East Molokai Watershed Partnership
EMoWP

Role: Sustain and or Improve Native Watersheds through specific management actions

Ungulates Control – Fencing, Hunt Sweeps, Aerial Shooting

Weed Control –Weed Removal Sweeps & Prevention of New Introductions

Wildland Fire Prevention and Preparation (MFTF)

Monitoring or measuring – MUM, USGS Ridge to Reef

Outreach – Earth Day, Nature's Newsflash, Ahupuaa meetings

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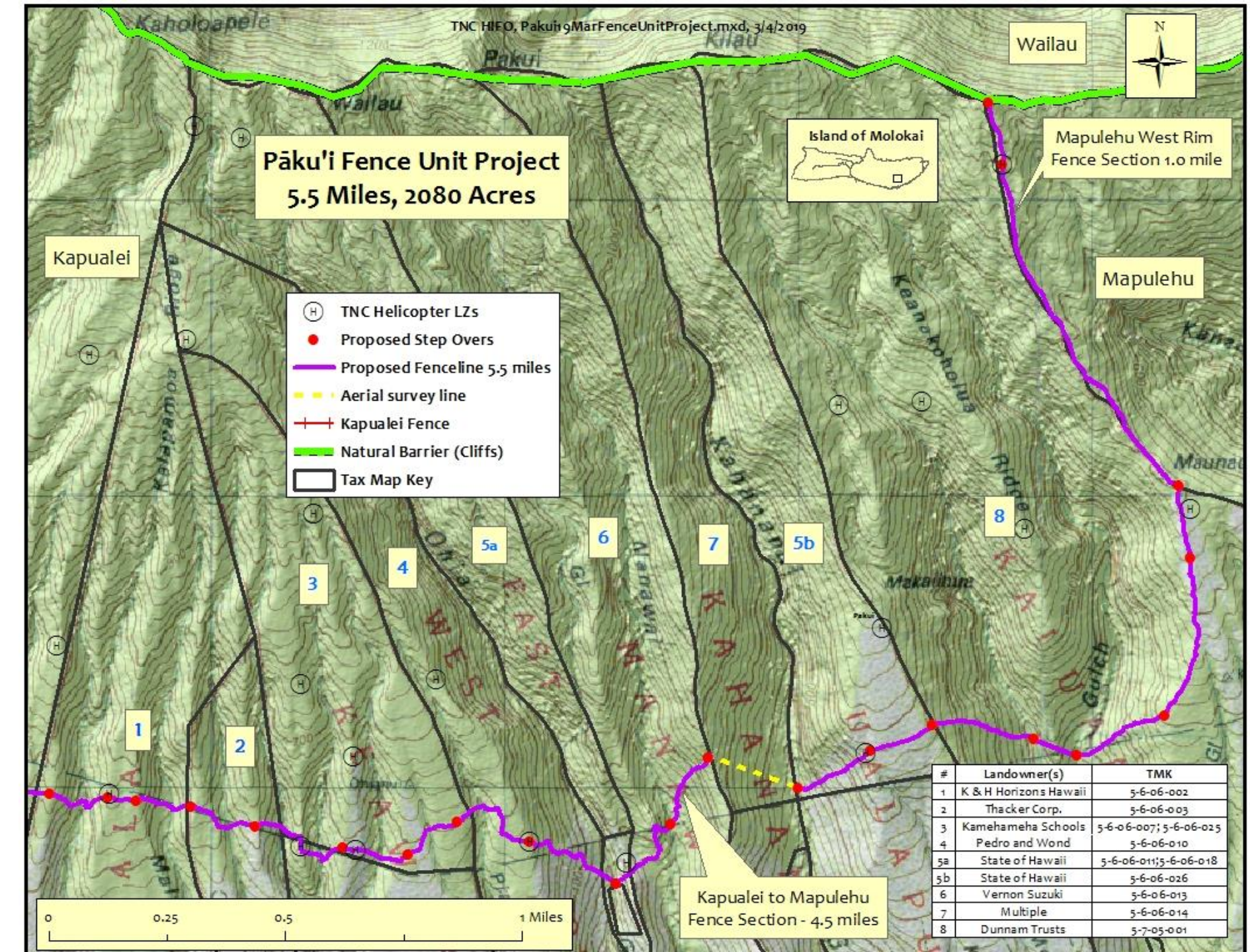
EMoWP Legend
- Existing Fences (30 miles)
- TMK2012_Jan
- EMoWP North Slope (Multiple Lead
- EMoWP South Slope (TNC Lead)
- EMoWP East Slope (TNC Lead)
- Marine Systems

