



## Kuahiwi a Kai: Lānaʻi Watershed Conservation- updated March 2021

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### FUNDING PARTNER



**Pūlama Lānaʻi**  
 Preservation. Progress. Sustainability.



### ABOUT NFWF

The National Fish and Wildlife Foundation (NFWF) protects and restores our nation's fish and wildlife and their habitats. Created by Congress in 1984, NFWF directs public conservation dollars to the most pressing environmental needs and matches those investments with private funds. Learn more at [www.nfwf.org](http://www.nfwf.org)

### NATIONAL HEADQUARTERS

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Hawaiian petrel chick

### OVERVIEW

In 2020, the National Fish and Wildlife Foundation (NFWF) and Pūlama Lānaʻi announced the first round of funding for the Kuahiwi a Kai: Lānaʻi Watershed Conservation Program. Six new grants totaling \$445,966 were awarded. The six awards announced generated \$426,701 in match from the grantees, providing a total conservation impact of \$872,667.

The Kuahiwi a Kai: Lānaʻi Watershed Conservation Program was developed to strategically preserve and enhance Lānaʻi's unique natural and cultural resources from mauka to makai (from the top of the mountains down to the ocean). The awarded projects take a comprehensive approach to land management and community stewardship to achieve the goals of the Program.

(continued)

### Ungulate Fencing Assessment and Feasibility Study on Northeast Lānaʻi (HI)

Grantee: Pono Pacific Land Management

Grant Amount: .....\$19,017  
 Matching Funds: .....\$20,000  
 Total: .....\$39,017

Identify, map, and provide cost estimates and implementation plans for ungulate fencing alignments along the northern and southern borders of the Program Area, as well as interior fencing options on northeast Lānaʻi, Hawaiʻi. This project will assist in prioritizing fence implementation locations and provide conservation recommendations for ungulate monitoring and control strategies.

### Light Detection and Ranging (LIDAR) Mapping and Sedimentation Evaluation on Lānaʻi (HI)

Grantee: U.S. Geological Survey

Grant Amount: .....\$149,868  
 Matching Funds: .....\$155,000  
 Total: .....\$304,868

Map, model, and monitor sources of fine-sediment pollution from the ridgelines down to the shoreline on northeast Lānaʻi, Hawaiʻi. This project will collect high-quality airborne LIDAR data, conduct infiltration tests, and install erosion pin monitoring sites to identify sedimentation hotspots to inform management decisions on priority fence alignments, ungulate population control, and re-vegetation efforts.

### Mapping Native and Non-Native Vegetation Communities on Lānaʻi (HI)

Grantee: U.S. Geological Survey

Grant Amount: .....\$115,616  
 Matching Funds: .....\$97,120  
 Total: .....\$212,736

Develop vegetation classification maps and conduct a vegetation change analysis of the Program Area on Lānaʻi using high-resolution spatial imagery, historical data, and on-the-ground data samples. This project will inform land managers on areas of recent and rapid invasive species encroachment, and inform priority locations for future Hawaiian petrel (ʻuaʻu) habitat conservation and restoration efforts.

### Review of Hawaiian Petrel Reproductive Success Monitoring on Lānaʻi (HI)

Grantee: Zoological Society of San Diego

Grant Amount: .....\$41,143  
 Matching Funds: .....\$29,148  
 Total: .....\$70,291

Develop a monitoring plan for Hawaiian petrels (ʻuaʻu) on Lānaʻi, Hawaiʻi. This project will improve efficiency and ensure a robust sampling strategy for detecting changes in reproductive success and report on the effectiveness of species-specific conservation measures, including predator control and habitat restoration.



Kuahiwi a Kai program area

### Coral Reef and Nearshore Water Quality Assessment and Mapping on Northeast Lānaʻi (HI)

Grantee: The Nature Conservancy

Grant Amount: .....\$71,433  
 Matching Funds: .....\$71,433  
 Total: .....\$142,866

Establish a baseline of the nearshore fish and coral communities along the northeast coast of Lānaʻi, Hawaiʻi to inform local watershed mitigation activities and support the State of Hawaiʻi's goals to establish 30% of nearshore waters as marine management areas by 2030. This project will collect benthic, fish, and nearshore water quality data and establish sedimentation flow patterns that will inform recommendations for a long-term monitoring plan.

### Community Engagement Building and Water Quality Monitoring on Lānaʻi (HI)

Grantee: University of Hawaiʻi Office of Research Services

Grant Amount: .....\$48,889  
 Matching Funds: .....\$54,000  
 Total: .....\$102,889

Engage the community by hosting workshops to facilitate the building, deployment, and monitoring of low-cost real-time water sensors to track rainfall, surface water levels through stream gauges, and nearshore water levels through tide gauges at two strategic coastal sites on northeast Lānaʻi, Hawaiʻi. This project will establish, support, and enhance community participation from local students, teachers, conservation organizations, and interested citizen scientists to fill data gaps to inform future management decisions and track program impacts.