intermittent	96.71	9.61
Unclassified Perennial	249.08	7.66
Class 3	0.00	25.1
Class 2	314.97	11.01
Class 1	325.27	8.31

All Stream Classes Merged

Wildcat 952.15

The other SHMZs identified in the Property Management Plan that are not located within Stratum 6 have been assigned as no harvest in the baseline and project scenarios.

PP has reviewed the NWI's mapped wetlands and nearly all of these are within the Stratum 6 boundary. The small portion of these NWI's mapped wetlands not located within Stratum 6 and upon inspection via aerial imagery indicate they are forested. It is the PP's understanding that the NWI mapped wetlands are not ground verified, so maps do not represent actual ground conditions.

PP has updated the project documents to address and clarify these items and incorporate a more detailed description on the process used in the defining and delineating Stratum 6 (RMA).

2-Dec-2022

Item 2 - The GHG plan (Section E1.3) now includes a table of no harvest acres by strata used in the baseline modeling, including CE restrictions. The three no harvest categories are: 1) stream/spring buffers; 2) forest reserve (NSO), and 3) Engelmann Spruce.

In addition, a description of the stratification process for Stratum 6, including a detailed description of assumptions, source documents, and sources data is now included in Appendix C of the SOPs.

Item 3 - the GHG plan (Section E1.3) now includes a description of how the PP determined the water course classes and buffer widths necessary for complying with the California Forest Practice Rules and CE requirements. This information is also included in Appendix C of the SOPs.

Item 4 - the GHG plan (Section E1.3) now includes a description of how the PP determined the water course classes and buffer widths necessary for complying with the California Forest Practice Rules and CE requirements. This information is also included in Appendix C of the SOPs.

GHG Plan Wildcat IFM v2.0 11Dec2022.pdf

EFM CarbonCruise Protocol NorCal v3.0 11Dec2 022 FINAL.pdf

Wildcat 112922.qdb

Wildcat SHMZ.shp

SRV Project Baseline Modeling No Harvest Constraints_28Nov2022_FINAL.xlsx

Item 5 – The non-forest wetland identified in the CE (17 acres) has been removed from the project area. The CE
does not require any buffers associated with wetlands.

Item 6 – PP has provided the Wildcat SHMZ GIS layer that spatially identifies the special management zones required by the CE. Also, The GHG plan (Section E1.3) now includes a table of no harvest acres by strata used in the baseline modeling, including CE restrictions. The three no harvest categories are: 1) stream/spring buffers; 2) forest reserve (NSO), and 3) Engelmann Spruce.

Item 7 – the GHG plan now clarifies that Stratum 6 contains all the stream and spring buffer areas.

Item 8 - PP reviewed all stream buffers extending into the project area for streams outside the project area and added all missing buffer segments into Stratum 6.

Item 9 – PP reviewed the CALFIRE Hydro Point data and identified multiple springs not within the stream buffer layer (Stratum 6). These springs were buffered by a 150-foot radius and added to Stratum 6. This is documented in the GHG Plan (E1.3) and in Appendix C of the SOPs. https://hub-calfire-forestry.hub.arcgis.com/

The GHG Plan was updated to reference the data sources and parameters used for the project that are detailed in Appendix D of the SOPs.

20-Dec-2022

Item 2 - Section E1.3 (2^{nd} paragraph) was revised to reference the NSO Forest Reserve and Engelmann Spruce SHMZs

Item 3 – Appendix C of the SOPs was revised to include the buffers widths for Unclassified Perennial and Unclassified intermittent for Wildcat separate from Shackleford and Whiskey.

Item 4 - Appendix C of the SOPs was revised to include the buffers widths for Unclassified Perennial and Unclassified intermittent for Wildcat separate from Shackleford and Whiskey.

GHG Plan_Wildcat_IFM_v2.1_20Dec2022.pdf

EFM_CarbonCruise_Protocol_NorCal_v4.0_20Dec2 022_FINAL.pdf

<u>Verifier Issue</u>	Issue ID:	<u>22-6</u>	Status: <u>Closed</u>	Checked by:	MD	Date Identified	20-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments	
IFM (B4)	GHG Plan Section B5	Clarification. May impact conformance; no materiality	Verifiers checked the California Depar value table used as a source for prices June 17, 2022 GHG plan document. The found in the California stumpage table	s in the Implementation The prices for species C	n Barrier analysis in the OA and OT could not be	17June2022	dcat_IFM_v1.1_

