

By Jolie Wanger (University of Hawaii Sea Grant), **With** Carol Wilcox & Alyssa Miller (Mālama Maunalua)



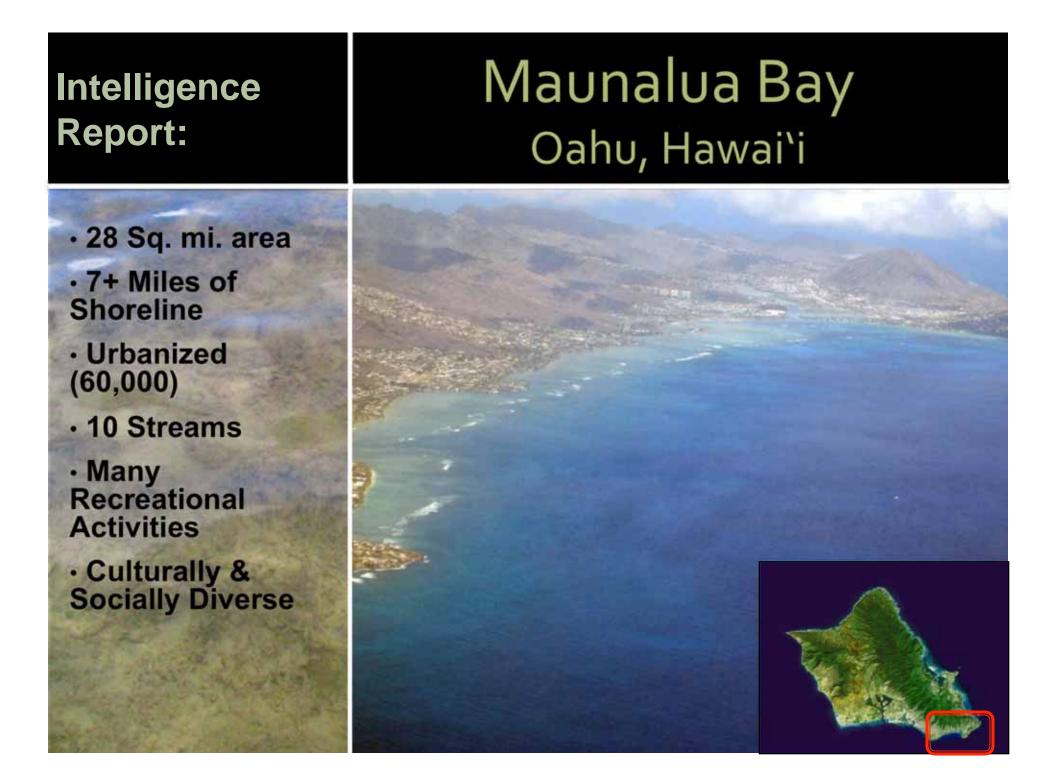


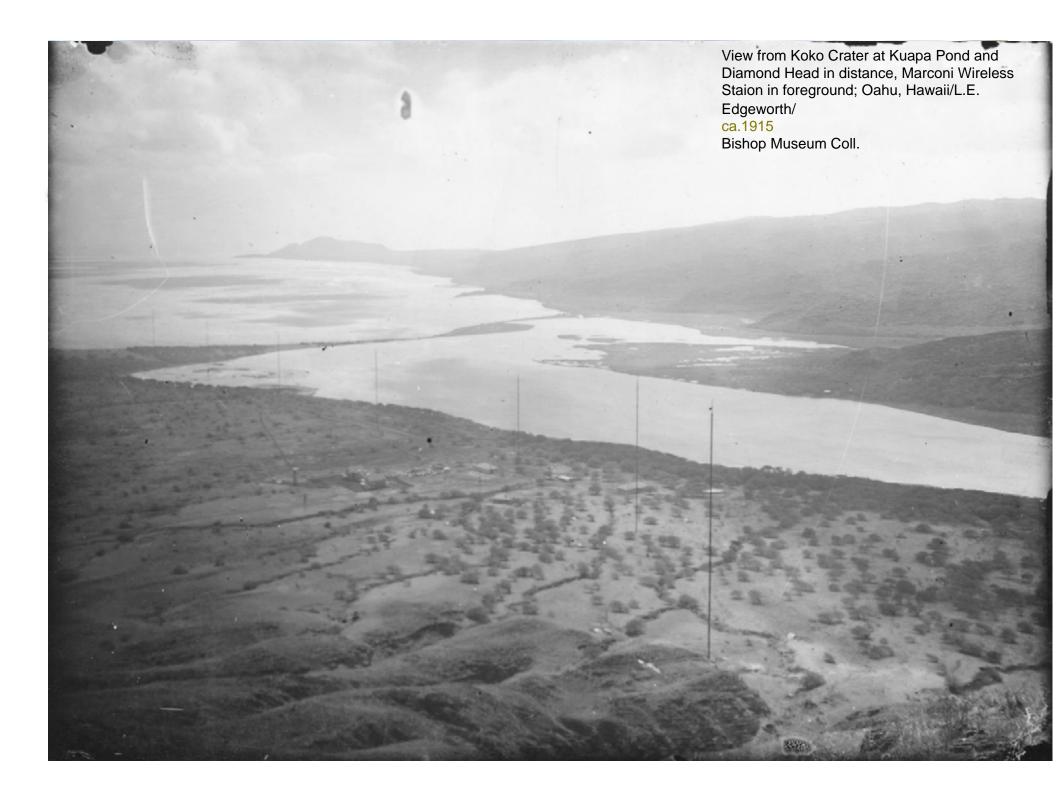
