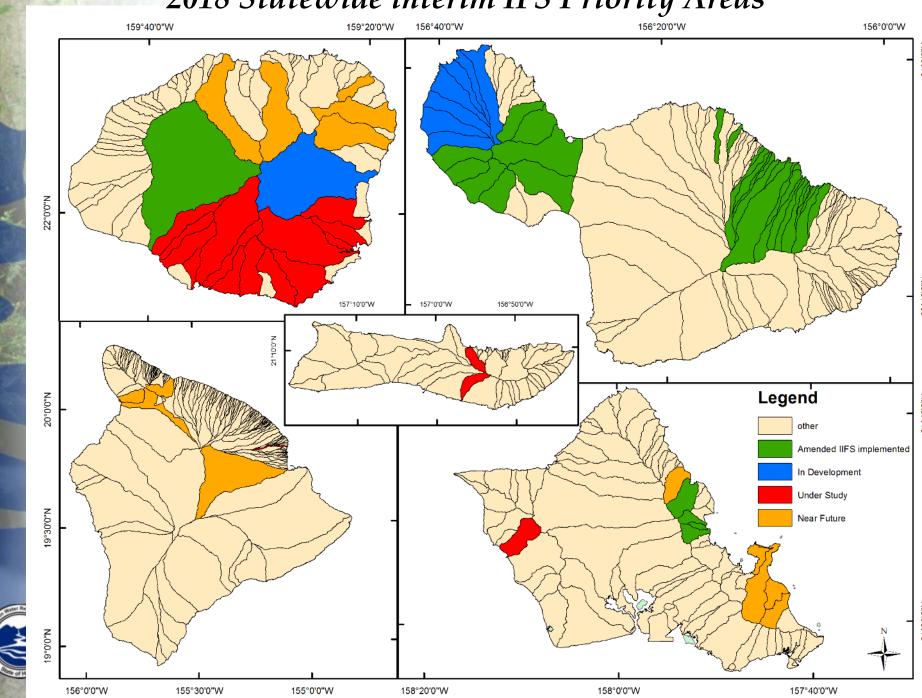
Update on Development and Implementation of Interim Instream Flow Standards in Southeast Kaua'i

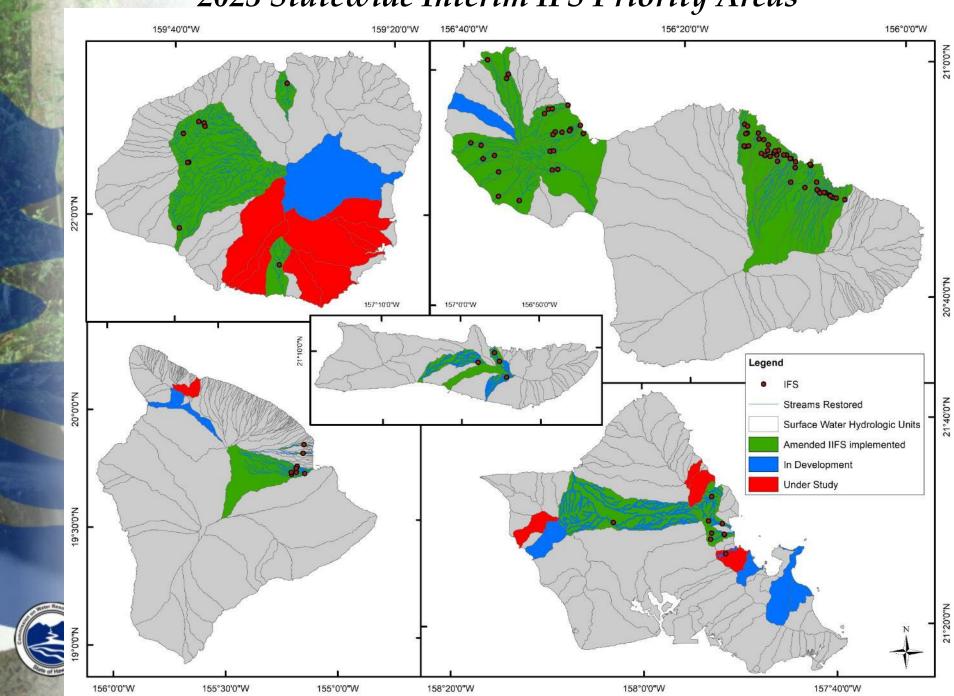
C-5 November 21, 2023



2018 Statewide interim IFS Priority Areas



2023 Statewide Interim IFS Priority Areas



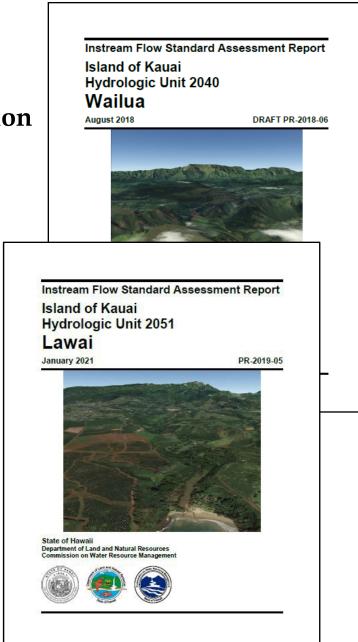


Interim IFS Process

CWRM Receives or Initiates a Petition to Amend the Existing IIFS (Status Quo) **CWRM Staff Conducts an Inventory of Best Available Information** Staff Issues a Public Notice and **Conducts a Public Fact Gathering Meeting Staff Compiles and Incorporates New Information Staff Prepares a Recommendation for IIFS** Amendment for Action at a CWRM Meeting **CWRM Action**

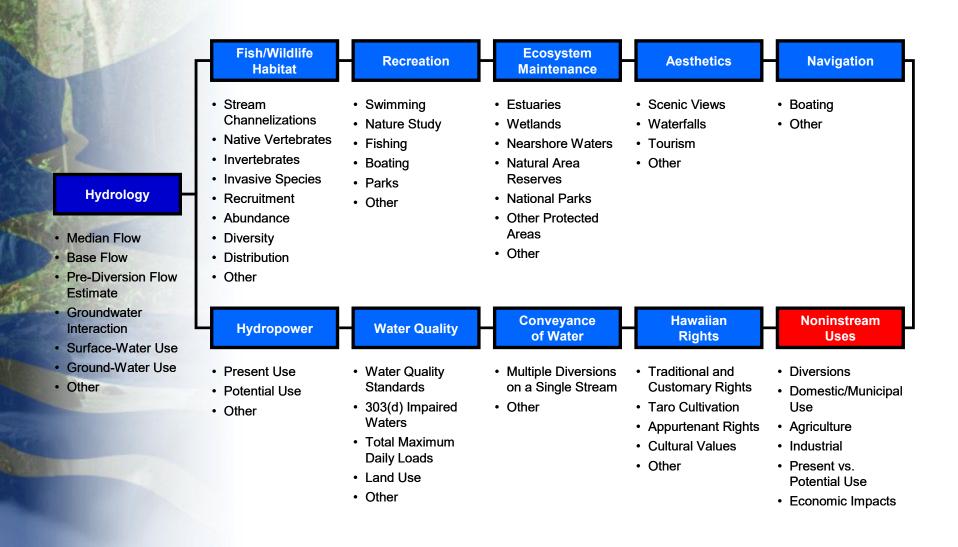
Instream Flow Standard Assessment Report

