

Bartlett, Randy

From: Bartlett, Randy
Sent: Wednesday, August 26, 2009 11:28 AM
To: 'Dawn.T.Hegger@hawaii.gov'
Cc: Chris Brosius; Randall W. Kennedy (Randall.W.Kennedy@hawaii.gov); 'Christen.W.Mitchell@hawaii.gov'
Subject: Request for SPA under CDUA MA-2111 for 8' Axis Deer Fence
Contacts: Dawn Hegger
Attachments: 20090715 PKW_Deer Fence.jpg; 20090615 Draft DOH_WMMWP-PKWBoundaryFenceProposal_cnb.doc

Aloha Ms. Hegger:

In order to erect an 8' high field fence to prevent the incursion of Axis deer (*Axis axis*) into Maui Land & Pineapple Company, Inc.'s (ML&P) Pu`u Kukui Watershed (PKW) Preserve, ML&P requests a Site Plan Approval (SPA) under CDUA MA-2111, pursuant to L-7, STRUCTURES, ACCESSORY, B-1, "construction or placement of structures accessory to an existing structure, building, or facility under an existing conservation district use permit. Accessory uses shall be allowed only if they are consistent with the purpose of the conservation district."

ML&P's PKW Preserve department, via the West Maui Mountains Watershed Partnership, proposes to install approximately 1.2 miles of "Axis Deer-proof" fence stretching from Honokohau to Honolua valleys on ML&P lands on West Maui. Please see the attached map and the attached draft proposal for visual representations of the proposed fence location in relation to the conservation district for the purposes of this request. While a significant portion of the proposed fence crosses over Agriculture-zoned land, the two end sections of the fence are planned to be installed on conservation-zoned lands; thereby necessitating this SPA request.

Please let me know if you need this request on ML&P letterhead and/or on hard copy via USPS or other carrier, or if you require any further documentation, etc. to initiate an ATF SPA as requested here.

Mahalo nui loa no kou kōkua,

Randy Bartlett
 Watershed Manager, Pu`u Kukui Watershed Preserve
 Maui Land & Pineapple Company, Inc.
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mauland.com/puukukui.shtml

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8/26/2009

Headwaters Protection
for the
Honolua, Pohakupule and Honokohau Streams

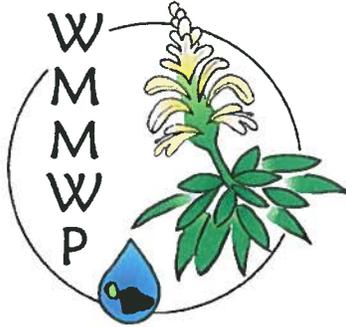
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2009 SEP -2 A 8:14

DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

A Proposal to the State of Hawaii Dept. of Health
June 15, 2009

Proposed by:



West Maui Mountains
Watershed Partnership

County of Maui
Ka'anapali Land Company, LLC
Kahoma Land, LLC
Kamehameha Schools
Makila Land Company, LLC
Maui County Department of Water Supply
Maui Land & Pineapple Company, Inc.
State of Hawaii, Department of Land and Natural Resources
The Nature Conservancy
Wailuku Water Company, LLC

Prepared by:
Chris Brosius
Watershed Coordinator
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Headwaters Protection for the Honolua, Pohakupule and Honokohau Streams

