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PONC STEWARDSHIP GRANT 2016 Waipi'o Valley Lookout Parcel, TMK: 4-8-04:06 Final Report

Date: March 31st, 2017

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Introduction

The completion of the first year of the first Hawai'i County Public Open Spaces and Natural Resource Commission (PONC) Maintenance Grant for the Waipi'o Valley Lookout PONC parcel (aka former Thomas or Rice Property) has been a humble honor for Pōhāhā I Ka Lani, as our organization's founder has genealogical and deep cultural ties to Waipi'o Valley. The Waipi'o Valley community, Pōhāhā I Ka Lani, and Hawai'i County & its constituents can have taken the first strides in the public initiative started to preserve valuable Hawai'i County land assets for public "outdoor recreation and education"¹.



The Waipi'o Valley PONC Lookout parcel, which Pōhāhā I Ka Lani refers to as Koa'ekea being the traditional cultural place name, is of significant importance to Waipi'o Valley, the surrounding Kukuihaele & Honoka'a communities, and for the entire Hawai'i County public. Koa'ekea is considered a traditional Hawaiian land section known as 'ili, which is a smaller land section within the larger ahupua'a, or land division from mountain to sea. Aptly named for the Koa'ekea bird (indigenous white-tailed tropic bird, *Phaethon lepturus dorotheae*) that frequents the area, Koa'ekea is also famous for being the 'ili that ali'i kaulana (famous chief) 'Umi-a-Li'loa entered into Waipi'o Valley when returning as a man to eventually conquer the valley from his

¹ Hawai'i County Charter, 10-15

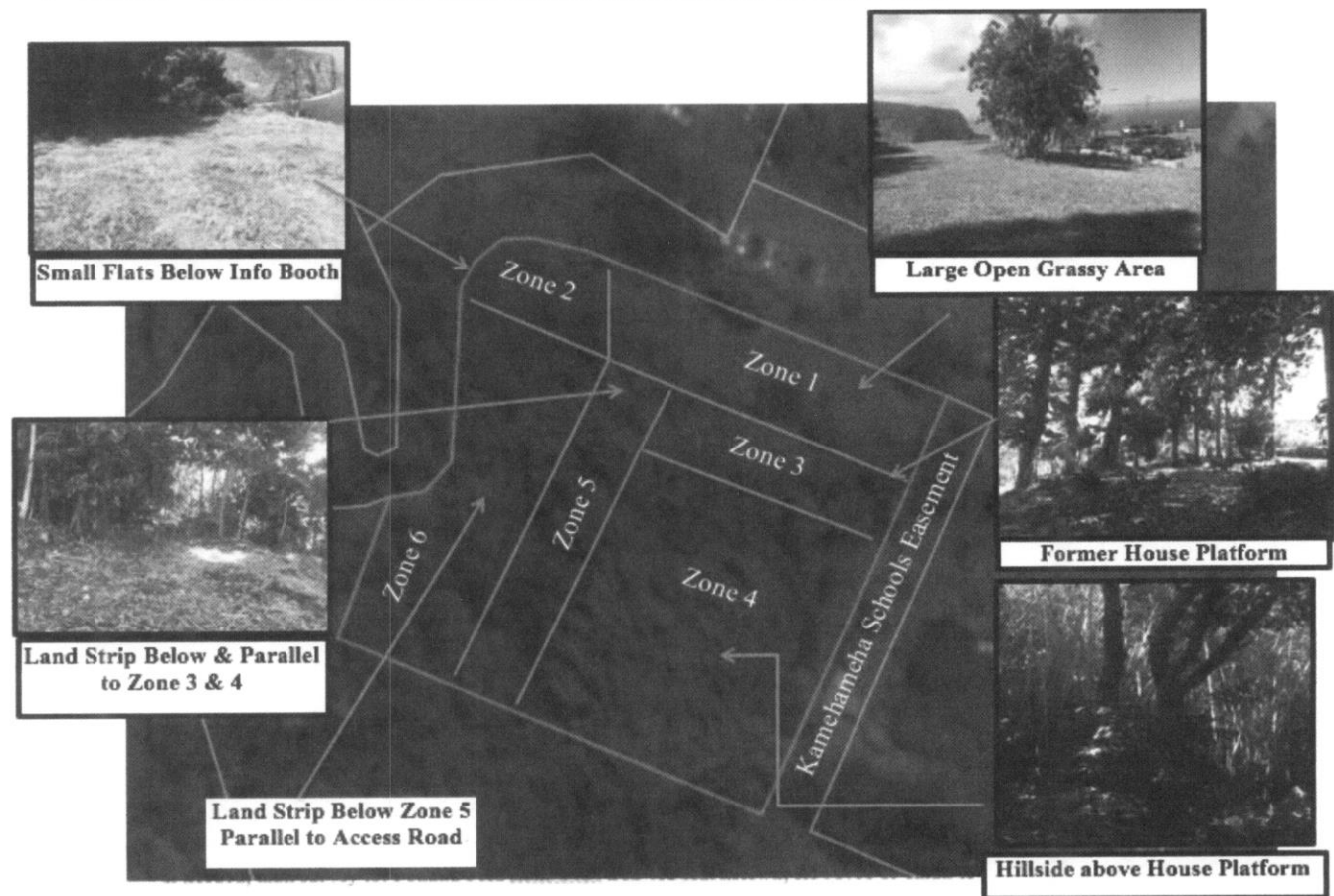
cruel brother Hākau². Koa'ekea signifies an entry point into *he manawa pono* (a pono time) for Waipi'o Valley in that time. Pōhāhā I Ka Lani believes that the revitalization of this 'āina of Koa'ekea will be the beginning of a new *manawa pono* for Waipi'o Valley.

Designation of Property Zones for Reference & Planning

The PONC parcel was mapped via the Hawai'i County Property Tax Map website and Google Earth and marked with "zones" based on land features for reference and planning to more easily develop a community based Site Re-vegetation Plan and Educational Plan. See below for zone descriptions.

Zone descriptions

- ❖ Zone 1 – Large open grassy area
- ❖ Zone 2 – Small Flats below Education & Information Officer Booth



- ❖ Zone 3 – Former House Platform
- ❖ Zone 4 – Large Slope above Zone 3
- ❖ Zone 5 – Land strip below Zone 3 & 4
- ❖ Zone 6 – Land strip below Zone 5

**Zone vegetation described below in "Progress on Objectives & Outcomes"*

**Note: Map done prior Meets & Bounds Survey contractor surveyed*

² "He Mo'olelo No 'Umi", Simeon Keliikaapuni, Dec. 9, 1861

Summary of 2016 Stewardship Progress

The Waipi'o Valley PONC Lookout parcel has made large transformation in the first year of the stewardship. See below for a brief summary of the progress made:

- ❖ Pōhāhā I Ka Lani Site and Vegetation surveys conducted.
- ❖ Contracted Meets & Bounds and Flora & Fauna surveys conducted.
- ❖ Numerous of community, group, and organizational workdays held.
- ❖ Community planning surveys conducted for Revegetation, Education, and Property Usage Draft Guideline development.
- ❖ Approximately 600 volunteer participants.
- ❖ Native and beneficial vegetation planted across property as possible with excavation, fencing, and tree work.
- ❖ Fence line clearing complete, and perimeter fencing installed around usable acreage of the property.
- ❖ Majority of large tree work completed, including felling of trees crowded trees within usable area and chipping of possible tree branches. (Completed within recommendations of Flora & Fauna Study)
- ❖ 90% of the large amounts of dumped trash, debris, and vehicles removed.

Final Progress on Objectives & Outcomes

Objectives

1. Map Property Assets including Vegetation Inventory - COMPLETE

Initial Flora Survey – Pōhāhā I Ka Lani

The property was initially surveyed for flora in late January 2016 by Pōhāhā I Ka Lani President Jesse K. Potter, who holds a Tropical Horticulture Bachelor's of Science from the University of Hawai'i at Hilo College of Agriculture, Forestry and Natural Resource Management (CAFNRM). Through identification of the layout of the majority of primary plant species present across the properties zones, the flora inventory was presented in the initial community survey given physically on the February 26, 2016 Community Workday and also digitally via Google Forms. The survey asked the community and public's perspective on the removal or preservation of the vegetation currently present in the zones referenced, with each zone detailed with the identified tree and plant species. Common invasive species were not listed, i.e. guinea grass, etc. Follow-up surveys will be conducted in the remaining months of the year as the parcel becomes more open.

- ❖ Zone 1 – Large open grassy area
 - *Vegetation Detail:* 1 Large Eucalyptus, 1 Norfolk Island Pine (80ft), Coconut, Pink hibiscus, money tree, and ti-leaf.
- ❖ Zone 2 – Small Flats below Education & Information Officer Booth
 - *Vegetation Detail:* Banyan, Albizia, Bananas, guava, hala
- ❖ Zone 3 – Former House Platform
 - *Vegetation Detail:* 13 royal palms, 3 large *Ficus* trees, 4 large Norfolk Island Pine, multiple macadamia, avocado, bromeliads, ti leaf, money tree
- ❖ Zone 4 – Large Slope above Zone 3

- *Vegetation Detail:* Large bamboo grove, 13 mango trees, hala, macadamia, unidentified tree at top
- ❖ Zone 5 – Land strip below Zone 3 & 4
 - *Vegetation Detail:* Multiple banana varieties, guava, avocado, albizia,
- ❖ Zone 6 – Land strip below Zone 5
 - *Vegetation Detail:* Multiple banana varieties, guava, avocado, albizia,

The initial survey also discovered the vast amounts of man-made trash strewn across the property, ranging from numerous abandoned vehicles & parts, various multitudes of metal & other trash, a lawn mower, bicycles, and plentiful amounts of bottles and cans.

Contracted Flora & Fauna Study – Geometrician Associates, LLC

A Flora & Fauna Study was conducted by Ron Terry, Ph.D., and Patrick J. Hart, Ph.D. of Geometrician Associates, LLC in May 2016, as requested through and contracted by the Hawai'i County Department of Finance Property Management Divisions. Their study further elaborated on the biological factors of the PONC parcel, and provided recommendations. The fauna identified were consistent with the identifications of the initial Pōhāhā I Ka Lani survey, with additional identifications as well. The presence of the various fauna was already known, as Pōhāhā I Ka Lani members are familiar with the area and aware of the cultural & endemic species, such as the 'Io (Endemic Hawaiian Hawk, *Buteo solitarius*) and the 'Ōpe'ape'a (endangered Hawaiian hoary bat, *Lasiurus cinereus semotus*). The recommendations regarding the work to be avoided as practical during their breeding seasons were valuable in adjusting the work plan to accommodate the breeding season of the endemic fauna species, as described below in Objective 4.

Contracted Meets & Bounds Survey – Island Survey, Inc.

A meets & bounds survey was conducted by Island Survey, Inc. in June 2016, as requested through and contracted by the Hawai'i County Department of Finance Property Management Divisions. Survey verified property boundaries for clearing, maintenance, cultivation, and fencing.

2. Create Native Re-Vegetation Plan for Property

See Attachment #1 - PONC Waipi'o Valley Lookout Re-Vegetation, Education, & Property Usage Draft Guidelines

3. Maintain Property

The property has been consistently maintained as sections have been cleared by the contracted maintenance services of Naaman Toko, who is a generational Waipi'o Valley taro farmer and dual resident of Waipi'o Valley and Kukuiahele. Grass mowing and trimming are done on a regular basis each month to upkeep a well-maintained public appearance and conserve focus of community and group workdays on larger, more progressive work tasks such as clearing, trash removal, planting, and other non-maintenance activities. In the first year of this PONC parcel stewardship, maintenance services have been vital in allowing for the larger work

to be undertaken. Maintenance was also done on community and organizational workdays for upkeep.

4. Reduce Invasive Species

Numerous invasive species have been reduced through community, group, and organizational workdays, as the property has been unmaintained and highly overgrown for many years. See Final Progress of Outcomes for details and percentages, as well as Attachment #2 for various pictures of the progress of the parcels reduction in invasive species.

