U. S. DEPARTMENT OF ENERGY, OFFICE OF SCIENCE INTEGRATED SUPPORT CENTER—CHICAGO OFFICE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) ENVIRONMENTAL EVALUATION NOTIFICATION FORM

To be completed by "Applicant," i.e., organization with responsibilities for a "Federal action" involving application to DOE for a permit, license, exemption or allocation, or other similar actions. For assistance with this Form, refer to "Instructions for Preparing ISC-CH F-560, Environmental Evaluation Notification Form."

Solicitation/	Award No. (if applicable): DE-SC0023310		
Organizatio	n Name: Clemson University		
Proposed A	Improving models of stand and watershed carbon and water fluxes with more according representations of soil-plant-water dynamics in southern pine ecosystems	curate	
Total DOE F	Funding/Total Funding: \$360,335.00		
I. <u>Projec</u>	ct Description: (Use explanation pages if additional space is required)		
- - V	Proposed Project/Action (if applicable, delineate Federally funded/Non-Federally funded portions This project involves outdoor field work and computer modeling to study the way trees regulate to water budget. Outdoor work involves adding probes to measure water use in trees, adding sens measure soil moisture, and sensors to measure land to air fluxes of water vapor and carbon diox	their ov	vn
_	Would the project proceed without Federal funding? If "yes," use explanation page.	Yes	No ✓

II. <u>Description of Affected Environment</u>: (Use explanation pages if additional space is required)

Work will take place on private land, a property called Hobcaw Barony, owned by the Belle W. Baruch Foundation, who has a memorandum of understanding with Clemson University (lead PI organization) to conduct research on the property. Work is minimally invasive to the environment, and includes digging small holes in the ground and installing sensors in the forest. Much of the infrastructure is already in place prior to this project. None of the modifications are permanent.

			DOE NEPA Tracking i	vumber						
III.	Pre	liminar	y Questions:							
				Yes	No					
	Α.	Is the	DOE-funded work routinely administrative or entirely advisory or a "paper study?"		✓					
		If "Yes", ensure that the description in Section I reflects this and go directly to Section V.								
	В.	Is there any potential whatsoever for: (Provide an explanation for each "Yes" response)								
		1.	Work to be performed outdoors?	V						
		2.	Major modification of a building interior?		▽					
		3.	Threat of violation of applicable statutory, regulatory, or permit requirements for		\checkmark					
			environment, safety, and health?	_	_					
		4.	Siting, construction or major expansion of waste treatment, storage, or disposal facilities?	Ш	\checkmark					
		5.	Disturbance to hazardous substances, pollutants, or contaminants preexisting in the		\checkmark					
		٥.	environment?	ш	ت					
		6.	The presence of any environmentally-sensitive resources?		\checkmark					
		7.	Any potential whatsoever for high consequence impacts to human health or the		V					
			environment?	_	_					
		8.	The work being connected to another existing/proposed activity that could		\checkmark					
		0	potentially create a significant impact?							
		9.	Nearby past, present, and/or reasonably foreseeable future actions such that collective significant impacts could result?	⁄eiy∟ı	\checkmark					
		10. Scientific or public controversy, uncertainty over potential impacts, or conflicts reg								
			resource usage?	 —	✓					
		// /V	o" to ALL Section III.B. questions, go directly to Section V.							
IV.	Pot	ential E	Environmental Effects: (Provide an explanation for each "Yes" response)							
	A.		onmentally Sensitive Resources: Could the proposed action potentially result in change	s and/or						
		distui	rbances to any of the following resources?	Voo	Na					
		1.	Threatened/Endangered Species and/or Critical Habitats	Yes □	No [7]					
		1. 2.	Other Protected Species (e.g., Burros, Migratory Birds, Pollinators)	H	\ \ \ \					
		3.	Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests)	Ħ	爿					
		4.	Cultural or Historic Resources	Ħ	=					
		5.	Important Farmland		☑					
		6.	Non-Attainment Areas for Ambient Air Quality Standards		$\overline{\checkmark}$					
		7.	Class I Air Quality Control Region		\checkmark					
		8.	Special Sources of Groundwater (e.g. Sole Source Aquifer)		✓					
		9.	Navigable Air Space		✓					
		10.	Coastal Zones	님	M					
		11. 12.	Areas with Special National Designation (e.g. National Forests, Parks, Trails)	님						
		12.	Floodplains and/or Wetlands	Ш	V					
	B.	B. Regulated Substances/Activities: Would the proposed action involve any of the following regulated Item								
		activi								
		13.	Natural Resource Damage Assessments		$\overline{\checkmark}$					
		14.	Invasive Species or Exotic Organisms	Ц	\ \ \ \					
		15.	Noxious Weeds	닏	Ň					
		16.	Clearing or Excavation greater than one acre or Removal of Trees Governed by	Ш	lacksquare					
		17.	Local Requirement Dredge or Fill (under Clean Water Act, Section 404, greater than one acre)		V					
			=							