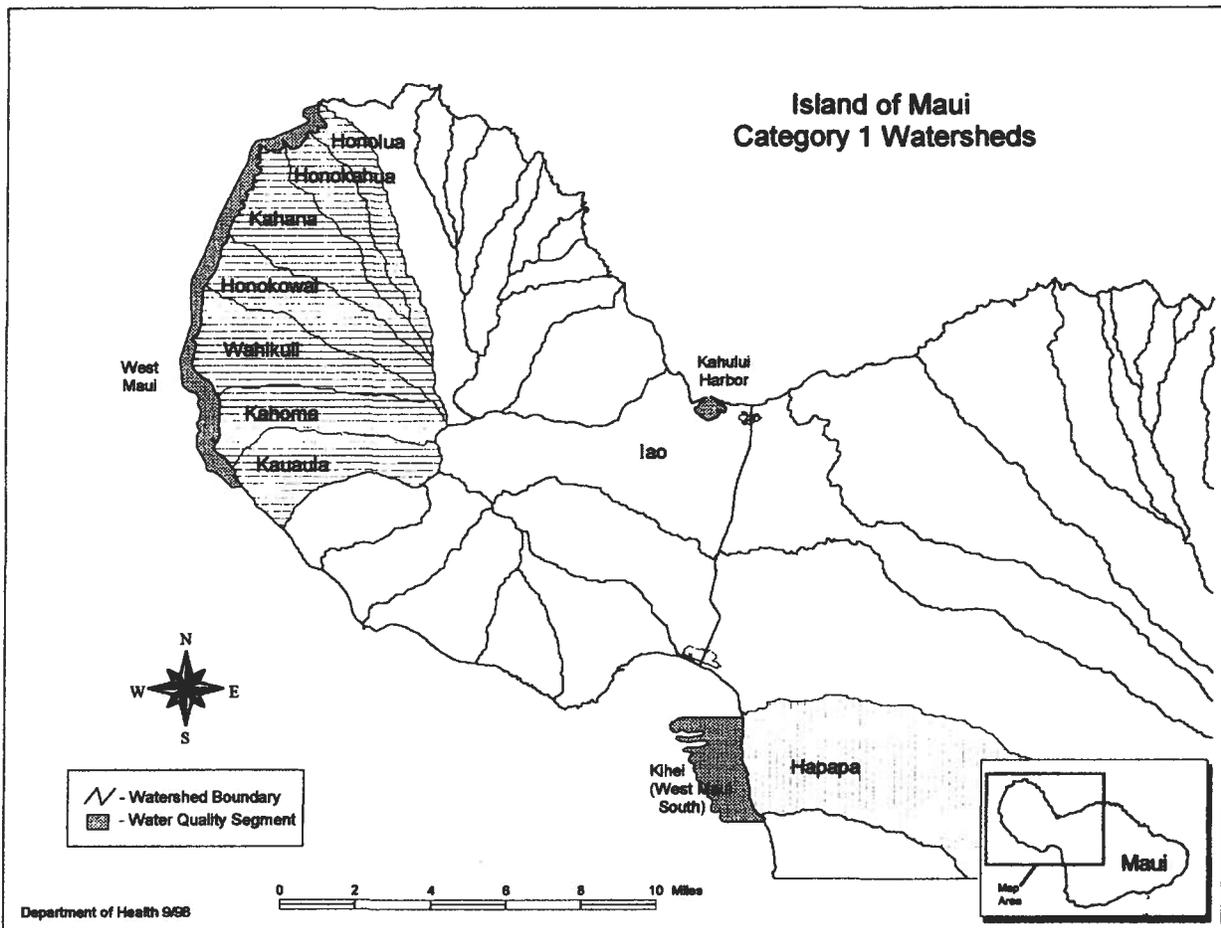
SUMMARY

The purpose of this project is to construct a fence that will protect and restore native forest and stream ecosystems of the Pu'u Kukui Watershed Preserve on the island of Maui which are being impacted by feral ungulates. This restoration effort entails the construction of a 2 mile portion of an overall 7 mile long and 8 foot high fence that will exclude feral pigs (*Sus scrofa*), cattle, (*Bos primigenius taurus*) and Axis Deer (*Axis axis*) from the watershed. Once the fence is built it will also allow for the subsequent removal of these species from within proposed fencing with other funding. Pre and post monitoring efforts will depict the degree of ungulate impacts and anticipated improvement of vegetative cover and water quality in project area streams. We are hopeful that the lessons learned from this project can be replicated to other watersheds facing similar impacts to water quality within WMMWP lands and throughout the state.