Adjustment of Work Plan in Response to Flora & Fauna Study Recommendations

Pōhāhā I Ka Lani had anticipated fully taking advantage of clear summer weather to do tree work and land clearing for upcoming fencing. However, the land clearing and tree cutting were minimized from March to present, per the recommendations of the Flora & Fauna Study. The study recommended minimization of land clearing and tree cutting due to the endemic Hawaiian Hawk (*Buteo solitarius*) breeding season is “March through the end of September” and the endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*), as practical.

A small percentage of tree work was completed during the clear weather periods on select trees that were pertinent to other project objectives, i.e. 1) clearing of a small banyan that had an abandoned vehicle within its roots so as to access a portion of the property; 2) clearing of a large fallen Summer Chocolate Albizia (*Albizia julibrissin*).

The larger tree work and land clearing for fence line installation continued at a more vigorous pace once the nesting periods for these important endemic animals ends at the end of September. This coincides with tapering off of the hurricane season in Hawai‘i, which officially ends November 30, and has been bringing regular inclement weather.

5. Propagate and Plant Native Plants

Initial planting of Native and beneficial plants on the property have occurred.

6. Create and implement an Educational Plan with natural vegetation as primary curriculum

DRAFT GUIDELINES COMPLETE: See Attachment #1 - PONC Waipi‘o Valley Lookout Re-Vegetation, Education, & Property Usage Draft Guidelines

See progress on objectives for implementation to date.

Other Objective: Fencing

Fence line clearing has been begun with fencing contractor, Big Island Greenery. Big Island Greenery has been crucial in excavating the fence line with the various invasive trees & plants growing along the fence line, including: the Chinese Banyan with the abandoned lunch truck within roots at the edge of Zone 2 & 6; guava trees in Zones 5 & 6; large fallen Summer Chocolate Albizia along edge of Zones 5 & 6; Common bamboo at top of Zone 4; White Shrimp Plant along edge of Zone 4 adjacent to Kamehameha Schools easement & Loo family property.

Fencing design and materials were surveyed in the Community Planning Survey #1:

- ❖ Pig proof
- ❖ Alternative natural materials such as bamboo, guava, 'ōhi'a, Keawe, etc.
- ❖ 50% other/alternative materials, 25% wooden fencing, 25% metal fencing.
- ❖ Hybrid natural, wooden, and metal fencing possible.

Unanticipated Objective: Removal of Large Amounts Trash & Abandoned Vehicle

The property contained a vast majority of trash and abandoned vehicles strewn across the property, primarily in Zones 4, 5, & 6, which were not readily visible from the Lookout parking lot & turnaround area and likely dumped between dusk & dawn times over the years. The worst area was located on the access road side of the property in Zones 2 & 6 where individuals used it as a dumping site from Zone 5, which included a dilapidated lunch truck, vehicle frame, bicycles, metal panels, an old riding lawnmower, and other various household trash.

Final Progress of Outcomes

Estimated percentage completed of each outcome with descriptions:

See Attachment #4 – Aerial Mapping of Property, Before & After

1. Property well maintained – 100% 14 of 14 months

Contracted maintenance services and community & group workdays maintained the open and cleared portions of the property throughout the granting period.

**Note: Since the ending the grant on February 28th 2017, the property has begun to get overgrown again. Furthermore, as the majority of volunteer time at the end was spent finishing felling of trees and chipping of felled material, additional weed mat is still needed to be put up on some areas.*

2. Invasive species reduced – 95%

Invasive species were drastically reduced across the property through community, educational, and organizational workdays, including:

List and Description of Invasive Species Reduced

Invasive Grasses & Shrubs

- ❖ Guinea Grass (*Urochloa maxima*)
 - Digging out of root clumps around property and maintenance to reduce root carbohydrate storage, i.e. reducing vigor of regrowth.
- ❖ Wedelia (*Sphagneticola trilobata*)
 - Hand weeded along embankment separating Zone 1 and Zone 3.
 - Weedeater used to maintain along Zone 1 front edge.
- ❖ California Grass (*Urochloa mutica*)
 - Weedeater used to maintain along Zone 1 front edge
- ❖ Clidemia (*Clidemia hirta*)
 - Hand weeded in various locations around parcel

- ❖ White Shrimp Plant (*Justicia betonica*)
 - Hand weeded in the understory areas in Zones 3, 4, 5, and 6.
- ❖ Spurges (*Chamaesyce* spp.)
 - Hand weeded in various locations around parcel.

Invasive Trees

- ❖ Chinese banyan (*Ficus microcarpa*)
 - Medium tree (approximately 40 ft.) with abandoned lunch tree within tree roots felled and excavated at edge of Zone 2 & 6.
 - Medium tree (approximately 40 ft.) with felled at edge of Zone 3 & 4.
 - Small fallen tree (approximately 20 ft.) pruned to stump.
 - ❖ African tulip tree (*Spathodea campanulata*)
 - Various small to medium (20 – 40 ft) trees felled with chainsaw primarily in Zone 5.
 - Large (approx.. 60ft) felled at edge of Zone 4 & 5.
 - ❖ Gunpowder tree (*Trema orientalis*)
 - Single gunpowder tree (approx. 50 ft) felled with chainsaw in Zone 5.
 - ❖ Christmas berry (*Schinus terebinthifolius*)
 - Pruned for access at the top of Zone 4.
 - ❖ Common bamboo (*Bambusa vulgaris*)
 - Pruned for access and decaying material at the top of Zone 4.
 - ❖ Common guava (*Psidium* spp.)
 - Felled and roots removed of multiple medium trees (15 -20 ft) in Zone 6.
 - Felled multiple medium trees (15 -20 ft) in Zone 5.
 - ❖ Summer Chocolate Albizia (*Albizia julibrissin*) [*Not identified in Flora & Fauna Study*]
 - Large fallen tree at edge of Zone 5 & 6. Approximate tree dimensions: Trunk base diameter = 5 ft. diameter; Original Canopy = 50 – 60 ft. tall and wide.
 - Large standing tree at edge of Zone 2 & 6. Approximate tree dimensions: Trunk base diameter = 6 ft. diameter; Canopy = 50 – 60 ft. tall and wide.
 - ❖ Octopus tree (*Schefflera actinophylla*) [*Not identified in Flora & Fauna Study*]
 - Single branching tree (20 ft.) located next to Ficus in Zone 3.
-
- Large tree work completed, including:
 - Felling and excavation of 3 large Ficus, multiple large Royal Palms, and a medium sized Banyan
 - Topping of large limbs of large Albizia
 - Topping of large Banyan that overhung the road along the Northern property line.
 - Felling a large African Tulip.
 - Felling and excavation of
 - Felling of two large Norfolk or Cook Island pines.
 - Felling of a dense, spindly grove of medium to large Mangoes.
 - Felling of various Strawberry Guava trees across property.
 - Felling of large Gunpowder tree.

- Various clearing of invasive species:
 - Hand clearing of white shrimp plant, Philodendron vine, Wedelia, Monstera, Bougainvillea, African Tulip seedlings, Cook & Norfolk Pine seedlings, small Macadamia trees, tall overgrown Guinea grass, ornamental palms, Octopus tree, etc.
 - Guinea grass clumps dug out, and weed matted to reduce.
 - Bamboo thinned of falling and dead shoots.
 - Weeding of cultivated areas & plants, such as kalo (taro), pumpkin, uala (sweet potato), 'olena (turmeric), and mai'a (banana) plantings

3. Native species planted – 50%

The amount of Native species possible to be planted on the property is about 50%, as the property once graded and fully planted could have numerous more plantings in the various zones.

Native species planted on the property include:

- Kalo – various varieties
- Uala
- Mai'a (banana) – ma'afala, fiti, and otea varieties
- Ulu (breadfruit) – popo'ulu, hāpai, Manini, 'ele'ele, iholena,
- Niu (coconut) – dwarf varieties
- Kō (sugarcane) – various varieties
- Olena (turmeric)
- Pili grass
- Mamaki
- Ko'oko'olau
- Hō'awa
- Koki'o Ula – Native red hibiscus
- Koki'o Alani – Native orange hibiscus
- Koki'o Ke'oke'o – Native white hibiscus
- Nīoi (Hawaiian chili pepper)
- La'amea

Non-native plants planted:

- Roses, red
- Onion
- Pumpkin
- Pigeon pea

Note: Various plants died during the stewardship process due to intense heat, heavy rains, and inadvertent excavator work.

4. Re-Vegetation Plan completed and partially implemented – 50%

The revegetation plan has been drafted (See Attachment #1), with work in Outcomes 1, 2, and 3 describing current progress.

5. Educational Program underway – 100%

Hosting of educational groups conducted throughout the year as possible. Community planning surveys detail future of educational program activities to be done.

Specific educational groups hosted in 2016 PONC Stewardship include:

- University of Hawai‘i at Hilo Geography Classes (2x)
- Hawai‘i Preparatory Academy Middle & High School Classes
- Hālau Kahikilaulani
- Hālau Mohala ‘Ilima
- YMCA Atherton, O‘ahu
- Hawaiian Cultural Center of Hāmākua
- O‘ahu ‘Ohana, including Mālama Honua PCS & Mid-Pacific Staff (2x)

Specific events that have occurred on the property include:

- Poi board and stone workshop
- Waipi‘o Valley Kalo Festival put on by the community, which Pōhāhā I Ka Lani participated in by providing poi pounding to the attendees.

Other Outcome: Fencing – 100% complete

Fence line clearing and installation has been completed, with adherence to recommendations in Flora and Fauna Study and installed according to the parcels Meets & Bounds Survey marked pins and the reasonable and safe contour of the land for fencing installation and future use.

. The fence line cleared required large amounts of excavator work, including tree removal, trash removal, abandoned car removal, tree removal, tree debris clearing, bamboo clearing, and grading. Completed fence has all kiawe post & bamboo front along the front property line, and the remaining property lines have kiawe post corners, staggered kiawe posts with t-posts in between, and hog wire fencing. The steep drop-off at the Western back of the property has hog panel installed at the top drop-off and the bottom rise-up areas, which can be removed as needed and for future final work on the drop-off.

Unanticipated Outcome: Removal of Large Amounts of Trash & Abandoned Vehicle – 90% complete

Community workdays and fence line clearing by the contractor completed 90% of trash and abandoned vehicles on the property. Community workdays have removed a majority of the humanly movable trash and abandoned vehicle parts, which required eleven (11) trailer loads.

Fencing contractor assisted with: abandoned lunch truck with Chinese Banyan roots along edge of Zones 2 & 6; and abandoned vehicles at back of Zone 5. A roll-off container was provided by the fencing contractor as the debris was along the fence line.

Amounts, Means & Details of Trash & abandoned vehicles removed:

- 11 Trailer Loads: Community and organizational workdays completed loading, hauling, and disposal of a total of eleven (11) 6ft & 10ft trailer loads to the Honoka'a Transfer Station, including:
 - Various multitudes of strewn trash & abandoned vehicle parts
 - A military truck axle & tires.
 - Old lunch truck with 40ft banyan growing through it.
 - Various multitudes of house hold trash.
 - Old lawnmowers.
 - Old refrigerators and refrigerator metal panels.
- 1 Roll-Off Bin: The fencing contractor filled a large roll-off bin in the clearing of the northern property line where the fence line eventually went.
- 2 Vehicles Towed: Via the Hawai'i County Abandoned Vehicle Towing Program, two vehicles in the back of the property were removed from the property.

Remaining on the property to be disposed of is:

- 1) A small pile of miscellaneous illegally dumped trash & debris.
- 2) One abandoned vehicle set of parts that were crushed under a fallen Chocolate Albizia tree.
- 3) Small amounts of bottles & cans strewn across the the steep slope of the norther edge of the property.

Community, Educational Group, and Organizational Work Days

Community workdays and specific educational group workdays were held throughout the stewardship period of the project to facilitate Waipi'o Valley community and the broader Hawai'i County community in the process of clearing and maintaining the parcel.

