



Environment and Natural Resources Trust Fund

2027 Request for Proposal

General Information

Proposal ID: 2027-245

Proposal Title: Turtle Island Skywatchers - Research and Data Visualization 2

Project Manager Information

Name: Annette S. Lee

Organization: Native Skywatchers Inc

Office Telephone: (612) 314-9717

Email: nativeskywatchers@gmail.com

Project Basic Information

Project Summary: Turtle Island Skywatchers - Innovative Research and Data Visualization Phase 2 will utilize bioacoustics research and data visualization to enhance management strategies, foster collaborative stewardship, and to empower youth researchers.

ENRTF Funds Requested: \$210,000

Proposed Project Completion: December 31, 2028

LCCMR Funding Category: Small Projects (G)

Secondary Category: Land (F)

Project Location

What is the best scale for describing where your work will take place?

Statewide

What is the best scale to describe the area impacted by your work?

Statewide

When will the work impact occur?

During the Project and In the Future

Narrative

Describe the opportunity or problem your proposal seeks to address. Include any relevant background information.

Recent investigations have demonstrated that turtles and numerous understudied species, previously considered mute, communicate using a range of sounds that can inform behavioral studies. By engaging authentically with Indigenous knowledge holders, the project seeks to immerse participants in natural soundscapes and introduce youth to acoustic analysis tools through a high school education component. These efforts aim to increase public awareness and appreciation of Minnesota's natural ecosystems, while equipping land managers with advanced bioacoustic survey and research tools for species conservation and habitat management.

Phase 2 will document sounds at nature preserves and characterize acoustic soundscape diversity across urban-rural gradients and heterogeneous habitat interfaces. The project will generate improved species checklists and abundance metrics, with a focus on species of conservation concern, and will inform habitat management strategies to support the restoration of healthy habitats and populations. A distinctive feature of this research is the production of data visualizations of wildlife vocalizations and soundscapes, which will be integrated with Indigenous knowledge. The project also engages diverse youth as researchers and environmental communicators, while providing park managers with essential habitat information and innovative tools to enhance public education. While conveying the urgency of ecological threats, this project builds our capacity to act.

What is your proposed solution to the problem or opportunity discussed above? Introduce us to the work you are seeking funding to do. You will be asked to expand on this proposed solution in Activities & Milestones.

In Phase 1, we established survey methods, investigated soundscapes, and linked these data to Indigenous knowledge, immersing youth and land managers in high-tech science alongside ecological practice. In Phase 2, we will continue data collection, visualizations, and education by sampling additional habitat types and adding independent manual surveys to quantify error rates in automated surveys. Understanding error rates greatly enhances learning by comparing methods, enabling students to appreciate that artificial intelligence should be used only with human oversight and vetting.

Our overarching goal is to ensure that Minnesota's lands provide lasting benefits to fish, wildlife, and people. This includes maintaining healthy and diverse aquatic and terrestrial species that support the state's environment, economy, and quality of life. The Project Objectives are:

Activity 1 - Evaluate the acoustic environments of turtles and related place-based and culturally significant species (e.g., birds, frogs, bats), in the context of different human impacts.

Activity 2 - Explore place-based data visualizations of Minnesota animals through both Indigenous knowledge and Western science lenses. Emphasis includes building resilience to climate change, land-use change, and extreme weather events.

Activity 3 - Create collaborations and build partnerships among students, parks, scientists, Indigenous elders/Knowledge holders, land owners, and Minnesotans.

What are the specific project outcomes as they relate to the public purpose of protection, conservation, preservation, and enhancement of the state's natural resources?

Specific Project Outcomes are:

(1)

- Produce vetted species checklists and metrics for use in habitat management
- Characterize patterns in the acoustic behavior of turtles and other species
- Evaluate differences in soundscapes between urban, rural, and wilderness habitats

(2)

- Convey eco-narratives that are woven with insights from Western science knowledge and Indigenous science knowledge based on the research data that compel and engage citizens of Minnesota.

(3)

- Disseminate results to stakeholders, including student presentations that convey the data in the context of the cultural significance of land and the plant and animal relatives that reside there.