BACKGROUND

The Pu'u Kukui Watershed Preserve (PKW) was established as a 8,300 acre private nature preserve via conservation easement in 1992 by the Maui Land & Pineapple Co. The project will provide protection to approximately 6,999 acres of habitat in West Maui, Hawaii (see project area map D, p13.) On the regional level, the project is a vital link in solidifying efforts to protect lands of the 50,000 acre West Maui Mountains Watershed Partnership (WMMWP)(see project area map C, p12.). Mutual benefit from the project will be realized by PKW and other adjacent landowning members including 2 State Natural Area Reserves, a Nature Conservancy Preserve and other forest reserve lands which provide high quality source water for the Maui community.

Currently a combination of small strategic fences, ungulate control and rugged topography have helped to exclude ungulates from higher elevation areas of the Pu'u Kukui Watershed Preserve. Notable recovery of habitat has been observed in these areas, as well as increased regeneration rates of vegetation including rare taxa (see attachment 1: list of rare species benefiting, pp.14-15). As PKW's ungulate control goals progress, management has expanded into new areas. This project pushes the boundaries of management further toward the sea to include significantly greater reaches of impaired streams. Here at lower elevations strategic fences will not be adequate in protecting both valleys and ridges therefore a continuous boundary fence is necessary to block ungulate passage to the preserve. This project will present the opportunity to eliminate previously observed impacts of ungulates including the proliferation of weedy plant species and the corruption of lentic areas with mud and fecal matter. In addition populations of Axis Deer (*Axis axis*) are within miles of the preserve and are an increasing threat to PKW, making it necessary to construct an 8 foot high fence.



Map A: This map depicts priority watersheds on the island of Maui with category one status by the Department of Health in 1998. The proposed project will principally benefit the Honolua watershed and its near shore waters by limiting erosion and nutrients contributions from Ungulates in the mid to upper watershed.

This project will also assist the State of Hawaii Department of Health (DOH) in its efforts to improve water quality in West Maui. According to DOH publications, the proposed project will assist in its local action strategies (LAS) to combat land based pollution of Honolua Bay. This strategy recognizes the contribution that feral ungulates have on the landscape and this project aims to limit those impacts within the DOH LAS Honolua focus area. In addition, the Hawaii Unified Watershed Assessment of October 1, 1998 produced by the State of Hawaii, Department of Health, Clean Water Branch, Polluted Runoff Control Program – selected the...“**West Maui-West Maui Mountains (Maui)**” as a Category 1, 1st tier watershed for the following reasons... “Reduce sediments and nutrients for water quality improvement, enhanced recreational usage along coastline and habitat improvement in a National Marine Sanctuary, and historic/cultural preservation. Presence of important natural resources. High probability of success because of current projects and partnerships.” Furthermore the project area also possesses several 303d listed streams or reaches that will benefit from work within the project area (Map 1 above).

WATER QUALITY PROBLEMS:

We recognize that sediment loading, siltation, turbidity, and other water quality problems on West Maui are affected by multiple factors. Our projects address contributing factors which originate within mauka forested areas and does not address other factors like urban and agricultural run-off. Studies conducted as part of the algae bloom work in West Maui identified runoff from the forest as a significant portion (ca. 25%) of the total sediment transported to the oceans in West Maui's streams. Many of the 2004 303d listed coastal waters may be similarly impacted in this manner.



Pictured Left- Understory cover of native ohia forest reduced to grass and eroded trails. Pictured Center- sediment and silt loaded stream impacted from feral ungulates post storm event. Pictured Right- pig rooting and digging on slope of native forest,. Photos from WMMWP,CNB.

The West Maui Mountains contain some of the most intact native Hawaiian forests in the state; however, the area benefiting from the proposed project is still subject to the negative impacts of feral ungulates. The proposed project will help eliminate feral ungulates including pigs, cattle, and deer which are negatively impacting the watershed. Ungulate browsing, trampling, rooting and grazing destroys vegetation, accelerates erosion, increases turbidity, pollutes surface water with silt and diseases, modifies soil chemistry, increases nutrients, and spreads watershed threatening weeds. This ungulate disturbance has been causing a significant modification to the vegetation and soils of West Maui's forest during the past three decades after their introduction. Without adequate long-term protection of forest cover these impacts will continue to degrade forest habitat and water quality.