- Tools and safety gear provided for participants.
- Workday participants were sheltered with temporary tents for lunch time gathering area, and for daylong shelter for any kūpuna and keiki.
- Tables & benches provided for lunch and resting.

Quotes from Community Planning Surveys

"My opinion, [Pōhāhā I Ka Lani] has done an excellent job! Jesse [Potter} and his wife deserves a lot of credit to clean and clear out that property. I have seen them in the hot sun and in the rain working in that property. Thank you & big mahalos, to both of you, and the rest of the community, and all of the people that contributed to this property. God is watching & he is happy!"

"I feel that this past year has been wonderful, and we have done a lot as a group."

Note: Food and water on these community workdays were donated by Pōhāhā I Ka Lani along with potluck contributions. See Attachment #2 for more details.

Community Volunteer Work Summary

- **Number of Community & Educational Workdays:** 18
- **Estimated Number of Volunteer Participants:** 600

Pōhāhā I Ka Lani Organizational Volunteer Work Summary

- **Estimated Number of Pōhāhā I Ka Lani Volunteer Hours On-Site:** 800
 - Workday coordination and participation with other volunteers
 - Contractor coordination and volunteer work support, including fencing, excavation, and chipper.
 - Other volunteer physical work including arborist services and various maintenance
- **Estimated Number of Pōhāhā I Ka Lani Volunteer Hours Off-Site:** 200
 - Planning of community work days, including flyer creation.
 - Creation and compilation of community planning surveys.
 - Loading & unloading of equipment, supplies, tools, tents, tables, etc.
 - Coordination with fencing, excavation, and chipper contractors.
 - Purchasing of equipment, materials, and supplies.

See Attachment #2 (2016 PONC Stewardship Waipi'o Valley Lookout Property Community, Educational, & Organizational Stewardship Record) for further details.

See Attachment #3 – Community workday flyers

Budget & Expenditures Summary – Current as of March 31, 2017

* Grant fund budget categories expenses detailed below.

* Overage expenses covered through donations.

PONC Funds Budget Expenditures		
Item	Amount Budgeted	Amount Expended
Equipment	\$19,500	\$15,980.84
Contracted Services	\$26,000	\$30,650.00
Supplies	\$33,500	\$31,871.23
Financial Services	\$3,000	\$3,804.50
Liability Insurance	\$1,500	\$1,273.82
Total	\$83,500.00	\$83,580.39

Equipment Budget		
Item	Amount Budgeted	Amount Expended
Heavy Duty Mower	\$5,000	\$4911.64
Tiller	\$1,000	\$810.41
Weedeaters	\$1,500	\$1,362.23
Chainsaws	\$3,000	\$2,864.46
Security Camera System	\$3,000	\$0.00
Mower & Materials Trailer	\$3,000	\$3,000.00
Documentation Equipment	\$3,000	\$3,032.10
Total	\$19,500.00	\$15,980.84

Contracted Services Budget		
Item	Amount Budgeted	Amount Expended
Maintenance	\$3,000	\$2,750
Fencing	\$15,000	\$15,000
Excavation	\$6,000	\$6,000
Chipping	\$2,000	\$6,900
Total	\$26,000.00	\$30,650.00

Supplies Budget		
Item	Amount Budgeted	Amount Expended
Personal Protection Equipment	\$2,000	\$3566.64
Hand Tools	\$2,000	\$5,032.62
Misc. Power Equipment Supplies	\$2,000	\$3,032.35
Weedeater Attachments	\$1,000	\$927.03
Tree Climbing Equipment	\$2,000	\$2,005.35
Temporary Shelter	\$3,000	\$3,531.22
Weed Mat	\$2,000	\$2,017.05
Security Lights	\$2,000	\$1,996.56
Signage Materials	\$6,000	\$1,126.30
Tables	\$1,500	\$2,030.03
Chairs	\$1,000	\$520.73
Fuel, Vehicle	\$3,000	\$2,212.50
Fuel, Power Equipment	\$1,000	\$940.24
Plants	\$5,000	\$2,932.61
Total	\$33,500.00	\$31,871.23

Financial Services Budget		
Item	Amount Budgeted	Amount Expended
Bookkeeping	\$3,000	\$3,750
Bank Monthly Service Fee	\$0.00	\$30.00
Checks	\$0.00	\$24.50
Total	\$3,000.00	\$3,804.50

Liability Insurance Budget		
Item	Amount Budgeted	Amount Expended
Liability Insurance	\$1,500	\$1,273.82
Total	\$1,500.00	\$1,273.82

❖ Summary of Expenses by Budget Categories per Proposal:

➤ Equipment:

- Heavy Duty Mower: John Deere Riding Lawnmower with bagging/mulching attachments, Toro push mower
- Tiller: 2 small walk behind tillers
- Weedeaters: 1 Stihl String Trimmer and 2 Stihl Combination Power Heads
- Chainsaws: 4 Different size Stihl chainsaws
- Security Camera System: No security cameras purchased.
- Mower & Equipment Trailer: 5x10ft Trailer Utility Trailer
- Documentation Equipment: Personal and tripod mountable GoPro camera with accessories, Sony camera for quality pictures, camera carrying/storage accessories.

➤ Supplies

- Personal Protection Equipment: Gloves, Safety Glasses, Ear Plugs/Muffs, Chainsaw Chaps, helmet, safety lanyards, hydration equipment (camel pack, water jug), etc.
- Hand Tools:
 - Various Landscaping Hand Tools: Machetes, Rakes, Picks, Pull saws, pole saws, Waterholes and nozzle.
 - Tools for Trash Removal: Sawz-Alls, Pliers, Metal Hand Saw, Field Magnet, Chain, Straps/Tie Downs, Metal Trash Cans and Bins,
 - Various Tree Work Hand tools: Rigging gear,
- Misc. Power Equipment Supplies: Chainsaw bars & chains, gas can, 2-cycle engine oil, air filters, trimmer line, tree felling supplies, winch system for moving felled timber, etc.
- Weedeater Attachments: string trimmer, pole saw, blower, blade, and hedger.
- Tree Climbing gear: Harness, Rope, Carabiners, Ascending & Descending tools, etc.
- Temporary Shelter: Large Pole Tent Kit & Multiple Pop-Tents for community work days, sheltered enclosures
- Weed Mat: 300 ft. rolls of 12 ft. wide, 6 ft., 4 ft., and 3 ft. wide weed mat. Some installed currently. Others to be installed during resumed 2017 stewardship.

- Security Lights: Solar lighting for soft night time lighting of property. Some installed currently. Others to be installed during resumed 2017 stewardship.
- Signage Materials: Small wooden signs for plant signs, temporary marking flags for plantings, hand engraver, large signs indicating cultural place name of Koa'ekea (to be installed).
- Tables: Foldout tables for community work days.
- Chairs: Foldout benches for community work days.
- Fuel, Vehicle: Travel to and from site by Pōhāhā I Ka Lani staff for: community, educational group, and organizational workdays; and site surveying & planning. Based on mileage calculated and MPG of vehicles used. Hauling of felled wood from site.
- Fuel, Power Equipment: gasoline for chainsaws, weed eaters, and community donated use of generator. Oxygen & Acetylene for community donated use of cutting torch for abandoned vehicles. Extra fuel costs for large excavator used to fell large Albizia tree.
- Plants: Kalo, kō, mai'a, niu, mamaki, uala, 'ulu, pili, and other native/indigenous and beneficial plants.
- Contracted Services
 - Maintenance Services: \$250/month for regular upkeep of cleared and newly cleared areas.
 - Bookkeeping Services: \$250/month for bookkeeping of expenses.
 - Fencing Services: 100% of payments totaling \$15,000.
 - Excavation Services: 100% of payments totaling \$6,000 (including \$500 for work beyond estimated time).
 - Chipping Services: \$200/hr for a 3 man crew to operate a 20-inch capacity wood chipper. Total of 34.5 hours performed.
- Liability Insurance
 - Liability Insurance covering County of Hawaii for PONC Stewardship Grant.

Pōhāhā I Ka Lani hereby submits the above report as a true reporting to the best of our knowledge of the progress and accounting of the awarded PONC Stewardship Grant.

Name of Authorized Official: Jesse Keone Potter
Title of Authorized Official: President, Pōhāhā I Ka Lani

Signature: _____

Date: _____

Attachment #1

PONC Waipi'o Valley Lookout Re-Vegetation, Education, & Property Usage Draft Guidelines

PONC Waipi'o Valley Lookout

Re-Vegetation, Education, & Property Usage Draft Guidelines

Overview

The following Re-Vegetation, Education & Property Usage Draft Guidelines is initial collection of mana'o (opinion) shared by the community members and others who participated in the two surveys conducted throughout the year. These Draft Guidelines amount to a general direction that the property could go in its future stewardship & usage for "outdoor recreation and education".

Community Planning Survey #1 was conducted on February 27, 2016 and gathered initial recommendations for re-vegetation, usage, and education of parcel areas (Zones 1 – 6). The survey had 15 participants.

A Community Planning Survey #2 was done as a follow-up survey, with further input & feedback to the results of the initial survey. The survey had 7 participants.

Participants were primarily those that attended the community workdays, with 2 participants taking an online version of the Community Planning Survey #1.

Purpose of Property

The properties purpose has two potential directions: 1) An open cultivated landscape for public recreation & education; or 2) A County developed property replete with facilities & parking. These possible purposes are largely distinct in their usage of the property due to the limited physical space of the property and the property features that each purposes wishes to have, i.e. open space landscape vs. county facilities. However, there may be able to be balance of the two to some degree, with some aspects of each may be able to be combined.

1) Open space for public recreation & education

There is general consensus (greater than 90%) in the limited survey's gathered that the property should remain largely open landscape that is usable by the community for recreation, gatherings, meetings, workshops, and education, while being a productive botanical garden with native, indigenous, & other beneficial species for public education, usage, and beautification. Survey results indicated a preference for the reestablishment of Native & endemic plants, and indigenous Hawaiian canoe plants that could be used by the community for mea 'ai (food) and hana no'eau (crafts). All of these plants could and would be used in an Education Plan for the community and visitors.

This usage of the property as an open cultivated landscape for public recreation & education is in alignment with the purchase of PONC properties through the Hawai'i County PONC purchasing process, where Hawai'i County Charter 10-15 states the purpose of PONC properties is for "outdoor recreation & education". Of course "outdoor recreation & education" is open to interpretation of how and the degree by which it is accomplished, those who took the survey view the property as an open space for such activities by & for the community and visitors.

Details from Community Planning Surveys

- Community Meeting & Gathering place primarily for community associations, families, educational fairs, cultural workshops, and farmers market
 - Community gatherings to "foster community, inclusiveness, 'ohana."

- Gardens for community market, education, plant source for community, food for schools & community.
- Educational workshops of Waipi'o knowledge sharing, cultural traditions and knowledge, farming techniques & knowledge, music, etc.
 - Community cultural & spiritual events.
- Visitor education of history, culture, sacredness, protocol, and safety.

Notable Mana'o from the Community Planning Surveys

"The original intent of securing this property was to make a gathering place for our community and as part of a project that we could share with and receive visitors to educate people and to use as a way to regular the traffic into the valley. We also saw this as a way to raise resources and make money to take care of Waipi'o. The main point is the focus first is for our community and then be able to share with others and this is part of Waipi'o Valley and should benefit the families of the valley."

"I think while it is supposed to be used for re-creation, it should not be used as a "party" location."

"[The property should] foster community inclusiveness, 'ohana. Do community outreach & instruct on how important valley is."

2) A County of Hawai'i operated facility

A few survey participants in each of the community planning surveys articulated the possible development of the property into a County run facility complete with a heritage center, enhanced Resource Ranger station, and overflow parking for the Lookout. Another survey participant indicated a preference for a possible "tourist interpretative center" for craft demonstrations.