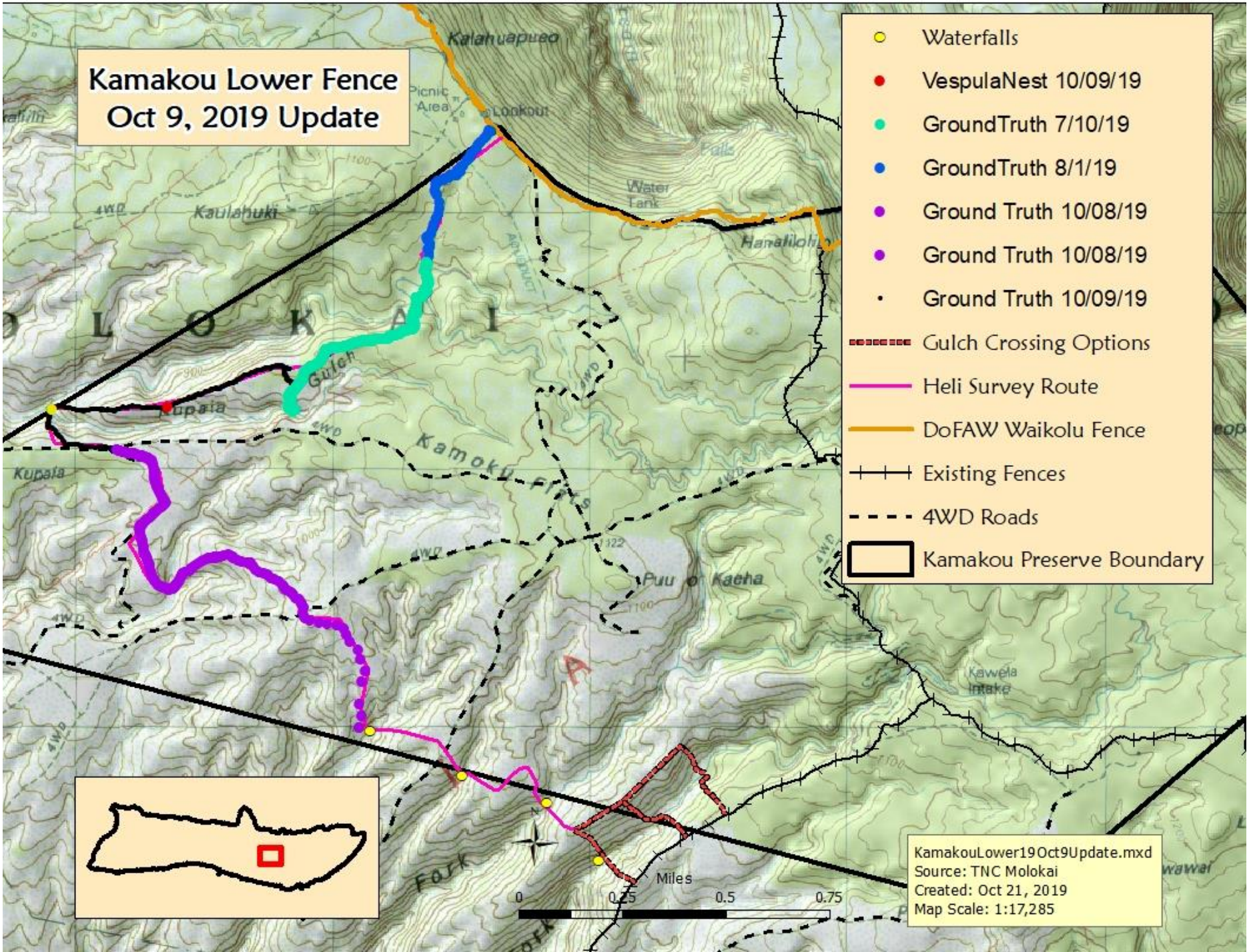
Miles
0 1 2