Natural conditions also work to exacerbate the erosive impacts of invasive ungulates on this landscape. The steep topography and high rainfall create the potential for high rates of erosion on ungulate denuded soils. The project covers a rainfall area ranging from an average of 371- 90 inches per year and is rated as the 2nd wettest place in Hawaii. This is compared to 90-40 inches below the proposed fence. The topography of the project area is also extreme. The general slope of ridges are approximately 10-15% grades and the gulch walls commonly run between 50 to 100% grades. Feral pigs commonly occupy grades up to roughly 50% and also tend to congregate in riparian zones where soils are wet, soft, more easily accessed, and easy to turn over. Here the combination of rain, topography, and ungulate activity unite to create the greatest impact. This is especially evident in high rainfall events when heavy rains hit denuded soils, and swift flowing and swollen streams overflow their banks and wash denuded soils to the ocean.

Water Bodies Affected:

Within the project area there are three principle stream systems which have significant reaches above the proposed fences and will benefit from the project. In addition, coastal waters at the mouths of streams will also benefit (See map D p. 13).

1) The Honolua Stream System: Honolua's headwaters originate at nearly 4,500 feet in elevation and are unrestricted until encountering a stream diversion at 800 feet in elevation. The diversion is now closed and has been since 2005. The Honolua stream is characterized as perennial but may actually be more intermittent in flow reliant on storm events and seasonally wet rainfall periods. The reach within the project area measures 7,600 feet in length. Honolua Stream is approximately 7.5 miles long and has an estimated flow of about 5 million gallons per day at the upper elevations. The Honolua stream also has a major tributary called **Papua** which originates within the proposed fence area at 1800 feet elevation and 2,200 foot reach protected by this fence. Papua is not diverted and is intermittent. It joins the Honolua stream near sea level at 50 feet in elevation before reaching the Honolua Bay.

Together the Papua and Honolua streams empty into the **Honolua Bay - Mokuleia Bay Marine Life Conservation District** which has been known to have significant sediment impacts from fresh water drainages. According to "a study prepared by Michael T. Muneikyo, Consulting Inc., for the WMSWCD in December 1992, identified problems of siltation and potential damages to aquatic organisms within Honolua Bay. The Honolua and Mokuleia Watershed has a history of major sediment impact to these coastal waters. Honolua Bay and Mokuleia Bay are recognized for their marine life diversity and recreational value."

2) The Honokohau Stream System: Honokohau is one of the most significant fresh water systems in West Maui. Diverted waters from this system irrigate crops and provide private and public water supplies for communities from Honokohau south to Lahaina. Management of the mauka watershed would be beneficial to water users due to the presence of ungulates which may be contributing to waterborne diseases such as *Leptospirosis* and *Giardia*. To accommodate the water needs, the Honokohau diversion is in use. This diversion does allow water overflow in storm events which may impact water quality of downstream users and near shore waters. The main branch of the stream may not benefit directly from fencing and management by this proposed project. Most benefit will be realized by its tributaries mentioned in the following paragraphs. However, it is important to add that future management goals will expand to include this area and installation of water quality monitoring now would provide an opportunity for to acquire baseline data. This reach is approximately 7,700 feet long.

Two other Honokohau tributaries will directly benefit from the proposed project. The **Kaluanui** headwaters reach up to 3,000 feet in elevation and descend down to 800 feet where it encounters a closed diversion which once fed the Honokohau system. Eventually it reaches the main Honokohau stream at about 200 feet in elevation. This

stream is considered intermittent and does have a significant reach within the project area at over 5,000 feet in length. **Kalanakola** is another un-diverted and intermittent tributary of Honokohau stream located higher within the benefit area. This tributary is less impacted by ungulates and is approximately 3,500 feet in length.

