

APPLICATION FOR LISTING AN IMPROVED FOREST MANAGEMENT U.S. FOREST OFFSET PROJECT				
<i>OPR Staff Use Only</i>	Date Application Received:	OPR Tracking Number:	Date Application Reviewed:	<i>OPR Staff Use Only</i>
PART I. ENTITY APPLYING FOR LISTING				
Is this form being submitted by the Offset Project Operator (OPO) or by the Authorized Project Designee (APD)?				<input checked="" type="checkbox"/> OPO <input type="checkbox"/> APD
Notes: 1. The person completing this form should be an OPO/APD employee. 2. If the APD is submitting this form, the OPO should submit the form <i>Designation of Authorized Project Designee</i> simultaneously.				
Name of Person Completing Form: Kaarsten Turner Dalby		Organization, if applicable: Heartwood Forestland Fund IV, Limited Partnership		
Date Form Completed: 6/22/2015		Phone Number: 919-929-2497	Email Address: kaarsten@forestlandgroup.com	
PART II. OFFSET PROJECT INFORMATION				
Offset Project Name: Finite Carbon – The Forestland Group Highlands IFM				
Offset Project Commencement Date: 06/24/2015		First Reporting Period Start Date: 06/24/2015	First Reporting Period End Date: 06/23/2017	
Provide an explanation and justification for the commencement date. Specify the action(s) that identify the offset project commencement date. The discrete, verifiable action that denotes the project commencement date is the submittal of listing information to the Offset Project Registry.				
PART III. OPO/APD INFORMATION				
A. OPO				
OPO Name: Heartwood Forestland Fund IV, Limited Partnership			OPO's CITSS ID#: CA 1 4 3 3	
Mailing Address: P.O. Box 9162		City: Chapel Hill	State: NC	Zip: 27515
Contact Person: Kaarsten Turner Dalby		Phone Number: 919-929-2497	Email Address: kaarsten@forestlandgroup.com	
B. APD (if applicable) <input type="checkbox"/> No APD/Not Applicable				
APD Name:			APD's CITSS ID#:	
Mailing Address:		City:	State:	Zip:
Contact Person:		Phone Number:	Email Address:	
PART IV. LAND OWNERSHIP				
A. Is the Offset Project Operator (OPO) the owner in fee for the Project Area? <i>Further documentation is required for all projects. Submit as attachment labeled "Attachment A." See Part X of this listing document for more information.</i> If "no," explain how the entity identified as the OPO has the right to undertake and list the project.				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<p>B. List all Forest Owners. This includes owners in fee as well as third parties with existing property interests within the Project Area that affect the trees and standing timber located in the Project Area (e.g. mineral rights, timber rights, easements, rights of way, leases, etc.). Heartwood Forestland Fund IV, Limited Partnership owns the surface and timber rights of the Project Area. Natural Resource Partners and Range Resources are the gas sub-surface owners.</p>		
<p>C. Does the offset project occur on public or private lands? <i>If the project occurs on public lands, proceed to questions C1 and C2. Otherwise, skip to question D. Further documentation is required if project occurs on public lands. Submit as attachment labeled "Attachment B." See Part X of this listing document for more information.</i></p>		<input checked="checked" type="checkbox"/> Private <input type="checkbox"/> Public
<p>1. Describe the public process that has been used to approve forest management activities and baseline.</p>		
<p>2. Describe the documentation being submitted with this listing document demonstrating approval of planned forest management activities and baseline.</p>		
<p>D. Will the project employ a Qualified Conservation Easement (QCE)? <i>If employing a QCE, proceed to questions D1, D2, and D3. Otherwise, skip to question E. Supporting documentation for a QCE is required. Submit as attachment labeled "Attachment C." See Part X of this listing document for more information.</i></p>		<input type="checkbox"/> QCE <input type="checkbox"/> Public Ownership
<p>1. Date that the QCE was or will be recorded.</p>		
<p>2. Will the project take place in a state that requires third-party beneficiaries to sign the easement (i.e., to "accept and record that acceptance"), such as Arizona, Pennsylvania, or West Virginia?</p>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>3. Provide the terms within the easement that affect forest management.</p>		
<p>E. Does the offset project occur on any of the following categories of land? (check all that apply) <input type="checkbox"/> Land that is owned by, or subject to, an ownership of possessory interest of a Tribe <input type="checkbox"/> Land that is "Indian lands" of a Tribe as defined by 25 U.S.C. §81(a)(1) <input type="checkbox"/> Land that is owned by any person, entity, or Tribe, within the external borders of such Indian lands <input checked="checked" type="checkbox"/> None of the above <i>If "none of the above," skip to Part V. Otherwise, proceed to questions E1 and E2. Further documentation is required for projects occurring on land listed in the first three categories. Submit supporting documents as attachments labeled "Attachment D." See Part X of this listing document for more information.</i></p>		
<p>1. Does a limited waiver of sovereign immunity between ARB and the governing body of the Tribe exist?</p>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>2. Describe how the land within the Project Area is owned.</p>		
<p>PART V. OFFSET PROJECT AREA</p>		
<p><i>Maps depicting specific elements of the Project Area are required for all projects. Submit supporting documentation as attachments labeled "Attachment E." See Part X of this listing document for more information.</i></p>		
<p>Latitude of Offset Project Location: 37.092383</p>	<p>Longitude of Offset Project Location: -82.321575</p>	<p>Project Area Total Acreage: 103,848.9</p>
<p>A. Identify the assessment area (or assessment areas, if project crosses more than one) that contain Project Area lands and list the acreage of project lands within each assessment area. Allegheny & North Cumberland Mountains Cove Forests (26,361.4 acres); Allegheny & North Cumberland Mountains Mixed Hardwoods (16,034.1 acres); Allegheny & North Cumberland Mountains Oak-Hickory (28,588.6 acres); Allegheny & North Cumberland Mountains Northern Hardwoods (32,864.8 acres).</p>		
<p>B. Identify the governing jurisdiction(s) applicable to the Project Area. Wise, Dickenson, Russell, and Buchanan Counties, VA; The State of Virginia; and the U.S. Federal Government</p>		
<p>C. Describe how the Project Area was determined. The project area was determined by identifying fee simple forestlands under management within the Allegheny & North Cumberland Mountains Supersection. Non-forestland areas have been excluded</p>		
<p>D. Describe the existing land cover, and land use of the Project Area. The existing land cover is dominated by mixed species mesic hardwood forests. The forest primarily consists of yellow poplar, maple, beech, birch, eastern hemlock, oaks and hickories. The</p>		