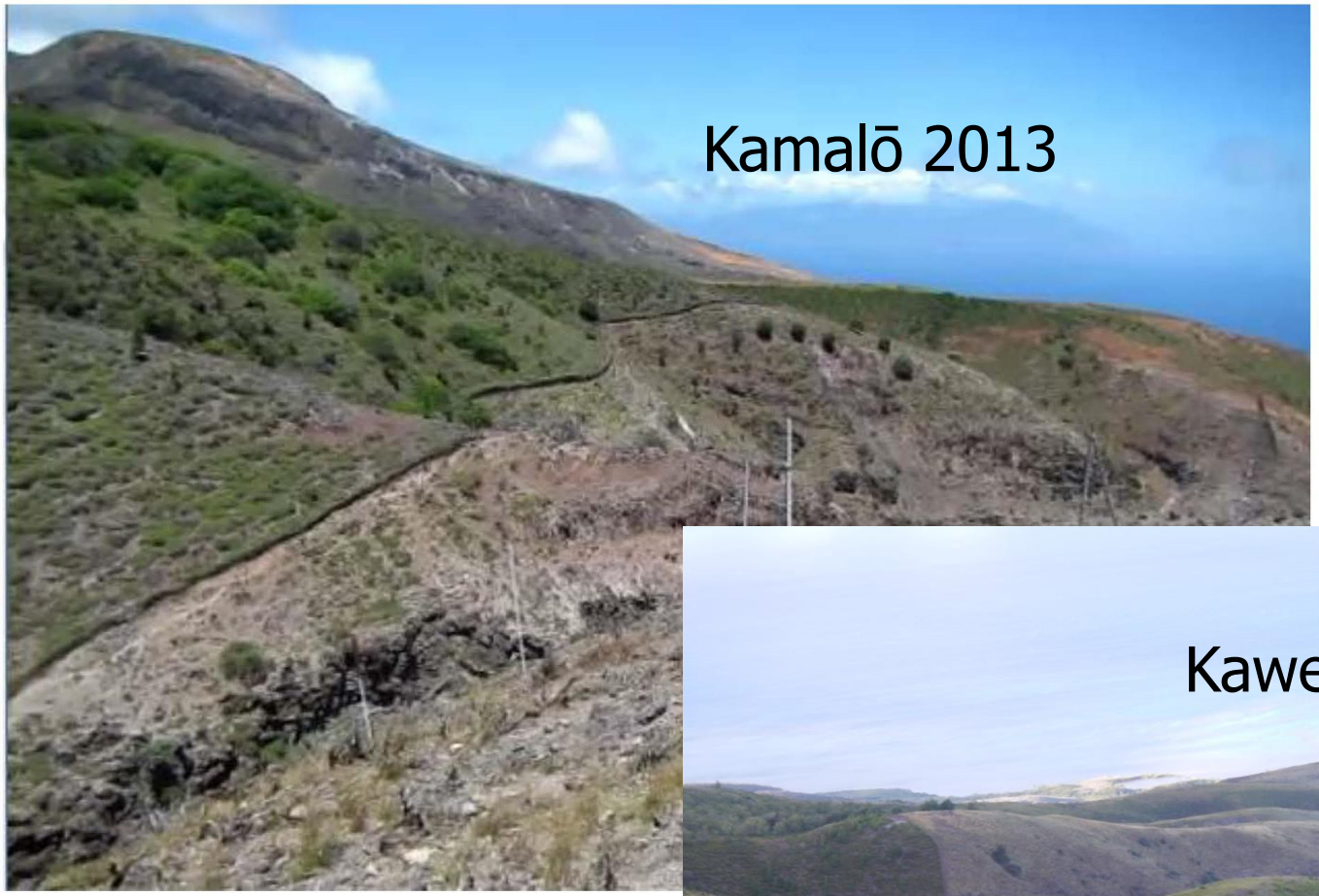
01/2015 EMoWP15AllSlope.mxd WM, HIFO, HI