		Verifiers see the management cost inputs used in the modeling, however, see no source for those costs. Please explain how these costs were derived and source applicable.	
		November 19, 2022 Findings Verifiers reviewed the PP's explanation and confirmed the source of stumpage p for species OA and OT, from Table 1 – Miscellaneous Harvest Values in the Califor Department of Tax and Free Administration June 20, 2021. Verifiers also review the referenced Winn document for cord to MBF conversion factors. Verifiers we able to derive several cord to MBF conversion factors using values in Tables 7 and we concur with the PP in using a price of \$10/MBF for OT and \$20/MBF for OA a conservative values. This part of issue is closed. The verifier has reviewed the source given for the management costs assumption Although the source is sound, the prices (2018) are a little outdated. The verifier believe more up to date prices or an adjustment to the 2018 prices is warranted	and B. Davies. 2018. Tradeoffs in Timber, Carbon, and Cash Flow under Alternative Management Systems for Douglas-Fir in the Pacific Northwest. Forests 2018(8): 447; doi:10.3390/f9080447 Winn et al (2020). Timber products monitoring: unit of measure conversion factors for roundwood receiving facilities. E-Gen. Tech. Rep. SRS-251. Asheville, NC:
		Please review an update as appropriate. December 15, 2022 Findings Verifiers reviewed the source (U.S. Bureau of Labor Statistics Producer Price Ind (PPI) monthly series for the logging industry) and calculation of the inflation fact for the management costs from 2018 to June 2021 as described by the PP. Verif find this approach reasonable. Verifiers acknowledge the PP has also included a description on how the management costs were adjusted in the revised GHG Pla and within the associated NPV modeling documents. Verifiers are satisfied with revisions and this issue is now closed.	or PPI_Forest_Cost_Inflator_DataFinder- 20221129022310.xlsx
PP Response	8	1811818118 8118	W V Modeling Tolder
Date	PP Comment		Additional evidence submitted for review by PP
8-Nov-22	In the absence of Green Timber Values (Table 1) for the Other (Infuelwood, hardwood price for Owne assume a conservative conv \$20/mbf for OA. Reference - Winn et al. (2020) if for hardwood and 0.415 mbf pe	stumpage prices (Table G), we had to improvise and use Miscellaneous Harvest OT) and Oak (OA). We assume the fuelwood, miscellaneous price for OT and OA. No consistent conversion between mbf and cords exists for western species, so ersion factor of 1 cord per mbf and subsequently a price of \$10/mbf for OT and as the USFS TPO conversion factor compendium and while it has 0.42 mbf per cord or cord for hardwoods for all southern states and 0.52 and 0.5 mbf per cord in the sion is listed for western states.	

	Verifiable sources for costs are hard to come by so in the revised modeling we will use \$5/mbf for harvest administration, \$15/mbf for road maintenance, \$85/acre for site preparation, \$318/acre for planting (0.73/tree and 436 tpa, and \$135/acre for brush control. These values come from Table 3 of Diaz etal (2018). Reference - Diaz, D.D, S. Loreno, G.J. Ettl, and B. Davies. 2018. Tradeoffs in Timber, Carbon, and Cash Flow under Alternative Management Systems for Douglas-Fir in the Pacific Northwest. Forests 2018(8): 447; doi:10.3390/f9080447	
3-Dec-22	Management costs were based on Diaz et al. (2018) Table 3 values. These costs do not have a temporal basis so we assumed that they would be similar to the log price values of Table 2 which were noted to be from February 2018. To adjust the costs from February 2018 dollars to that of the project start date (June 2021) we use the U.S. Bureau of Labor Statistics Producer Price Index (PPI)monthly series for the logging industry titled: "PPI industry data for Logging, not seasonally adjusted". The data utilized can be found in the "PPI_Forest_Cost_Inflator_DataFinder-20221129022310.xlsx"spreadsheet. To inflate the February 2018 dollars to June 2021 we simply take the February 2018 PPI value of207.0 and divide by the June 2021 PPI value of 214.5 giving an inflator of (207.0/214.5) or 1.036231884 as found in cell F6 of the worksheet. To use the value, we multiply the original February 2018 cost values by the 1.036 inflator to provide a more upto-date cost estimate for use in the NPV calculations.	GHG Plan_Wildcat_IFM_v2.0_11Dec2022.pdf PPI_Forest_Cost_Inflator_DataFinder- 20221129022310.xlsx See files in NPV modeling folder

<u>Verifier Issue</u>	<u>Issue ID:</u>	<u>22-7</u>	Status: <u>Closed</u>	Checked by:	BS	Date Identified	20-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments	
ACR Standard (A.3.2)	GHG Plan, Section B3	Possible non conformance. May impact materiality or conformance.	are portions of four Coun Creek Road, Wildcat Cree The PP has removed the	y's Road spatial data (roads-publity roads within the project area ek Road, and South Fork Scott River Road and ase explain why these other road	(Sugar Creek Road, French ver Road). Wildcat Creek Road but no	Siskiyou Count	co.siskiyou.ca.us/gis/page/
			November 19, 2022 Find Verifiers acknowledges th Creek and French Creek)		ooundary. Verifiers concur	ır , _	dary_02Nov2022.zip

PP Response		
Date	PP Comment	Additional evidence submitted for review by PP
8-Nov-22	PP has removed the Sugar Creek and French Creek roads from the project boundary.	Project_boundary_02Nov2022.zip
		https://www.co.siskiyou.ca.us/qis/page/siskiyou
		<u>-county-open-data</u>