existing land uses are timber production, outdoor recreation, and natural gas wells (not fracking).

E. Describe the forest vegetation types within the Project Area boundary.

The forest vegetation is comprised mostly of the northern hardwoods, oak-hickory and cover forest types. Associative species include yellow poplar, maple, beech, birch, northern red oak, chestnut oak, hickory, black cherry, ash, and Eastern hemlock. To a lesser extent, the project area has some mixed hardwood types.

F. Describe the site classes within the Project Area boundary.

The project area is classified as all "low site classes" in all assessment areas based on NRCS soils site productivity data.

G. Describe the land pressures and climate zone/classification applicable to the Project Area.

The primary land use for the region is forestry with very limited residential and traditional agricultural development. Coal mining activity has declined in the Appalachians. Review of air photos and satellite images reveal a forest dominated landscape with very minor agricultural uses in some areas. The project lies entirely in the 6a and 6b climate zone as shown on USDA Plant Hardiness Zone Maps.

H. Describe the historical land uses, current zoning, and projected land use within the Project Area and surrounding areas.

Historically, the project area and the surrounding lands have been used for commercial forestry, hunting/recreation, coal mining and natural gas extraction, and small-scale farming. The project area is currently zoned as timberland. Future land use of the project area and surrounding areas will likely consist of the same historical land uses with an increase in biomass fuel feedstock and continued decline in coal mining.

I. Describe generally the forest conditions within the Project Area, including species composition, age class distribution, and management history.

In general, the forest is in a healthy condition. A majority of the forest management could be considered "restoration forestry" as a result of "high-grading" by former ownerships. Deliberate management by the current forest owner has focused on long-term sustainable timber production and natural resource conservation values. The species composition is primarily hardwoods. To a lesser extent Eastern hemlock and some pine also exist. No more than 40% of the project area is in age classes younger than 20 years old: 0-20 years (< 5%); 20+ years (>95%).

PART VI. OFFSET PROJECT ELIGIBILITY

A. Does the project take place on land that has greater than 10 percent tree canopy cover?

Supporting documentation is required. Submit as attachment labeled "Attachment F." See Part X of this listing document for more information.

☒ Yes
☐ No

B. Indicate how the offset project meets (or will meet) the definition of Natural Forest Management per Table 3.2 in the Compliance Offset Protocol US Forest Offset Projects, November 14, 2014:

1. Native species:

- a) Will the project consist of at least 95% native species based on the estimated sum of carbon in the standing live carbon pool?

If "no," proceed to question 1b. Otherwise, skip to question B2.

☒ Yes
☐ No

- b) Describe how the project will meet this requirement. (Improved Forest Management Projects will be assessed using estimates of basal area per acre.)

2. Composition of native species:

- a) Does the Project Area naturally consist of a mixed species distribution where no single species' prevalence, measured as the percent of basal area of all live trees in the Project Area, exceeds the percentage value of standing live carbon shown under the heading 'Species Diversity Index' in the Assessment Area Data File?

If "no," proceed to questions 2b and 2c. Otherwise skip to question B3.

☒ Yes
☐ No

- b) Explain how the project will demonstrate a trend toward achieving the Species Diversity Index of native species and meet this requirement within 25 years.

