

State of Hawai'i  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
Division of Forestry and Wildlife  
Honolulu, Hawaii 96813

March 8, 2013

Chairperson and Members  
Board of Land and Natural Resources  
State of Hawaii  
Honolulu, Hawaii

Land Board Members:

**SUBJECT: ACCEPTANCE OF A HEARING MASTER'S REPORT, WITHDRAWAL OF APPROXIMATELY 376 ACRES FROM SACRED FALLS STATE PARK AND SET ASIDE AS THE KALUANUI NATURAL AREA RESERVE, TMK 5-3-11:09 por, OAHU**

**BACKGROUND:**

Approximately 376 acres of a portion of parcel 09 of TMK: 5-3-11 is proposed as the Kaluanui Natural Area Reserve (NAR), under the Division of Forestry and Wildlife (DOFAW). Attachment 1 contains maps and a description of important stream, rare species, and watershed resources that led to this nomination.

Sacred Falls (Kaluanui) State Park is comprised of an entire ahupuaa from the Koolau summit to the ocean, within Kaluanui valley. The area proposed as a NAR is the *mauka* (upland) portion of Sacred Falls (Kaluanui) State Park above Kaliuwaa (the falls). This designation does not include the Sacred Falls (Kaluanui) trail and will not affect the closed status of that trail.

In 1999, after a fatal rockslide at the base of Kaliuwaa resulted in closure of the park, the Division of State Parks has been working with the community and contracted with Oceanit Laboratories to assess the area's risks and plan for the future uses of the park.

Community planning has focused on the public use of the park's lower section and the draft Master Plan supports the NAR designation for the area above Kaliuwa'a and beyond.

On June 4, 2012, the NAR Commission approved DOFAW's recommendation for the Kaluanui NAR. The Division of State Parks is in concurrence with this designation and agrees to the set aside of parklands to DOFAW. Additionally, conservation management actions to protect the remaining native dominated vegetation are being planned.

Approval to hold a public hearing was granted by the Board of Land and Natural Resources on October 12, 2012. Notice of public hearing was published pursuant to §195. A press release and notice of the hearing was issued to newspapers and to interested parties. A public hearing was held on January 23, 2013 in Hauula. DLNR staff and 5 members of the

public attended. Testimony from individuals included: 5 in support, 0 in opposition. Attachment 2 contains the hearing master's report as well as the full text of the testimony received on the proposal.

## DISCUSSION

The Division of Forestry and Wildlife (DOFAW) recommends this area to fulfill the NARS' mission to preserve in perpetuity specific land and water areas which support communities, as relatively unmodified as possible, of the natural flora and fauna, as well as geological sites, of Hawaii. Designation of this area as a NAR will add representative samples of the natural communities found on the windward Koolau Mountains.

## CHAPTER 343 – ENVIRONMENTAL ASSESSMENT:

This action before the Board represents a transfer in management jurisdiction and does not constitute a use of State lands or funds, and therefore, this action is exempt from the provisions of Chapter 343, HRS, relating to environmental impact statements. The Division of Forestry and Wildlife shall be responsible for compliance with Chapter 343, HRS, as amended for NARS program activities on the land that are not otherwise included in existing environmental compliance documents for that parcel. Pursuant to HAR § 11-200-8, foreseeable uses of the State lands by the NARS program include:

**Exemption Class:** DLNR, Division of Forestry and Wildlife, Class 1, Item 8

**Exempt Item Description:** Weed, brush and noxious tree control using hand tools, small motorized equipment (chainsaws and weedeaters), and approved herbicides on DOFAW program areas, campsites, picnic grounds, viewpoints, baseyards, wildlife water units, trails, captive propagation facilities, arboreta, plant nurseries, checking stations, and public use facilities.

**Exemption Class:** DLNR, Division of Forestry and Wildlife, Class 1, Item 17

**Exempt Item Description:** Animal damage control actions, when needed to maintain resource values, in Division of Forestry and Wildlife (DOFAW) program areas, including application of approved rodenticides, and ungulate removal.