<u>Verifier Issue</u>	Issue ID:	<u>22-8</u>	Status: <u>Closed</u>	Checked by:	BS	Date I	Identified	27-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description				Comments	
IFM Methodology v1.3, (C3-3.1.1, D2,D3)	Carbon Cruise Protocol	New information request. May impact materiality or conformance.	inventory plots. Also, the Carbon Cruise using a systematic grid v	ial data for the entire grid that w Protocol (SOP) notes the invento with random start points and ran g and bearing of the grid and inco	ory points were e ndom orientation.	stablished . Please	shp	at_SamplePoints_Final_Strat onCruise_Protocol_NorCal_v1 021_Final
			associated grid spacing. incorporated into the fo (EFM_CarbonCruise_Prowhen the updated proto) The PP has also submitted.	e requested spatial data for the e Verifiers understand the grid sporthcoming updated carbon cruis otocol_NorCal_ v2.0_XXXX2022). ocol has been submitted. ed a Systematic Sampling GIS workground on the GIS process used	pacing specifications on protocol This issue will be orkflow document	on will be e closed t, which	21104	at_Fishnet_WGS84_JWF_202
			December 15, 2022 Find The PP has included the protocol (SOP, Appendix PP's process in developi	dings grid spacing specifications into to see grid spacing specifications into to see grid space that sing a systemic sampling grid (Sysempling specifications have been see grid specifications have been see grid specifications.	Appendix B also i tematic Sampling	ncludes the GIS	ocx EFM_Carbo	SamplingGISworkflow_2022.c onCruise_Protocol_NorCal_v3 22_FINAL.docx
PP Response								
Date	PP Comment							nitted for review by PP
8-Nov-22	PP is providing	the Verification Bo	ody the fishnet grid used to (establish the inventory plots.			_	GS84_JWF_20221104.shp col_NorCal_v2.0_XXXX202.pdj

	PP updated the SOP to include the grid spacing (456 meters) and the process to establish the bearing of the grid.	SystematicSamplingGISworkflow_2022.docx
3-Dec-22	PP updated the SOP to include the grid spacing (456 meters) and the process to establish the bearing of the grid.	EFM_CarbonCruise_Protocol_NorCal_v3.0_11Dec2022_ FINAL.pdf

Verifier Issue	Issue ID:	<u>22-9</u>	Status: <u>Closed</u>	Checked by:	BS	Dat	e Identified	27-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description				Comments	
Standard (A.3.3)	GHG Plan Section A3	New information request. May impact conformance; no materiality	the date that the project carbon project with proj Verifiers request a redac	Table 1 (Sec A3) of the GHG Plan states: "Project start date is June 7, 2021, which is the date that the project proponent entered a contractual relationship to initiate a carbon project with project developer L&C Carbon" Verifiers request a redacted copy of a portion of this contract showing the signature and dates to validated & verify the project start date.				dcat_IFM_v1.1_
			and L&C Carbon (carbon	dings edacted copy of the confidential of a consultant). Verifiers confirmed ed by EFM on June 7, 2021. This	d the project's st	, ,	_	n_Consulting Services ne2021_signed.pdf
PP Response	<u>.</u>	'-					-	
Date	PP Comment					Additio	onal evidence su	bmitted for review by PP
8-Nov-22	PP is providing the Verification Body a redacted copy of the confidential contract between EFM (PP) and L&C Carbon (carbon consultant). The contract was executed by EFM on June 7, 2021 which initiated the carbon project. EMF_LC Carbon_Consulting Services Contract_07June2021_signed.pdf							

<u>Verifier Issue</u>	Issue ID:	<u>22-10</u>	Status:	<u>Closed</u>	Checked by:	EM	Date Identified	28-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue De	scription			Comments	
ACR IFM v1.3 (C)	GHG Plan (Sec E1)	New information request. May impact materiality or conformance.	find the		to <i>EFM_Site_Index_Explanation</i> . ie provide this document along v nd used in FVS.			_Model_Files_Directory.docx

		November 18, 2022 Findings The PP has provided the requested EFM_Wildcat_Site_Index_Explanation document. The issue remains open as verifiers are reviewing the document awaiting updated and forthcoming baseline documents to complete the assemble modeling data checks.	
		<u>December 23rd Findings</u> Verifiers have reviewed the site index document and related calculations an no further questions regarding the methodology used. This issue is consider closed.	
PP Response			
Date	PP Comment		Additional evidence submitted for review by PP
8-Nov-22	PP has uploaded the <i>EFM_W</i> derived. This includes the tra	EFM_Wildcat_Site_Index Explanation.docx	
	December 3		
	PP has provided the updated	d modeling files.	See FVS and NPV folders in shared Dropbox folder

<u>Verifier Issue</u>	Issue ID:	<u>22-11</u>	Status: <u>Closed</u>	Checked by:	EM Da	ite Identified	28-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments	
ACR IFM v1.3 (C)	GHG Plan (Sec E1)	Clarification. May impact materiality or conformance.	Verifier review of the GHG Plan discrepancies in site classes refi productivity references site classes description includes a constrain Practice rules referenced refermanagement Plan indicates the clarification on this discrepancy November 18, 2022 Findings Verifiers understand the PP detain the provided EFM_Wildcat_Sincluded other supporting refermanagement Plan. This issue redocuments (GHG Plan).	erenced. In the GHG Plan sses III, IV, and V (pg 10). In the for site classes II, III, IV, to site class III, IV, and V (pe site classes II, III, IV, and V (pe site classes as 2,4, and 5 or and resolve if necessary. The remines site class from site class from site class references on site class refere	an overview of site The baseline model and V (pg 23). The CA Forest og 44). The Forest (page iii). Please provide te index which is described cument. The PP has also need in the Wildcat Forest	_	ildcat_IFM_17June2022.pdf st Management Plan
			December 23, 2022 Findings Verifiers have reviewed the upon GHG plan and are satisfied with determine site index for the pro-	the description and the r	nethodology used to		