c) If the Project Area does not naturally consist of a mixed species distribution: Will or have you provided a written statement from the government agency in charge of forestry regulation in the state where the project is located stipulating that the Project site is not capable of meeting the requirement of mixed species distribution.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Distribution of age classes/sustainable management: a) Indicate how the project will meet the requirement for sustainable management if commercial harvesting is either planned or ongoing within the Project Area demonstrating sustainable long term harvesting practices. This applies to all forest landholdings of the Forest Owner(s) (check one of the boxes). <input type="checkbox"/> Not applicable; no commercial harvesting is occurring within the Project Area. <input checked="" type="checkbox"/> Third party certification under the Forest Stewardship Council, Sustainable Forestry Initiative, or Tree Farm System, whose certification standards require adherence to and verification of harvest levels which can be permanently sustained over time. <input type="checkbox"/> Adherence to a renewable long-term management plan that demonstrates harvest levels which can be permanently sustained over time and that is sanctioned and monitored by a state or federal agency. <input type="checkbox"/> Employ uneven-aged silvicultural practices and maintain canopy retention averaging at least 40% across the forest, as measured on any 20 acres within the entire forestland owned by the Forest Owner, including land within and outside of the Project Area (areas impacted by Significant Disturbance may be excluded from this test).	
b) On a watershed scale up to 10,000 acres (or the Project Area, whichever is smaller), projects must maintain, or make progress toward maintaining, a maximum of 40% of the project's forest lands in ages that are less than 20 years old. (Areas impacted by Significant Disturbance are exempt from this test until 20 years after reforestation of such areas.) Does the acreage within this project meet this requirement? <i>If "no," proceed to question 3c. Otherwise, skip to question B4.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
c) Explain how the project intends to show continuous progress toward meeting this requirement within the next 25 years.	
4. Structural elements (standing and lying dead wood): How will the project ensure that structural elements are retained in sufficient quantities throughout the project life? Project activities do not include the active harvest or removal of standing or lying dead wood. Consideration of maintaining/increasing structural elements are incorporated into management planning under FSC certification.	
C. Describe the management activities that will lead to increased carbon stocks in the Project Area, compared to the baseline. Management activities that will lead to increased carbon stocks in the project area compared to the baseline include but are not limited to longer rotations and maintaining stocks at high levels (i.e. shorter rotations and maintaining lower carbon stocking levels in the baseline).	
D. Is this project being implemented and conducted as the result of any law, statute, regulation, court order, or other legally binding mandate? If "yes," explain:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
E. Will the offset project employ broadcast fertilization?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F. Does the offset project take place on land that was part of a previously listed and verified Forest Offset Project? <i>If "yes," proceed to questions E1 and E2. Otherwise, skip to Part VII.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1. Was the previous Forest Offset Project terminated due to an Unintentional Reversal?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. Is the project transitioning to the Compliance Offset Protocol U.S. Forest Projects, November 14, 2014, after previously being listed as an early action offset project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PART VII. CARBON STOCK INVENTORY	
A. Provide a general description of the inventory methodology to be used to quantify carbon stocks for each required carbon pool in the forest project's offset boundary. The inventory methodology must describe the information required in Appendix A.3 of the Compliance Offset Protocol U.S. Forest Projects, November 14, 2014. In general, the purpose of the forest carbon inventory will be to directly estimate the onsite carbon stocks in the IFM1 and IFM3 pools and indirectly estimate the remaining carbon pools required by	

