

Katie B. Woodbury, B.S.

Ecologist

Maui Environmental Consulting, LLC

808-866-6919 kwoodbury@mauienvironmentalconsulting.com



Experience

Maui Environmental
Consulting, LLC
Paia, Hawaii
Ecologist
2021-Present

Redline Rafting,
Kihei, HI
First Mate and Naturalist
2018-2021

Education

B.S., Biology, Minor in
Environmental Science
Belmont University, 2015

Certifications

A-Z Grant Writing, Hawaii
Community College

Open Water Diver, PADI

CPR and First Aid, Divers
Alert Network

**Memberships &
Affiliations**

Na Kai Ewalu Hawaiian
Canoe Paddling Club
2021-Present

As an Ecologist with Maui Environmental Consulting, LLC (MEC), Katie has experience in water quality testing, aquatic systems rehabilitation, wetland assessments, and wildlife ecology throughout Hawai'i's ecosystems. Katie has conducted research investigating water quality and biodiversity and has volunteered on research teams studying fishery ecology in the Gulf of Mexico. She is particularly interested in ecology and marine conservation. As an Ecologist at MEC, Katie has delineated wetlands and worked to restore riparian corridors. She has also conducted listed species surveys and conducted water quality sampling for clients. She is proficient in Microsoft Office applications, grant writing, field data collection, monitoring, and reporting. Below is a list of projects Katie has worked on at MEC.

Ecologist – Watershed Management Planning

Watershed management plays an important role maintaining and improving water quality from mauka to makai. A watershed management plan identifies threats and problems to water resources within a specific watershed area, and provides strategies for addressing and managing those issues. Approved in 2023, the Pōhākea Watershed Management Plan was written to address land-based sources of pollution entering into Mā'alaea Bay. Katie played an integral role in the production of the Plan, and she is currently working on a Watershed Management Plan for Waikapū and Waiakoa Watersheds.

Ecologist – Wetland Delineations throughout the Pacific

Katie has delineated wetlands on Maui, Molokai, Kauai, Big Island and in American Samoa. The wetland delineations were conducted in accordance with the U.S. Army Corps of Engineers (USACE) 1987 Wetlands Delineation Manual and the 2012 Supplement for the Hawai'i and Pacific Islands Region. Wetland boundaries were flagged and recorded using a global positioning system. The data collected in the field was used to construct reports that were submitted to the USACE to receive formal Jurisdictional Determinations.

Ecologist – Plant and Wildlife Surveys

To determine the presence of plant and animal species protected by county, state, and federal laws, Katie has conducted listed species surveys and assessments as required by regulatory agencies. Appropriate methodologies were used to assess for the presence of listed species and their habitats. Detailed reports that included avoidance recommendations and mitigation strategies were then produced.

Ecologist – Red Hill Drinking Water Quality Sampling

In November of 2021, a fuel leak at the Red Hill Navy storage facility contaminated the drinking water supply and displaced thousands of residents at Joint Base Pearl Harbor-Hickam military base on Oahu, HI. MEC was contracted to sample the drinking water at residential homes within the affected area. Katie conducted drinking water quality sampling in accordance with methodologies provided by the State of Hawaii Department of Health and the Environmental Protection Agency. Results were used to determine whether contaminants remained in the plumbing systems of residential homes.

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Ecologist – Keokea Gulch Riparian Rehabilitation

Katie has worked to rehabilitate the riparian corridor of Kēōkea Gulch in Kīhei, HI. So far 7.4 acres have been fenced off and protected from feral ungulates and approximately 3,000 native plants have been planted along the stream banks. R-1 wastewater is being utilized as irrigation, preventing the injection of wastewater into the ocean and enabling vegetative ground cover to be re-established to reduce erosion. Katie has installed irrigation, planted native vegetation, and has played a vital role in the continued monitoring and reporting of this project.

Ecologist – Underground Injection Control Water Quality Monitoring

Katie works with a GOLD New Construction Leadership in Energy and Environmental Design (LEED) certified resort in West Maui to conduct water quality sampling in accordance with the Hawai'i Department of Health Safe Drinking Water Branch permitting program. The resort uses geothermal heat rejection to provide cool air conditioning throughout the 393-villa resort. This saves thousands of gallons of water daily and replaces the need for chillers and cooling towers that would otherwise emit harmful greenhouse gases and are among the top consumers of water and electricity at resorts.