Date	PP Comment	Additional evidence submitted for review by PP
8-Nov-22	The process used by the PP to determine site class for the project area is detailed in the <i>EFM_Wildcat_Site_Index Explanation</i> document.	EFM_Wildcat_Site_Index Explanation.docx
	Further, Wildcat Forest Management Plan states on page 19 the following: "Forest productivity (as measured by height growth of dominant trees) ranges from site class IV to V (915 acres to 5,588 acres, respectively)." Also, see Map 9 on page 26 of the Wildcat Forest Management Plan.	
	PP has reviewed and revised the project documents to ensure references to site class are consistent.	
	December 3	
	PP has updated the GHG Plan regarding site index references. Based on a process used to determine site class (see <i>EFM_Wildcat_Site_Index Explanation_03Dec2022.docx)</i> , PP determined that 14% of the project area contains site class II and III. Further, PP believes the FMP site index reference is not as accurate as completed for this IFM project.	EFM_Wildcat_Site_Index Explanation_03Dec2022.docx EFM_Wildcat_Site_Index_01Dec2022.xlsx GHG Plan_Wildcat_IFM_v2.0_02Dec2022.pdf

Verifier Issue	Issue ID:	<u>22-12</u>	Status: <u>Closed</u>	Checked by:	EM Da	ate Identified 28-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments
ACR IFM v1.3 (C)	GHG Plan (Sec E1)	Clarification. May impact materiality or conformance.	following question 1- The GHG excluded list thinn example, file. Whi output fo file and t how the level har 2- The LP8 o lower ba class IV a	the GAMS model used to model baselings: I Plan indicates that the riparian manage from any harvest activity; however, the ing treatments as possible options for it, the "IsThinX" values are set to "Yes" for the LP10 equation eventually limits at the constraint values does not appeat the harvest schedule is not broken downwodel limits harvesting in the RMA strayest schedule is stored. equation is utilized to ensure that the assal area retention is equal to the proposition of the this constraint was spatially explicit the this constraint was spatially explicit.	ement zones will be the GAMS model appears to the RMA stratum. For or the RMA strata in the .lst acreage as "NoCut" the the to be contained in the .lst in by strata. Please clarify that and where the strata- acreage assigned to the ortion of the forest in site on is stored in the outputs	GHG Plan_Wildcat_IFM_17June2022.pdf EFMCA_Wildcat_Baseline_RP1.gms EFMCA_Wildcat_Baseline_RP1.lst

	N	ovember 19, 2022 Findings	
	_	erifiers are waiting for the response to this issue and, as such, this issue remai	ins
	0		
	D	ecember 23, 2022 Findings	
	V	erifiers have reviewed the documents provided regarding the GAMS model, the	he LP
		quations and the additional harvest allocation breakdowns. Verifiers have	
		onfirmed that the thinning entries are as described in the GHG plan and the h	
	al	locations align with the constraints as expected. This issue is considered close	ed.
PP Response			
Date	PP Comment		Additional evidence submitted for review by PF
3-Dec-22	harvesting activities in the RMA strata.	harvest, the limitations were added in two ways. The first is limiting all This is done in lines 288-290 of the GAMS linear programming file. While a	EFMCA_Wildcat2_Baseline_RP1_Management_ Breakdown.txt
	versatile matrix compiler, the GAMS co	ommands can be a bit awkward. First, we eliminate any management	
	options with thinning by removing it fr (IsThinX):	om the tuple indicating that there is a valid thinning entry in a period	EFMCA_Wildcat2_Project_RP1_Management_B eakdown.txt
	Then also eliminating it from any acrea		
	Then we make sure the only option avenue." period (period 9999):		
	IsP('RMA',P		
	The no harvest set-aside acres in other		
	allocation variable (EXIST) that is set to command rather than an equation (co		
	EXIST.lo(S		
	There is a wide array of output related information is the acreage allocation woutput file that contains StandID, Man		
	indication the optimal solution values in EFMCA_Wildcat2_Project_RP1_Manage		
		acre management choices it was impossible to determine if the constraints agement breakdown files now contain this breakdown including the lower	
	basal area retention (E – uneven-aged	managements) versus the higher basal area retention (U-uneven-aged	

<u>Verifier Issue</u> <u>Issue ID:</u> <u>22-13</u> Status: <u>Closed</u> Checked by: EM Date Identified 28-Sep-22

managements).

ACR Standard ref	GHG Plan Section	Significance	Issue Description	Comments			
ACR IFM v1.3 (C)	GHG Plan (Sec E1)	Clarification. May impact materiality or conformance.	Verifiers have reviewed the stratification methodology provided and note that it indicates that the LEMMA-based vegclass codes -1, 1 and 2 have been combined to create the "LowStocking" stratum. Vegclass code -1 indicates no vegetation, 1 indicates a canopy cover of less than 10% while code 2 indicates a canopy cover between 10% and 39%. These three codes can represent very different biological capacities and the resulting forest cover or even the potential for forest cover can be significantly different. Please clarify the reasoning behind combining vegclass codes -1, 1 and 2, is there any data to indicate the proportion of each class across the project, and how variable the canopy over is within this stratum?	GHG Plan_Wildcat_IFM_17June2022.pdf			
			November 19, 2022 Findings Verifiers agree that the ACR IFM v1.3 protocol does not stipulate how stratification must be developed, that the inventory design was statistically sound and each area had equal probability of selection regardless of stocking. Verifiers are not questioning the data source or the sampling design, rather, verifiers are questioning whether all areas currently included can be considered forest land. Verifier concerns regarding the inclusion of large, open and/or non-productive areas are explained in issue 22-3. In relation to this issue and issue 22-3, please provide the LEMMA raster for the project area where vegclass class code "-1" occurs.				
			December 23, 2022 Findings Upon the review of the responses to issue 22-4, verifiers agree that the LEMMA raster indicating where vegclass code "-1" occurs is no longer needed. Verifiers concur that the ACR IFM v1.3 protocol does not stipulate how stratification must be developed and are satisfied with the manner in which non-forest areas have been delineated on the project area. This issue is considered closed.				
PP Response							
Date	PP Comment			Additional evidence submitted for review by PP			
8-Nov-22	ACR IFM v1.3 does not stipulate how stratification must be developed. LEMMA was selected as a source for the stratification because it is a well-established publicly available data set, the process is automated to reduce human bias, the accuracy is documented, and it can be repeated for verification purposes. Vegclass codes -1,1 and 2 were combined to create a "LowStocking" stratum. Although these three codes can represent different forest cover or potential for forest cover, every acre of the property had equal probability of selection for sampling, regardless of stocking. Therefore, these low stocking areas are statistically accounted for in the inventory and are reflected in the baseline and with-project scenarios. Since the inventory was post-stratified, the goodness of fit for the stratification is reflected in the uncertainty calculations: if the stratification did not align with measured plot data, then uncertainty would be inflated. Since						