the FOP and listed below. A more fully detailed inventory methodology will be submitted with the initial OPDR. The forest will be stratified based on forest type and allocate a certain number of plots to each stratum using a random grid created in GIS. Each plot will be located with GPS and permanently monumented to facilitate future re-measurement and site visit verifications. The inventory will use a combination of 10 BAF point sampling (for trees ≥ 5 " dbh) and 1/100th fixed area plots (for trees ≥ 1 " dbh and < 5 " dbh). The inventory will be audited during the collection process and corrective actions implemented to maintain data quality. Cruisers will also identify and note any signs of diseases that may affect the health of the project's inventory. Below is the list of tree data to be collected at each plot.

IFM-1 Standing Live:

At each plot, "in" trees will be tallied along with species, dbh, trunk or bole height, and soundness deduction. These sample plots will provide inventory estimates in terms of cubic foot volume and biomass following the procedures and guidance listed on ARB's website and within the protocol.

IFM-3 Standing Dead:

At each plot, "in" trees will be tallied along with species, dbh, trunk or bole height $\geq 15'$, soundness deduction and decomposition class. These sample plots will provide inventory estimates in terms of cubic foot volume and biomass following the procedures and guidance listed on ARB's website and within the protocol.

IFM-6 Soil (if applicable):

Excluded because the conditions in Table 5.2 that would require inclusion of this pool (deep ripping, furrowing, or plowing where soil disturbance exceeds 25% of the Project Area, or mechanical site preparation that is not conducted on contours) are not planned.

IFM-7 Carbon in in-use forest products:

Mill receipts for harvested wood products are kept and reported by the offset project operator. Carbon is calculated using conversion factors supplied in documents published or referenced on the ARB's FOPR website.

IFM-8 Forest product carbon in landfills (if applicable):

Mill receipts for harvested wood products are kept and reported by the offset project operator. Carbon is calculated using conversion factors supplied in documents published or referenced on the ARB FOPR website.

IFM- 9 Biological emissions from site preparation:

Site preparation is not expected to occur on more than 25% of the project area over the project life, nor is mechanical site preparation expected to be conducted on contours.

IFM-14 Biological emissions/removals from change in harvesting on forestland outside project area:

Estimated in the project using the protocol default (i.e. 20%)

IFM-17 Biological emissions from decomposition of forest products:

Quantified as a component of calculating carbon stored for 100 years in wood products (SSR#IFM-7) and landfills (SSR #IFM-8)

B. Describe the calculation methodologies to be used to determine metric tons per acre for each of the carbon pools included in the Offset Project Data Report.

