

UPPER FEATHER RIVER IRWM

PROJECT INFORMATION FORM

Please submit by 5:00 p.m. on August 3, 2015, to UFR.contact@gmail.com

Please provide information in the tables below:

I. PROJECT PROPONENT INFORMATION

Agency / Organization	Plumas National Forest
Name of Primary Contact	Ryan Tompkins
Name of Secondary Contact	Ryan Bauer
Mailing Address	159 Lawrence Street, Quincy, CA 95971
E-mail	rtompkins@fs.fed.us; rbauer@fs.fed.us
Phone	530-283-7841, 530-283-7832
Other Cooperating Agencies /	Potential Opportunity to work with local Contractors or tribal
Organizations / Stakeholders	governments/organizations
Is your agency/organization	Yes
committed to the project through	
completion? If not, please explain	

II. GENERAL PROJECT INFORMATION

Project Title	UF-6: Round Valley/Keddie Handthin		
Project Category	☐ Agricultural Land Stewardship		
	☐ Floodplains/Meadows/Waterbodies		
	☐ Municipal Services		
	☐ Tribal Advisory Committee		
	☑ Uplands/Forest		
Project Description			
(Briefly describe the project, in 300 words or less)	The project includes 375 acres of handthinning, piling and burning to reduce hazardous ladder and surface fuels in and around the Round Valley Reservoir and the Wildland urban interface east of the reservoir proximate to the community of Greenville. The areas proposed for treatment include NFS lands within the Greenville Municipal Water District (near Round Valley Reservoir) and within the lower Wolf Creek watershed which is a Plumas NF priority watershed classified as "Functioning at Risk" watershed.		
	High densities of small and intermediate-sized trees and heavy fuel loads within forested stands contribute to hazardous accumulations of surface, ladder, and canopy fuels within the project area. These conditions are highly susceptible to crown		

	fire initiation and spread under fire weather conditions, and increase the potential for high-severity stand-replacing fire events. This potential fire behavior leads to increased risk to communities and forest and riparian ecosystems within and adjacent to the Round Valley reservoir watershed, the municipal water supply for the community of Greenville.
Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	The work would be performed in and around Round Valley Reservoir and the wild land urban interface proximate to the Greenville community. Please see the attached map. As shown, this project would complement currently ongoing work through timber sales and
	already completed work in the project area through past service contracts. Cumulatively, these projects provide connectivity of fuel breaks around Round Valley Reservoir, the municipal watershed for the community of Greenville, and the wildland urban interface surrounding the community of Greenville. In addition these fuel breaks are adjacent to protected activity centers (PACs) for sensitive species including the Calif. Spotted Owl and the Northern Goshawk.
Latitude:	Various - Please see the attached map
Longitude:	Various -Please see the attached map

III. APPLICABLE IRWM PLAN OBJECTIVES ADDRESSED

For each of the objectives addressed by the project, provide a one to two sentence description of how the project contributes to attaining the objective and how the project outcomes will be quantified. If the project does not address *any* of the IRWM plan objectives, provide a one to two sentence description of how the project relates to a challenge or opportunity of the Region.

	Will the		Quantification
	project		(e.g. acres of
	address		streams/wetlands
Upper Feather River IRWM	the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
Restore natural hydrologic	⊠ Yes	The proposed handthinning	An estimated 375
functions.		treatment will substantially	acres of forest
	□ N/A	reduce the density of small	upland enhanced
		shade tolerant trees which will	
		restore forest density and	
		structure. This is important to	
		restoring natural hydrologic	
		function for three primary	
		reasons. By reducing the	
		density of trees the treatment	
		would: 1) reduce transpiration	