Activities and Milestones

Activity 1: Turtle Research – Environmental Stewardship through Acoustic Data Collection & Analysis

Activity Budget: \$120,000

Activity Description:

Primary Research Objective: Evaluate the acoustic environments of turtles and related place-based and culturally significant species (e.g., birds, frogs, bats), in the context of different human impacts. Just as Galileo turned his telescope to the heavens, we are turning our ears to Minnesota waterways to listen to what lies beneath the surface. The study of sound in nature is inherently interdisciplinary, encompassing ecology, physics, climate, and human activity. Our approach will explore underwater and turtle nest habitats and document sounds never heard by human ears. We will deploy autonomous acoustic recorders in both urban and rural habitats to record over long durations. Motion-activated and time-lapse camera traps will supplement these surveys by providing visual data. We will continue our partnership with the Three Rivers Park District, where Blanding's turtles are radioed, so that we can place recorders near them as they move about. Field site selections are based on the presence of target species (protected or culturally significant animals) and cultural revitalization efforts. Data collected will be used to compare species' presence in different habitats (e.g., urban vs. forested) and to investigate seasonal patterns.

Research Question: To what extent can acoustic-based data convey insights into Minnesota ecosystems?

Activity Milestones:

Description	Approximate Completion Date
Kickoff project – Planning meetings btw project leaders; field site selection/permits; traditional acknowledgement for land	July 31, 2027
Initial Data Collection - Collect acoustic and camera data at three sites; student involvement	December 31, 2027
Data Analysis - Turtle Island Skywatchers team statistical analysis of acoustic data for informing data	May 31, 2028
Continued Cohorts - Youth research teams, Peer mentors train new youth researchers, Sustainable model implemented.	May 31, 2028
Field Data Collection - Collect acoustic and visual data at two sites; Continued student involvement	August 31, 2028
Continued Cohorts - Youth research teams, Peer mentors train new youth researchers, Sustainable model implemented.	December 31, 2028
Final Data Analysis - Turtle Island Skywatchers team statistical analysis of acoustic data for informing	December 31, 2028
Formative and Summative Evaluation; Reflection and Progress on Objective and Specific Outcomes for Activity 1	December 31, 2028
Dissemination - Compile 'Best of' project assets (audio & visuals) ; use on project website with resources	December 31, 2028
Dissemination – Identify significant results and publication topics. Prepare Drafts for Publication of Results	December 31, 2028

Activity 2: Scientific Storytelling – Mapping Scientific Data with Cultural Stories that Inspire Stewardship

Activity Budget: \$60,000

Activity Description:

Primary Research Objective: Explore place-based data visualizations of Minnesota animals through both Indigenous knowledge and Western science lenses.

By researching and then amplifying the lived experience of other species that share our local biosphere, we can see beauty in different ways of knowing and doing. By intentional listening and purposeful looking, we can delight in the beauty of the sonic and visual textures, meaning, and story of the non-human life all around us. We look to turtles as a

primary source. We also include many other species, like birds, frogs, and bats, as well as the interconnected land, sky, and water we all inhabit. This work uses an interdisciplinary framework that combines Western science and Indigenous science. We rely on acoustic and visual data to tell engaging, compelling narratives about turtles and other wildlife. We use both Indigenous cultural knowledge and the power of the arts to speak beyond the science; we speak to emotions and our sense of empathy to find common ground with these other nations — the four-legged, the winged ones, the plant nation, the ones that swim, the ones that crawl.

Research Question: To what extent does data visualization convey insightful narratives about Minnesota's land & water ecosystems?

Activity Milestones:

Description	Approximate Completion Date
Preproduction-Finalize Concept and Visual Experience Strategy based on existing Datasets, Maps, Surveys, DEM using LiDAR	December 31, 2027
Conceptualization - Create Sample Story Maps - Identify 3-5 main stories based on species list	March 31, 2028
Development -Create Visuals & Audio: Storyboards & Scripts for Story Mapping Animations, Communicate Western Science & Indigenous Science	June 30, 2028
Production - Sound Design & Production Boards: Using Field Recordings & Checklists from Data Analysis, Data Visualization	September 30, 2028
Post-Production-Advanced Compositing & Final Multimedia Product: Final Production of Data Visualization - Story Maps; Statewide Sharing	December 31, 2028
Formative and Summative Evaluation; Reflection and Progress on Objective and Specific Outcomes for Activity 2	December 31, 2028