RECEIVED AT WIT MEETING ON 2/21/2020
Ed Misaki
The Nature Conservancy



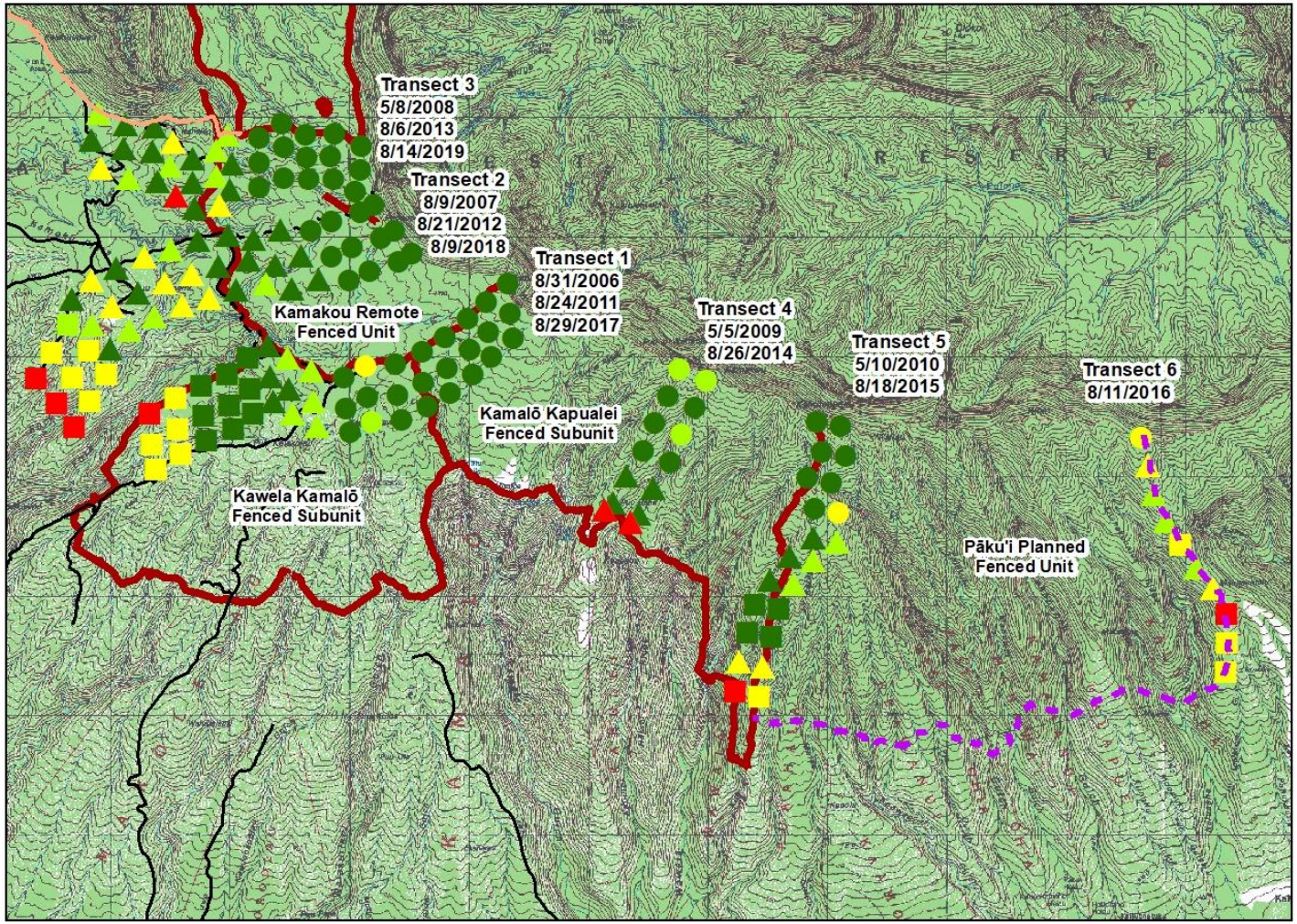
#	Landowner(s)	TMK
1	K & H Horizons Hawaii	5-6-06-002
2	Thacker Corp.	5-6-06-003
3	Kamehameha Schools	5-6-06-007; 5-6-06-025
4	Pedro and Wond	5-6-06-010
5a	State of Hawaii	5-6-06-011;5-6-06-018
5b	State of Hawaii	5-6-06-026
6	Vernon Suzuki	5-6-06-013
7	Multiple	5-6-06-014
8	Dunnam Trusts	5-7-05-001


Kamakou Lower Fence
Oct 9, 2019 Update
Waterfalls
VespulaNest 10/09/19
GroundTruth 7/10/19
GroundTruth 8/1/19
Ground Truth 10/08/19
Ground Truth 10/08/19
Ground Truth 10/09/19
Gulch Crossing Options
Heli Survey Route
DoFAW Waikolu Fence
Existing Fences
4WD Roads
Kamakou Preserve Boundary
Kalahuapueo
Picnic Area
Lookout
Water Tank
Kaulahuki
Gulch
Kupaia
Kamoku Flats
Puu o Kacha
Kawela Intake
Miles
0
0.25
0.5
0.75
KamakouLower19Oct9Update.mxd
Source: TNC Molokai
Created: Oct 21, 2019
Map Scale: 1:17,285