**Exemption Class:** Department of Land and Natural Resources Class 3, Item 1

**Exempt Item Description:** Fences around or to manage threatened or endangered plants; covered and open areas for endangered species, game birds and mammals; auxiliary buildings for food storage, equipment storage, incubators and brooders; open-top breeding and release pens, field aviaries and hacking boxes; and for watershed and native forest management and restoration. Fences shall contain step-overs or other features that permit pedestrian access for cultural and recreational use.

**Exemption Class:** Department of Land and Natural Resources Class 3, Item 2

**Exempt Item Description:** Cabins, resident workers' quarters, warehouse workshops, mobile camping structures, weather stations, checking stations for hunters, hikers, and campers; meat safes, viewing kiosks and platforms, wildlife viewing towers, sanitary facilities, trail shelters, equipment shelters, fire equipment caches, arboreta, and plant nurseries.

**Exemption Class:** Department of Land and Natural Resources Class 4, Item 1

**Exempt Item Description:** Establishment of helispots.

**Exemption Class:** Department of Land and Natural Resources Class 4, Item 7

**Exempt Item Description:** Establish temporary or permanent vegetative cover including trees, shrubs and grasses for landscaping, reforestation, soil stabilization, and wildlife habitat.

**Exemption Class:** Department of Land and Natural Resources Class 5, Item 2

**Exempt Item Description:** Game and non-game wildlife surveys, inventory studies, new transect lines, photographing, recording, sampling, collection and captive propagation (involves walking, driving, and flying in the field, helicopters, light aircraft), use of nets and firearms, temporary traps including snares, mist nets, corral traps, drop door traps or leg hold traps.

**Dates of Agency Exemption Lists:** July 18, 2011, June 12, 2008

**RECOMMENDATIONS:** That the Board:

- 1) Accept the Hearing Master's Report (Attachment 2).
- 2) Approve of and recommend to the Governor the issuance of an executive order withdrawing approximately 376 acres from the Sacred Falls (Kaluanui) State Park, TMK 5-3-11:09 por, Kaluanui, Oahu and further subject to the following:
  - a. The standard terms and conditions of the most current executive order form, as may be amended from time to time;
  - b. Disapproval by the Legislature by two-thirds vote of either the House of Representatives or the Senate or by a majority vote by both in any regular or special session next following the date of the setting aside;
  - c. Review and approval by the Department of the Attorney General; and
  - d. Such other terms and conditions as may be prescribed by the Chairperson to best serve the interests of the State.
- 3) Approve of and recommend to the Governor the issuance of an executive order setting aside approximately 376 acres, TMK 5-3-11:09 por, Kaluanui, Oahu, to the State of Hawaii, Department of Land and Natural Resources, Division of Forestry and Wildlife, for the Kaluanui Natural Area Reserve, under the terms and conditions

cited above, which are by reference incorporated herein and subject further to the following:

- a. The standard terms and conditions of the most current executive order form, as may be amended from time to time;
- b. Disapproval by the Legislature by two-thirds vote of either the House of Representatives or the Senate or by a majority vote by both in any regular or special session next following the date of the setting aside;
- c. Review and approval by the Department of the Attorney General; and
- d. Such other terms and conditions as may be prescribed by the Chairperson to best serve the interests of the State.

Respectfully Submitted,



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ROGER H. IMOTO, Administrator  
Division of Forestry and Wildlife

APPROVED FOR SUBMITTAL



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WILLIAM J. AILA, JR., Chairperson

Attachments

# PROPOSAL FOR THE KALUANUI NATURAL AREA RESERVE

2013

## I EXECUTIVE SUMMARY

The *mauka* (upland) portion of Sacred Falls State Park, on the island of O‘ahu, is proposed for inclusion in the State of Hawai‘i Natural Area Reserve System (NARS). This area does not include the Sacred Falls trail and will not affect the closed status of that trail. The Kaluanui NAR will contain unique lowland wet ecosystems in the windward Ko‘olau mountains, including a stream with outstanding biodiversity.