This usage of the property does not as directly align with Hawai'i County Charter 10-15 PONC property purpose of "outdoor recreation & education", with development of parking and County scale facilities contrasting with the purpose as well as Public Access, Open Space, and Natural Resources. This direction of the property may be possible, however, there are some challenges: 1) Limited size of the property at approximately 1.8 acres, with a mild slope in the back and unusable steep slopes on the northern side; 2) Lack of County water, and a surrounding neighborhood with an already tapped public water system; and 3) Congestion of traffic at the lookout may be increased, even with limited additional parking on site. A County run facility may be possible yet difficult to attain, although the idea echoes some of the initial ideas put forth for the purchase of the property in terms of a heritage center for visitors.

Details from Community Planning Surveys:

- Fully equipped building with bathrooms and parking to replace former Kukuihaele Social Hall.
- Landscaped and managed as a County of Hawaii park.
- No workshops. Property for visitors primarily, community gatherings secondly.
- Staffed and run by County employees for visitors similar to national park.
- Parking area with fully equipped building.

Notable Mana‘o from the Community Planning Surveys

"I believe [the County of Hawai‘i] need to move forward and have the County erect a Visitor Center Building to tie in the property with the Waipi‘o Kiosk Building... We need to "manage" Waipi‘o. We need a facility on this property to further assist and educate all the people (even the locals). If this people want to access Waipi‘o they have to watch a five (5) minute film of Waipi‘o's protocols, i.e. culture, language, etc. Upon completion you wear a band to inform Rangers, Security, etc. that you have been educated and now allowed to walk/hike into Waipi‘o Valley.

"We need these buildings on the property: Visitor Arrival Center to educate visitors, a Waipi‘o Museum Building to store all of Waipi‘o's artifacts, sacred items, etc.; a community hale to hold "our" meetings, and our own Waipi‘o Farmers Market, right here on the property."

Purpose & Plants for Future Re-vegetation for Each Zone from Survey



❖ Zone 1

- Purpose: Greeting entrance area for gathering. Plants to accentuate gathering area and for gardens. Possible hale near Education & Information Officer booth.
- Plants: Coconut, vine plants (ipu, liliko‘i), ti leaf, hibiscus, gardenia, money trees, and other functional native plants (kalo, uala, ‘ōhi‘a, ulei, iliahi kopiko, lama, akia, hapu‘u). Also tropical plants

❖ Zone 2

- Purpose: Possible uses include viewing/gathering/picnic area, hula platform, taro patches, location of hale, and place for classes or education of visitors.
-
- Plants: Ground cover & low lying plants for soil erosion prevention and view protection; Shade trees (kou, milo, etc.); Native plants (mai'a, 'ōhi'a, ulu, ko, kopiko, lama, ulei, hala). Banyan (trimmed). Tropical plants.
- ❖ Zone 3
 - Purpose: Possible uses include traditional hale & learning center, tent/gathering site, stage for events, altar and rockwalls.
 - Plants: Avocado, Ti leaf, Food plants, Ornamental/tropical, Functional native plants (Hala, 'Ōhi'a, ulu, Iliahi), Tall fruit and flowering trees for shade, Banyan (trimmed)
- ❖ Zone 4
 - Purpose: Possible uses include nature walk with plant identifications, taro patches, orchard, visual barrier, loulou growing area, hybrid forest food/native plants, coastal wet forest restoration.
 - Plants: Natives (ulu, mai'a, 'ōhi'a, hala, lama, kopiko, iliahi, koa, loulou, kauila, native grasses), Jackfruit, Mango (trimmed), Banana varieties, Tropical plants
- ❖ Zone 5
 - Purpose: Possible uses include nature walk with native plants, gardens, traditional hale and/or ahu.
 - Plants: Kalo, ipu, ti leaf, ulu, Uala, mai'a, awa, cassava, pia, olona, avocado, other native, fruit & tropical plants.
- ❖ Zone 6
 - Purpose: Possible uses include gardens (possibly terraced), walking trail, imu, honeybee hives, and native plantings.
 - Plants: Mai'a, uala, coconut, awa, cassava, avocado, kukui, native trees and tropicals.

**Note: Progress on some plantings have occurred. Numerous species recommended, especially native and endemic plants, could still be planted.*

Possible Cultural Features of the Property

Traditional Structure (Hale)

The community was surveyed as to their interest in a traditional Hawaiian structure (hale) on the property, to which 93% were in support in the Community Planning Survey #1. Top suggested area by majority of respondents: Old house platform (Zone 3).

The idea of a traditional hale was discussed and put forth by some community members, but is not a set direction of the property, merely a possibility.

***NOTE:** A traditional indigenous Hawaiian structure, or hale, is a possibility for the future of the parcel, as community members have indicated it would be fitting for the property through the above mentioned survey and also verbally. This endeavor would of course only be possible through proper County & State permitting, non-PONC Stewardship funding, and also any needed Federal Americans with Disabilities Act (ADA) accommodations.

Cultural Offering Platform - Pā Hula (Hula Platform) & Ahu (Altar)

Numerous survey participants saw the possibility of a raised platform in Zone 2, the area below the Resource Ranger kiosk, for the purpose of hula offerings, musical performances, etc. As the property has a prominent view of the valley, cultural groups regularly make offerings of mele, oli, hula, and also physical offerings (ho'okupu) before entering the valley. A pā hula and an ahu would provide a place for the public to do such cultural protocol.

Educational Program

From the community surveys, the Educational Program on the property should include the following but not limited to:

- Community Meeting & Gathering place for educational fairs and cultural workshops.
- Community Gardens for community education.
- Educational workshops of indigenous Hawaiian and Waipi'o specific knowledge, cultural traditions, and practices, including:
 - Native and indigenous plant farming techniques & usage
 - Mele (music, chant, etc.)
 - Mo'olelo (oral stories of indigenous Hawaiian history)
 - Hula
 - 'Olelo Hawai'i (Hawaiian Language)
 - Lua (Hawaiian martial arts)
 - Makahiki Games
 - Holua (Hawaiian sled)
 - Wa'a (Hawaiian canoe)
 - Hale (Hawaiian structure)
 - Fishing & thrownet
 - Cooking
- Visitor education of history, culture, sacredness, protocol, and safety.
 - Ancient
 - Plantation history
 - Paniolo history
 - Etc.

Short Term Recommendations

Based on experiences throughout the first year of the stewardship and input in community surveys, the following recommendations that do not affect the purpose of the property include:

- Grading of the property for levelness
 - The front grass area of Zone 1 is slightly off level and makes community gatherings difficult, with one elder participant falling over on a bench, along with her potluck items.
 - A total of 4 vehicles got stuck in the mud of Zone 1 due to the off-camber grade.
- Paving vehicle access to the upper flat area of Zone 4 due to regular muddiness.

Attachment #2

**2016 PONC Stewardship
Waipi'o Valley Lookout Property
Community, Educational, & Organizational
Stewardship Record**

2016 PONC Stewardship

Waipi'o Valley Lookout Property

Community, Educational, & Organizational Stewardship Record

The following dates, descriptions, and pictures are chronological record of the majority of the stewardship activities throughout the 2016 PONC Stewardship year.

January 9, 2016

Met with Jamie Wong for KS right of entrance. Drove out to meet with him to discuss use the gate on the far left as we did not have the key for the area next to the guard shack.

January 11-15, 2016

Preparing for January 16 event at Koa'ekea. Donated 30 pounds of kalo from our garden at home. Donated 50 pounds of kalo from our farm in Waipi'o Valley. Donated 50 pounds of taro leaves from our farm in Waipi'o Valley. Lau was used to make laulau (purchased pork, chicken, and sweet potato for laulau). Kalo made into poi and for kalo pa'a.

We paid our former interns to assist in some of the work on this day and throughout the term we took care of Koa'ekea.

Needed to drive to Kona three times to go to Costco to buy food and paper goods needed for our first mālama 'āina day at Koa'ekea. Two of the three trips were to pick up some native plants and trees donated by Amy Greenwell.

January 16, 2016

We had a very large, approximately 75, amount of people from Hawai'i Island come to the first mālama 'āina gathering at Koa'ekea. Lots of community members brought their own tools as we didn't receive funding yet for the project. Lots of clearing of tall grass, invasive bushes. Truck loads of weeds were hauled away to flat area of property for composting.

*Costs for January 16: Entertainment for Kalapana 'Awa Band

Sound System: Dex Alpiche

Table Clothes/Paper Goods/Supplies

Food, Prepared to feed 100 people: Rice, Greens, Potato Mac Salad, Poi, Kalo, Lauau, Mochiko Chicken, Fried Ahi, Fried 'Ono, Subway Sandwiches. Community members brought: Kalo patties, Ho'io Salad, Sweet Potato Pie, Kalo Stew. We served Coconut Water, Liliko'i Juice, Tumeric Pineapple Juice and Water.

30 Lei (s) for musicians and helpers.

Included are pictures from the first community Mālama 'Āina Day held at Koa'ekea, on January 16, 2016. Pictures show how the area looked and the progress it made throughout the day as communitiy members cleared different sections of the parcel. At the end of the day, we did a mass planting in which we chanted and did a pule to allow the plants to grow well and for it to serve a purpose of feeding our community.

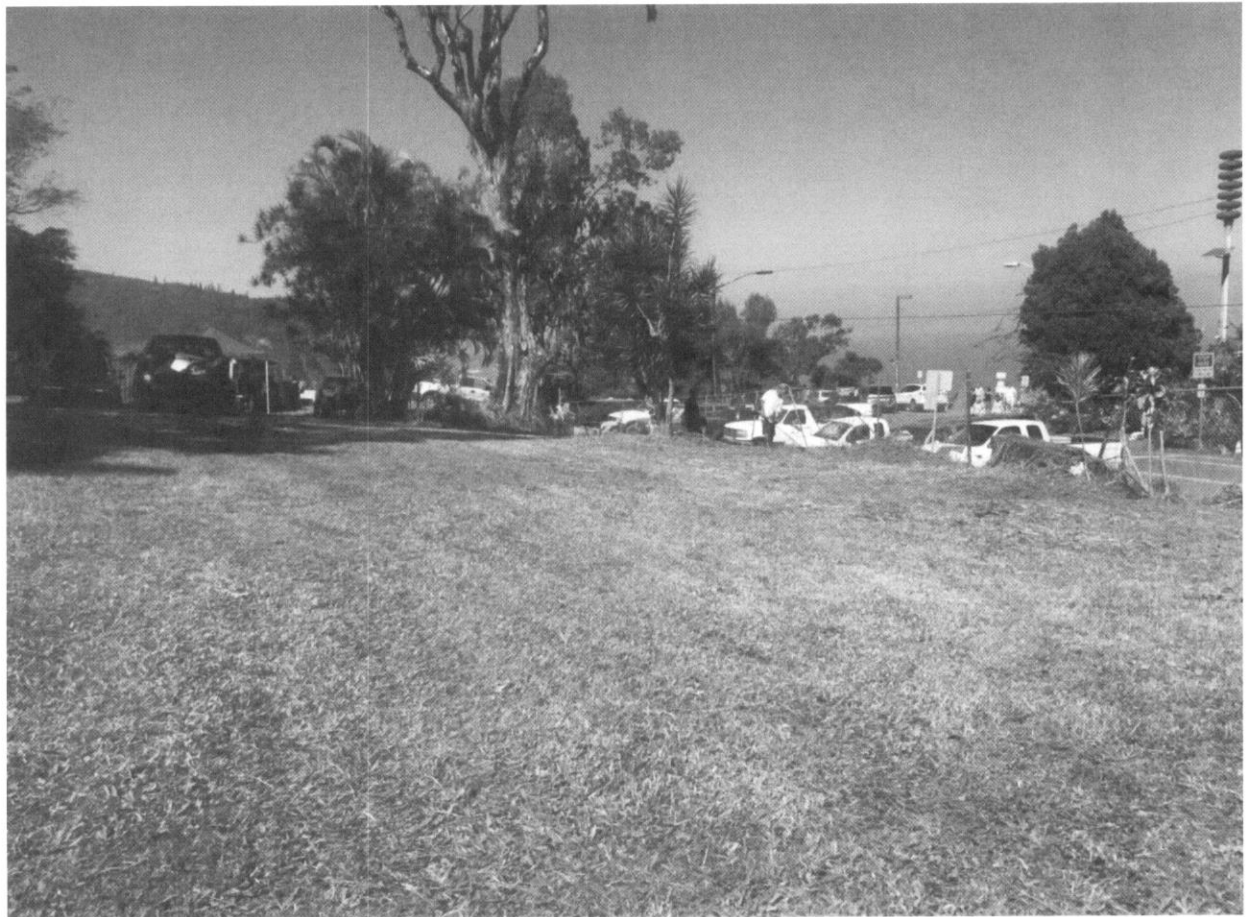




















January 19, 2016

Drove to Kona to purchase Native Plants and Trees to be planted on January 30, 2016 with Geography Students. We also picked up paper goods and snacks to be provided with lunch.