IFM-1 Standing Live:

Standardized FIA cubic foot volume equations and Component Ratio Method. Carbon will be estimated as 50% of the dry biomass. Carbon will be converted to CO₂e using 3.664.

IFM-3 Standing Dead:

The Domke et al. (2011) method as referenced on ARB's FOPR website will be incorporated into standardized FIA cubic foot volume equations and Component Ratio Method. Carbon will be estimated as 50% of the dry biomass. Carbon will be converted to CO₂e using 3.664.

IFM-6 Soil (if applicable):

n/a (see section A above)

IFM-7 Carbon in in-use forest products:

Regional mill efficiencies and 100-year default storage factors

IFM-8 Forest product carbon in landfills (if applicable):

Regional mill efficiencies and 100-year default storage factors

IFM- 9 Biological emissions from site preparation:

n/a (see section A above)

IFM-14 Biological emissions/removals from change in harvesting on forestland outside project area:

Estimated in the project using the protocol default (i.e. 20%)

IFM-17 Biological emissions from decomposition of forest products:

Quantified as a component of calculating carbon stored for 100 years in wood products (SSR#IFM-7) and landfills (SSR #IFM-8)

C. Provide a summary of the inventory of carbon stocks for each carbon pool (or approach used, if inventory is not applicable).

IFM-1 Standing Live:

113.69

IFM-3 Standing Dead:

2.82

IFM-6 Soil (if applicable):

n/a (see section A above)

IFM-7 Carbon in in-use forest products:

0.05 tCO₂e/acre

IFM-8 Forest product carbon in landfills (if applicable):

0.15 tCO₂e/acre

IFM- 9 Biological emissions from site preparation:

n/a

IFM-14 Biological emissions/removals from change in harvesting on forestland outside project area:

0.00 tCO₂e/acre

IFM-17 Biological emissions from decomposition of forest products:

0.01 tCO₂e

D. Provide a summary of the estimated inventory confidence statistics.

The preliminary estimate of the total onsite carbon stocks final sampling error is 4% based on a 90% confidence interval.

E. Provide the calculation of the offset project's reversal risk rating and expected contribution to the Forest Buffer Account.

The preliminary estimate of the project's reversal risk rating and expected contribution to the Forest Buffer Account is 19.24%.

Risk Category	No QCE and/or not public land	QCE and/or Public	Score	(1-%)
Financial	5.00%	1.00%	5.00%	95.00%
Management				
Illegal Forest Biomass Removal	0.00%	0.00%	0.00%	100.00%
Risk of conversion	2.00%	0.00%	2.00%	98.00%
Risk of Over-harvesting	2.00%	0.00%	2.00%	98.00%
Social	2.00%	2.00%	2.00%	98.00%
Natural Disturbance				
1 Wildfire (Y%)	4.00%	4.00%	4.00%	96.00%
Disease Insect	3.00%	3.00%	3.00%	97.00%
Other catastrophic	3.00%	3.00%	3.00%	97.00%
				80.76%
				19.24%