- Summarizes best available information
- Working document
- Used as a reference → not a recommendation
- Wailua Hydrologic Unit
 - Initial draft published May 2018
 - Updated August 2018
 - Continuing to be updated with hydrologic data
 - USGS SE Kauai publication data added





Instream Flow Standard Assessment Report



Southeast Kaua'i Timeline

2015-2020 USGS fieldwork

2015 CWRM began fieldwork

Spring 2018 Wailua IFSAR draft published

2018 Proposed amending interim IFS for Wai'ale'ale and Waikoko

→ proceedings halted by CCH request

Fall 2019 Lāwa'i IFSAR draft published

Fall 2019 USGS Low-Flow Study Projected Publication

June 2020 USGS 16057900 Waiahi Str US Upper Powerhouse station installed

Dec 2020 USGS Low-Flow Study Actual Publication

Mar 2021 Lāwa'i Interim IFS approved

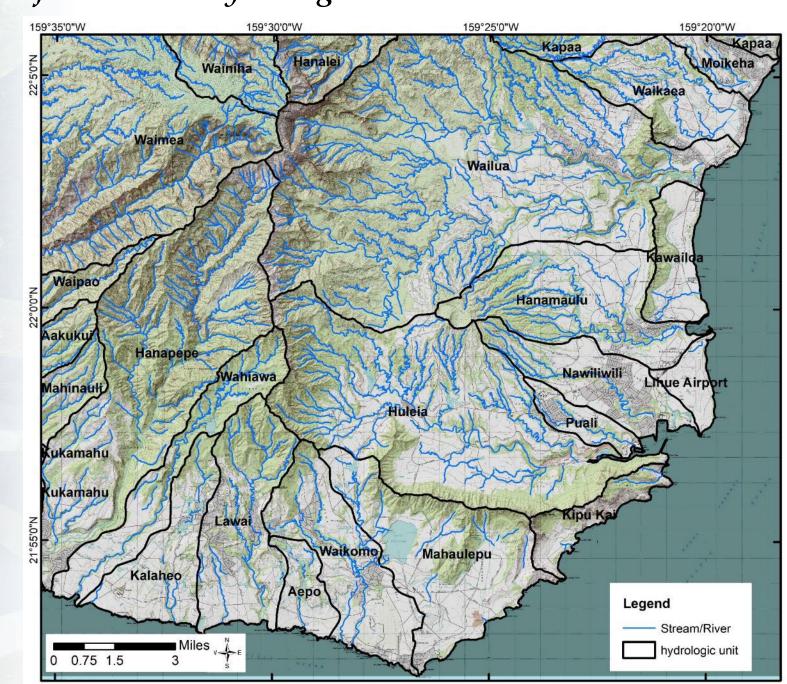
Feb 2022 USGS 1606950 NF Wailua abv N Wailua Ditch Int station installed

2022 CCH request for Wai'ale'ale and Waikoko interim IFS dropped

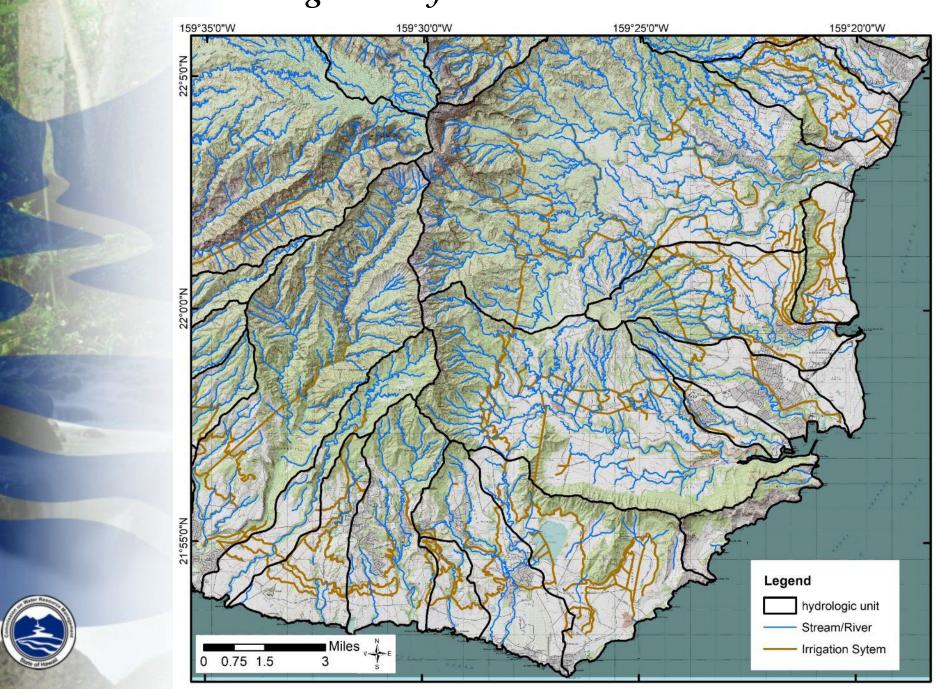
2023 Waikomo IFSAR in development



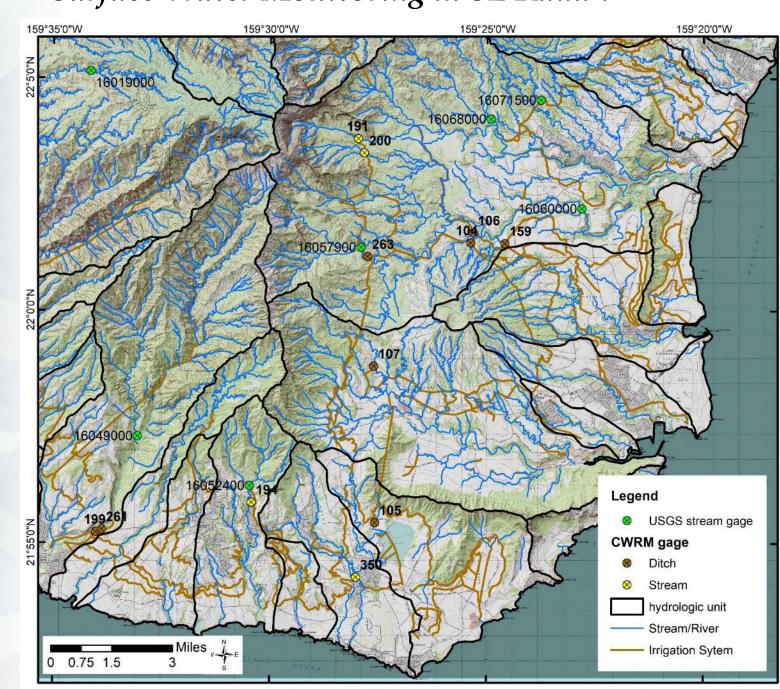
Surface Water Hydrologic Units in SE Kaua'i