Activity 3: Reimagining Minnesota's Environment and Natural Resources - Disseminating Forward-Thinking Dialog, Stewardship, and Cultural Revitalization

Activity Budget: \$30,000

Activity Description:

Primary Research Objective: Create collaborations and build partnerships among students, parks, scientists, Indigenous elders/Knowledge holders, land owners, and Minnesota citizens. Student researchers present their findings. Contribute to the knowledge base and disseminate the results to support efforts to protect, conserve, restore, enhance, and manage Minnesota's natural environment and resources. In addition to the citizen science website created in Phase 1 of this project, called "Turtle Island Researchers", on the Zooniverse platform, Phase 2 will employ increased innovative approaches so more Minnesotans can participate in this collaborative, multi-disciplinary approach with project partners from a diversity of agencies, organizations, and communities, which will include meaningful engagement and inspiration. In Phase 2, the dissemination campaign will leverage additional efforts from the student researchers to design and deliver presentations especially for Three Rivers Park District events. Wildlife Supervisor and project collaborator, Angela Grill, has repeatedly expressed a strong interest by the parks to include Indigenous perspectives, but lacks a pathway. Here is an incredible opportunity to provide benefits to and address the needs of our Minnesota communities.

Research Question: To what extent does the combination of Western science and Indigenous science research contribute to the development of insights into Minnesota land & water ecosystems?

Activity Milestones:

Description	Approximate Completion Date
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Dissemination of Results and Findings Across Multiple Platforms, Organizations, and Communities- Youth Researchers Lead Presentations	December 31, 2028
Increased development and Innovation of the Zooniverse website - "Turtle Island Acoustic Ecology/Soundscape Researchers."	December 31, 2028
Project Website Dissemination with Transferable Educational, Scientific, and Cultural Resources	December 31, 2028
Formative and Summative Evaluation; Reflection and Progress on Objective and Specific Outcomes for Activity 3	December 31, 2028

Project Partners and Collaborators

Name	Organization	Role	Receiving Funds
Ramona Kitto Stately	We are Still Here Minnesota	Indigenous Knowledge Content Specialist; Dakota	Yes
Carmen Gavin Vanegas	All Nations Program, South High School	Collaborators - Lead Science Instructor and Researcher	Yes
Gary Casper	Great Lakes Ecological Services; Director of Biodiversity Programs- MEQUON NATURE PRESERVE	Acoustic Field Biologist/Ecologist Research Lead-MN-WI based	Yes
Charles Grolla	Cass Lake Bena Schools	Cultural Knowledge Expert; Educator	Yes
Kassie Benjamin-Flicker	South High School	Teacher, Work Experience Coordinator; Indigenous Knowledge Holder	Yes
Stan Tekila	Nature Smart	Content Knowledge Specialist; Audio and Visual Wildlife Biologist, Naturalist, wildlife photographer and author/writer	Yes
Annette S. Lee	Native Skywatchers Design Studio	Principal Investigator; Scientist, Indigenous Knowledge Holder, Artist; Creative Director & Producer	Yes
Rachel Jacobs	Culture and Language Expert; Teacher at South High School - All Nations Program	Content Knowledge Specialist	Yes
Pat Kruse	Independent; Mille Lac Ojibwe	Indigenous Knowledge Content Specialist	Yes

Dissemination

Describe your plans for dissemination, presentation, documentation, or sharing of data, results, samples, physical collections, and other products and how they will follow ENRTF Acknowledgement Requirements and Guidelines.

Native Skywatchers - 2027-245: Turtle Island Skywatchers - Research & Data Visualization 2- Plans for Dissemination are as follows:

- Participation in data collection will include land managers and volunteers of the Three Rivers Park District, and students at South High School.
- Research results will be shared directly with Three Rivers Park District and Minnesota Valley National Wildlife Refuge staff, as well as disseminated through publications, exhibits, and conference presentations such as the annual Minnesota Indian Education Association conference, <https://minnesotaindianeducation.org/about/>.