January 30, 2016

Drew Kapp's UH Hilo and HCC Geography Students. 30 Students attended and helped with continuing the efforts of removing invasive trees and plants.

Lunch we provided: Rice, Kalo, Poi, 'Uala, Lau Lau, Fried Chicken, and Subway Sandwiches. Water and Coconut water was provided.

Pictures provided show how students removed clumps of grass along the fence line. Removed lots of invasive plants and replaced it with native plants which included planting a section with taro.















University of Hawai'i at Hilo Geography Classes

Each semester Drew Kapp and his students travel on over to the Hāmākua area to learn about Waipi'o Valley, different styles of farming and in exchange for the knowledge gained, the students help us in our on-going mālama 'āina projects.



February 7, 2016

Hālau Hula Kahikilaulani contacted us as they planned on dancing a hula that was written for the Hāmākua and Waipi'o Valley area. They asked us to share with them mo'olelo of the area to help them get a better understanding of the area as they prepared for Merrie Monarch. In exchange for what we shared, they helped us with debarking of trees and also chanted and danced hula to honor Waipi'o Valley.

We provided lunch for the group: Rice, Poi, Kalo, Sushi, Roast Beef.





February 13, 2016

Teachers and principals from O'ahu schools, an internal doctor from Straub, and family members flew over to come and help mālama 'āina at Koa'ekea. We worked on clearing an area and planted a section of taro.

We provided lunch for participants: Sushi, Mochiko Chicken, Fried Ahi and 'Ono.





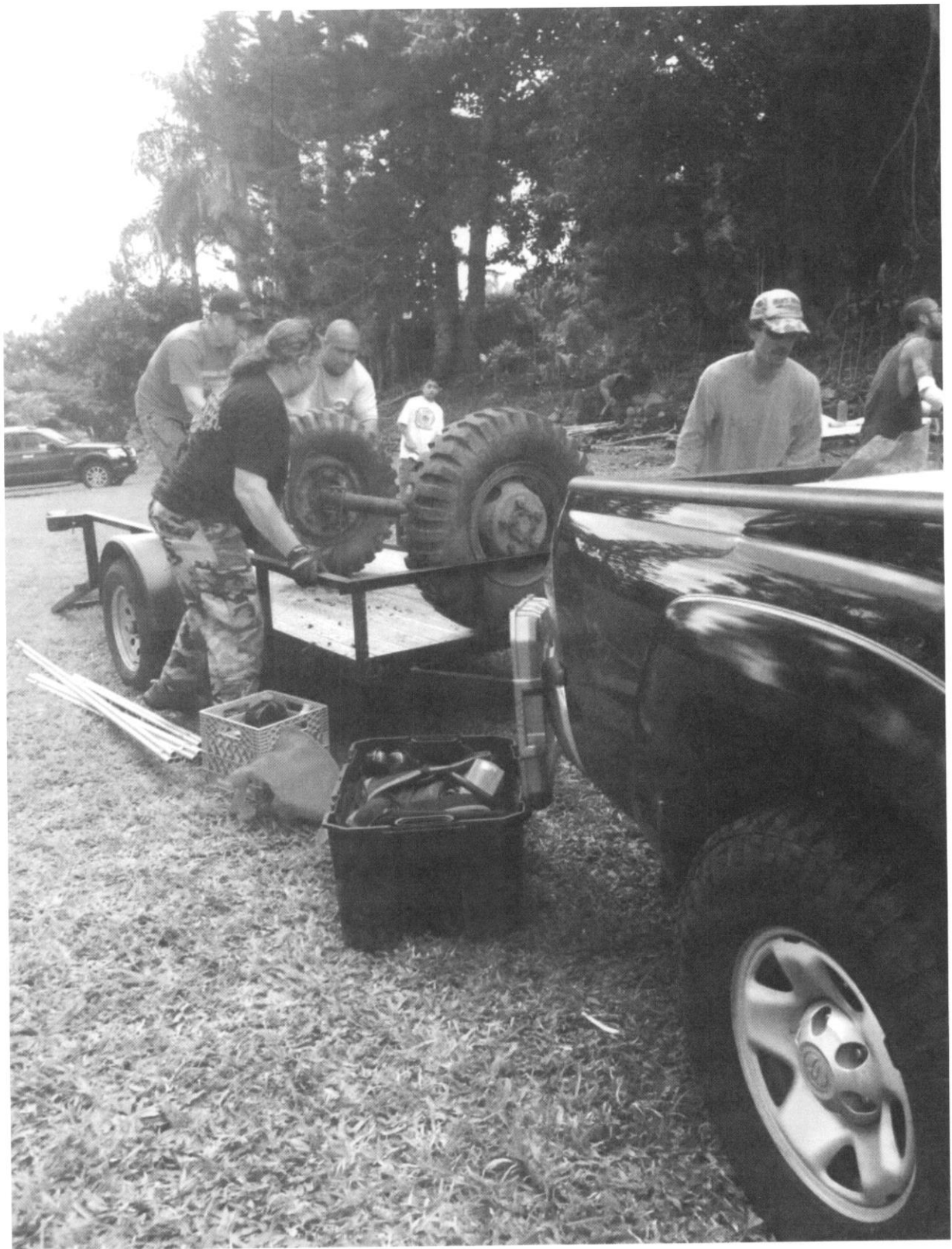
February 26, 2016

Community Mālama 'Āina Day at Koa'ekea. We continued to removed clumps of grass and invasive plants. Continued to remove lots of rubbish from the area. The Tolentino-Potter family's truck is the designated truck to haul away most of the rubbish. A large amount of people helped with weedeating the fence line and by the lower part of the parcel. More planting of native plants and trees and started a flower garden.

Provided Lunch for participants: Rice, Kalo, Poi, Kālúa, Chicken, and Lau Lau. Community members also contributed with bringing in food.









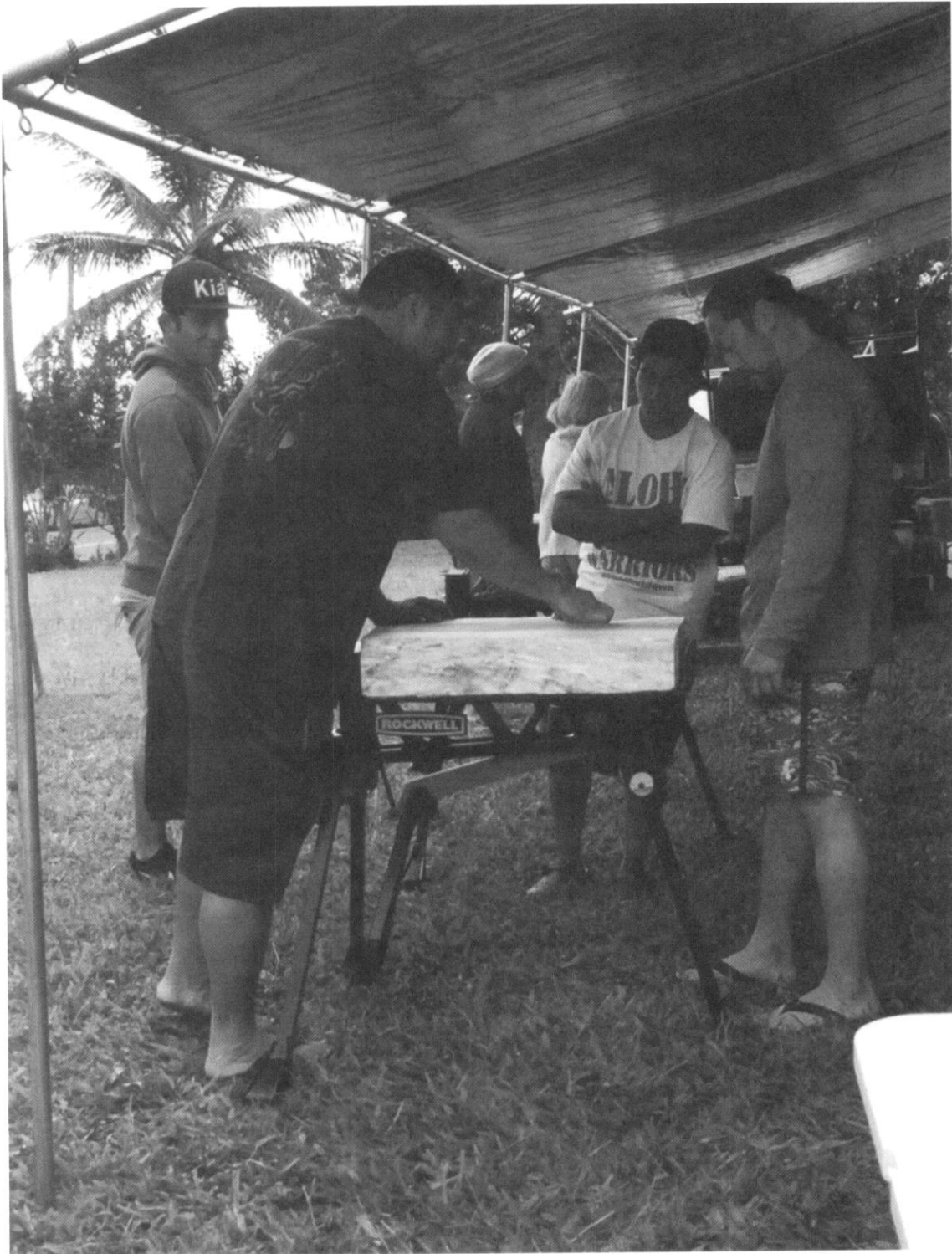


April 2, 23-24, 2016

Poi Board and Poi Pounder Workshop hosted by Pōhāhā I Ka Lani

People came to our farm in Waipi'o Valley and gathered slabs of monkey pod wood, others got Mango wood from Kona. As we offer such workshops in Ola'a, Puna at our other site, we wanted to invite those who wanted to learn how to make a poi board and poi pounder at Koa'ekea. We covered expenses for one of the alaka'i to fly in, the cost to purchase tools, supplies, a generator and food with non-PONC funds. Some participants brought food as well.

By the end of the weekend, everyone went home happily with a poi board and a poi pounder.





April 30, 2016

Koa'ekea Mālama 'Āina Day. The men focused on cutting the lunch wagon into sections to be able to remove it. The lunch wagon was left in the lower part of the parcel and a Banyan Tree was growing through it. Tractor loads of rubbish were hauled away. There were lots of people helping with removing of the invasive trees and plants. Lots of weedeating. Tree work with cutting the banyan tree down began.

We provided lunch for volunteers: Rice, Kalo, Lau Lau, Sandwiches, a wide range of fruits, salads, and snacks. Community members also brought in food such as poke, BBQ, steaks, and desserts.













May 21, 2016

Mālama 'Āina Day at Koa'ekea. Lots more rubbish hauled out from lower part of the parcel. Layers and layers of rubbish. Volunteers helped with weeding, weedeating, removal of invasive trees and plants and planting of native plants and trees.

We provided lunch for volunteers: Rice, Kālúa pig and cabbage, warabi salad, sandwiches, lots of fruits and snacks. Provided water and coconut water.