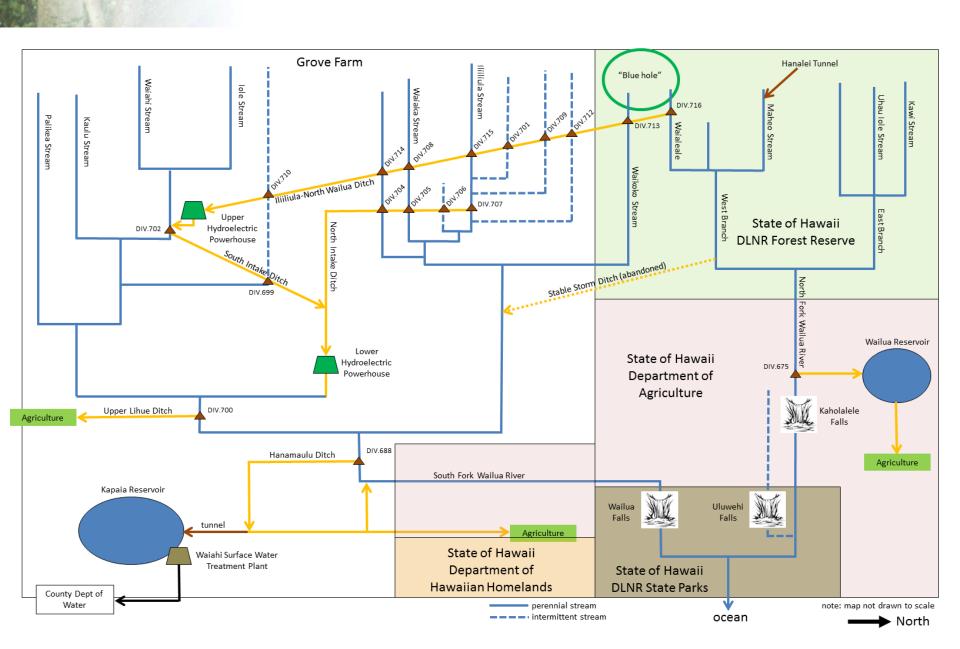
Irrigation Systems in SE Kaua'i

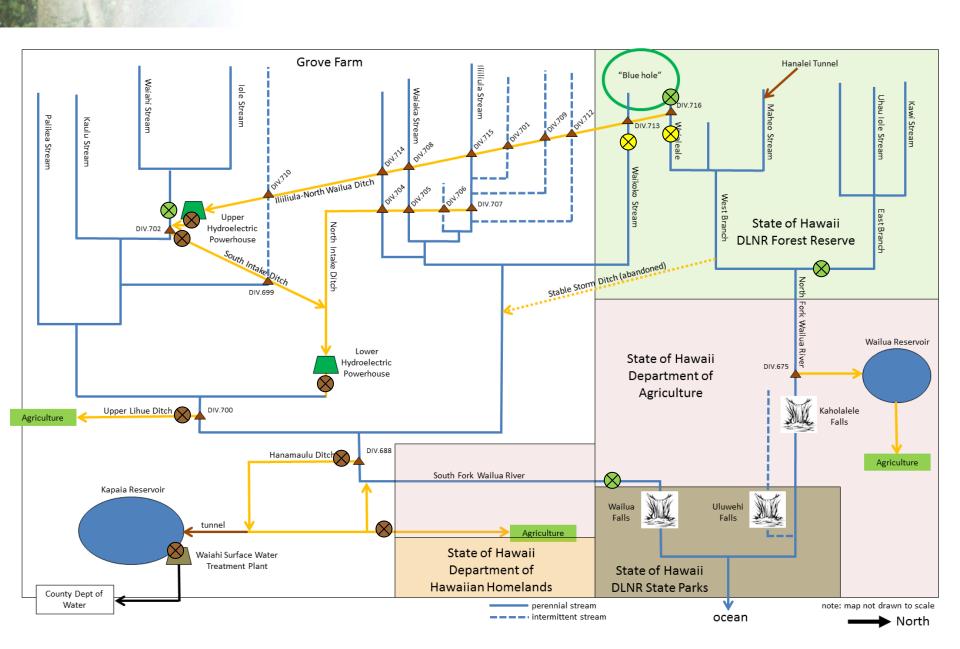


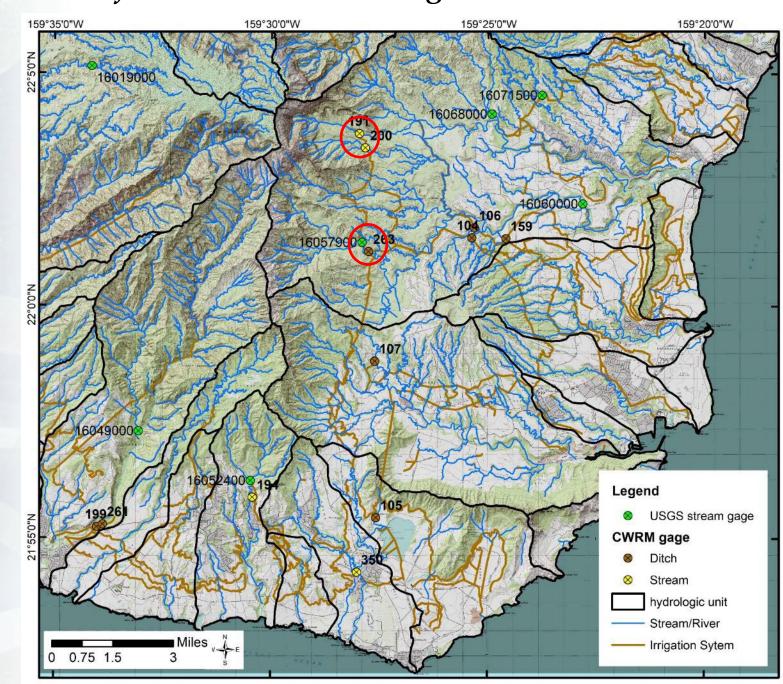
Surface Water Monitoring in SE Kaua'i