- Digital acoustic and visual archives will be made available to LCCMR, Three Rivers Park District, Minnesota Valley National Wildlife Refuge, South High School, and other interested parties.
- Research results will directly address wildlife use of managed habitats for property owners to use to better protect and enhance Minnesota's wildlife at risk, and to enhance conservation education and outreach.
- ENRTF will be acknowledged, (per the ENTRF Acknowledgement Guidelines), in all public outcomes including within the website, conferences and publications.

Long-Term Implementation and Funding

Describe how the results will be implemented and how any ongoing effort will be funded. If not already addressed as part of the project, how will findings, results, and products developed be implemented after project completion? If additional work is needed, how will this work be funded?

Native Skywatchers has nearly two decades of successful grant work and recognition. We are positioned at the intersection of science, culture, and art, which enables us to secure grants in both scientific and artistic domains. For instance, we recently received an exhibit grant from the Minnesota Humanities Center to present Phase 1 results in an immersive public exhibition. This award will advance data visualization to professional design standards and facilitate the creation of an immersive multisensorial installation at the Silverwood Gallery in St. Anthony in Spring 2027. This approach provides an effective means to communicate our research beyond conventional methods.

Other ENRTF Appropriations Awarded in the Last Six Years

Name	Appropriation	Amount Awarded
Turtle Island Skywatchers – Minnesota Research and Data Visualization	M.L. 2024, , Chp. 83, Art. , Sec. 2, Subd. 03e	\$200,000

Project Manager and Organization Qualifications

Project Manager Name: Annette S. Lee

Job Title: Annette S. Lee, DSc, PhD, MFA, MFA - Founder & Director of Native Skywatchers

Provide description of the project manager's qualifications to manage the proposed project.

Qualifications:

Annette S. Lee, DSc, PhD, MFA, MFA is an award-winning artist, scientist, and civic engagement leader whose unique talents connect ideas across seemingly impossible divides. Much of her work focuses on Indigenous Knowledges and epistemologies. She is a world-class researcher, professional artist, and keeper of traditional knowledge, with bachelor's, master's, and doctoral degrees in mathematics, physics, and astrophysics, as well as a bachelor's and two master's degrees in fine arts and motion media design, all from top universities, including Yale and Berkeley. Dr. Lee has served as an expert consultant for UNESCO, curated prestigious exhibitions, served as a world-class science communicator, and delivered keynote addresses to organizations and at major conferences worldwide.

Responsibilities:

Dr. Annette S. Lee will serve as Project Manager for the grant work entitled, "Turtle Island Skywatchers - Research and Data Visualization 2". She has over two decades of experience and success in managing collaborative teams for Native Skywatchers Inc. This includes the LCCMR Phase 1 of this project, with excellent results, including securing a vibrant and robust partnership with the Three Rivers Park District and Great River Greening. As both a scientist and an artist, Dr. Annette S. Lee is uniquely talented across the qualitative and quantitative aspects of this project with strong skills in financial management and communication. Responsibilities include regular team meetings, scheduling, and

dissemination, as well as LCCMR financial and narrative interim and final reporting. Specific to this project proposal, Project Management will account for \$10,000 of the budgeted stipend over the project timeline.

Organization: Native Skywatchers Inc

Organization Description:

The Native Skywatchers research and programming initiative has been recording, mapping, and sharing Indigenous sky and earth place-based knowledge for nearly two decades. From NASA to Fond du Lac Tribal College ... Native Skywatchers is a local and global leader in Indigenous science methodology and research with long-term, broad impacts. Designed by Lee (2007), the Native Skywatchers initiative seeks to remember and revitalize Indigenous sky and earth knowledge. The overarching goal is to communicate the knowledge that Indigenous people traditionally practiced a sustainable way of living and sustainable engineering through a living, participatory relationship with the above and below, the sky and the earth. The framework for the Native Skywatchers initiative is rooted in 'Two-Eyed Seeing' or Etuaptmumk (Mi 'kmaq): "learning to see from one eye with the strengths of Indigenous knowledges and ways of knowing, and from the other eye with the strengths of Western knowledges and ways of knowing, and to use both these eyes for the benefit of all" (Bartlett, Marshall, and Marshall 2012, 336). Uniquely positioned at the intersection of science, art, and culture, Native Skywatchers is internationally recognized for groundbreaking work, paving the path to redefine resiliency and reciprocity in the face of ever-increasing global challenges.