the results of the post-stratified inventory were within +/-10% of the mean at 90% confidence, the inventory stratification was deemed to be sufficient.

December 3

Please see response to Issue 22-4, where the non-forest issue is addressed. LEMMA rater data should only be used for stratification purposes, as it is not suitable for making determinations of non-forestland that should be excluded from a project area as per ACR standard and methodology requirements

<u>Verifier Issue</u>	Issue ID:	<u>22-14</u>	Status: <u>Closed</u>	Checked by:	EM	Date Identified	28-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments	
ACR IFM v1.3 (C)	GHG Plan (Sec E1)	Clarification. May impact materiality or conformance.	"c. Ran sieve tool (8-conn had at least 1 acre in each of forestland." Can you clarify how the 1 pixels? If an area had less how was the strata assign	accre clumps were aggregated for than required amount of pixels ed to the 1 acre clump? How were in the assignment of strata?	raster classification meet FIA definitions rom individual s to create 1 acre, were open, non-	EFM_ScottRiver_Stratificatio 1.docx	nMethods_2022021
			explanation provided. Ver and also concur that there the inventory or the result open areas being included	ngs ne settings used in the sieve too rifiers are satisfied with the set e are no statistical concerns rela ting carbon stocks. The questic d in the low stock stands are no a result, this issue is considered	tings used in this step ated to the design of ons regarding larger w sufficiently		
PP Response							
Date	PP Comment					Additional evidence submitt	ed for review by PP
8-Nov-22	by "smoothing this to be an a management. smaller than a	g" the LEMMA raste ppropriate way to " This was accomplis provided threshold	r dataset into approximately smooth" the LEMMA data to ned by using the QGIS Sieve t size (in pixels) and replaces t	to account for small pockets of 1-acre groupings. The developm a size that is more in line with tool. The QGIS Sieve tool "Remothem with the pixel value of the pocessing algs/gdalogr/gdal ana	nent team believes the scale of forest oves raster polygons largest neighbor		

The two main variables in the tool are Threshold and Pixel Connection. Threshold sets the size of the smoothing. The development team selected 5 pixels, as 5 30m x 30m pixels are approximately 1 acre. Pixel connection dictates if pixels must be touching along a full length (4-connectedness) or if they can be touching at a corner (8-connectedness). The development team selected 8-connectedness as it was the team's opinion that 4-connectedness would not capture the fluidity of forest extents as well. When the sieve tool was run, it searched for groupings of less than 5 pixels. When it identified an area of this size, that clump (or singular pixel) was assigned the pixel value of the largest neighbor polygon, thus "smoothing" the data into more useful sizes for forestry operations.

Referencing back to the earlier point about the theory behind inventory stratification, as stated in the PP's response to Issue ID 22-4, the results of the sieve tool are incorporated into the final stratification, and thus are judged by the outcome of the statistics on the post-stratified inventory.

Areas that appear to contain no trees are included in the "LowStocking" stratum. The inventory design accounts for low-stocked areas in a statistically sound manner. The inventory was designed as a systematic grid and was post-stratified; thus, every acre of the property had equal probability of selection for sampling, regardless of stocking. Therefore, all stocking levels are statistically accounted for in the inventory and are reflected in the baseline and with-project scenarios.

<u>Verifier Issue</u>	Issue ID:	<u>22-15</u>	Status: <mark>Closed</mark>	Checked by:	MD/BS Date	te Identified	28-Sep-22
ACR Standard ref	GHG Plan Section	Significance	Issue Description			Comments	
ACR IFM v1.3 (C)	GHG Plan (Sec E1)	Clarification. May impact materiality or conformance.	locations and larger grid (issues with some sample (fishnet) points, not exis that are now sample plots these points are the grid p 119, and the grid point no project area, sample plots Verifiers also noticed the the sample plot locations Shackleford and Whiskey relatively small, varying fr project boundaries. This s both the previous and rev	rised project boundary relative to fishnet) points. The revised boundary relative to fishnet) points. The revised boundary or the need there of. Veristing sample plots within the prosess within the revised project bound point northeast of plot 81, the gorthwest of plot 140. Now that is are needed in those locations. Grid point (fishnet) locations do within the project area. They a but not on Wildcat. Although the com 8 to 30+ feet, it can create it is situation created two cases where its points are the fishnet points between the control of the control o	andary change has created fiers note three grid evious project boundary, ndary area. Specifically, rid point northwest of plot these grid points are in the not exactly coincide with re coincident on both he distance of variation is ssues when plots are near ere fishnet points fell within re never measured as	21104.shp EFM_Wildcat_ boundary Project_bound boundary	_Fishnet_WGS84_JWF_202 _Boundary.shp — old project dary_110222 — New project _SamplePoints_Final_Strat.