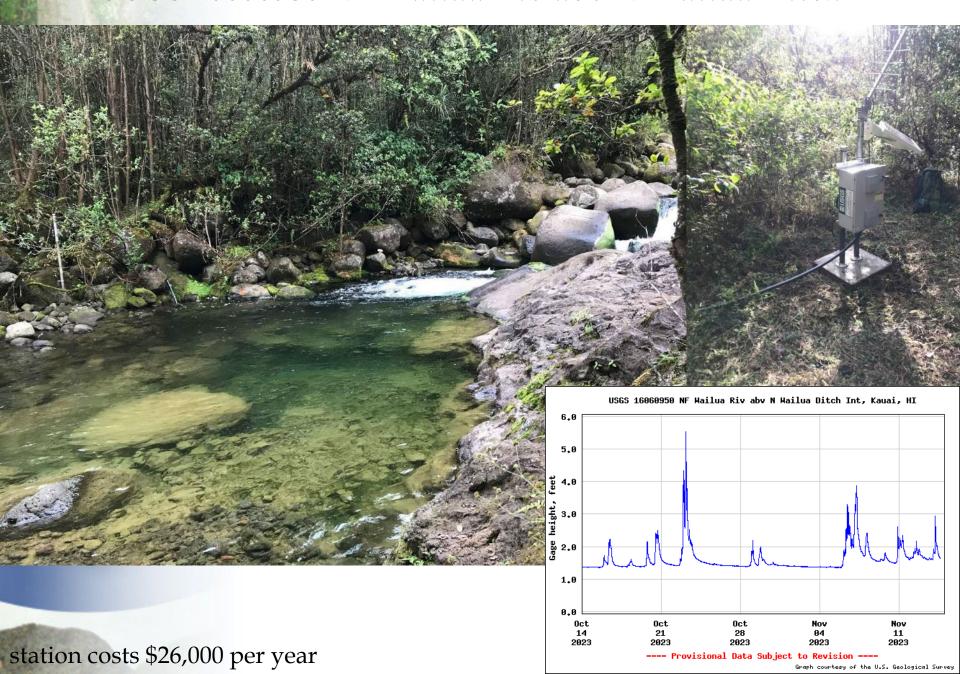




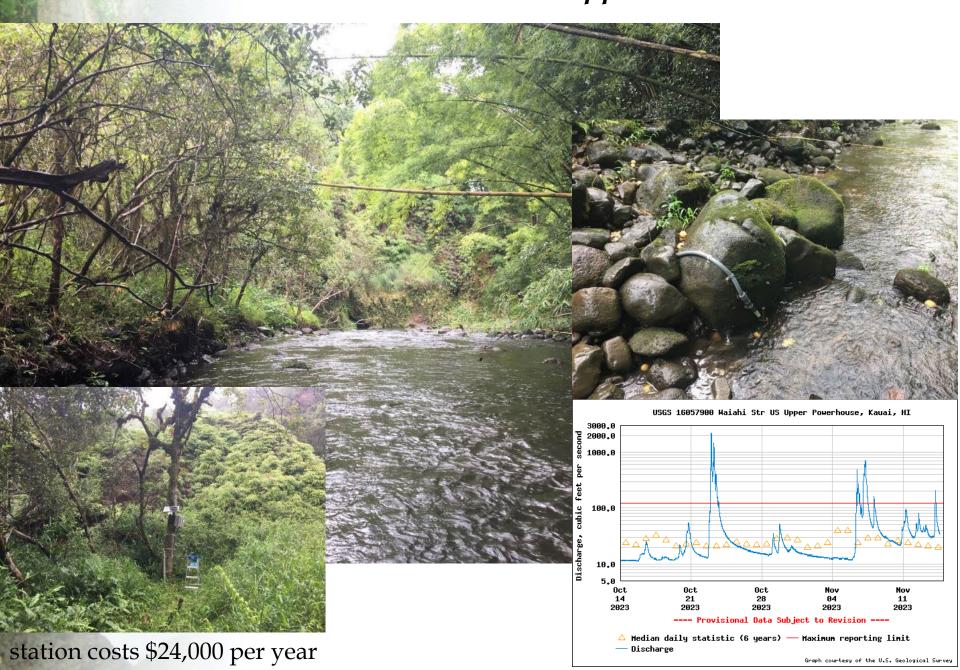




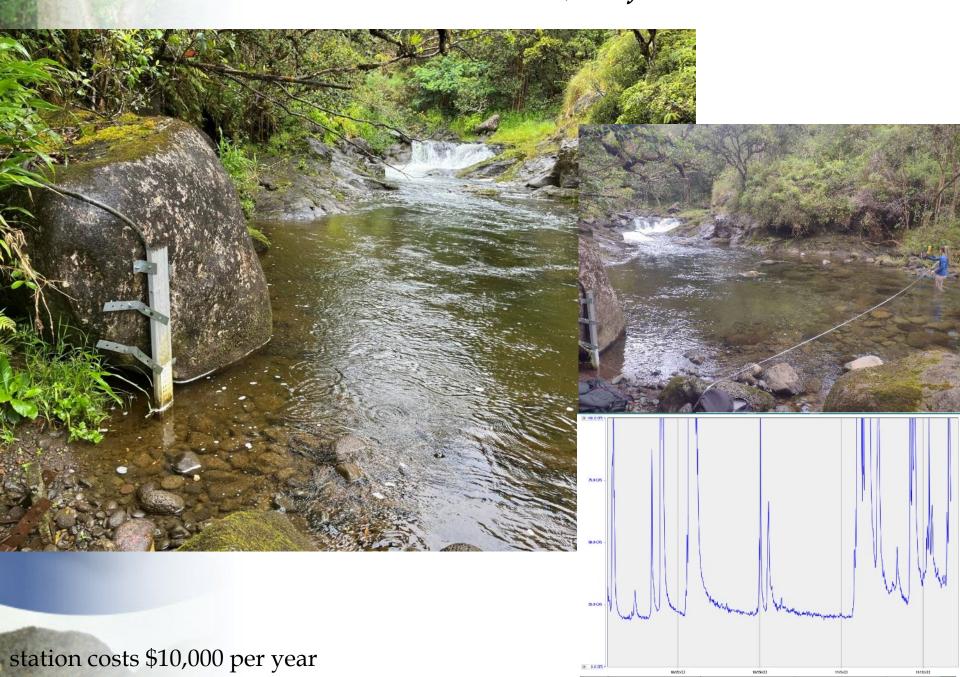
USGS 16060950 NF Wailua Riv abv N Wailua Ditch