Budget Summary

Category / Name	Subcategory or Type	Description	Purpose	Gen. Ineligible	% Benefits	# FTE	Classified Staff?	\$ Amount
Personnel								
							Sub Total	-
Contracts and Services								
Carmen Gavin-Vanegas	Service Contract	Educator lead - Cohort Lead - Summer Stipend - Biologist; Acoustics expertise				0.3		\$25,000
Kassie Benjamin-Flicker	Service Contract	Educator; Indigenous Knowledge Holder collaborator; Summer Stipend				0.04		\$5,000
Ramona Kitto Stately	Service Contract	Content Knowledge Specialist; Indigenous Knowledge				0.04		\$5,000
Native Skywatchers Design Studio - Annette S. Lee	Service Contract	Principal Investigator; Project Lead; Data Visualizer, Motion Design, Animation, Cinematography, Typography, Branding, ESRI ArcGIS 2D/3D visualization, Visual effects				0.48		\$70,000
Gary Casper	Service Contract	Acoustic Field Biologist/Ecologist Research Lead-MN-WI based		X		0.5		\$70,000
Charles Grolla	Service Contract	Mr. Grolla is an Ojibwe Knowledge Holder from the Red Lake Reserve. He will support the cultural stories, especially related to the birds/Winged Ones.				0.04		\$5,000
Pat Kruse	Service Contract	Mr. Kruse is an Ojibwe Knowledge holder and elder from Mille Lac Reserve. He will be leading activities such as birch bark making and contribute to the cultural perspectives of the data driven story telling.				0.04		\$5,000
Reuben Stately	Service Contract	Dakota Content Knowledge specialist; Expertise with Drumsong and Ecology				0.02		\$4,000

Fern Renville	Service Contract	Dakota elder & Knowledge holder; Expertise on land, native plants, ecosystems				0.04		\$5,000
							Sub Total	\$194,000
Equipment, Tools, and Supplies								
	Equipment	Hydrophones - Underwater Recorders	Collect underwater acoustic data from turtles and other place-based MN animals; 12 HydroMoth units with Underwater Case, Magnetic Key Fob and Micro USB Cables; shipping & tax	X				\$1,940
	Equipment	Acoustic Recorder - SM5	(2) -Song Meter SM5; Wildlife Acoustics, extra mic, cables, shipping	X				\$1,744
	Equipment	Acoustic Recorder-Song Meter Mini 2 Li-ion	(2), Song Meter Mini 2 Li-ion, extra mic, locks, cables, Li-battery charger, shipping; To record terrestrial audio; Sacred Sites; Wildlife Acoustics	X				\$1,463
	Equipment	Acoustic Recorder-Song Meter Mini 2 AA	(1) Recording of Soundscape	X				\$581
	Equipment	Song Meter Mini Bat 2 AA	(1) To record acoustics for Bats at Ultrasonic High frequency range;	X				\$932
	Tools and Supplies	Kaleidoscope Pro Analysis Software	(3) Software to analyze acoustic data - https://www.wildlifeacoustics.com/products/kaleidoscope-pro					\$798
	Tools and Supplies	SD Cards-128GB SanDisk Extreme microSDHC UHS-I w/adapters	Fieldwork acoustic recordings, hydromoths, terrestrial recorder, cameras; (25); shipping & tax					\$1,090
	Tools and Supplies	AA batteries	To operate recording & visual equipment; hydrophones, songmeters, trail cam; Amazon; Duracell, 28 pack (15)					\$409
	Tools and Supplies	External hard drives	External hard drives for Senior Personal - Data Collected for main research components; shipping & tax					\$1,472
	Equipment	Song Meter Mini Bat Li ion	Record Bat in Ultrasonic Range; (1) Wildlife Acoustics, extra mic, cable, and 3 pair Ion batteries	X				\$1,023
	Equipment	Ds4K Trail Camera	DS4K Transmit Cellular Trail Camera. Record Field Site; DEMAND function allows sending a direct command to the camera and capturing photos and video; shipping & tax	X				\$295
	Equipment	Underwater Camera	to record underwater aquatic species, esp. turtles; perspective of underwater species; goPro 13; ultra wide lens; shipping & tax	X				\$588
	Tools and Supplies	Locks and Straps	to secure and protect recorders & cameras					\$150
	Tools and Supplies	ArcGIS software	to create data-visualizations based on data maps					\$700