3) Pohakupule Stream: A third stream system is located between Honolua and Honokohau and is known as Pohakupule. This stream originates at around 1,600 feet in elevation and has a 1,500 foot reach within the proposed fence. Ultimately it runs into the ocean along Kenonehalelae beach (a.k.a. "Windmills"). This stream is intermittent and not diverted.

PRE & POST PROJECT MONITORING:

- outline known water monitoring currently going on and proposed areas for monitoring related to implementation action
- emphasize that this project is part of larger plan/initiative to improve water quality/native habitat protection/restoration
- For Chris only, outline storm event/diversion questions (if can find info quickly)
- leave details of the water quality methods blank for

Ungulate Impact Monitoring: Monitoring to measure ungulate impacts to the land and management success can take many forms including transects, photo points, aerial survey, ground scouting, etc. Currently, belt transects to the north and south of Honolua are read once each year for ungulate disturbance and continue to show impacts within the unfenced project area. The transects are various lengths running mauka to makai and stations consist of 5x50 meter belts in which ungulate disturbance is read in terms of % of new sign (within two weeks) and old sign(two weeks or older) (i.e. 1% disturbance = 1.6 x 1.6 meters disturbed soil or 1% of the 250 meters within the station is 2.5 square meters). Data from these transects can be compared to post project data to show the reduction in ungulate impacts and presence.

Similarly, catch data is also tracked to depict the presence and absence of ungulates and when effort is sustained we can be reasonably confident that we are successfully removing animals (see map B, p. 7). Photo points can also be installed to monitor changes in vegetative cover from ungulate impacts. Aerial surveys for ungulates can provide a coarse indication of ungulate distribution and detect ungulate impacts. Ground scouting also records ungulate activity and guides management. Thorough scouting of the area assures complete management coverage and corroborates other monitoring tools to bring greater confidence in results. All ungulate presence and absence data will be logged in an access database to effectively inform management and measure success.

Water Quality Monitoring of the Project area: To Be Determined with input from Hudson
-overall: link activities to improving water quality/polluted run-off

Notes: It appears that several stream reaches throughout the area can be sampled. Some are categorized perennial and some are intermittent. We can follow up on this, Randy Bartlett may be able to provide flow data. Sampling of the streams can go in prior to fence construction and we can probably get in two winters of baseline prior to ungulate control (one before fence construction and one during). Ungulate monitoring transects are already in the area but could be extended or another could be added to get disturbance #s. Once ungulates are being removed the transects should show decline. Scouting reports which record activity levels will also show a decline. Catch rates will also decline. As animals are removed I assume to be able to show decreases in fecal coliform (don't know if there is a specific test for this and turbidity with DOH sampling methods. We can also set up photo points to show vegetative regeneration of ungulate disturbed areas which is more qualitative in nature. Hopefully everything will correlate.

I might also suggest a variation of our transect methods to be conducted in stream courses as opposed to just ridge tops. This is important because the theory is that pigs have a greater impact in this area.

PROPOSED ACTION

Phase One: Proposed Fencing: To accomplish the above objectives, we will install an 8 foot high fence made from galvanized wire (hog wire) that will exclude ungulates. On extremely steep terrain 4 foot high galvanized hog wire will be used with 4 foot high plastic "deer mesh" above it, creating an 8 foot high fence. An apron of 32 inch hog wire will be installed to prevent animals from digging under the fence. The proposed section of fence will begin at the top of the south wall of Honokohau and travel south until reaching the top of the south wall of Honolua Gulch. Here the fence will link up with existing fences which are in various stages of funding and completion. The proposed phase of fencing will provide the most benefit to the Honolua, Pohakupule and Honokohau drainages and measure approximately 2 miles in length.

Other Fencing Phases: The other phases of fence continuing south could also be considered for funding. Briefly, they include a mixture of retrofitting existing pig fence to make deer proof (2 miles) and lengths of new fence (1 mile). These fences would benefit the Honokohua, Kahana, Mahana and Honokowai drainages. These phases are not proposed here because they are more comprehensively managed for ungulates and provide less of an opportunity to show the benefits of ungulate management and fencing on water quality.