UNDERCOVER MISSION

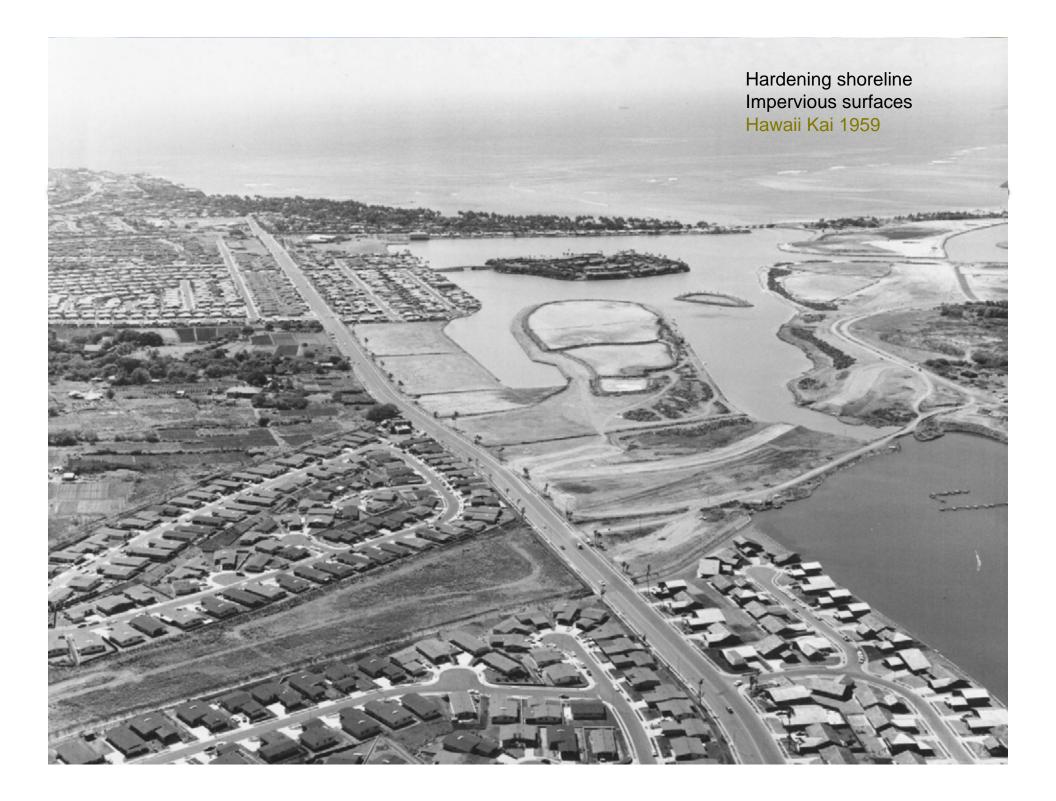
CLASS Assist Mālama Maunalua, a community-based organization with defining and implementing its watershed objectives.