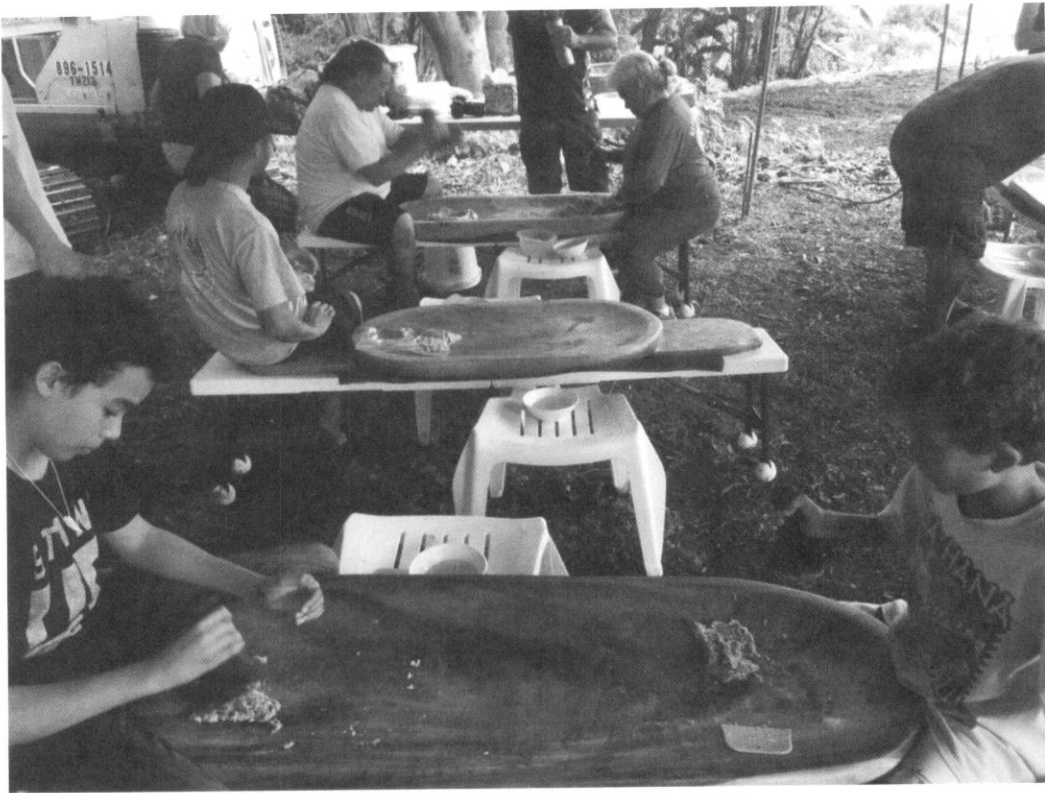


May 28 – June 2, 2016

UHH and Hcc students helped us with cleaning, weedeating and preparing the area for the Kalo Festival

June 4, 2016

Pōhāhā I Ka Lani participated in the community Kalo Festival event held at Koa'ekea, a first step in the Educational Program.



July 12, 2016

Tree work at Koa'ekea. A family that visits us from LA each summer came to help with weedeating and pulling weeds. The pictures will show a large chocolate albizia that uprooted itself years ago. Pōhāhā I Ka Lani took care of cutting sections of the tree.





July 30, 2016

Koa'ekea Mālama 'Āina Day.

August 6, 2016

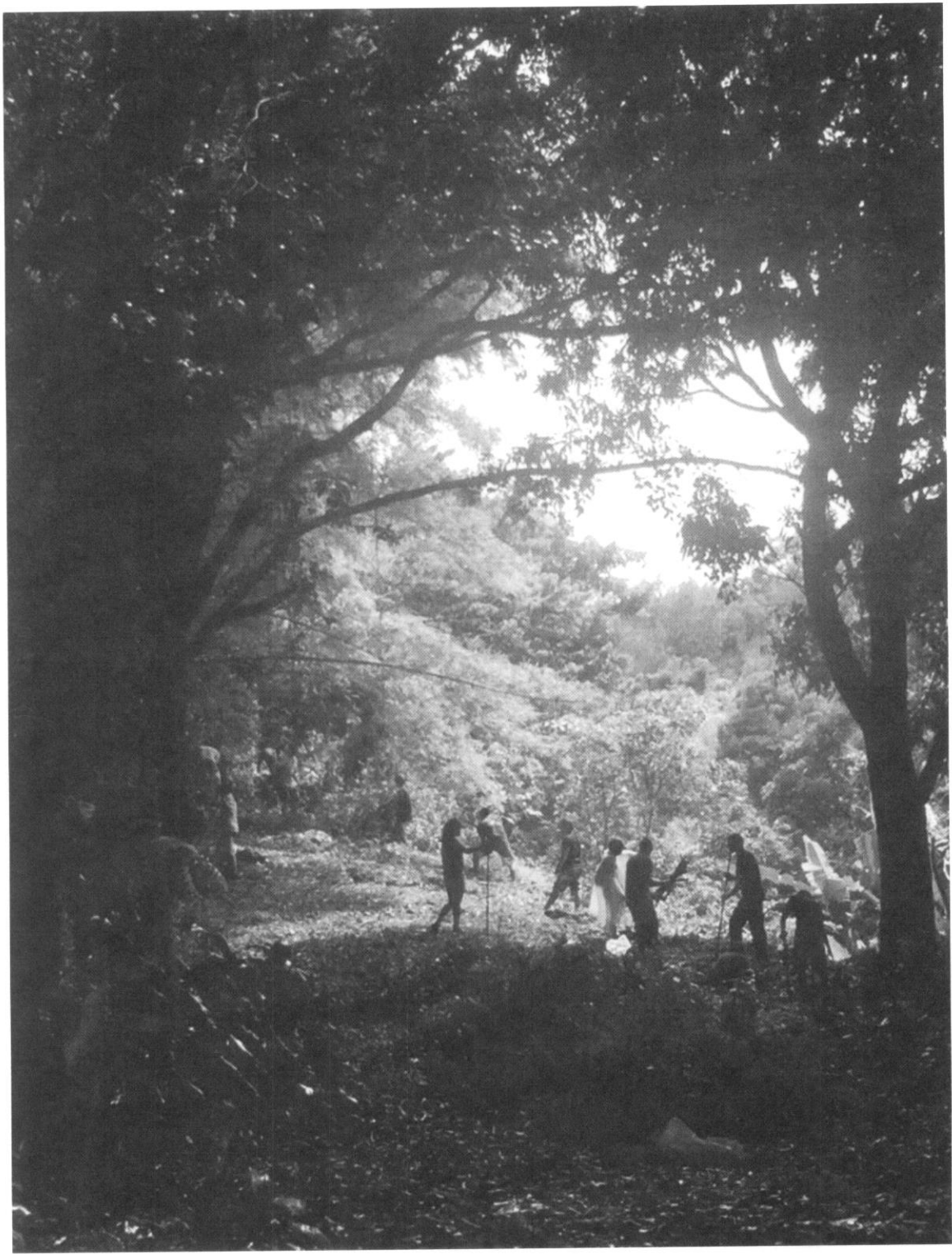
Koa'ekea Mālama 'Āina Day. In addition to our usual protocol and providing food for volunteers, we did a day of mahalo as Pōhāhā I Ka Lani celebrated 15 years of offering free programs and mālama 'āina projects. As part of this day, we had hula, a lā'au lapa'au workshop, lauhala weaving, free lomilomi, we gave away Pōhāhā I Ka Lani tshirts, bowls made with wood from our farm in Waipi'o Valley, provided an opportunity to taste 60 varieties of kalo, and help clear an area to plant many different varieties of kalo.

We provided lunch: Rice, Salad, kalo varieites to taste, a wide range of poi varieties to taste, kulolo, laulau, kālua, chili, lots of fruits and snacks. Water, coconut water, and mamaki tea.