PART VIII. OFFSET PROJECT BASELINE

A. Required for ALL Improved Forest Management Projects

1. Describe the project's modeling plan, following the requirements and methods in Appendix B, Section B.3 of the Compliance Offset Protocol U.S. Forest Projects, November 14, 2014.
The modeling plan will use the FVS (Forest Vegetation Simulator) Southern Variant growth and yield model and may be calibrated using the regional and site specific options available. The silviculture will use a mixture of even-aged and uneven-aged silviculture systems. The treatments will likely retain trees of similar species composition as were at the time of harvest. The harvest frequency will be a function of the minimum feasible harvest volume among other factors. Regeneration assumptions will rely on variant and species specific sprouting reproduction for hardwoods and natural seeding and/or planting for conifers. Legal constraints are described in Part VIII.B(6) of this listing form. Single-tree and/or group selection harvesting will be used where it is required to ensure canopy retention in sensitive areas. A list of the anticipated site indices are described by species in the FVS Southern Variant overview. A detailed modeling plan will be available to verifiers and submitted with the initial OPDR after the baseline modeling has been completed.
2. Describe and estimate the project's baseline onsite carbon stocks. Explain any annual changes in baseline carbon stocks over time.
The preliminary estimate of the average baseline total onsite carbon stocks is 92.19 tCO₂e per acre. The baseline carbon stocks model is currently being developed but is estimated to approximate common practice. Baseline carbon stocks are estimated to fluctuate up and down around common practice stocking throughout the baseline model based on regular and sometimes intense harvest frequencies.
A graph portraying the baseline onsite carbon stocks, labeled "Attachment G," and a diagram of the baseline incorporating all required carbon stocks, labeled "Attachment H," are required. See Part X of this listing document for more information.
3. Identify the approved growth model that will be used for the project.
FVS-Southern Variant
4. Harvest Planning
 - a. Is harvesting planned in the Project Area?
If "yes," proceed to question 4b. Otherwise, skip to question A5.

<input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No
 - b. Will the project use a harvest schedule model?
If "yes," proceed to question 4c. Otherwise, skip to question A5.

<input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No
 - c. How do you plan to address age class and stratification as part of your harvest scheduling?
Harvest scheduling will be constrained such that no more than 40% of the project area is in age classes less than 20 years old. Harvest unit age class and stratum will be updated post-harvest based on silvicultural prescriptions (even-age vs. uneven-age).
5. Provide an estimate of carbon that will be stored long-term in harvested wood products in the baseline.
The preliminary estimate of average carbon that will be stored long-term in harvested wood products in the baseline (including landfills) is 0.08 tCO₂e per acre.

B. Required for Improved Forest Management Projects on Private Lands ONLY

1. Provide the estimated initial above ground standing live carbon stock per acre for the project, if known.
The preliminary estimate for the initial above ground standing live carbon stock per acre is 97.89 tCO₂e.
2. Provide the estimated adjusted above ground standing live carb stock per acre, if known.
The preliminary estimate for the adjusted above ground standing live carbon stock per acre is 84.17 tCO₂e.