		T	valley/ Redule Hallutili
	Will the		Quantification
	project		(e.g. acres of
	address		streams/wetlands
Upper Feather River IRWM	the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
		from the site and make water	
		more available to more	
		dominant fire tolerant trees. 2)	
		Reduce water interception and	
		evaporation. Thinned stands	
		may be more effective in	
		increasing water yield (Woods	
		et al 2006; Sun et al. 2015), 3)	
		Reduce the potential for high	
		severity stand replacing fire	
Reduce potential for	⊠ Yes	These fuel treatments will be	An estimated 375
catastrophic wildland fires in		focused on reducing surface	acres of forest
the Region.	□ N/A	fuels and ladder fuel	upland enhanced
		accumulations that can	
		contribute to high severity fire	
		(Agee and Skinner 2005). The	
		fuels treatments proposed have	
		demonstrated effectiveness of	
		reducing the risk of high	
		severity, stand-replacing fire.	
		Lands around and adjacent to	
		Round Valley Reservoir were	
		strategically place to mitigate	
		the threat of high severity	
		wildfire and associated	
		negative effects on water	
		_	
Build communication and	⊠ Yes	quality.	
	<u> </u>	As shown in the attached map,	
collaboration among water resources stakeholders in the		this project would complement	
	□ N/A	currently ongoing work through	
Region.		timber sales and already	
		completed work in the project	
		area through past service	
		contracts. This project has had	
		multiple stakeholder	
		involvement through its	
		inception and could serve a	
		good example of how the	
		accretion of smaller projects	
		and efforts can create a large	
		positive cumulative effect on a	
		watershed scale.	
Work with DWR to develop	☐ Yes		
strategies and actions for the			

	1		valley/ Redule Hallutill
	Will the		Quantification
	project		(e.g. acres of
	address		streams/wetlands
Upper Feather River IRWM	the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
management, operation, and	⊠ N/A	-	
control of SWP facilities in the	_ ,		
Upper Feather River			
Watershed in order to increase			
water supply, recreational, and			
environmental benefits to the			
Region.			
Encourage municipal service	□ Yes		
providers to participate in	163		
regional water management	NI/A		
actions that improve water	⊠ N/A		
supply and water quality.			
	☐ Yes		
Continue to actively engage in FERC relicensing of	⊔ res		
hydroelectric facilities in the	N N / A		
•	⊠ N/A		
Region.			
Address economic challenges	☐ Yes		
of municipal service providers			
to serve customers.	⊠ N/A		
Destruction and a description		T he second sec	
Protect, restore, and enhance	⊠ Yes	Through project planning,	
the quality of surface and		Round Valley Reservoir was	
groundwater resources for all	□ N/A	identified as a resource of	
beneficial uses, consistent with		concern due to its municipal	
the RWQC Basin Plan.		water supply status. This	
		project aims to improve the	
		forest conditions within the	
		municipal watershed and	
		immediately surrounding the	
		reservoir. The fuel treatments	
		were designed to reduce	
		hazardous fuels accumulations	
		and the potential for	
		catastrophic fire and associated	
		negative effects within the	
		municipal watershed.	
Address water resources and	⊠ Yes	This project is focused on	
wastewater needs of DACs and		improving the conditions within	
Native Americans.	□ N/A	the Greenville municipal	
		watershed and adjacent WUI.	
		These areas fall within those	
		designated as disadvantaged	
		communities by the DWR.	
Coordinate management of	☐ Yes		

	Will the		Quantification
	project		(e.g. acres of
	address		streams/wetlands
Upper Feather River IRWM	the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
recharge areas and protect			
groundwater resources.	⊠ N/A		
Improve coordination of land	⊠ Yes	The fuel reduction priorities of	
use and water resources	△ res	this project are driven by the	
		nexus of watershed risk and	
planning.	□ N/A	forest conditions. This project	
		is focused on protecting and	
		improving water quality and	
		water supply reliability by	
		improving the health of forest	
		conditions within the municipal	
		·	
		watershed and adjacent lands within the lower Wolf Creek	
		watershed (a USFS priority	
		watershed designated through	
		the Watershed Condition	
Nantai and a land		Assessment process).	
Maximize agricultural,	☐ Yes		
environmental and municipal			
water use efficiency.	⊠ N/A		
Effectively address climate	⊠ Yes	The project planning recognizes	
change adaptation and/or		that under changing climate	
mitigation in water resources	□ N/A	precipitation form/patterns,	
management.		vegetation communities will	
		change in concert with more	
		active fire. This project is	
		designed to mitigate negative	
		effects of future fire on	
		watershed health and water	
		resources.	
Improve efficiency and	⊠ Yes	This project is designed to	
reliability of water supply and		mitigate negative effects of	
other water-related	□ N/A	future fire on watershed health,	
infrastructure.		water supply and quality, water	
Enhance public awareness and	□ Voc	resources.	
Enhance public awareness and understanding of water	☐ Yes		
G	N 1/4		
management issues and needs.	⊠ N/A		
Address economic challenges	☐ Yes		
of agricultural producers.			
	⊠ N/A		
Work with counties/	⊠ Yes	These units have gone through	
communities/groups to make		the federal NEPA process under	
sure staff capacity exists for		the Keddie Ridge Hazardous	