## II INTRODUCTION (General)

This Reserve would include an area of approximately 376 acres of the Kaluanui valley *mauka* of Kaliuwa‘a falls (Sacred Falls) up to and over the Ko‘olau crest in the Ko‘olauloa and Waialua districts, in portion of TMK 5-3-11:09 por (See attached map).

Kaluanui stream is very biologically rich as one of the few unaltered streams on O‘ahu, and contains the full assortment of native fishes. The proposed NAR contains ‘ōhi‘a and uluhe-dominated forests (US Dept. of Interior, 2006).

The inclusion of this area into the NARS would increase the representation of O‘ahu’s lowland wet and wet cliff ecosystems which are found in only tiny sections of existing O‘ahu Reserves (Ecoregional Planning Team, TNC, 2006).

There are records of twenty-nine endangered, candidate, or species of concern in the area (See Appendix 1). The proposed Reserve falls within Federally designated Critical Habitat for twelve plant species.

Geologically, this area is a steep amphitheater-headed valley. Four small tributaries feed Kaluanui stream. From the headwaters, the valley becomes much steeper around the 487m (1600ft) elevation, where a series of large waterfalls begin, which is the *makai* (lowest elevation) boundary of the proposed Reserve.

## III BACKGROUND AND HISTORY

### *Past Land Use and Conservation History*

While the lower section of Kaluanui valley outside of the proposed Reserve has many archeological signs of inhabitation and cultivation from pre-European times, there is little evidence of use *mauka* of Kaliuwa‘a falls (Yent, et al. 1981).

The Castle Trail which leads through the area was blazed in 1906, which was extended throughout the summit in the 1930s (Ball, 2000).

The State acquired the park from Bishop Estate in 1977 after proposed private development plans led to the Legislature appropriating funds for the acquisition.

Since the designation of the park, the area has been monitored by various scientists from DLNR, as well as the U.S. Army’s Natural Resources Program, Bishop Museum, and other conservation and data-collection entities. In 1990 the Hawai‘i Stream Assessment ranked Kaluanui an “Outstanding” stream, and following in 1998, was nominated by the Multi-Attribute Prioritization of Streams as a Potential Heritage Stream (Hawai‘i Watershed Atlas, 2008).

In 1999, after a fatal rockslide in the lower section, the park became closed. Subsequently, the Division of State Parks has involved the community as well as contracted Oceanit Laboratories to assess the risks and to plan for the future of the park.

Recently, portions of the very southernmost tip at the Ko'olau crest have been fenced to remove feral pigs as part of the U.S. Army's Natural Resources Program's Pe'ahināi'a and Helemano Exclosures. These adjacent exclosures, which together enclose an area of 275 acres, cover approximately 64 acres of State Park land.

#### *Present Land Use and Access*

State Parks has conducted a community planning process for the Park, which has focused mainly on the lower section of the park. However the Kaluanui Master Plan recommends that the "DLNR and community designate a large portion of the park a NAR" (Oceanit, 2004, p. 15).

Access to all areas of Sacred Falls State Park is closed to the general public. Access to the proposed Reserve requires at the minimum a five-mile round-trip hike and an elevation gain of 2,200 ft through various unofficial, unmaintained, long, and difficult trails. These accesses require landowner permission as they traverse private property.

#### *Cultural/Recreational Uses*

This area contains plants and animals that Hawaiians traditionally collect for practical, medicinal, decorative, and spiritual uses (Gutmanis, 1979, Krohn, 1978). Some of these plants and animals are considered sacred to certain gods or because they are associated with cultural practices (Kanahele, 1986). Preservation of these species is essential to the continuation of traditional Hawaiian cultural practice.

Lower in the valley, outside of the proposed Reserve is Sacred Falls or Kaliuwa`a. The Kaliuwa`a chute is legendary as originating from a deity named Kamapua`a, who leaned on the side of the valley to escape from Olopana, the King of O`ahu.