Kamalō 2013


Kawela 2017

Molokai Understory Monitoring (MUM) Summary Map



Structures

- Pāku'i Funded Fence
- DoFAW Fence in Progress
- Existing Fences

Vegetation Types

- Wet Forest
- Mesic Forest
- Mesic Shrubland
- Trails
- 4WD Roads

Created: Sep 27, 2019
Map Scale: 1:51,000
Data Sources: TNC Molokai
File: MUMSumMap4.mxd

N

Map Scale
1:51,000

0 500 1,000
m

Island of Molokai

Area of Interest

The Nature Conservancy
Protecting nature. Preserving life.®

INTEGRITY CRITERIA FOR TERRESTRIAL VEGETATION COMMUNITIES

Vegetation Rank	Very Good	Good	Fair	Poor
Understory Condition Cover composition of native plants below canopy layer	> 90% of existing cover is native	90% - 75% of existing cover is native	74% - 50% of existing cover is native	< 50% of existing cover is native

By Tony Kimmet, NRCS

Instigated by Stephanie Tom, TNC

For Ed Misaki, TNC

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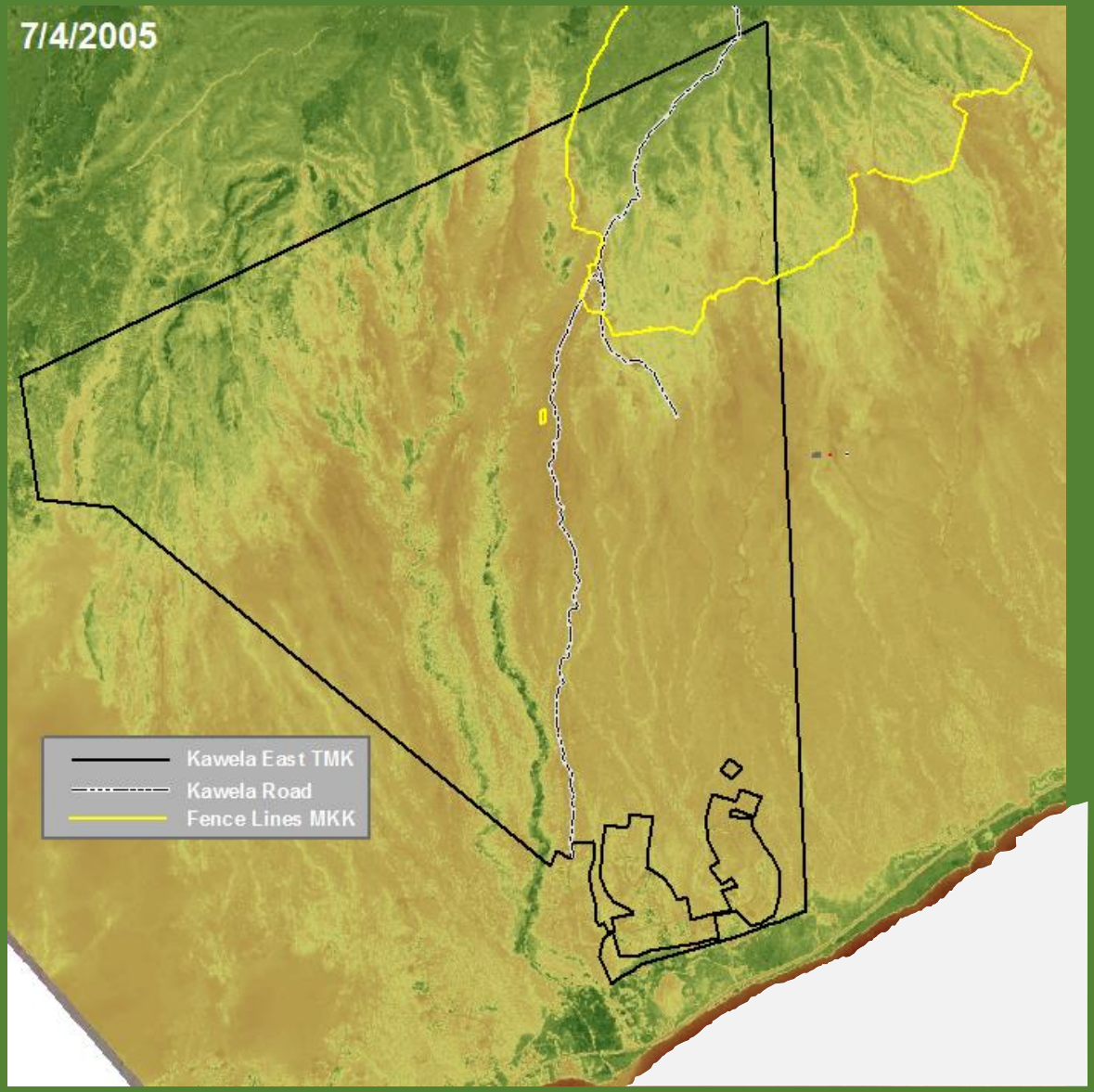
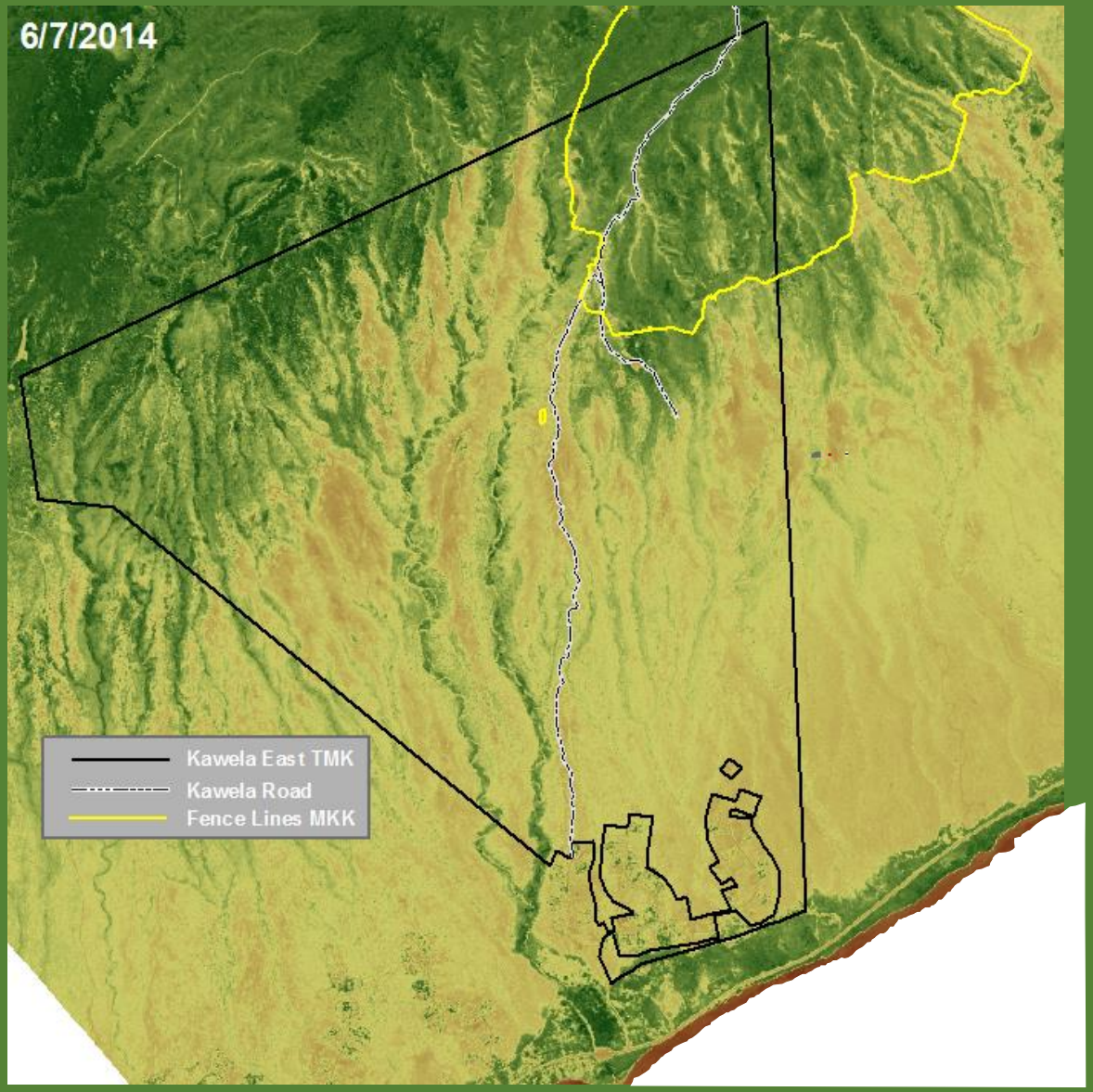
Kawela, Moloka‘i
NDVI Imagery Analysis