	Will the		Quantification
	project		(e.g. acres of
	address		streams/wetlands
Upper Feather River IRWM	the	Brief explanation of project	restored or
Objectives:	objective?	linkage to selected Objective	enhanced)
actual administration and	□ N/A	Fuels Reduction Project Final	
implementation of grant		Environmental Impact	
funding.		Statement (FEIS) and Record of	
		Decision (ROD) signed	
		December 7, 2011. Since this is	
		a Forest Service Project and	
		followed the federal NEPA	
		process, the project record may	
		have to be reviewed for CEQA	
		compliance. The units have	
		been flagged and mapped and	
		all ready to be solicited for	
		service contract. The service	
		contract to hand thin and pile	
		hazardous fuels would ideally	
		be solicited and awarded in the	
		Spring of 2016. Handpiles	
		would be burned by Forest	
		Service crews between the	
		Fall/Winter 2016/2017/2018	
		pile burn seasons, as conditions	
		permit.	

		pile burn seasons, as conditions permit.	
If no objectives are addressed, de Region:	escribe how th	ne project relates to a challenge or	opportunity for the

IV. PROJECT IMPACTS AND BENEFITS

Please provide a summary of the expected project benefits and impacts in the table below or check N/A if not applicable; **do no leave a blank cell.** Note that DWR encourages multi-benefit projects.

If a	If applicable, describe benefits or impacts of the project with respect to:			
a.	Native American Tribal Communities	□ N/A	Heritage resources within the project area will be protected according to Heritage input from the project. Local tribal governments and organizations were scoped during the development of the project.	
b.	Disadvantaged Communities ¹	⊠ N/A	This project is focused on improving the conditions within the Greenville municipal watershed and adjacent WUI. These areas fall within those designated as disadvantaged communities by the DWR.	
C.	Environmental Justice ²	⊠ N/A		
d.	Drought Preparedness	□ N/A	Thinning overly dense forest stands improve residual tree and forest stand resistance to future drought and increases of insects and disease.	
e.	Assist the region in adapting to effects of climate change ³	□ N/A	Thinning overly dense forest stands improve residual tree and forest stand resistance to future drought, insects and disease, and fire – all of which are disturbances which are predicted to become more frequent under a changing climate (Westerling and Bryant 2008; Merriam et al 2013, McDowell and Allen 2015)	
f.	Generation or reduction of greenhouse gas emissions (e.g. green technology)	⊠ N/A		
g.	Other expected impacts or benefits that			
	are not already mentioned elsewhere	⊠ N/A		

¹ A Disadvantaged Community is defined as a community with an annual median household (MHI) income that is less than 80 percent of the Statewide annual MHI. DWR's DAC mapping is available on the UFR website (http://featherriver.org/maps/).

² Environmental Justice is defined as the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation and enforcement of environmental laws, regulations and policies. An example of environmental justice benefit would be to improve conditions (e.g. water supply, flooding, sanitation) in an area of racial minorities.

³ Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.

DWR encourages multiple benefit projects which address one or more of the following elements (PRC §75026(a). Indicate which elements are addressed by your project.

a.	Water supply reliability, water	⊠ Yes	g.	Drinking water treatment and	☐ Yes
	conservation, water use efficiency	□ N/A		distribution	⊠ N/A
b.	Stormwater capture, storage, clean-	☐ Yes	h.	Watershed protection and	⊠ Yes
	up, treatment, management	⊠ N/A		management	□ N/A
c.	Removal of invasive non-native	⊠ Yes	i.	Contaminant and salt removal	☐ Yes
	species, creation/enhancement of	□ N/A		through reclamation/desalting,	⊠ N/A
	wetlands,			other treatment technologies	
	acquisition/protection/restoration			and conveyance of recycled	
	of open space and watershed lands			water for distribution to users	
d.	Non-point source pollution	☐ Yes	j.	Planning and implementation of	☐ Yes
	reduction, management and	⊠ N/A		multipurpose flood	⊠ N/A
	monitoring			management programs	
e.	Groundwater recharge and	☐ Yes	k.	Ecosystem and fisheries	⊠ Yes
	management projects	⊠ N/A		restoration and protection	□ N/A
f.	Water banking, exchange,	⊠ Yes			
	reclamation, and improvement of	□ N/A			
	water quality				

V. RESOURCE MANAGEMENT STRATEGIES

For each resource management strategy (RMS) employed by the project, provide a one to two sentence description in the table below of how the project incorporates the strategy. A description of the RMS can be found in Volume 2 of the 2013 California Water Plan (http://featherriver.org/2013-california-water-plan-update/).