Currently, some intrepid hikers visit this area. As this area is not part of a hunting unit, no information is known about poaching in the park above the falls.

#### *Previous Studies*

Kaluanui stream has been surveyed at least a dozen times since 1929; however most have sampled the lower reaches of the stream outside the NAR boundary (Parham et. al., 2008).

Biological and archeological survey efforts for the Division of State Parks have focused on the lower section of the park. However, botanical surveys over the years have located various rare plant and snail population data, which is listed in Appendix 1. Ko'olau Mountains Watershed Partnership has obtained high resolution aerial mapping of the area, which aids in determining invasive species populations.

## IV JUSTIFICATION (Specifics)

#### *Scientific Value*

Kaluanui is scientifically significant for its perennial undiverted stream, and largely intact lowland wet forests and cliffs, which contain rare plant, damselfly, and snail populations. Preservation of these biological resources will allow future generations to study and learn

about a native Hawaiian ecosystem in the windward Ko`olau mountains.

#### *Representativeness*

Kaluanui NAR represents a windward Ko`olau mountain stream and forest ecosystem. Hawai`i Revised Statutes Chapter 195 established the NARS “to preserve in perpetuity specific land and water areas which support communities, as relatively unmodified as possible, of the natural flora and fauna, as well as geological sites, of Hawai`i.”

Currently, no NARS exist in the Ko`olau mountains, however an area on the leeward Ko`olau Mountains named Poamoho has also been nominated as a NAR.

The current and proposed O`ahu NARS do not contain the stream resources and many of the rare plant and snail species found in the proposed Kaluanui NAR.

#### *Natural Communities and their Status*

Lower portions of the proposed reserve have been invaded by *Psidium cattleianum* (Strawberry Guava), which thins out further *mauka* and is only occasionally seen as individual trees at the Ko`olau crest. *Clidemia hirta* is also prevalent in the lower sections, especially near the stream bed, and can be found throughout the proposed Reserve. Despite these major threats, as well as the threats posed by less established alien species, a relatively intact native ecosystem remains, especially in the *mauka* regions.

The lower and middle reaches of Kaluanui stream have been invaded by 23 recorded alien aquatic species. However, only one – *Macrobrachium lar* (Tahitian prawn) has been recorded in the upper reaches of the stream, and none from the headwaters (Parham et. al, 2008). It is likely that waterfalls such as Kaliuwa`a act as natural barriers to the spread of many of these non-native species.

#### *Rarity*

Appendix 1 lists the 29 rare plant and invertebrate species that have been recorded in the proposed Reserve. The stream ecosystem itself is rare, as one of the only undiverted and unchannelized streams left on O`ahu.

#### *Biological/Ecological Design*

The boundaries of the proposed Reserve were designed to include where native – dominated vegetation exists and follows natural boundaries of ridgelines. The lower boundary terminates at the first large waterfall of Kaluanui stream.

#### *Location and Size*

The east side roughly follows a ridge separating Punalu`u valley, and a 64-acre sliver of the parcel also extends over the Ko`olau crest over to the leeward side. From there, the parcel’s boundary does not follow natural features until approximately the 2,600 ft elevation, which is also at the point of the intersection of the Castle Trail. From there, the boundary roughly follows the ridge that divides Kaluanui Valley from Punaiki gulch to the West.

The *makai* boundaries terminate at two prominent hills at the 2,260 ft elevation on the west side of Kaluanui valley, and 2,440 ft elevation on the east side of the valley. These boundaries include most of the portion of the Castle Trail that is within the valley.

### *Threats (Human/Biological)*

High priority threats to Kaluanui ecosystems are invasive plant species and feral pigs. Additionally, rats and predatory invertebrates such as the *Euglandina rosea* threaten the native snail species, and native plants. Introduction of aquatic insects and fishes is also a threat to the high quality stream.