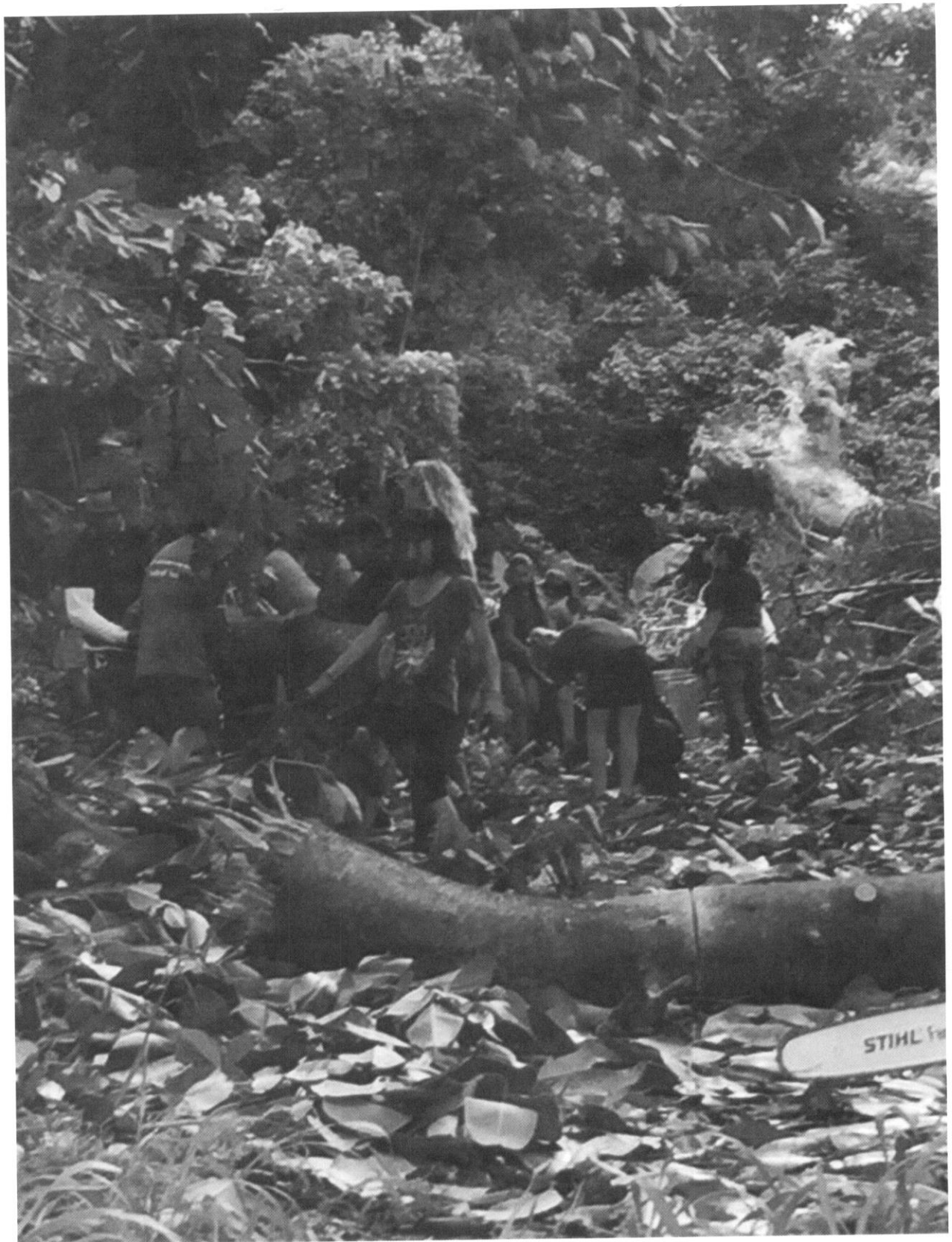


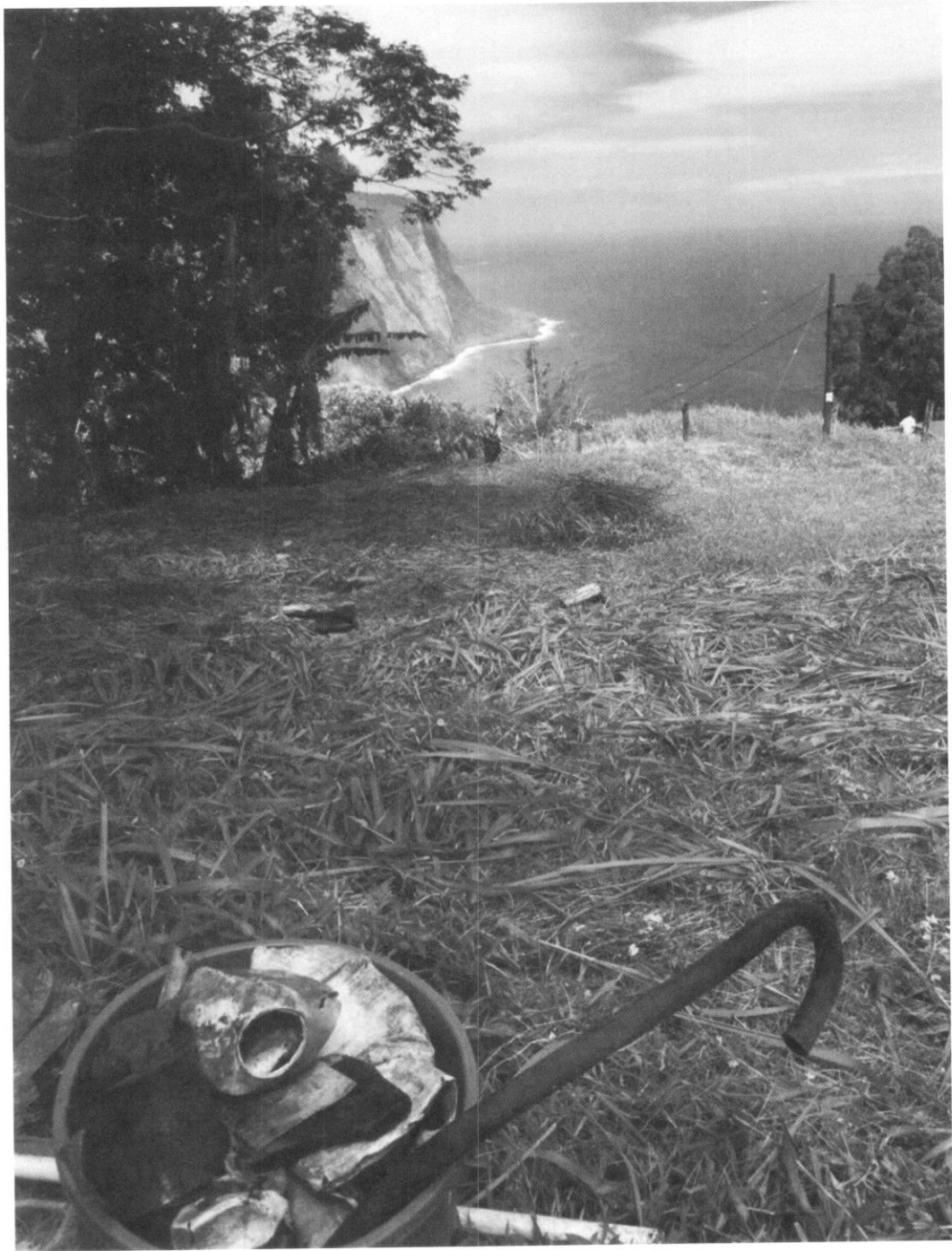
September 17, 2016

Koa'ekea Mālama 'Āina Day, Large turn out from Drew Kapp's UHH and HCC Geography Students. Lots of rubbish hauled away. Weedeating along the fence line and lower part of the parcel. Lots of removal of invasive trees, weeding, and planting. When the work was done we all gathered and as we do protocol/chants in the beginning, we ended with chants and accompanied the hei (string) movements to help tell our story.

Provided lunch for volunteers: Rice, Salad, Poi, Kalo, Lau Lau, Chicken, Subway Sandwiches.

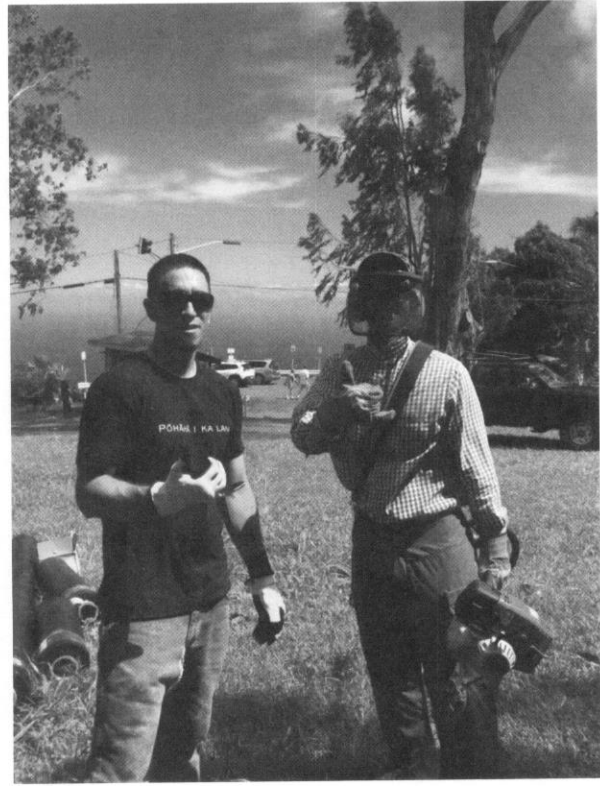




















In between hosting of groups and mālama 'āina days, Pōhāhā I Ka Lani would take care of the tree cutting of the larger trees on the site as their volunteer work.







November 11, 2016

HPA students came out to help clear an area for planting and helped us get ready for our community mālama 'āina day with makahiki celebration.



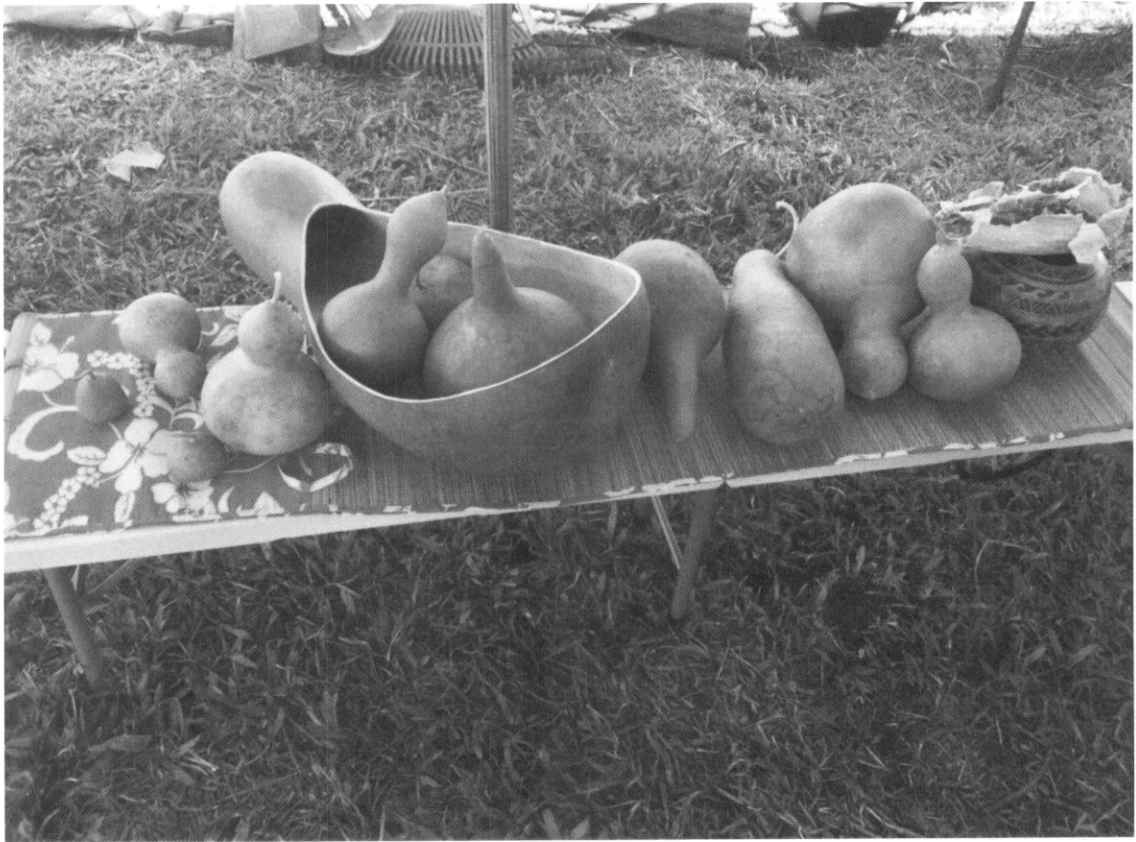


November 13, 2016

Mālama 'Āina Day at Koa'ekea and Makahiki Celebration. Community members brought plants to exchange with one another. Lots of planting of kalo and other native plants. We had displays of different varieties of gourds, art pieces made with it, displays of different produce, and we fed hundreds of people with food we harvested from our farm in Waipi'o Valley, at our parcel in Puna, and harvested kalo and lau from Koa'ekea. Community members also brought in food to share. We purchased two pahu (drums), 'ulu maika, moa pahe'e for this event. The singer Mana, who sings "Couldn't take the mana" flew down to perform for the community and Hualalai Keohulua with his band also performed.

It was a beautiful gathering which families enjoyed the music, ate lots of food, played makahiki games, planted crops, got to see beautiful displays, got to take home cuttings to plant in their own gardens and got to witness/join in the chanting to welcome the Makahiki runners who ran around the island of Hawai'i.











November 24, 2016 & December 3, 2016

Cleaning up Koa'ekea with community members. Tree cutting, planting, mulching around trees and plants. On the days we had the hired chipping crew, Pōhāhā I Ka Lani board members were on site to volunteer their time in assisting with cutting trees into sections and helping feed the wood into the chipper.