	Will the Project incorporate	Description of how RMS to be employed,
Resource Management Strategy	RMS?	if applicable
Reduce Water Demand		
Agricultural Water Use Efficiency	☐ Yes ⊠ No	
Urban water use efficiency	☐ Yes ⊠ No	
Improve Flood Management		
Flood management	☐ Yes ⊠ No	
Improve Operational Efficiency and T	ransfers	
Conveyance – regional/local	☐ Yes ⊠ No	
System reoperation	☐ Yes ⊠ No	
Water transfers	☐ Yes ⊠ No	
Increase Water Supply		
Conjunctive management	☐ Yes ⊠ No	
Precipitation Enhancement	☐ Yes ⊠ No	
Municipal recycled water	☐ Yes ⊠ No	
Surface storage – regional/local	☐ Yes ⊠ No	
Improve Water Quality		
Drinking water treatment and	☐ Yes ⊠ No	Treatments are designed to protect water

Resource Management Strategy	Will the Project incorporate RMS?	Description of how RMS to be employed, if applicable
distribution		quality in watershed surrounding municipal water supply.
Groundwater remediation/aquifer remediation	☐ Yes ⊠ No	
Matching water quality to water use	☐ Yes ⊠ No	
Pollution prevention	⊠ Yes ⊠ No	Project level mitigations would be used to prevent erosion/sediment delivery to streams and waterbodies. In addition, project purpose, need, and design includes reducing risk of negative watershed, water quality, and water quantity effects of catastrophic wildfire.
Salt and salinity management	☐ Yes ⊠ No	
Urban storm water runoff management	☐ Yes ⊠ No	
Practice Resource Stewardship		
Agricultural land stewardship	☐ Yes ⊠ No	
Ecosystem restoration	⊠ Yes □ No	Project is designed to improve the resiliency and sustainability of forested landscapes by restoring forest structure and ecosystem function.
Forest management	⊠ Yes □ No	Project is designed to reduce stand density and improve forest resistance to drought, and drought related mortality. This includes treating upland and riparian forests to reduce the risk of high severity fire and selective thinning of overly dense smaller trees to reduce evapotranspiration and interception and improve streamflow regimen.
Land use planning and management	☐ Yes ⊠ No	
Recharge area protection	⊠ Yes □ No	Project is designed to reduce hazardous fuel profiles, reduce risk of high severity stand replacing fire, and improve forest conditions within the priority watershed of lower Wolf Creek.
Sediment management	⊠ Yes □ No	Project is designed to reduce hazardous fuel profiles, reduce risk of high severity stand replacing fire, and improve forest conditions within the priority watershed of lower Wolf Creek. BMP's would be implemented as part of the project design features to mitigate potential for erosion and sediment delivery.

	Will the Project incorporate	Description of how RMS to be employed,
Resource Management Strategy	RMS?	if applicable
Watershed management	⊠ Yes □ No	Project is designed to reduce hazardous fuel profiles, reduce risk of high severity stand replacing fire, and improve forest conditions within the priority watershed of lower Wolf Creek
People and Water		
Economic incentives	☐ Yes ⊠ No	
Outreach and engagement	☐ Yes ⊠ No	
Water and culture	☐ Yes ⊠ No	
Water-dependent recreation	□ Yes □ No	Round Valley Reservoir is used for water-based recreation. Project is designed to reduce risk of catastrophic wildfire within the watershed, while meeting visual quality objectives for recreation area surrounding Round Valley Reservoir.
Wastewater/NPDES	☐ Yes ⊠ No	
Other RMS addressed and explanation	on:	

VI. PROJECT COST AND FINANCING

Please provide any estimates of project cost, sources of funding, and operation and maintenance costs, as well as the source of the project cost in the table below.