The Ko'olau Mountains Watershed Partnership (KMWP) has specifically prioritized the protection of the Kaluanui drainage from feral ungulates. Their management plan's summary of recommended actions for their feral animal program includes "Expand upon established fencing exclosures, in areas such as... Upper Kaluanui" (KMWP, 2002).

### *Present Level of Protection*

The proposed NAR is in the Conservation District, Protective and Limited subzones.

In 1999, the area became part of the Ko'olau Mountains Watershed Partnership, a voluntary alliance of landowners and land managers committed to the common value of protecting forested watersheds for water recharge, and other ecosystem services through collaborative management.

On-the-ground conservation efforts have been concentrated at the Ko'olau summit crest region of the proposed Reserve, which includes the work done by KMWP and the O'ahu Army's Natural Resources Program.

### *Long-term Ecological Viability/Environmental Consequences of No Action/Urgency*

Designating this important core section of lowland wet forest, cliff, and stream as a NAR would enhance the ability of the System to participate and contribute to conservation and restoration actions across the entire watershed.

As this area has already experienced native species extinctions, and contains many species that are in danger of extinction, it is projected that no management action would lead to eventual loss of additional species.

## V. MANAGEMENT NEEDS

### *Threats Requiring Management*

Management priorities include removing feral pigs, which trample and devour vegetation and spread the seeds of invasive weeds. Removal of invasive plant species is also a very high priority management action. Removing or reducing the amounts of predatory mammals and invertebrates, such as rats and the cannibal snail *Euglandia rosea*, is needed near the existing snail and rare plant populations. Outplanting may be needed to preserve populations of very rare and endangered species. Infrastructure to support management may also be required, including helicopter landing zones, weatherports/cabins, monitoring equipment, and trails.

## VI. PUBLIC SUPPORT

### *Agencies, Organizations, and Individuals Contacted\**

\*Interested parties will be notified and a formal public hearing and comment period will occur for this nomination pursuant to Hawaii Revised Statutes § 195-4.