15 and the point southeast of plot 149. Please explain the reason for the variation between the two sets of points and why two sample plots were not measured and revise as needed and appropriate. Lastly, based on the previous property boundary, the PP designated 19 walk-through plots (WKTHRU attribute in the sample points spatial dataset). The revised project boundary changes have altered the walk-through situation on sample plots near the revised project boundary edges. Specifically, these include: • Three of those sample plots (30, 88, and 146) are within 36 ft of the previous project boundary and are now a longer distance from the revised project boundary (up to 100 ft). With the project boundary change, these plots may have walk-through trees that may or may no longer be valid and there could be new walk-though trees. Four of the sample plots (7, 100, 48 and 59) are further from the previous project lines (from 68 to 160 feet) and are either closer or further away from the revised project boundary depending on the situation. These plots may have walk-through trees that may or may not be valid and there could be new walk-though trees. The remainder of the 19 attributed walk-through plots (12 plots) are near project boundaries that are not likely to change with the revisions to the project boundary. Plot 35 was not designated in the sample plot spatial data as a walkthrough plot but now it could be because it is within 39 feet of a road rightof-way that was recently removed from the project area. Please review and revise as appropriate and needed for updating the estimate for the project stocks associated with the revised project boundary. December 15, 2022 Findings EFM Wildcat Fishnet WGS84 JWF 202 Verifiers utilized the incorrect grid point spatial data (fishnet) to assess the plot 21104.shp allocations. We concur with the PP that the fishnet points and the GIS inventory EFM Plots in Slivers Due to Boundary point layer align. Expansion 11Dec2022.docx Verifiers acknowledge the PP's proposed plan and supporting documents to address new plots and changes to existing or potential walk-through plots as a result of the EFM CarbonCruise Protocol NorCal v3. refinements in the project boundary. We concur that the sliver areas were created 0 11Dec2022 FINAL.pdf - see Appendix when the project boundary was adjusted to align more accurately with Siskiyou Ε

County's GIS tax, which resulted in three new plots being added to the inventory plot allocations and potential changes to existing plots (i.e., walk-through plots). Verifiers

note, the addition of these three plots was not due to an oversight of the inventory design and implementation (i.e., missed plot installation).

EFM_WalkthroughResponses_03Dec202 2.docx

Verifiers reviewed the proposed plan and assessed potential materiality issues based on the following findings:

EFM_Wildcat_Inventory Calcs & Stats 01Dec2022

- The change in project boundaries resulted in a slight increase in the total project area (126 acres, <2%).
- Based on the most recent aerial imagery (NAIP CA 2020), the three new
 plots added to the revised project area (slivered portions), appear to be
 forestlands with no significant forest structural differences from the
 existing project area. These plots likely contain forest carbon stocks.
- Three previously existing walk-through plots (30, 88, and 146) are now further from the revised project boundaries and are not likely to be walk-through plots. Plot 88 did not previously contain any walk-through trees (i.e., double counted trees) and was not changed. Plot 30 had one walk-through tree, which is now farther than two times the limiting distance (max DBH for the plot) from the revised project boundary; the PP has removed this double counted tree in the revised inventory calcs workbook. With the revised project boundaries, these two plots could now potentially contain higher carbon stocks (no boundary edge effects, full plot radius). Verifiers believe retaining the plot data as measured during the inventory is a conservative approach for these plots.

Plot 146 had four double counted trees; the plot center was less than two times the limiting distance (max DBH for the plot) from the revised project boundary. The original tree list for this plot remained the same, which verifiers believe is a reasonable approach.

Of the remaining 16 identified walk-through plots, only two plots (2, 108) had any double counted trees (one tree in each plot). As the project boundary in near these plot locations did not change, the double counted trees were retained within the original tree list, which is appropriate.

Based on these observations and assessments, verifiers find the PP's approach to addressing the addition of three new plots and potential changes to plots near boundaries (i.e., walk-through), as a result of revising the project boundaries, to be reasonable, appropriate and conservative.