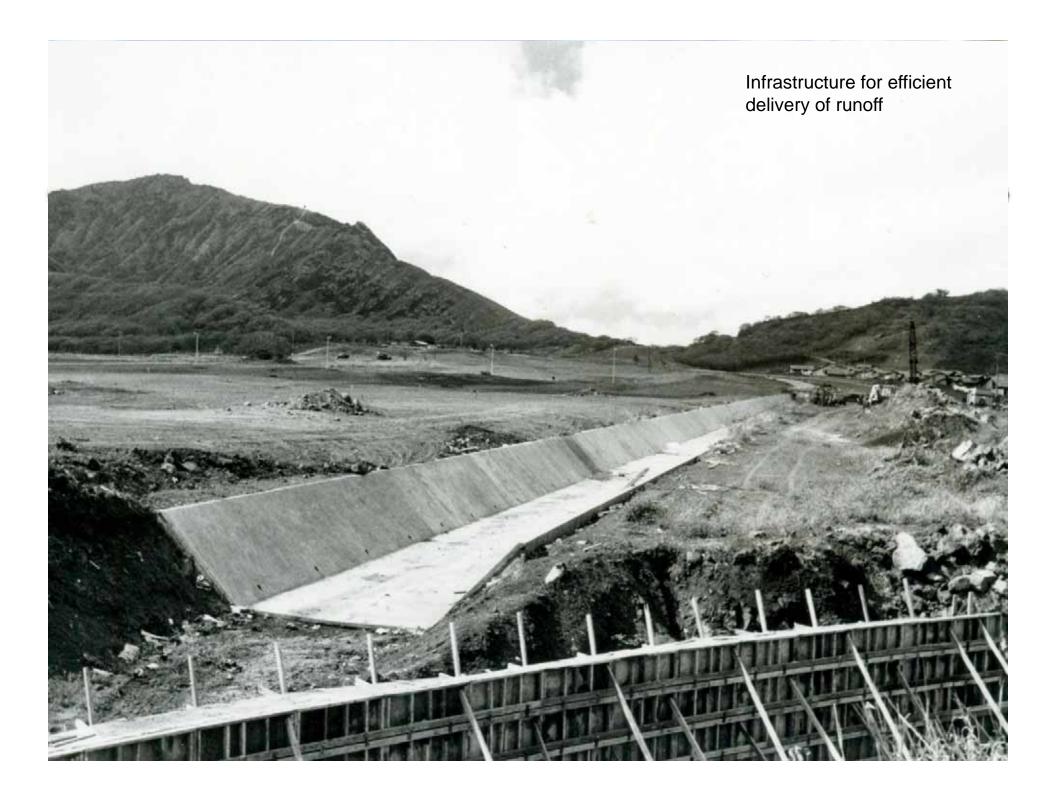






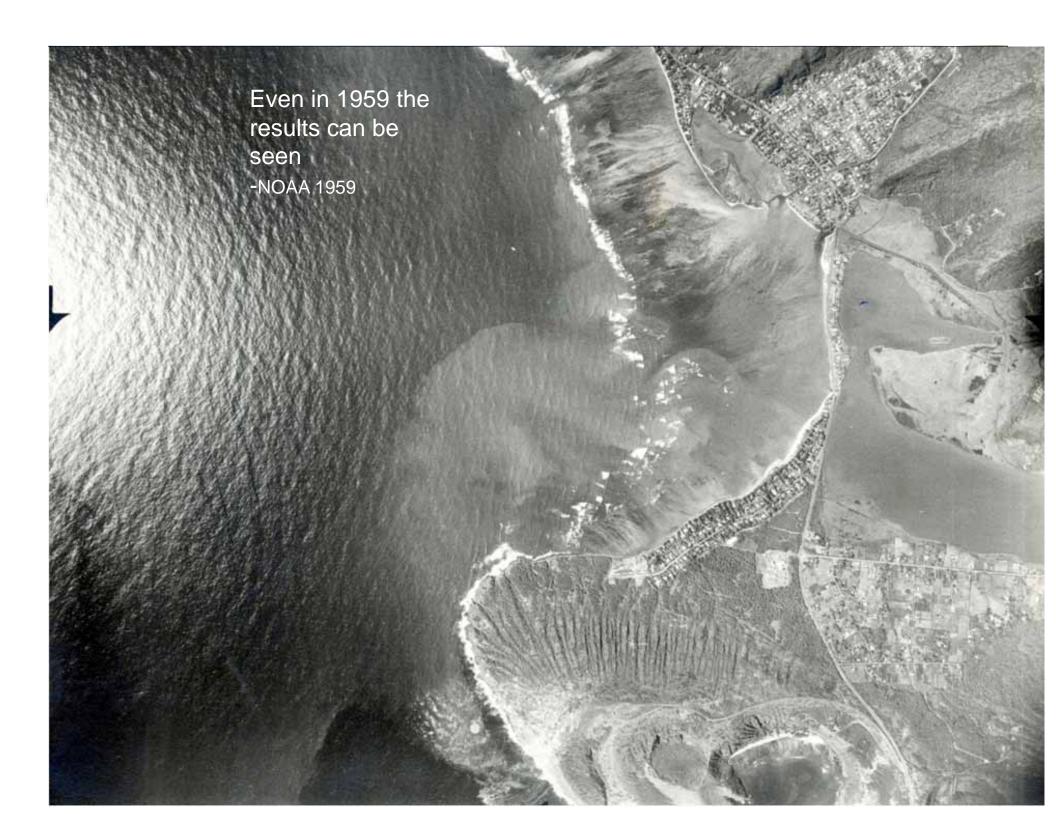






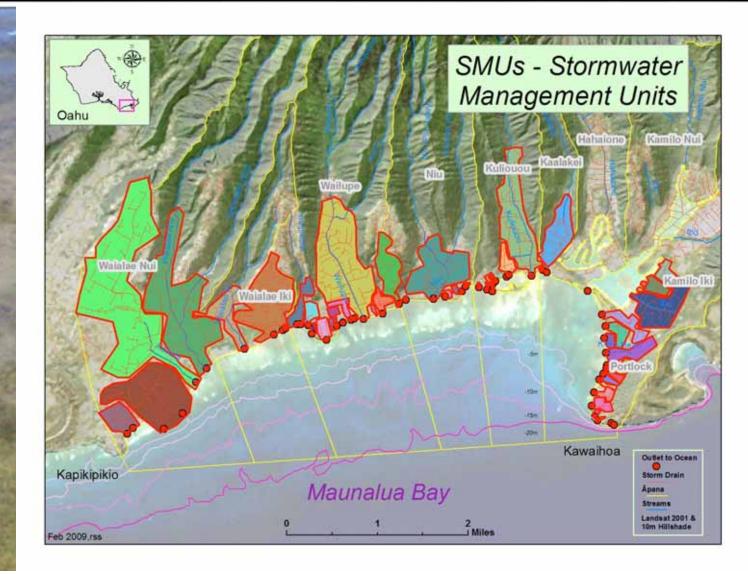








Plumbed Watersheds





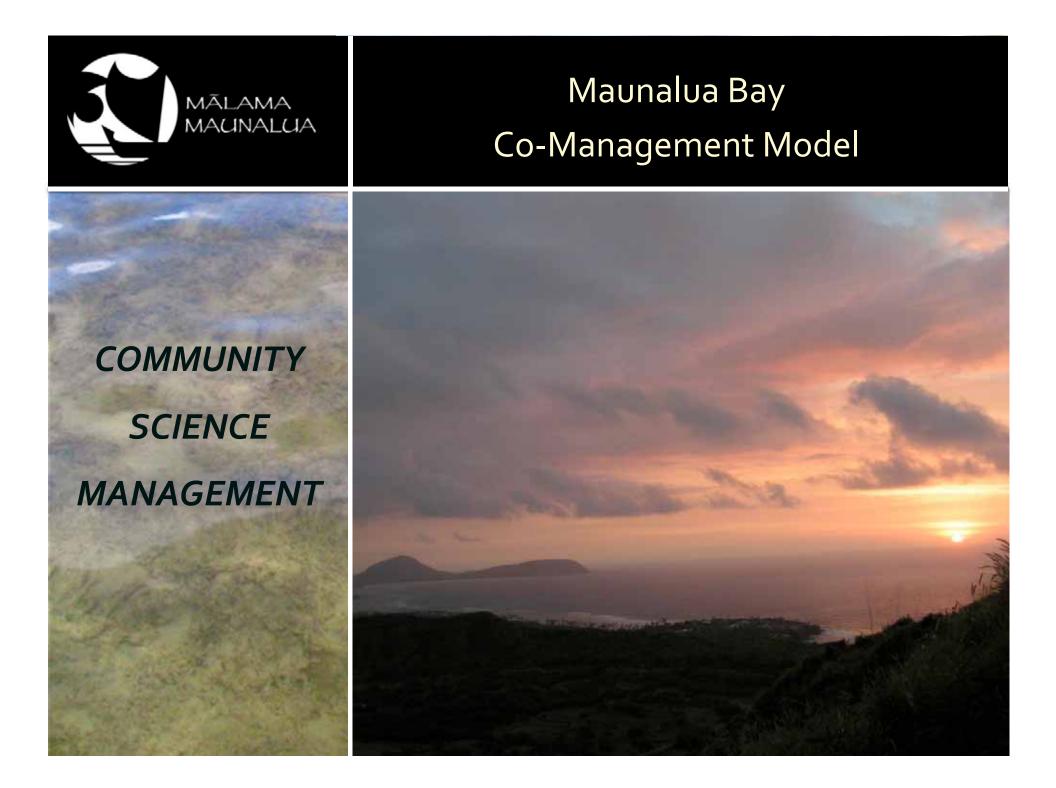
Mālama Maunalua's Mission:

MULTIPLE PARTNERS:

COMMUNITY SCHOOLS CHURCHES SEA GRANT TNC NOAA USACE DLNR USEPA DOH C&COFHONOLULU USGS **CASTLE FOUNDATION** PACIFIC MARINE LIFE FOUNDATION HUI NALU PVS NRCS WHOLE FOODS **UH-KEWALO USFWS**

To Conserve and Restore a Healthy and Productive Maunalua Bay through Community Kuleana

Vision: A Maunalua Bay where marine life is abundant, the water is clean and clear, and where people take kuleana in caring for the Bay