## VII. BIBLIOGRAPHY/REFERENCES

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## Appendix 1

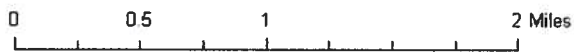
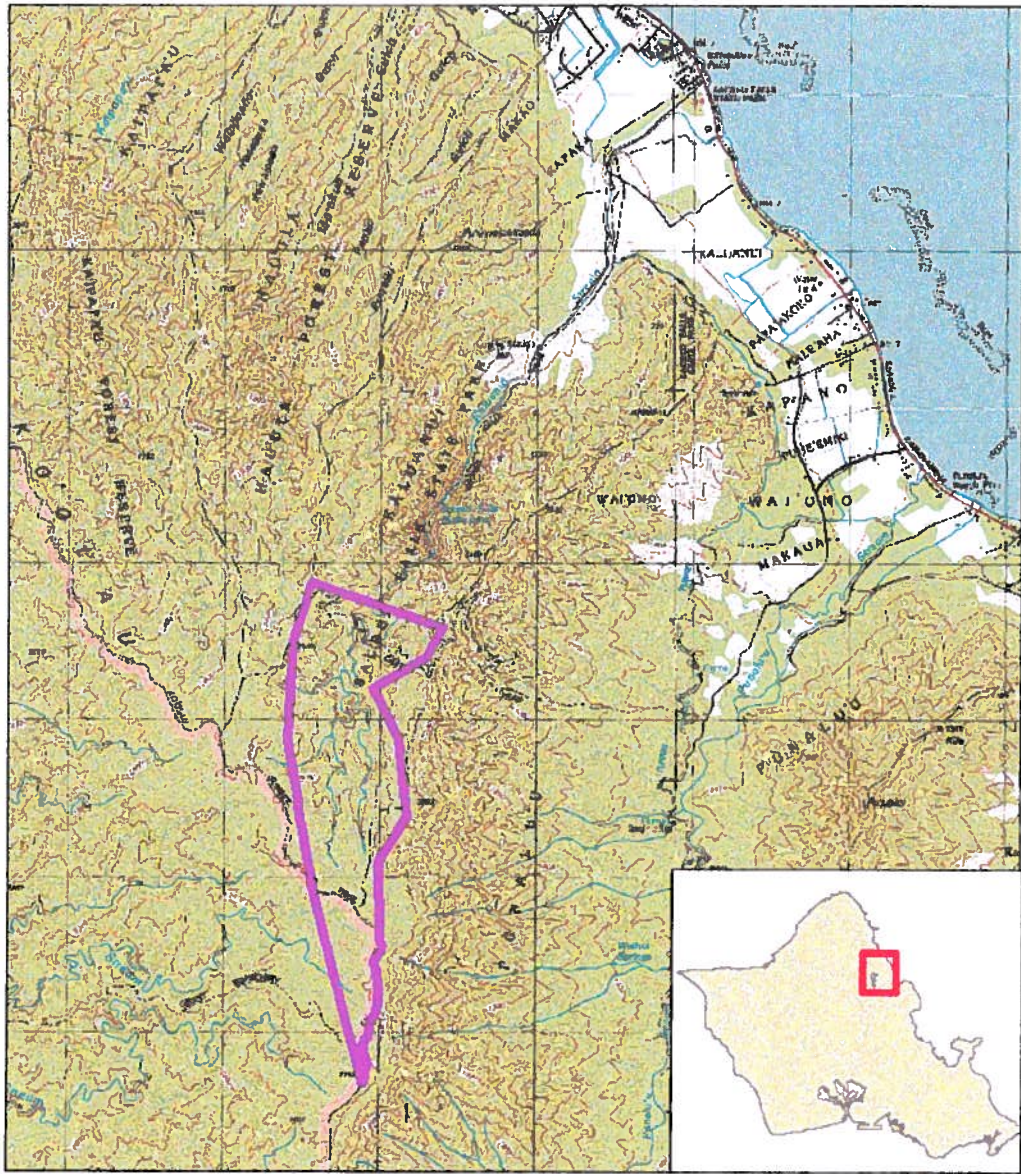
### Rare Species Recorded in the Proposed Kaluanui NAR

Scientific Name	Common Name	Federal Status*	Last Obs.	Type	PEP**
<i>Plantago princeps</i> var. <i>longibracteata</i>	Ale	E	1976	Plant	
<i>Viola oahuensis</i>		E	2009	Plant	
<i>Myrsine juddii</i>	Kōlea	E	1997	Plant	
<i>Pteris lidgatei</i>		E	2011	Plant	PEP
<i>Hesperomannia arborescens</i>		E	1997	Plant	
<i>Cyanea acuminata</i>	‘Ōhā, Hāhā, ‘Ōhā wai	E	2011	Plant	
<i>Tetraplasandra gymnocarpa</i>	‘Ohe ‘ohe	E	2009	Plant	
<i>Gardenia mannii</i>	Nānū, Nā ‘ū	E	2001	Plant	
<i>Chamaesyce rockii</i>	‘Akoko	E	2011	Plant	
<i>Cyrtandra viridiflora</i>	Ha ‘iwale, Kanawao Ke ‘oke ‘o	E	2001	Plant	
<i>Phyllostegia hirsuta</i>		E	2011	Plant	PEP
<i>Pteralyxia macrocarpa</i>	Kaulu	E	1995	Plant	
<i>Cyanea lanceolata</i> ssp. <i>calycina</i>		E	2009	Plant	
<i>Cyanea calycina</i>	‘Ōhā, Hāhā, ‘Ōhā wai	C	2011	Plant	
<i>Joinvillea ascendens</i> ssp. <i>ascendens</i>	‘Ohe	C	1999	Plant	
<i>Platydesma cornuta</i> var. <i>cornuta</i>	Pilo kea	E	1997	Plant	
<i>Bidens campylotheca</i> ssp. <i>campylotheca</i>	Ko ‘oko ‘olau, Kōko ‘olau	SOC	1988	Plant	
<i>Cyanea purpurellifolia</i>	‘Ōhā, Hāhā, ‘Ōhā wai	E	1997	Plant	PEP
<i>Lobelia gaudichaudii</i> ssp. <i>Gaudichaudii</i>		SOC	2001	Plant	
<i>Lentipes concolor</i>		SOC	1990	Fish	
<i>Megalagrion nigrohamatum</i> <i>nigrolineatum</i>		E	2011	Insect	
<i>Achatinella pulcherrima</i>		E	1993	Snail	
<i>Achatinella decipiens</i>		E	2011	Snail	
<i>Achatinella bulimoides</i>		E	2011	Snail	
<i>Achatinella sowerbyana</i>		E	2011	Snail	
<i>Cyanea st. johnii</i>		E	2011	Plant	PEP
<i>Megalagrion oceanicum</i>		E	2011	Insect	
<i>Lobelia oahuensis</i>		E	2009	Plant	
<i>Anoechtochilus sandvicensis</i>		SOC	2011	Plant	