		Going forward, verifiers also concur with the PP's plan to complete the follow the next required inventory (presumably in 5 years), which is summarized in the revised SOP (Appendix E): (1) Locate and measure the new plots within these added project areas (sliver Using the same inventory design process and grid layout as the initial inventor PP has identified that three inventory plots will be added within the sliver area plot numbers and X and Y coordinates have been documented in the inventor (2) Re-evaluate the potential walk-through plots. Based on the noted findings, verifiers assessed the risk of materiality in estimating project stocks as Low. This issue is considered closed.	rareas). ry, the as. The y SOPs.	
PP Response				
Date	PP Comment	Chart and Calcate the star as C. Lill and C. L. C. L.	Additional evidence submitted for review by PP	
11-Dec-22	Inventory Fishnet – PP reviewed the GIS inventory point layer align.	he fishnet used for locating the plots – we find that the fishnet points and the	EFM_Plots in Slivers Due to Boundary Expansion_11Dec2022.docx	
	dis inventory point layer align.		Expunsion_11Dec2022.docx	
	Grid Points Now Within New Bour	ndary Slivers – we agree that there are now a few grid points that fall within	EFM_CarbonCruise_Protocol_NorCal_v3.0_11Dec	
		expanding the project boundary to align with the County GIS tax lot layer. We	2022_FINAL.pdf – see Appendix E	
	situation as follows:	als about 126 acres or 1.6% of the project area. The PP will address this		
	situation as follows.		EFM_WalkthroughResponses_03Dec2022.docx	
	1. Move forward with valid	ation and verification of the projects based on the original inventory.		
			EFM_Wildcat_Inventory Calcs & Stats_01Dec2022	
		entory (year 5), locate and measure plots within these sliver areas. The number		
	·	be added was determined using the same methodology as the initial inventory,		
		ventory fishnet grid, in the same orientation and spacing. Using this process, y plots that fall within the sliver areas. The plots will be located and measured		
		entory. The plot numbers and X and Y coordinates have been documented in		
	the inventory SOPs.	2		
	, 55. 3.			
		er areas were created when the project boundary was adjusted to align with		
		PP detects no forest structure differences within the original inventory frame		
	·	the sliver areas added to the project boundary. Thus, the PP believes, for ed in for the winter) reasons, it is reasonable to add the few additional plots at		
		the project's fifth year. PP concludes this a low-risk approach due to the small		
		reas and no discernible forest structure difference detected through a Google		
	Earth imagery review.			

Walkthrough Plots - when the project area boundaries were changed, one of three walkthrough scenarios was possible:

- 3. A plot was previously a walkthrough plot, but was no longer a walkthrough plot,
- 4. A plot was not previously a walkthrough plot, but now could be a walkthrough plot, or
- 5. A plot's walkthrough status did not change.

The project development team actions taken for each walkthrough scenario:

- 6. No longer a walkthrough for any plot center greater than double the maximum limiting distance after project area boundary adjustments, then any trees with a doubled tree count due to walkthrough were reduced to a single tree count in the final tree dataset.
- 7. A potential walkthrough since ground data is not available, no changes to these plots were made. Future inventories will true up data for these plots.
- 8. Walkthrough plot data did not change plot data was not changed.

Appendix C: Project Team

Verification Team	Qualifications
verification ream	Qualifications Robbin Road holds a R.S. in Forest and Foological Engineering as well as a
Pablo Reed	Pablo Reed holds a B.S. in Forest and Ecological Engineering as well as a minor in Latin American Studies from the University of Washington in Seattle. He has also recently completed a Masters of Environmental Management degree at the Yale School of Forestry & Environmental Studies. Prior to his return to grad school, he spent the preceding six years of his life working with conservation and development projects in various countries in Latin America. He served as country director for a joint USAID/Idaho State University community conservation project in the Alta Verapaz region of Guatemala and also spent time in Panama working as an environmental and GIS consultant. His most recently worked for the Peace Corps in Ecuador, where he served as program manager for the posts' natural resource conservation program. While at Yale, his program of studies centered on social and political ecology as well as natural resource management policy. His research and subsequent thesis centered on the development of REDD (Reducing Emissions from Deforestation and Degradation) policy frameworks, especially as they pertain to the inclusion of communal Indigenous territories and lands (Ecuador, summer 2010). Pablo is an ARB Forestry project specialist, and an ARB Lead Verifier.
Bill Stack	Bill Stack is a forester, natural resource manager, and ecosystem restoration specialist with over 29 years experience working on forest and aquatic ecosystems in the northeast and northwest US. He holds a master's degree in Forest Engineering from Oregon State University. He is an ARB accredited lead verifier and forest project specialist. Bill has participated on the verification of forest offset projects throughout the US including Alaska. Verification responsibilities included pre-site visit prep, forest inventory, data processing and analysis, developing findings, and report writing. Bill also provides a broad range of forest management consultation services to private landowners owners in preparing and implementing ecologically-based forest stewardship plans. He holds professional forester licenses in New Hampshire and Vermont. His comprehensive approach balances water, soil, wildlife, timber, recreation, aesthetics, and other resources with landowner goals and values. Previously, Bill has worked as a Senior Project Scientist with Stantec consulting on ecosystem restoration projects and as a Forest Hydrologist on interdisciplinary project teams for the USDA Forest Service.
Alexa Kandaris	Alexa Kandaris has been with S&A since 2016 and brings experience in carbon auditing and climate change mitigation policy. She is accredited by ARB as a lead verifier under their US Forests protocol and the Ozone Depleting Substances protocol, and by the Climate Action Reserve (CAR) as a lead verifier. Alexa has participated in verifications of carbon offset