		PROJECT BUDGI	ET			
		¬				
	Project serves a need of a DAC?: Yes No					
Fur	Funding Match Waiver request?: Yes No					
			Cost Share:			
			Non-State	Cost Share:		
		Requested	Fund Source*	Other State		
	Catagami	Grant	(Funding	Fund	Total Cost	
	Category Direct Project Administration	Amount	Match) \$10,000	Source*	Cost	
a.		-	\$10,000	-	\$10,000	
b.	Land Purchase/Easement	-	-	-	-	
c.	Planning/Design/Engineering	-	-	-	-	
	/ Environmental					
d.	Construction/Implementation	\$169,000	\$151,000		\$320,000	
e.	Environmental Compliance/	\$20,000			\$20,000	
	Mitigation/Enhancement					
f.	Construction Administration	-	-	-	-	
g.	Other Costs	-	-	-	-	
h.	Construction/Implementation Contingency	-	-	-	-	
i.	Grand Total (Sum rows (a) through	\$189,000	\$161,000	-	\$350,000	
	(h) for each column)					
j.	Can the Project be phased? ☐ Yes	□ No If yes , p	rovide cost breakd	lown by phases		
		Project Cost	O&M Cost	Descriptio	n of Phase	
	Phase 1					
	Phase 2					
	Phase 3					
_	Phase 4					
k.	k. Explain how operation and maintenance costs will be		Maintenance costs would be very low and			
	financed for the 20-year planning peri	od for project	project may be maintained by prescribed fire or			
I.	implementation (not grant funded).	managed natural fire.				
				aiysis)		
m.	m. Describe what impact there may be if the project is not funded (300 words or less)					
	t all sources of funding.					
	Note: See Project Development Manual, Exhibit B, for assistance in completing this table					
(<u>ht</u>	(http://featherriver.org/documents/).					

VIII. PROJECT STATUS AND SCHEDULE

Please provide a status of the project, level of completion as well as a description of the activities planned for each project stage. If unknown, enter **TBD**.

Project Stage	Check the Current Project Stage	Comp	oleted?	Description of Activities in Each Project Stage	Planned/ Actual Start Date (mm/yr)	Planned/ Actual Completion Date (mm/yr)
a. Assessment and Evaluation		N 🖂	es No N/A	Assessments and Evaluations already covered under NEPA Analysis	(,,,	Completed 12/2011
b. Final Design		□ 1	Yes No N/A	Design already covered under NEPA Analysis		Completed 12/2011
c. Environmental Documentation (CEQA / NEPA)		× I	Yes No N/A	NEPA Analysis and Record of decision approved 12/07/2011. NEPA analysis would need to be reviewed for CEQA compliance	CEQA compliance could start as early as Fall 2015	NEPA Completed 12/2011 CEQA compliance Incomplete
d. Permitting	×	_ r	Yes No N/A	Project has already been submitted (June 2014) on batch consultation with USFWS. Need air quality permitting for burn pile burning	Dependent on burn season	USFWS consultation complete
e. Construction Contracting	×	_ r	Yes No N/A	Contract packaging is near completion. Units are laid out, flagged and GPS'ed. Specs are written	Contract can be ready for solicitation with 2-week notification	
f. Construction Implementation		□ 1	Yes No N/A	Handthinning contract could be awarded in Spring 2016. Handpiles could be burned in the fall/winter of 2016, 2017, or 2018 burn pile seasons, as conditions permit		
Provide explanation stage is checked as c		-	oject	Project is ready to be im CEQA compliance review	-	require some

IX. PROJECT TECHNICAL FEASIBILITY

Please provide any related documents (date, title, author, and page numbers) that describe and confirm the technical feasibility of the project. See www.featherriver.org/catalog/index.php for documents gathered on the UFR Region.