The Nature Conservancy



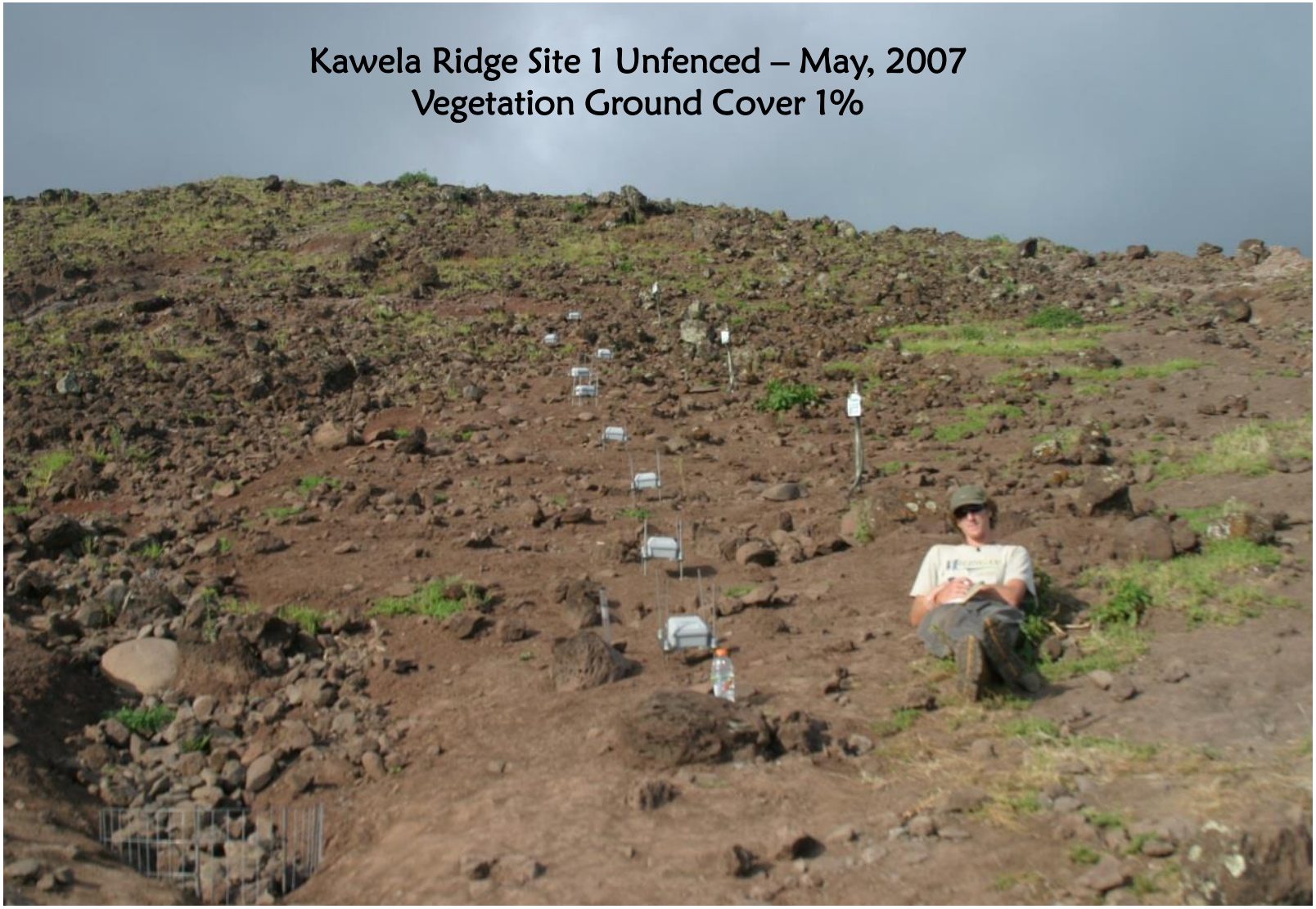
Kawela, Moloka‘i
NDVI Imagery Analysis



USGS science for a changing world

From Ridge to Reef—Linking Erosion and Changing Watersheds to Impacts on the Coral Reef Ecosystems of Hawai'i and the Pacific Ocean