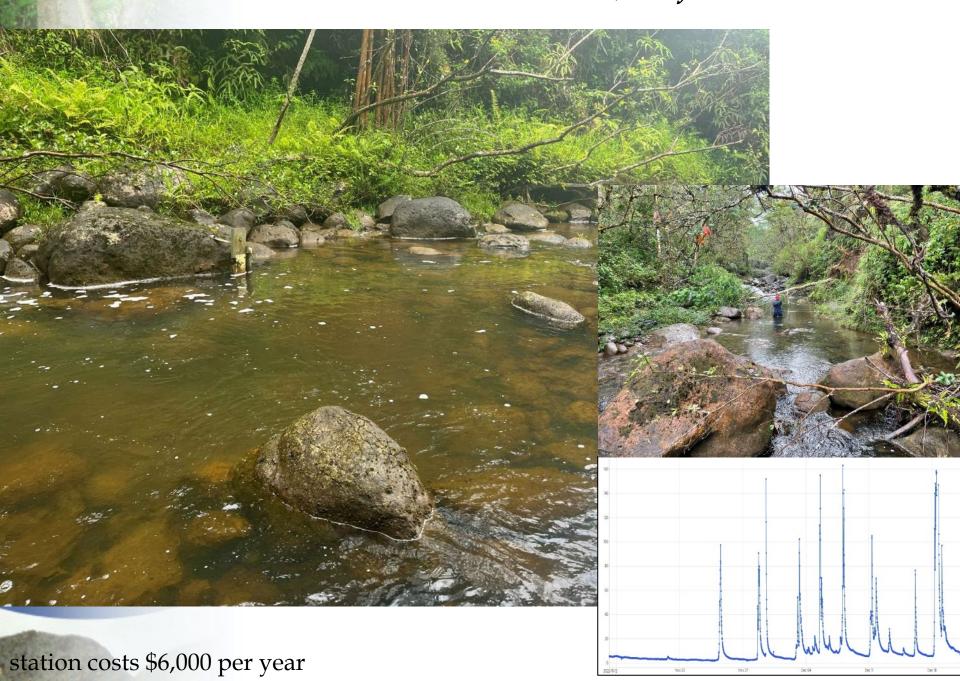
USGS 16059700 Waiahi Str US Upper Powerhouse