a.	List the adopted planning documents the proposed	1988 Plumas National Forest LRMP
	project is consistent with or supported by (e.g. General	2004 Sierra Nevada Framework Plan
	Plans, UWMPs, GWMPs, Water Master Plan, Habitat	Amendment ROD
	Conservation Plans, TMDLs, Basin Plans, etc.).	Plumas County CWPP
b.	List technical reports and studies supporting the	·
D.	feasibility of this project.	 Merriam et al. 2013 Plumas, Lassen, Modoc National Forests Climate Change Vulnerability Assessment Woods et al 2006 Snow accumulation in thinned lodgepole pine stands Sun et al 2015 Modelling the potential role of forest thinning in maintaining water supplies under a changing climate across the conterminous United States McDowell and Allen 2015. Darcy's law predicts widespread forest mortality under climate warming Westerling and Bryant 2008 Climate change and wildfire in California Agee and Skinner 2005. Basic Principles of forest fuel reduction treatments.
c.	Concisely describe the scientific basis (e.g. how much	Fuel treatment effectiveness in
C.	research has been conducted) of the proposed project in 300 words or less.	reducing negative effects of high severity fire has been well documented over the past two decades through a large body of fire science literature and case studies, many of which were derived from projects implemented on the Plumas National Forest.
d.	Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.).	☐ Yes ☒ No ☐ N/A If yes, please describe.

e.	Are you an Urban Water Supplier ¹ ?	☐ Yes ☒ No ☐ N/A				
f.	Are you are an Agricultural Water Supplier ² ?	☐ Yes ☒ No ☐ N/A				
g.	Is the project related to groundwater?	⊠ Yes □ No □ N/A				
		If yes, please indicate which				
		groundwater basin.				
¹ Ur	¹ Urban Water Supplier is defined as a supplier, either publicly or privately owned, providing water for					
mui	municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than					
3,00	00 acre-feet of water annually.					
² Ag	² Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing					
	water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water.					

Upper Feather River IRWMP Project Assessment - GHG Emissions Analysis

ı	IF-6·	Round	Valley/K	eddie Ha	ndthin
L	JI TU.	Noulla	vallev/ixi	Euule Ha	HULHIII

GHG Emissions Analysis

Droi	ioct	Constru	ıction	Fmis	cions
	IECL.	CONSTIL	いしいひけ	EIIIIS	2110112

X The project requires non-road or off-road engines, equipment, or vehicles to complete. If yes:

	Maximum		
	Number Per	Total 8-Hour Days in	
Type of Equipment	Day	Operation	Total MTCO₂e
Rubber Tired Loaders	2	26	30
	2	36	29
Excavators	1	36	16
Excavators	1	36	16
Other Construction			
Equipment	1	36	3
			0
			0
			0
			0
			0
			0
		Total Emissions	63

The project requires biomass materials to be transported outside of the UFR watershed. If yes:

	Average Trip	
Total Number of	Distance	
Round Trips	(Miles)	Total MTCO₂e
30	105	5

The project requires workers from outside of the UFR watershed. If yes:

OT	f Workers	of Workdays	(Miles)	Total MTCO₂e	0
	J		Distance Traveled		
			Average Round Trip		

The project is expected to generate GHG emissions for other reasons. If yes, explain:

NOTE: The difference between 3436 MTCO2e (USFS GHG calculation in alternate method doc) and -2636 MTCO2e is partially methodological. The primary difference in the GHG emissions is the open burning of thinned materials instead of processing thinned materials in a biomass electrical generating facility. The difference of 800MTCO2e is the project GHG emission without biomass and using a more forest-specific GHG accounting methodology.

The project does not have a construction phase and/or is not expected to generate GHG emissions during the
construction phase.

Upper Feather River IRWMP Project Assessment - GHG Emissions Analysis

UF-6: Round Valley/Keddie Handthin

Project Ope	rating Emissions		
The project	requires energy to operate. If yes:		
	Annual Energy Needed	Unit	Total MTCO₂e
		kWh (Electricity)	0
		Therm (Natural Gas)	0
The project	will generate electricity. If yes:	-	1
	Annual kWh Generated	Total MTCO₂e	
		0	
*	A negative value indicates GHG re	ductions	
X The project	will proactively manage forests to	reduce wildfire risk. If	yes:
	Acres Protected from Wildfire	Total MTCO₂e	
	375	-2,363	
*	A negative value indicates GHG re-	ductions	
The project	will affect wetland acreage. If yes:		Ī
	Acres of Protected Wetlands	Total MTCO₂e	
		0	
*	A negative value indicates GHG re	ductions	
The project	will include new trees. If yes:		
	Acres of Trees Planted	Total MTCO₂e	
		0	
*	A negative value indicates GHG re	ductions	•
GHG Emission	ons Summary		
Construction and development will generate approximately:			68 MTCO ₂ 6

In a given year, operation of the project will result in:

-2,363 MTCO₂e