	Tools and Supplies	Adobe CC software	for professional level visual design and motion; scientific story & communication					\$780
							Sub Total	\$13,965
Capital Equipment								
							Sub Total	-
Acquisitions and Stewardship								
							Sub Total	-
Travel In Minnesota								
							Sub Total	-
Travel Outside Minnesota								
							Sub Total	-
Printing and Publication								
	Printing	Printing/Copying	Brochures for Park kiosks & visitor centers; Still images of Data visualization, maps, and visual graphics; Conference Posters; Dissemination campaign					\$2,035
							Sub Total	\$2,035
Other Expenses								
							Sub Total	-
							Grand Total	\$210,000

Classified Staff or Generally Ineligible Expenses

Category/Name	Subcategory or Type	Description	Justification Ineligible Expense or Classified Staff Request
Contracts and Services - Gary Casper	Service Contract	Acoustic Field Biologist/Ecologist Research Lead-MN-WI based	Co-I G. Casper holds specialized knowledge and/or relationships, specialized equipment, and over 40 years of working in bioacoustics and wildlife ecology. Unique skill set, including the discovery of sound production in hatchling turtles in WI. In addition, he has experience working with our Native Skywatchers Indigenous students and knowledge holders; an existing relationship of high-quality work and trust.
Equipment, Tools, and Supplies		Hydrophones - Underwater Recorders	This item is justified and directly related to the project's primary goal. Records sound underwater. Used at all field sites. Hydrophone-GroupGets, https://groupgets.com/cart
Equipment, Tools, and Supplies		Acoustic Recorder - SM5	This item is justified and directly related to the project's primary goal. The top-of-the-line recorder for professional ecologists studying wildlife that vocalize within the audible range. The all-new SM5 can record birds in the canopy, amphibians in the understory, and much more—and it does so while delivering the best battery performance on the market; https://www.wildlifeacoustics.com/products/song-meter-sm5
Equipment, Tools, and Supplies		Acoustic Recorder-Song Meter Mini 2 Li-ion	This item is justified and directly related to the project's primary goal. Gain (and prevent unauthorized) access to your recorders via a redesigned, hinged, lockable enclosure that can house one to six 18650 Lithium-ion batteries for up to 1,330 hours of recording time. https://www.wildlifeacoustics.com/products/song-meter-mini-2-li-ion
Equipment, Tools, and Supplies		Acoustic Recorder-Song Meter Mini 2 AA	This item is justified and directly related to the project's primary goal. Song Meter Mini 2 AA; Spend less time replenishing your power supply and more time recording birds, amphibians, and wildlife that vocalize in the acoustic range. Get up to 530 hours' deployment (more than double that of its predecessor) with just eight AA alkaline batteries; https://www.wildlifeacoustics.com/products/song-meter-mini-2-aa
Equipment, Tools, and Supplies		Song Meter Mini Bat 2 AA	This item is justified and directly related to the project's primary goals. Song Meter Mini Bat 2 AA ; https://www.wildlifeacoustics.com/products/song-meter-mini-2-bat-aa
Equipment, Tools, and Supplies		Song Meter Mini Bat Li ion	This item is justified and directly related to the project's primary goals. Song Meter Mini Bat 2 Li-ion; https://www.wildlifeacoustics.com/products/song-meter-mini-bat-2-li-ion
Equipment, Tools, and Supplies		Ds4K Trail Camera	This item is justified and directly related to the project's primary goals. DS4K Transmit Cellular Trail Camera. https://www.stealthcam.com/cart/

Equipment, Tools, and Supplies		Underwater Camera	This item is justified and directly related to the project's primary goal. https://gopro.com/en/us/shop/cart;
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Non ENRTF Funds

Category	Specific Source	Use	Status	Amount
State				
			State Sub Total	-
Non-State				
			Non State Sub Total	-
			Funds Total	-

Total Project Cost: \$210,000

This amount accurately reflects total project cost?