CWRM 2-191 NF Wailua at 1,080 ft elevation

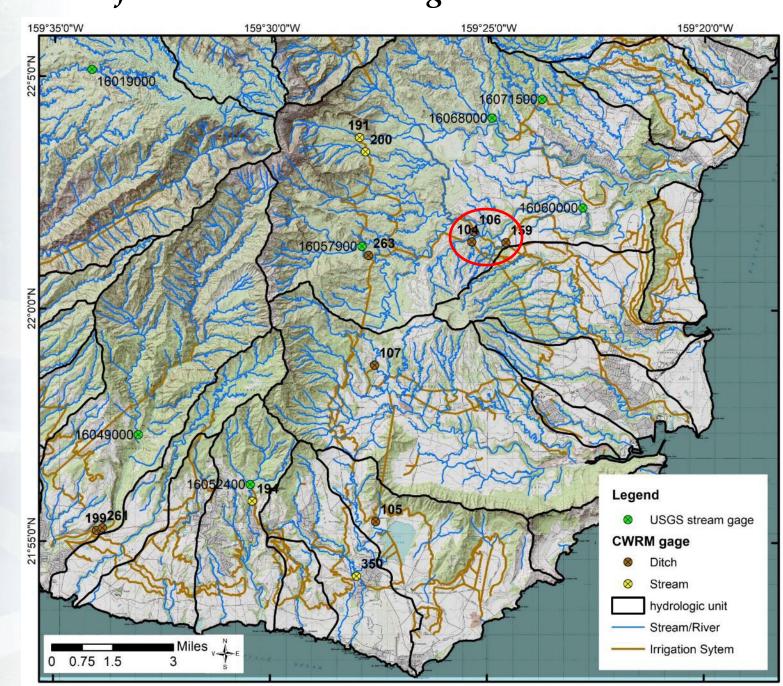


CWRM 2-200 Waikoko Stream at 1,100 ft elevation



CWRM 2-263 South Intake Ditch

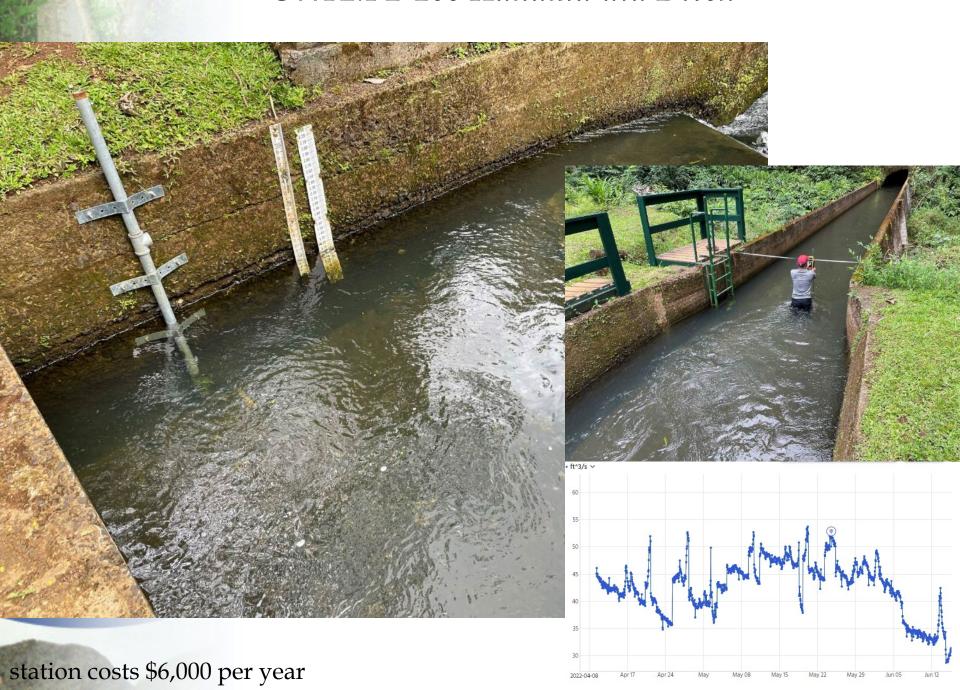




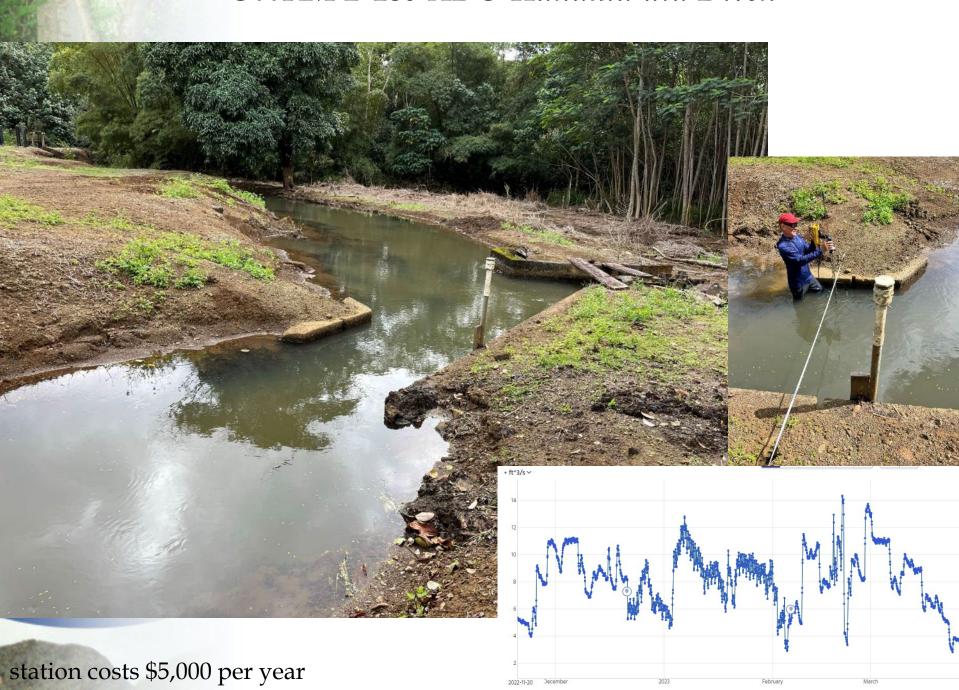
CWRM 2-104 Upper Līhu'e Ditch



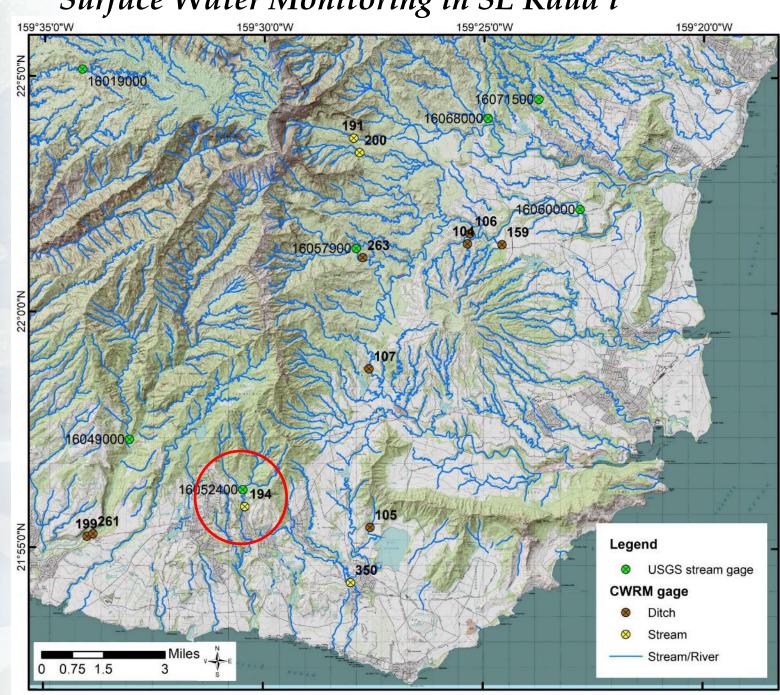
CWRM 2-106 Hanamā'ulu Ditch



CWRM 2-159 ADC-Hanamā'ulu Ditch