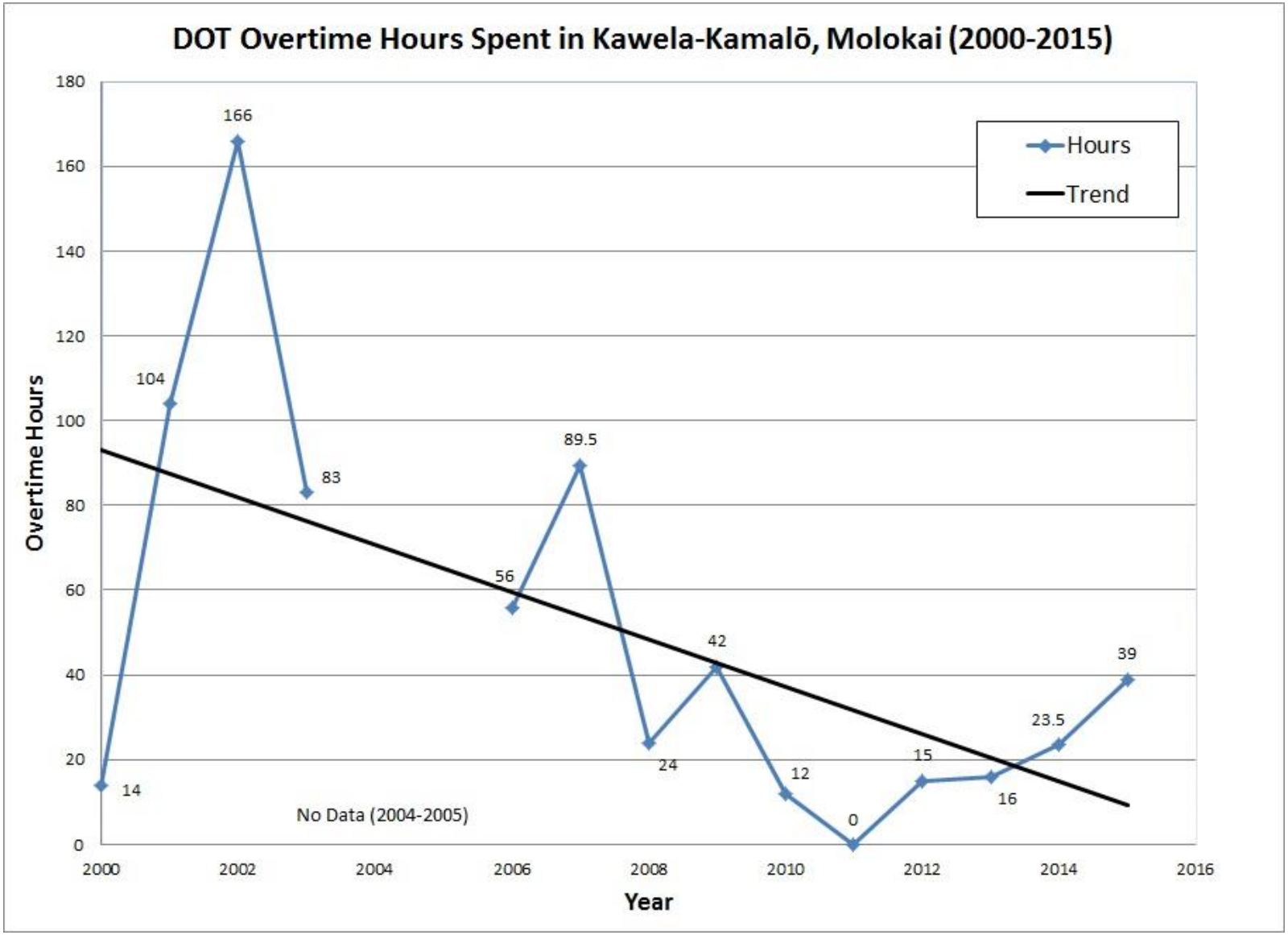

USGS 2013 Summary Report
2009
Less that 1% Veg Cover
0.4 inches soil loss to erosion
6 tons per year from site goes into the ocean.
2013
75% Veg Cover!
.04 inches soil loss or 10 fold decrease!
Less that 2 tons per year!


Kawela Ridge Site 1 Unfenced – May, 2007
Vegetation Ground Cover 1%

Kawela Ridge Site 1 Unfenced - February 2014
Vegetation Ground Cover over 70%

Site data has shown that **erosion decreased 10 fold** from 2007 to 2013, and through scientific modeling, this results in the decrease of sedimentation into the ocean via Kawela stream from **over 6 tons per year in 2007**, to **less than 2 tons per year in 2013!**

Public Safety and Economic Benefits



Strongly encourage Water Resource Committee members to "see for yourselves" the watershed areas we are charged with managing.

I speak for all the partnerships when I say "come visit our sites, we will be happy to take you and show you how important the funding is that you provide for us!" Thank you for your unwavering support.

Our future in Maui Nui is tied to our high quality water supply!