3. Provide the Common Practice statistic associated with the Project Area. The preliminary estimate for the Common Practice Statistic associated with the Project Area is 84.17 tCO ₂ e per acre.	
4. Are the Project Area's initial above-ground standing live carbon stocks per acre above or below Common Practice? If below Common Practice, what is the High Stocking Reference for the Project Area? <i>Further documentation is required if project below Common Practice. Submit supporting documents as attachments labeled "Attachment I." See Part X of this listing document for more information.</i>	<input checked="" type="checkbox"/> Above <input type="checkbox"/> Below
5. Does the Forest Owner(s) and its affiliate(s) own land in fee or hold timber rights on land outside the Project Area? <i>If "no," skip to question B.6.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If "yes" does the Protocol require the use of a weighted average carbon stock on lands in the same Logical Management Unit (LMU, as defined in Section 6.2.1.1)? <i>If "no," skip to question B.6.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "yes," is inventory data available for the LMU or will the OPO use a stratified vegetation analysis?	<input type="checkbox"/> Data available for LMU <input type="checkbox"/> Stratified Vegetation Analysis
6. Provide a general description of the legal constraints affecting forest management activities in the Project Area; include a description of each constraint (referring to Section 6.2.1.2 in the Protocol) as well as a narrative those constraints have on forest management. <div style="margin-top: 10px;"> Clean Water Act Through a variety of programs (including, as appropriate, non-regulatory or regulatory programs), states assist and encourage producers to use best management practices to reduce or prevent instances of nonpoint source pollutants migrating into waters. Accordingly, the State of Virginia has developed a set of voluntary Forestry Best Management Practices as part of a cooperative non-point source pollution prevention project. BMPs are monitored by the Virginia Department of Forestry to aid in the protection of water quality during forest management practices. Specifically, when harvesting in Streamside Management Zones, no more than 50% of the basal area or up to 50% of the forest canopy can be harvested. </div> <div style="margin-top: 10px;"> Endangered Species Act The Endangered Species Act (ESA) provides a program for the protection and conservation of threatened and endangered plants and animals and the habitats or ecosystems in which they are found. The lead federal agencies for implementing ESA are the U.S. Fish and Wildlife Service (USFWS) and the U.S. National Oceanic and Atmospheric Administration (NOAA) Fisheries Service. Projects or activities on private lands that have the potential to "take" a listed species must apply for an Incidental Take Permit (ITP). Any party that is issued an ITP must have also prepared a Habitat Conservation Plan (HCP) which mitigates such takings and conserves the species' habitat, both of which support overall recovery of the species. No threatened or endangered species are known to currently exist in the project area. The forest owner receives regular updates of the Virginia Natural Heritage database and reviews it during the planning process for every timber harvest activity to identify potential conflicts with species and habitat. If necessary, sale boundaries and/or other harvesting parameters are modified in order to remain in compliance with RT&E species. </div>	
7. Provide a description of the modeling techniques used to simulate the effects of the constraint. Techniques to simulate the effects of the BMP constraint include spatial designation of stream management zones and applications of silvicultural treatments designed appropriately for each area as a function of each area's constraints.	
8. How does the OPO demonstrate financial feasibility of the growth and harvesting regime assumed for the baseline? (check one of the boxes) <input checked="" type="checkbox"/> Conducting a financial analysis of the anticipated growth and harvesting regime that captures all relevant costs and returns, taking into consideration all legal, physical, and biological constraints, using regional norms or documented costs and returns for the project area or other properties in the Forest Project's Assessment Area <input type="checkbox"/> Providing evidence that activities similar to the proposed baseline growth and harvesting regime have taken place on other properties within the Forest Project's Assessment Area within the past 15 years <i>Supporting documentation is required. Submit as attachment labeled "Attachment J." See Part X of this listing document for more information.</i>	
C. Required for Improved Forest Management Projects on Public Lands ONLY	
1. Has an initial forest carbon inventory been conducted for the Project Area?	<input type="checkbox"/> Yes <input type="checkbox"/> No

2. Provide a projection of future changes to Project Area forest carbon stocks extrapolating from historical trends.	
3. Explain how current public policy will affect onsite carbon stocks and how the baseline modeling incorporates constraints imposed by all applicable statutes, regulations, policies, plans, and activity-based funding.	
4. Have carbon stocks in the Project Area been increasing or declining over the preceding ten-year period?	<input type="checkbox"/> Increasing <input type="checkbox"/> Declining

PART IX. ADDITIONAL QUESTIONS

A. Have any lands within the Project Area ever been listed or registered with an offset project registry or program in the past? <i>If "yes," identify the registry or program and provide details on the issued credits below.</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Have greenhouse gas emission reductions or removal enhancements associated with lands within the Project Area been credited or claimed for the purpose of greenhouse gas mitigation or reduction goals, whether in a voluntary or regulatory context? <i>If "yes," identify the registry or program and provide details on the issued credits below.</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Registry/Program:	Reporting Period(s):	Vintage(s): Number of Credits Issued:

PART X. ATTACHMENTS

A. If the answer to Part IV.A is "yes," provide documentation (e.g., deed of trust, title report, etc.) showing the OPO's ownership interest in the property and its interest in the trees and standing timber on the property. If the answer to Part IV.A is "no," provide documentation supporting the explanation of the OPO's right to undertake and list the project.