Surface Water Monitoring in SE Kaua'i





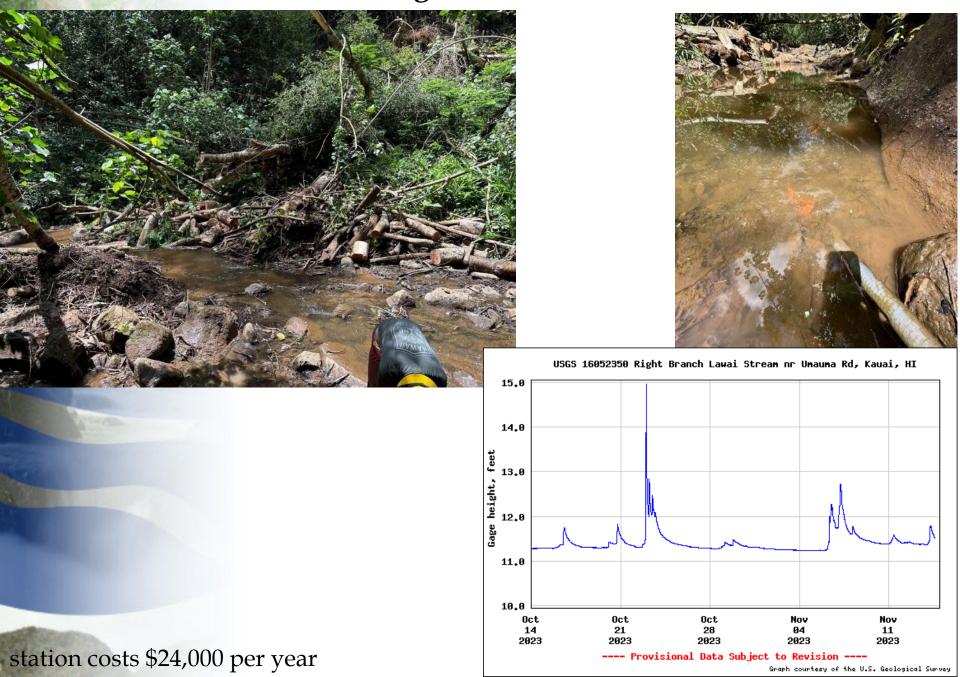
Modifications to Lāwa'i Ditch Intake



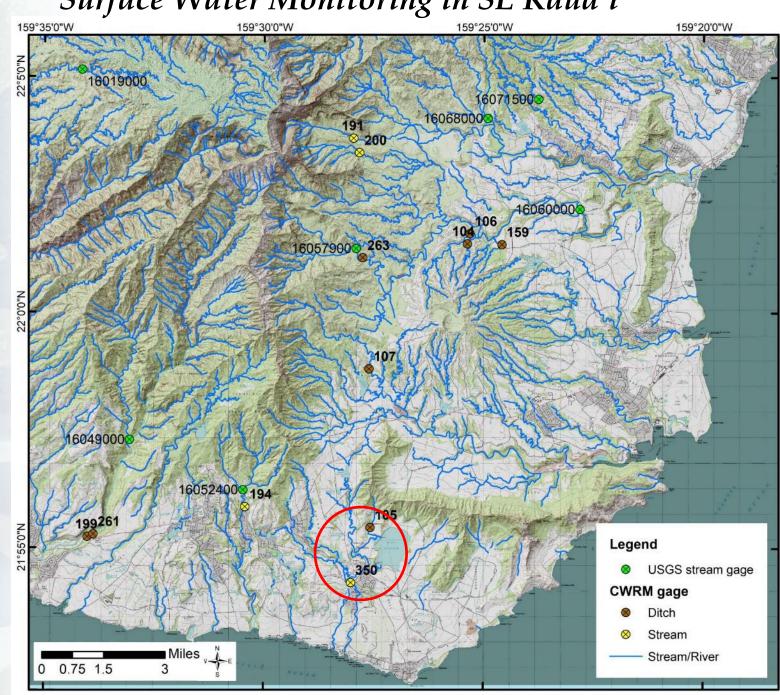
CWRM 2-194 Lāwa'i Stream below Lāwa'i Ditch



USGS 16052350 Right Branch Lāwa'i Stream



Surface Water Monitoring in SE Kaua'i

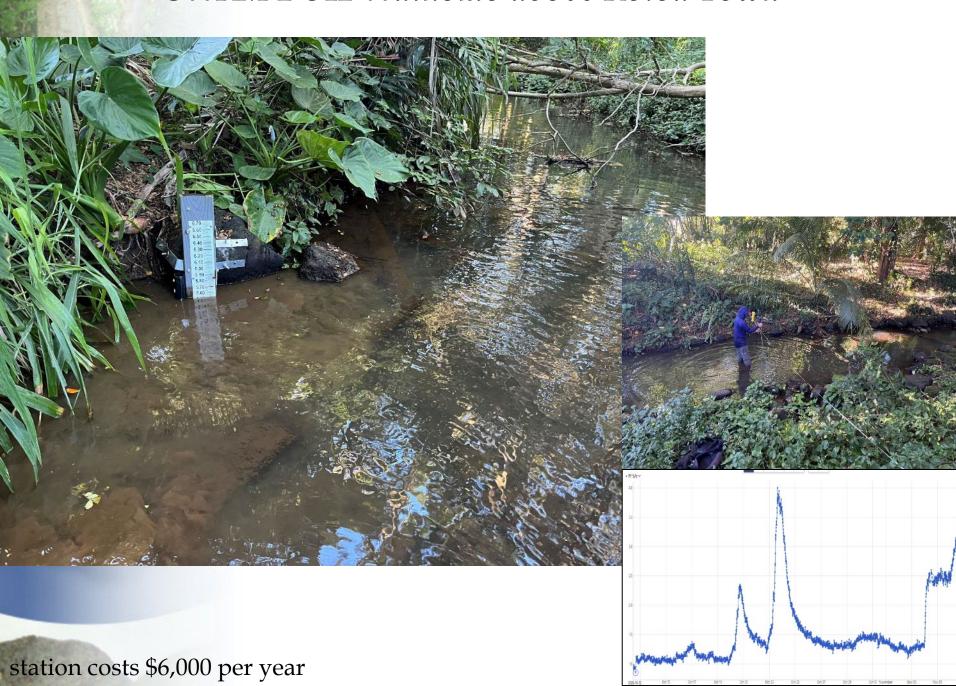




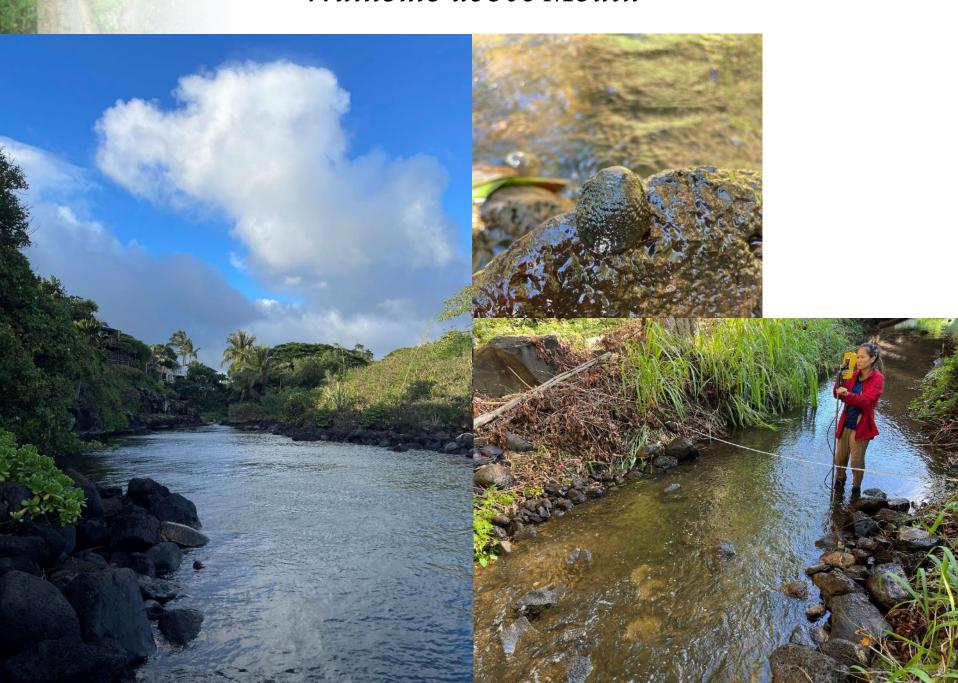
CWRM 2-105 Waita Ditch abv Waita Reservoir