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	B.	Regulated Substances/Activities: Would the proposed action involve any of the following regulated Items or activities? (continued)				ms or			
		activiti	es: (continuea)			Yes	No		
		18.	Noise (in excess of regulations)			П	Ĭ Z		
		19.	Asbestos Removal			Ħ	Ħ		
		20.	Polychlorinated biphenyls (PCBs)			Ħ	Ħ		
		21.	Import, Manufacture, or Processing of Toxic Substances			Ħ	Ħ		
		22	Chemical Storage/Use			Ħ	Ħ		
		23.	Pesticide Use			Ħ	Ħ		
		24	Hazardous, Toxic, or Criteria Pollutant Air Emissions			Ħ	闩		
		25.	Liquid Effluents			Ħ	闩		
		26.	Spill Prevention/Surface Water Protection			Ħ	Ħ		
		27.	Underground Injection			Ħ	Ħ		
		28	Hazardous Waste			Ħ	闩		
		29	Underground Storage Tanks			Ħ	Ħ		
		30	Radioactive or Radioactive Mixed Waste			Ħ	Ħ		
		31	Radiation Exposure			Ħ	Ħ		
		32	Nanoscale Materials			Ħ	Ħ		
		33	Genetically Engineered Microorganisms/Plants or Synthetic	. Biology		Ħ	H		
		34	Ozone Depleting Substances	Biology		Ħ	Ħ		
		35	Greenhouse Gas Generation/Sustainability			Ħ			
		36	Off-Road Vehicles			Ħ	Ħ		
		37.	Biosafety Level 3-4 Laboratory			Ħ	Ħ		
		38	Research on Human Subjects or other Vertebrate Animals			Ħ	Ħ		
		39.	Facility footprint exceeds 5,000 Square Feet			Ħ	Ä		
		Ja. I admity hootprint exceeds 3,000 aquale Feet							
	C.	<u>Other</u>	Relevant Information: Would the proposed action involve the	e followin	<u>g?</u>				
						Yes	<u>No</u>		
		40.	Disproportionate Nearby Presence of Minority and/or Low	Income P	opulations	Ш	$\overline{\checkmark}$		
		41.	Existing, Modified, or New Federal/State Permits			Ш	⊻		
		42.	Involvement of Another Federal Agency (e.g. license/perm	it, funding	g, approval)	Ш	<u></u>		
		43.	Action in a State with NEPA-type law			Ш	Ш		
		44.	Expansion of Public Utilities/Services			Ш	⊻		
		45.	Depletion of a Non-Renewable Resources			Ш	⊻		
		46.	Subject to an Existing Institutional Work Planning and Con				⊻		
		47.	Other Pertinent Information Which Could Impact Human H	ealth or tl	he Environment	Ш	\checkmark		
V.	App	olicant c	ertification that to the best of their knowledge all information i	orovided (on this form is acc	<u>urate</u> :			
						Yes	No		
	Doe	es this d	isclosure contain: classified, sensitive business, or other exe	empt infoi	rmation		\checkmark		
	that	t DOE w	ould not be obligated to disclose pursuant to the Freedom of	Informat	ion Act.				
			ization Official (Name and Title). Carrie Burri						
	A.	Organ							
		Signa	Digitally signed by Carrie Burri Date: 2022.09.06 12:49:32 -04'00'	Data	09/06/22				
		Signa	Lure.	Date:	004.050.00	. –			
		e-mail	cburri@clemson.edu	Phone:	864-656-32	17			
	В.	Option	nal Secondary Approval (Name and Title):						
		Signa	ture:	Date:					
		e-mail	:	Phone:					

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Remainder to be completed by DOE

VI. DOE Concurrence/Recommendation/Determination: A. DOE Project Director/Program Manager or Contract/Grant Management Specialist: Yes No Has the Applicant completed this Form correctly? \checkmark Does an existing generic categorical exclusion apply? If yes, indicate: Name and Title: Daniella Duverne, Contracting Specialist DANIELLA DUVERNE Digitally signed by DANIELLA DUVERNE Date: 2022.09.14 16:10:45 -05'00' 09/06/2022 Signature: В. DOE NEPA Team Review (if requested): Yes No Is the class of action identified in the DOE NEPA Regulations (Appendices A-D to X П Subpart D (10 CFR § 1021))? If yes, specify the class(es) of action: B3.1, B3.8 Signature: _____ Date: _____ C. <u>DOE Counsel (if requested)</u>: Name and Title: Signature: Date: D. DOE NEPA Compliance Officer: The preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR § 1021.410. Х Action may be categorically excluded from further NEPA review. I have determined that the proposed action meets the requirements for Categorical Exclusion referenced above. Action requires approval by Head of the Field Organization. Recommend preparation of an П Environmental Assessment. П Action requires approval by Head of the Field Organization or a Secretarial Officer. Recommend preparation of an Environmental Impact Statement. Comments/limitations if any: **NEPA Compliance Officer:** Signature: ____ Date: ____

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Optional Additional Narrative: (add additional detail to description to Sections I and II or explanations to responses in Sections 3 and 4.

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