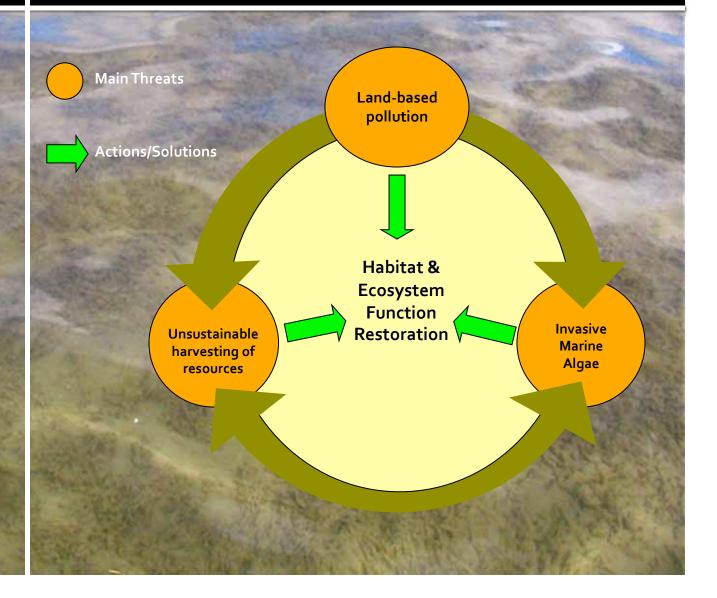




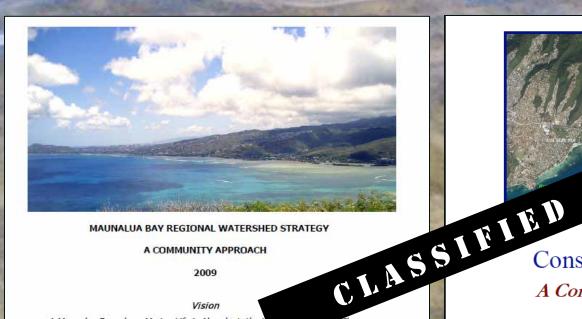


The Three-Legged Stool

Systemic problems require comprehensive solutions



TWO GUIDING DOCUMENTS



MAUNALUA BAY REGIONAL WATERSHED STRATEGY

A COMMUNITY APPROACH

2009

Vision

A Maunalua Bay where Marine Life is Abundant, the and People take Kuleana in Caring for





Maunalua Bay **Conservation Action Plan** A Community's Call to Action



The Mālama Maunalua Vision: A Maunalua Bay where marine life is abundant, the water is clean and clear, and people take kuleana in caring for the Bay.

September 2009

Comprehensive Strategy

MALAMA

The Nature Conservancy

Inventory & Understand Problems

Kuleana: Reconnect residents w/place

Provide Tools and Opportunity for Community Restoration Partnerships for

Management

4.7 acres cleared or 342 tons of invasive algae have been removed as of May 27, 2010

MAUNALUA

PONO

PACIFIC

NOAA



Inventory & Understand Problems

land-based sediment and pollution is killing the Bay

Small, urbanized watersheds with high percent impervious cover = Efficient delivery system.

Invasive alien algae thrives in/ holds sediment

Unsustainable harvesting reduces ability of grazers to manage algae.

What the Community Has Learned



Community

Inventory & Monitoring

Community continues to monitor and inventory:

✓ Nearshore fish, invertebrates and sea grass cover.

✓ Watersheds

✓ Water Quality

✓ Rainfall

To help inform management decisions



Kuleana

- ✓ Community "Huki"Events
- ✓ Algae composting
- ✓ Makai Watch –
 Reporting &
 Compliance
- ✓ School servicelearning programs.
- ✓ Building recognition and awareness for Maunalua region
- ✓ Support for other community efforts

Reconnecting residents with place



Display Data & Info on the Web so people can:

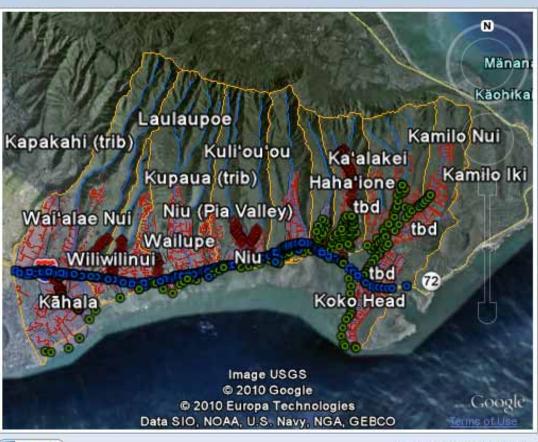
✓ Spy on their neighbors

 ✓ Find their house and zoom in to their closest storm drain to trace where their runoff empties into the Bay

✓ Track water quality and rainfall data over time.

