



Restoration: Hakioawa Operations and Maintenance Plan 2021

BACKGROUND

An 18 month “O and M Plan” will provide maintenance to the existing irrigation and soil erosion control (wattles and check dams) infrastructure, 5000 new native plants and soil monitoring data in a previous 2018-2019 15ha (37A) DOH Project Site in Hakioawa Watershed.

DELIVERABLES

- Out plant 5000 native plants on previously established irrigated planting corridors
- Install twenty (20) check dams
- Read eight (8) Soil Erosion Pin Transects and determine reduction in sediment load
- Take 28 baseline photopoints and 7 drone images for comparison to 2019

AWARD AMOUNT: \$122,228.05 (\$92,185.91 Grant funds, \$30,042.14 Matching funds)

FUNDER: State of Hawai‘i, Department of Health, Clean Water Branch (from U.S. EPA)

HIGHLIGHTS

- A Kaho‘olawe Island Reserve Specialist II (KIRS II) was hired on October 1, 2021 for a one year position
- To date, 2000 native plants have been out planed in the Project Site with 68 volunteers
- To date 11 check dams have been constructed in gullies

FINANCIAL UPDATE

<i>SPENT</i>	<i>BILLED</i>	<i>RECEIVED</i>
\$34,935.19	\$34,935.19	\$8,339.21

PROJECT UPDATE: December 1, 2021 to January, 31 2022

Two DOH trips were canceled in both December 2021 and January 2022 due to heavy weather (Kona low) and large surf, respectively. A third Quarterly Status Report and billing were submitted in January 2022. 3000 more native plants will be outplanted in February, March and April, 2022. Soil erosion pin transects will be re-measured in July 2022 for analysis of reduction of sediment load (target is 5% load reduction). Baseline photopoints and drone images will be re-taken in July 2022 for comparison (to May 2021).



Volunteer out planting in an irrigated corridor



A blow out on a 1.5 inch irrigation main



Check dam in a gully in the Project Site