Verification Team	Qualifications
	projects and corporate inventories under a variety of GHG programs, including the Air Resources Board, Climate Action Reserve, American Carbon Registry, Verified Carbon Standard/Climate Community & Biodiversity Standard/Sustainable Development Verified Impact Standard, and Carbon Disclosure Project. In addition to validation/verification, she developed tracking systems for a program registered under the Clean Development Mechanism and registered with the Gold Standard. Alexa is currently responsible for implementation of S&A's corporate management system to ensure ongoing improvement and compliance with ISO requirements. Alexa has field experience with Forestry (AFOLU), Ozone Depleting Substances, and Livestock project types. She holds a Bachelor of Arts in Economics with a focus on natural resource and environmental Economics.
Elizabeth McGarrigle	Elizabeth McGarrigle holds three forestry degrees (BScF, MScF, PhD). Her work has focused on forest inventory, growth and yield, and forest management planning. Her research focused on examining the impact of uncertainties in the inputs to long term forest management plans when optimization models are employed during the Master's program. While completing her PhD, she was part of the team developing a regional growth and yield model for the Acadian forest in the Northeastern United States and Canada. She developed a stand level model that is used to predict survivor growth, ingrowth, and mortality in the region. As part of her dissertation, she focused on several variants of the Forest Vegetation Simulator and several regional growth and yield models from across Canada and the United States. Dr. McGarrigle is currently working with the provincial government in Nova Scotia Canada as a Forest Inventory Data Analyst where she is responsible for the design and analyses of permanent sample plots. In addition to her work as a biometrician on several ARB forest projects, she has also been involved in research at Natural Resources Canada using a fine scale forestry model to assess the impact of climate change on species composition in forest types across Canada.
Marty Duffany	Martin Duffany holds a BS in Forestry from SUNY College of Environmental Science and Forestry. He brings over 35 years of experience in forest management working for forest industry and Timberland Investment Organizations (TIMOs) primarily in the northeastern and Appalachian regions of the US and eastern Canada. This experience focuses mainly on managing all aspects of forest inventory and mapping projects but includes extensive work in forest management planning, modeling and analysis. He has years of experience working in compliance with FSC and SFI certification standards and protocols. Martin joined S&A Carbon in February 2019 as a contractor providing support on desk and field verification projects.

Verification Team	Qualifications			
	He is an SAF Certified Forester and holds forester licenses in Maine, New			
	Hampshire and Vermont.			
Thomas Blair	Thomas Blair holds a BS from Humboldt State University, graduating in 1993. He worked with Western Timber Services from 1994 – 1999, which preceded his foundation of Blair Forestry Consulting in 2000. Blair Forestry Consulting is primarily focused on timber cruising and timber harvest plan layout. Thomas has been involved in many carbon projects both as a California RPF (#2607) as well as has worked on carbon projects outside of the state of California.			
Alex Powell	Alex Powell has a BS degree from Humboldt State University, 2006, majoring in Wildlife Management. He has been employed in the forestry business since 2008, and has worked with Blair Forestry Consulting since 2014. He has experience with inventory data collection. He is experienced with all equipment necessary for cruising (releskop, impulse laser for heights and distances, spencer tape, biltmore stick, etc.) as well as species identification, and keeps field notes and data organized. He has collected data on field sheets and handheld devices, and has organized and interpreted data in the office. Additional experience is described below. Timber Harvest Plan preparation, filing and implementation (field work and written document, Pre-harvest Inspections, LTO interactions); Interpretation and implementation of the Forest Practice Rules; Watercourse classification; Identification of fish bearing streams; Identification and protection of habitat for rare species and species of concern; Road and crossing assessment and improvement recommendations and sediment reduction strategies; Preparation of Lake or Streambed Alteration agreements and 1600s; Identification and assessment of cumulative impacts; Botanical surveys; Overstory and understory species identification; Data management and organization; Work in rugged terrain and inclement weather, individually or in small crews, navigation of remote forest roads and use of ATV; Use of GIS and GPS for both in office assessment and in field data collection and navigation; Extensive use of computers (Microsoft Excel, Word, Access) and internet research.			
Kim Mattson	Dr. Kim Mattson is the sole proprietor of Ecosystem Northwest, a natural resources consulting firm located in Mt. Shasta, California. Ecosystems Northwest was started in 1993 and has employed or subcontracted between 2-12 people performing field surveys of streams, forests, and biology. Dr. Mattson also specializes in scientific services such as watershed analyses, basic and applied research, and forest carbon offset verification services. Clients include federal government, watershed councils, private forest firms, and Indian tribes. Dr. Mattson is certified as a carbon offset verifier for the ARB and CAR forest protocols and the CAR soils protocol. He has been lead verifier for 6 forest offset projects in various parts of the US. Prior to his			

Verification Team	Qualifications		
	consulting profession, Dr. Mattson has worked with the EPA Research		
	Lab in Corvallis, OR, had research positions at Oregon State University,		
	University of Idaho, and West Virginia University. Dr. Mattson has an		
	active publication record in forest carbon storage, and responses to		
	disturbances.		

Appendix D: Version Tracking

Version	Date	Developed By	Version Notes
1.0	5/17/2022	Alexa Kandaris	Initial Document
1.1	2/10/2023	Bill Stack	Draft Final
1.1	2/13/2023	Pablo Reed	Lead Validator review comments
1.2	2/13/2023	Bill Stack	Updated document based on Lead Validator comments
1.3	2/15/2023	Bill Stack	Updated Final document based on Technical Review comments
1.4	2/15/2023	Kyle Silon/Alexa Kandaris	Technical Review
1.5	5/15/2023	Bill Stack	Updated final document based on ACR Review comments
2.0	5/16/2023	Alexa Kandaris	Technical Review
2.1	5/19/2023	Bill Stack	Updated final document based on ACR Review comment

S&A Carbon Lead Verifier Name and Signature:	Bill Stack
S&A Carbon Lead Validator Name and Signature:	Pablo Reed
S&A Carbon Technical Reviewer Name and Signature:	Alexa Kandaris A fandan
Date:	5/19/2023