✓ See the full range of MM activities in space

Infiltrating the Community With Tools & Information



Embedded KML Viewer

🔁 Google

Gadgets powered by Google

Workshops for Industry and Community

Land Use decisions in Maunalua will focus on property management.

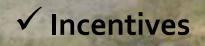
✓ CommercialCenters

✓ Multi-familyResidences

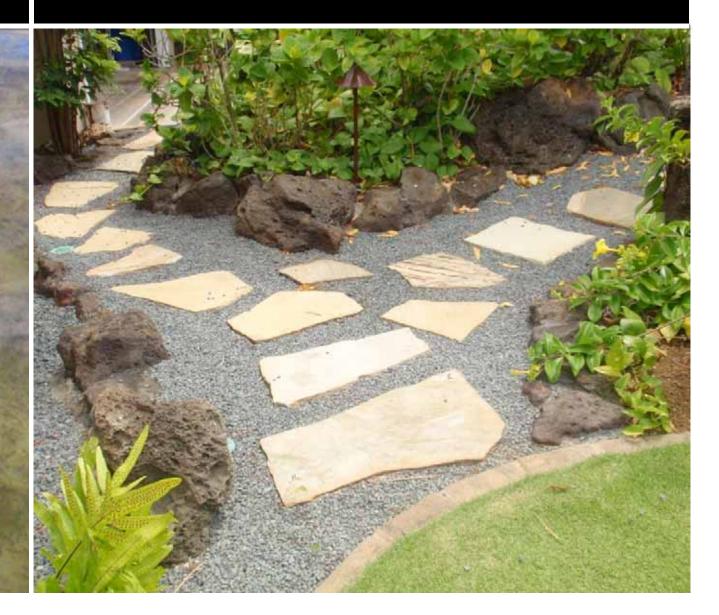


✓ Train VolunteerAmbassadors

✓ Offer Home
 Assessments as a
 Community
 Service



Healthy Watershed Ambassador Program

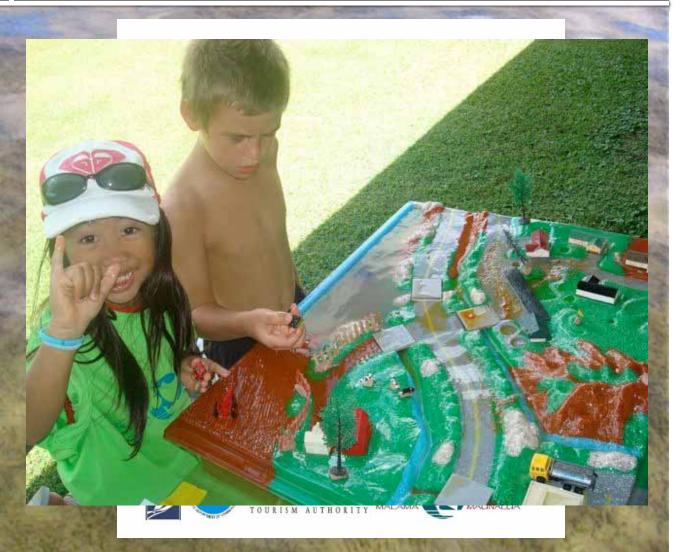


Young Ambassadors in Schools

Learn About Runoff On Their School Property

Assess Runoff At Home As Homework

Assess A Neighborhood Using Survey & Google Earth Tools



Demonstration Projects

Looking to partner with local agencies, schools or landowners to install highly visible demonstration projects

Example: Boat ramp washdown-water flows directly to Bay



Partnerships for Management



Mahalo