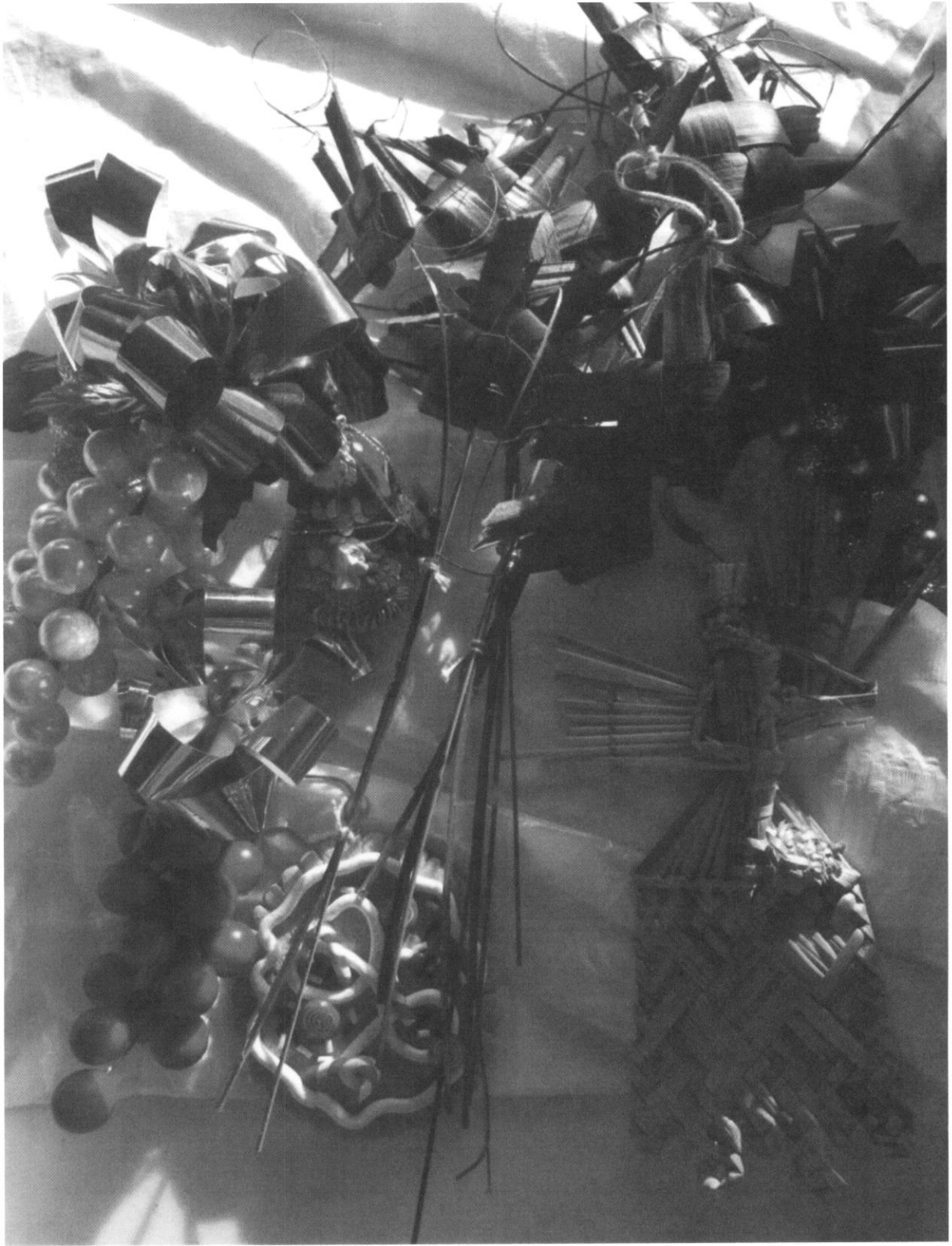
December 17, 2016

Community Mālama 'Āina day in which we partnered up with Hāmākua Health Center. Participants helped with planting, weeding, and weedeating. Each family received information from Hāmākua Health Center and received care packages, we also had an ornament exchange and other fun activities in celebration of the holidays. Pōhāhā I Ka Lanī provided additional gift baskets for each family, prizes for activities and lunch.









December 23, 2016

Community Christmas Party at Koa'ekea.



Work at Koa'ekea continues with chipping and finishing off with the tree cutting, weedeating, and lots of planting. Pōhāhā I Ka Lani members continued to volunteer countless hours to mālama Koa'ekea. Working along side people who were contracted to do tasks such as chipping.

Wood chips are utilized in gardens.













January 21, 2017

We hosted a mālama 'āina day at Koa'ekea in which musicians such as Reggae singer Mishka, Buckman Coe, Caleb Hart, a family from O'ahu flew down to help us and community members joined us in planting lots of kalo.

We provided lunch: Sushi, Chicken Lū'au, Kalo, Poi, Chicken Hekka, 'Ono and Ahi Fish and lots of different salads and snacks.















In between hostings, Pōhāhā I Ka Lani continued to cut the grass, weedeat, cut trees, weed, haul out rubbish, and plant more native plants and trees.



January & February 2017

In the months of the extension, a large amount of tree work was done by Pōhāhā I Ka Lani volunteer staff. The large grove of overgrown mango trees felled, the bamboo was thinned, the large African Tulip felled, and a numerous days of contracted chipping occurred. More loads of trash were removed as well.













February 19, 2017

We hosted Hālau Hula Kahikilaulani as they will be dancing a song that speaks of Waipi'o Valley. In exchange for us sharing with them mo'olelo (stories) and history of Waipi'o Valley, they helped us in planting cleaning/clearing Koa'ekea. Beautiful chants were chanted by the hālau as a mahalo.





Pōhāhā I Ka Lani with the help of one community member helped top 14 mango trees that were dense & spindly growing in front of the bamboo on the flat area. The mango trees seems to have rot and needed to be topped off for safety reasons.



Attachment #3

**2016 PONC Stewardship
Waipi'o Valley Lookout Property
Community Workday Flyers**



Waiipi`o Lookout

Community Pāina

Saturday January 16

9:00 am: Introduction

- Pule & Overview

9:30 am – 12pm: Mālama ‘Āina

- Community clean up

12pm – 3pm: Potluck & Pā‘ina

- Community talk-story

This is an ALCOHOL FREE event



**Music: Kalapana
Awa Band. 12-3pm**

Come join the renewed community stewardship of Koa‘ekea, aka the Rice Property and former residence of John Thomas. This Hawai‘I County PONC property was purchased for preservation with widespread community efforts.



Hosted by Pōhāhā I Ka Lani, a 501c3 non-profit organization,
through a Hawaii County Public, Open Spaces, and Natural
Resource Conservation (PONC) Stewardship Grant.



Koa'ekea Community Gathering

Saturday Feb. 27*

***Community
Planning & Workday
"Pupukahi I holomua"***

Schedule

10:00 am: Opening Pule

10:00 am – 12:30pm: Planning & Mālama 'Āina

- Community discussion, surveys and envisioning of property.
- Trash clean up and clearing. [TOOLS PROVIDED]

12:30: Lunch [FOOD PROVIDED]

- Talk story and continue planning discussion.

****This is an ALCOHOL FREE event****

This community gathering will be to begin the development of a community Site Plan and Educational Plan for the future of the Waipi'o Valley Lookout property and how it can play an important role in the overall stewardship of Waipi'o.



Hosted by Pōhāhā I Ka Lani, a 501c3 non-profit organization,
through a Hawaii County Public, Open Spaces, and Natural
Resource Conservation (PONC) Stewardship Grant.



***Koa'ekea
Community
Workday
Saturday Apr. 30
Waipi'o Lookout
Community
Planning & Workday***



Schedule

10:00 am: Opening Pule

10:00 am – 2:00pm: Mālama 'Āina

- Tree and debris clearing. [TOOLS and SAFETY GEAR PROVIDED]

2:00: Lunch - FOOD PROVIDED (*potluck welcome*)

- Summary & discussion of previous survey results.
- Upcoming workday announcements.

****This is an ALCOHOL FREE event****

This community gathering will be to continue the development of a community Site Plan and Educational Plan for the future of the Waipi'o Valley Lookout property and how it can play an important role in the overall stewardship of



Hosted by Pōhāhā I Ka Lani, a 501c3 non-profit organization,
through a Hawaii County Public, Open Spaces, and Natural
Resource Conservation (PONC) Stewardship Grant.





Koa'ekea Community Workday Saturday May 21

*"A'ohe hana nui ke alu 'ia." -
No task is too big when done
together by all."*

Schedule

10:00 am: Opening Pule

10:00 am – PAU: Mālama 'Āina

- **Focus:** Preparation for Waipi'o Valley Kalo Festival
 - Rubbish removal, grounds preparation, etc.
- **TOOLS and SAFETY GEAR PROVIDED**
- *Come when can to kōkua as a community.*

POTLUCK LUNCH - **This is an ALCOHOL FREE event**

As this is a community site, and the inaugural Waipi'o Valley Kalo Festival will be held here on June 4, this workday will be to focus on cleaning and preparing the site to welcome this exciting event for the community.



County of Hawaii
PONC Stewardship

Hosted by Pōhāhā I Ka Lani, a 501c3 non-profit organization,
through a Hawaii County Public, Open Spaces, and Natural
Resource Conservation (PONC) Stewardship Grant.



Pōhāhā I Ka Lani
pohahaikalani.com



Koa'ekea

Waipi'o Lookout

Community Workday **Saturday August 6th, 9am-3pm**

9:00 am: Protocol

Pule & Hula w/Halau Hula Helele'i Pua 'O Waipi'o

9:30 am - 12pm: Mālama 'Āina

'Ōpala removal

Lā'au lapa'au planting w/ Po'okela Kahuna Ikaika
Dombrigues

12pm - 3pm: Potluck & Community Gathering

Kalo Variety Tasting!

Wala'au & Planning

Volunteer Mahalo!

Lauhala w/ Debbie Toko

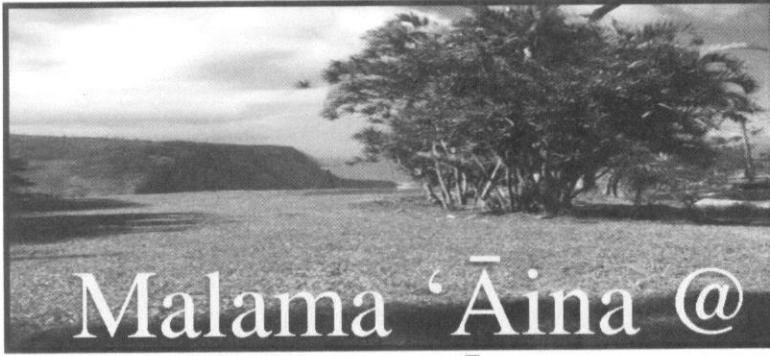
Lomilomi w/ Hale Ola

Pohahaikalani.com



Hosted by Pōhāhā I Ka Lani, a 501c3 non-profit organization,
through a Hawaii County Public, Open Spaces, and Natural
Resource Conservation (PONC) Stewardship Grant.





Koa'ekea

Malama 'Āina @

Waipi'o Lookout

Community Workday

Saturday Sept. 17th, 9am-3pm

9:00 am: Protocol

Pule & Opening

9:30 am – 12pm: Mālama 'Āina

- Trash removal
- Weedmat Installation
- Planting of Native Plants

12pm – 3pm: Potluck Lunch & Community Gathering

- Mo'olelo of Koa'ekea
- Wala'au & Planning

Pohahaikalani.com



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Makahiki @ Koa'ekea

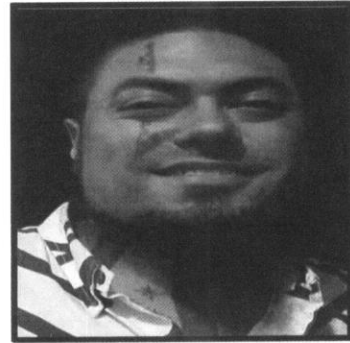
(Waipi'o Lookout)

Sun. Nov. 13th, Awakea (12pm)



Mālama 'Āina Music & Games Food

(ALCOHOL FREE event)



Mana Caceres

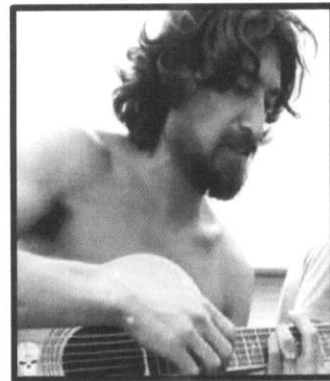
12:00pm: Protocol

- Pule & Overview

12:30 pm – Pau

- Door Prizes
- Mālama 'Āina
 - Kalo Planting & More
- Music & Games
 - Ulu maika, moa pāhe'e.
- Food

Hualalai Keohuloa



County of Hawai'i

Pōhāhā I Ka Lani



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Koa'ekea Gathering ***(Waipi'o Lookout)***



Sat. Dec. 17th, Awakea (12pm)

Community Planning Surveys

Share your mana'o for the purpose and use of this public open space and natural resource conservation parcel at the Waipi'o Valley Lookout.

Mālama 'Āina

Δ Final rubbish removal Δ Food plantings Δ And more Δ

Food
Treasure Hunt
Prizes
Ornament
Exchange

'Ohana Care
Package Giveaways
1st Annual
Hamakua-Kohala
Health Waipi'o
Valley Outreach



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Attachment #4

2016 PONC Stewardship Waipi'o Valley Lookout Property Aerial Mapping, Before & After



Koa'ekea

Waipi'o Valley Lookout PONC Stewardship



Pōhāhā I Ka Lani



July 5, 2016 Mapping: "BEFORE"

0 10 20 40 60 80
Meters



Mapping done in collaboration with University of Hawai'i at Hilo Geography Department Spatial Data Analysis & Visualization (SDAV) Lab.

Koa'ekea: Waipi'o Valley PONC Parcel



Dr. Ryan Perroy & Spatial Data
Analysis and Visualization Lab in
collaboration with Pōhāhā I Ka Lani



January 2017