CWRM 2-342 Waikomo above Kōloa Town



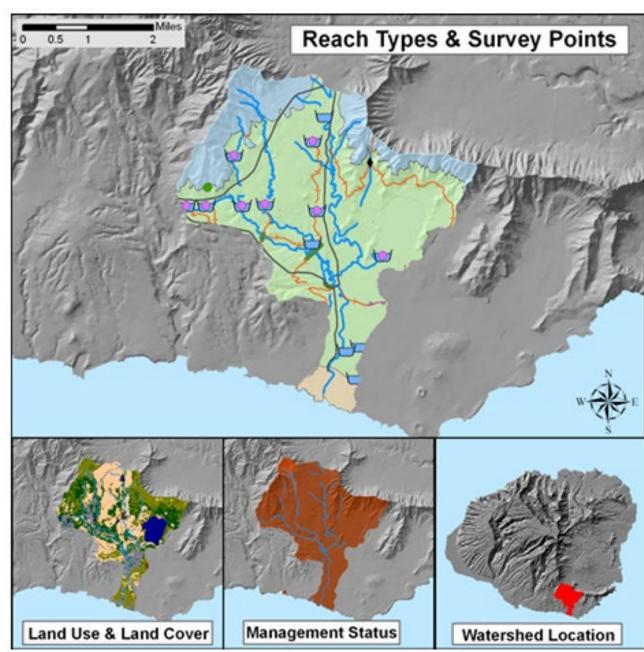
Waikomo above Mouth

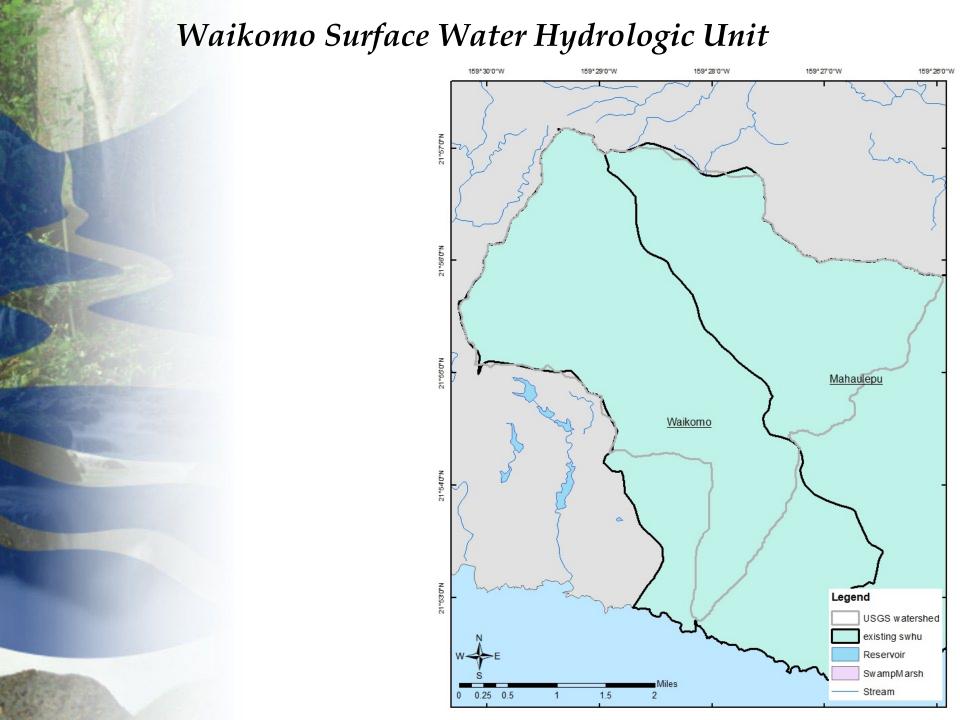


Waikomo Surface Water Hydrologic Unit 159°24"\ ~ Lawa (2051) Huleia (2046) Kipu Kai Mahaylepu (2048) Waikomo (2049) Aepo (2050) Miles Legend 159°40'0"W 159°20'0"W 159°30'0"W Surface Water Hydrologic Units contour (500 ft) Waterbody Estuary LakePond; Reservoir SwampMarsh 1590 ft

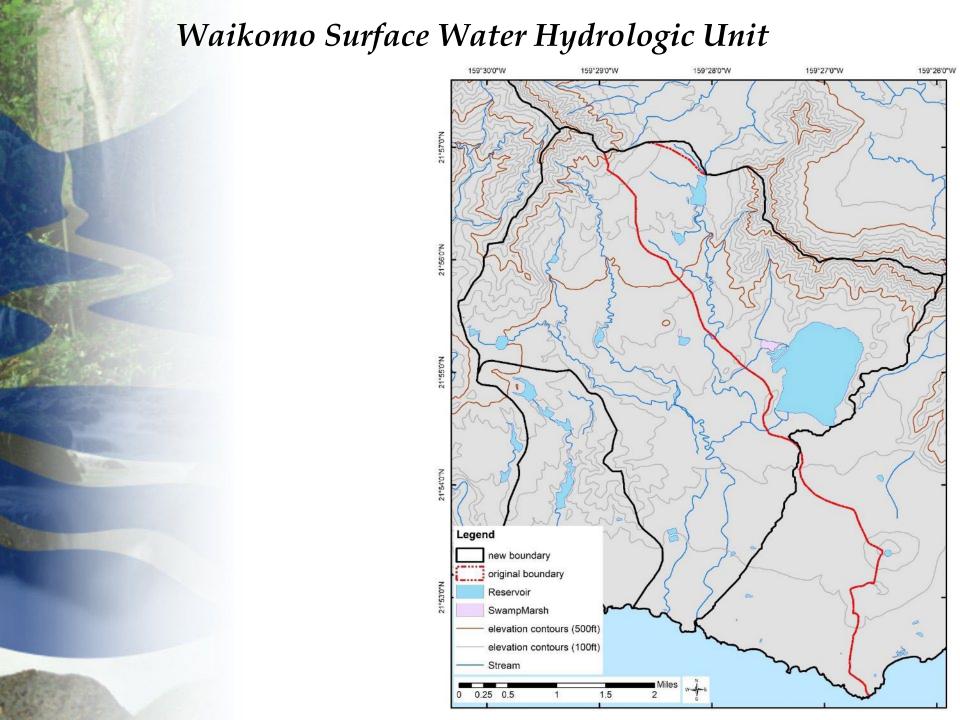
Waikomo USGS Watershed Boundary 159°29'0"W 159°27'0"W 159°26'0"W 559 567 21°55'0"N 590 21°54'0"N 722 591 598 725 718 719 Legend USGS watershed Reservoir SwampMarsh elevation contours (500ft) elevation contours (100ft) 0.25 0.5 1.5 Stream

Waikomo DAR Watershed Boundary





Waikomo Surface Water Hydrologic Unit Haʻikū



Southeast Kaua'i Next Steps

2024

- Reevaluation of Wailua Hydrologic Data
- Waikomo Hydrologic Unit Boundary
- Waikomo IFSAR Development

Wailua interim IFS recommendations Waikomo interim IFS recommendations