B. If the answer to Part IV.C is "public," provide documentation demonstrating explicit approval of the offset project's management activities and baseline including any public vetting processes necessary to evaluate management and policy decisions concerning the offset project. ☒ N/A

C. If a Qualified Conservation Easement (QCE) has been recorded, provide a copy. The listing information contained in this form and the documents attached to it will eventually be submitted to ARB so submitting a copy of the QCE as an attachment to this listing document fulfills the requirement in 9.1.1.1(18)(a) of the Compliance Offset Protocol U.S. Forest Projects, November 14, 2014 to provide ARB with a copy. ☒ N/A

D. If the project is located on one of the categories of Tribal land listed in Part IV.E, provide documentation demonstrating that the land within the Project Area is owned by a tribe or private entity. Also provide documentation that demonstrates the existence of a limited waiver of sovereign immunity between ARB and the governing body of the Tribe entered into pursuant to section 95975(I) of the Cap-and-Trade Regulation. ☒ N/A

E. Attach map(s) of the Project Area including:

- Public and private roads
- Towns
- Major watercourses (4th order or greater), water bodies, and watersheds
- Topography
- Townships, ranges, and sections or latitude and longitude
- Existing land cover and land use (optional)
- Forest vegetation types (optional)
- Site classes (optional)
- Land pressures and climate zone/classification (optional)
- Historical land uses, current zoning, and projected land use within the Project Area (optional)
- A georeferenced shape file (or other electronic file that can be read in a geographic information system) that clearly identifies the Project Area and boundaries. *Note that the georeferenced shape file may constitute the required map if it includes the required map information listed above.*

F. Provide supporting documentation demonstrating that the offset project takes places on land that has greater than 10 percent tree canopy cover.





G. Attach a graph portraying the baseline onsite carbon stocks with time depicted on the x-axis and metric tons CO₂e depicted on the y-axis.

H. Attach a diagram of the baseline incorporating all required carbon stocks.

I. For projects on private lands ONLY: If the Project Area's initial above-ground standing live carbon stocks are below Common Practice, submit an affidavit testifying that the inventory depicted over the past 10 years (used to determine the High Stocking Reference for the Project Area) is reasonably accurate and a summary of volume harvested over the past 10 years. ☒ N/A

- J. For projects on private lands ONLY: Provide a description and supporting evidence, if applicable, that the growth and harvesting regime assumed for the baseline is financially feasible based on the qualifications in Section 6.2.1.3 of the Protocol. ☐ N/A

PART XI. ATTESTATIONS AND OPO SIGNATURE

 Initial	I certify under penalty of perjury under the laws of the State of California the GHG reductions and/or GHG removal enhancements for			
	Project Name: Finite Carbon – The Forestland Group Highlands IFM	from	Crediting Period Start Date: 6/24/2015	Crediting Period End Date: 6/23/2040
	will be measured in accordance with the Compliance Offset Protocol U.S. Forest Projects, November 14, 2014, and all information required to be submitted to ARB is true, accurate, and complete.			
 Initial	I understand I am voluntarily participating in the California Greenhouse Gas Cap-and-Trade Program under title 17, article 5, and by doing so, I am now subject to all regulatory requirements and enforcement mechanisms of this program and subject myself to the jurisdiction of California as the exclusive venue to resolve any and all disputes arising from the enforcement of provisions in this article.			
 Initial	I understand that the offset project activity and implementation of the offset project must be in accordance with all applicable local, regional, and national environmental and health and safety laws and regulations that apply to the offset project location. I understand that offset projects are not eligible to receive ARB or registry offset credits for GHG reductions and GHG removal enhancements that are not in compliance with the requirements of the cap-and-trade program.			
In signing this form, I certify under penalty of perjury of the laws of California that the information contained in this form is true, accurate, and complete. I further certify that I am an Account Representative of the Offset Project Operator (OPO).				
SIGNATURE: 		PRINTED NAME: Kaarsten Turner Dalby		
TITLE: Vice President, Ecological Services		DATE: 6/24/2015		