Yes

Attachments

Required Attachments

Visual Component

File: [75f710f9-a2d.pdf](#)

Alternate Text for Visual Component

Native Skywatchers-Turtle Island Skywatchers-Research and Data Visualization - Action Shots - Phase 1- (If to rt.)
Endangered Blanding Turtles at Crow-Hassan; PI-A. Lee with student researcher recording underwater acoustics with hydrophone at Mound Springs Park; Horseshoe Pond at Field Site-Crow Hassan; Underwater acoustic recorder-Crow Hassan Nature Preserve Field Site, 2025...

Financial Capacity

Title	File
Native Skywatchers Inc. 2023- Taxes Submitted - 990	c28ff7da-179.pdf
MN State Attorney General's Office - Native Skywatchers Inc - Good Standing - March 2026	384c13dd-26d.pdf
Native Skywatchers Inc. - 2024 Taxes Submitted - 990EZ	3b7d91d3-7d4.pdf

Board Resolution or Letter

Title	File
Board Approved Letter of Authorization - March 2026	d9018bf9-371.pdf

Supplemental Attachments

Capital Project Questionnaire, Budget Supplements, Support Letter, Photos, Media, Other

Title	File
Native Skywatchers - Turtle Island Skywatchers-Research and Data Visualization - Preliminary Results - Sample Work - Bats	ce1fe1b8-26e.pdf
Carmen Gavin Vanegas - Letter of Support	836ea220-8fb.pdf
CV-Carmen Gavin Vanegas	c204639e-291.pdf
Logic Model and Evaluation Plan - Native Skywatchers - Turtle Island Skywatchers - Research & Data Visualization 2	20709999-68d.pdf
Native Skywatchers - Methods - Acoustic Data Analysis	85a5a0ce-2df.pdf
Dr. Gary Casper - Letter of Support	8d36d588-072.pdf
CV-Dr. Gary Casper	d2663207-1a4.pdf
CV-Dr. Annette S. Lee	a1a723e6-e57.pdf
We are Still Here Minnesota - Letter of Support	5eccf7a4-0be.pdf
Great River Greening Nonprofit - Letter of Support	1a9cf2fd-b93.pdf
Three Rivers Park District - Letter of Support	aa88f544-5f5.pdf

Administrative Use

Does your project include restoration or acquisition of land rights?

No

Do you understand that travel expenses are only approved if they follow the "Commissioner's Plan" promulgated by the Commissioner of Management of Budget or, for University of Minnesota projects, the University of Minnesota plan?

N/A

Does your project have potential for royalties, copyrights, patents, sale of products and assets, or revenue generation?

No

Do you understand and acknowledge IP and revenue-return and sharing requirements in 116P.10?

N/A

Do you wish to request reinvestment of any revenues into your project instead of returning revenue to the ENRTF?

N/A

Does your project include original, hypothesis-driven research?

Yes

Does the organization have a fiscal agent for this project?

No

Does your project include the pre-design, design, construction, or renovation of a building, trail, campground, or other fixed capital asset costing \$10,000 or more or large-scale stream or wetland restoration?

No

Do you propose using an appropriation from the Environment and Natural Resources Trust Fund to conduct a project that provides children's services (as defined in Minnesota Statutes section 299C.61 Subd.7 as "the provision of care, treatment, education, training, instruction, or recreation to children")?

No

Provide the name(s) and organization(s) of additional individuals assisting in the completion of this proposal:

(1) Dr. Annette S. Lee, Native Skywatchers Inc.; (2) Dr. Gary Casper, Great Lakes Ecological Services; (3) Carmin Gavin-Vanegas, South High School, Science Instructor

Do you understand that a named service contract does not constitute a funder-designated subrecipient or approval of a sole-source contract? In other words, a service contract entity is only approved if it has been selected according to the contracting rules identified in state law and policy for organizations that receive ENRTF funds through direct appropriations, or in the DNR's reimbursement manual for non-state organizations. These rules may include competitive bidding and prevailing wage requirements

Yes, I understand