**Federal Status\*** E = Endangered, C = Candidate for Listing, SOC = Species of concern  
**PEP.\*\*** Plant Extinction Prevention species (fewer than 50 individuals remaining in the wild)



# Proposed Kaluanui NAR



### Legend

 Proposed Kaluanui NAR

NEIL ABERCROMBIE  
GOVERNOR OF HAWAII



**STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES**

DIVISION OF FORESTRY AND WILDLIFE  
1151 PUNCHBOWL ST., ROOM 325  
HONOLULU, HAWAII 96813

WILLIAM J. AILA, JR.  
CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

ESTHER KLA'AINA  
FIRST DEPUTY

WILLIAM M. TAM  
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
BUREAU OF CONVEYANCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
CONSERVATION AND COASTAL LANDS  
CONSERVATION AND RESOURCES ENFORCEMENT  
ENGINEERING  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAIKOOLOAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

February 8, 2013

Chairperson and Members  
Board of Land and Natural Resources  
State of Hawai`i  
Honolulu, Hawai`i

Land Board Members:

**SUBJECT: MASTER'S REPORT ON PUBLIC HEARING**

In accordance with the Notice of Public Hearing published in the Honolulu Star Advertiser, December 14, 2012, and as authorized by the Board of Land and Natural Resources, I have conducted a public hearing relative to the proposed set aside of approximately 376 acres as the Kaluanui Natural Area Reserve, withdrawn from Sacred Falls (Kaluanui) State Park, TMK 5-3-11:09 por, Kaluanui, Oahu. The hearing was held on January 23, 2013 at 6:00pm at the Queen Liliuokalani Children's Center, 53-516 Kamehameha Highway, Hauula, HI 96717.

**DLNR Staff**

Marigold Zoll, DOFAW  
David Smith, DOFAW  
Betsy Gagne, DOFAW  
Emma Yuen, DOFAW  
Lauren Tanaka, State Parks

**Hearing Attendees**

Barbara Kahana, Hauula  
Creighton Matoon, Hauula  
Kent Fonomoana, Kahuku  
Aliitasa Ponder, Kahuku  
Winona Kaniho, Kaaawa

**Public Testimony Received**

Barbara Kahana: I support the effort.

Creighton Matoon: I support the proposal and would urge there be adequate funding to operate the program.

Kent Fonomoana: I support the proposal and echo Creighton's comments with the caveat that it not be a PLDC thing.

Aliitasa Ponder: I support the proposal. It's very reassuring to know there is a group of people dedicated to keep the best of what we have stays that way. I'm happy to provide whatever support I can.

Winona Kaniho: I support the proposal but there is just a few here from the community, so this is just my personal comment, not for the community.

No written testimony was received.

A handwritten signature in black ink, appearing to read "Marigold Zoll". The signature is written in a cursive, flowing style.

Marigold Zoll,  
Natural Area Reserves System Oahu Manager