Future Feral Ungulate Control Phases:

Feral ungulate controls, in the form of snaring and trapping, are the primary methods at our disposal for our removal program and have been highly effective to date within other fenced units. Once phase one is complete, ungulate control will commence. Funding for this phase will be covered by the PKW staff as part of their general operating budget. Additional funding may be helpful in establishing control efforts more rapidly and provide additional trapping cycles to meet eradication goals more quickly. Undetermined at this time is whether volunteer hunters will be used in the initial ungulate removal efforts and is at the discretion of the landowner.

Proposed Project Design & Activities:

1) Project Baseline:

Success of fencing and ungulate control will be evaluated by reading at least two (may desire more depending on our approach) monitoring transects, ungulate scouting and aerial surveys. A decrease transect % ground disturbance levels is anticipated in comparison to previous years. The same will be expected for catch #'s resulting from ungulate control efforts. For example the data for the West unit above Lahaina shows 76 catches for FY07 and 1.1% total ground disturbance for FY07. Total % disturbance is calculated as an average of the 3 monitoring transects in the West Unit, totaling 230 stations (5X50m each).

2) Photo points: Baseline photo points above and below the proposed strategic fence will be set up prior to fence installation. Photos will be repeated annually to help depict success as determined by amount and quality of vegetation regenerated. Photos will also be used to interpret vegetative recruitment and assist management actions that may result from this knowledge.

3) Decontamination:

Prior to entry of project area strict alien species decontamination protocols will ensure personnel and all project tools and materials be invasive species free. Camp locations, landing zones, material drop sites and fence lines will be monitored for incipient weed development and controlled. All herbicides will be used in strict accordance of product labels by certified applicators.

4) Rare Taxa Surveys:

Rare taxa surveys will be conducted prior to fence installation to prevent project impacts to species by PKW, WMMWP staff and/or Plant Extinction Prevention Program (PEPP) Maui Coordinator. Any encounter of rare taxa will be documented, GPSed and reported to appropriate authorities.

5) Fence Determination:

Precise fence routes will be determined and fence lines will be brushed causing as little damage as possible to native cover. Locations will integrate fences into the most

advantageous and sound location possible for the purpose of preventing ungulate ingress to the project area.

6) Material and Staff Transport:

All materials and equipment will be cleaned prior to site transport. Transport will require trucking to adjacent helicopter staging area and flying materials to each of the proposed locations. Fence building tools and crews will be disbursed via helicopter to fence locations and spike camps will be utilized to maximize efficiency of installation whenever possible.

7) Fence Installation:

Fences will be installed with hand tools, power tools, rappelling gear and by highly trained WMMWP staff. Eight foot fences will consist of full woven wire fence or four foot woven wire plus an additional four foot of plastic game fence on top for steep sections. All fence types will have a 32" apron.

8) Post Project Ungulate control:

Ungulate control will be conducted via trapping. Trap locations will be GPSed, mapped and recorded in an access database. Check cycle frequency will vary dependent on ungulate activity in each area. Typical checks consist of at least quarterly checks in active areas and biannual checks in maintenance areas. New traps will also be installed as needed and are anticipated within units created by proposed fences.

9) Inspections:

Post installation inspection will assure project completion and semiannual fence inspections will maintain fences for their expected duration of at least ten years. PKW staff will conduct these inspections under their base funding.

10) Future or Concurrent Phases:

After the completion of this proposed project other grants will be sought to continue gains against threats to the project species and habitat. Based on prior funding relationships we are confident that the additional phases of the protection effort will be funded.

11) Reporting: A progress report will be provided when the project is 50% complete and final report will be furnished at project completion in keeping with the project deadline.

12) Project Period: Beginning July 1st 2009 and ending June 30th 20011. Subject to revision and DOH approval.

FUNDING INFORMATION:

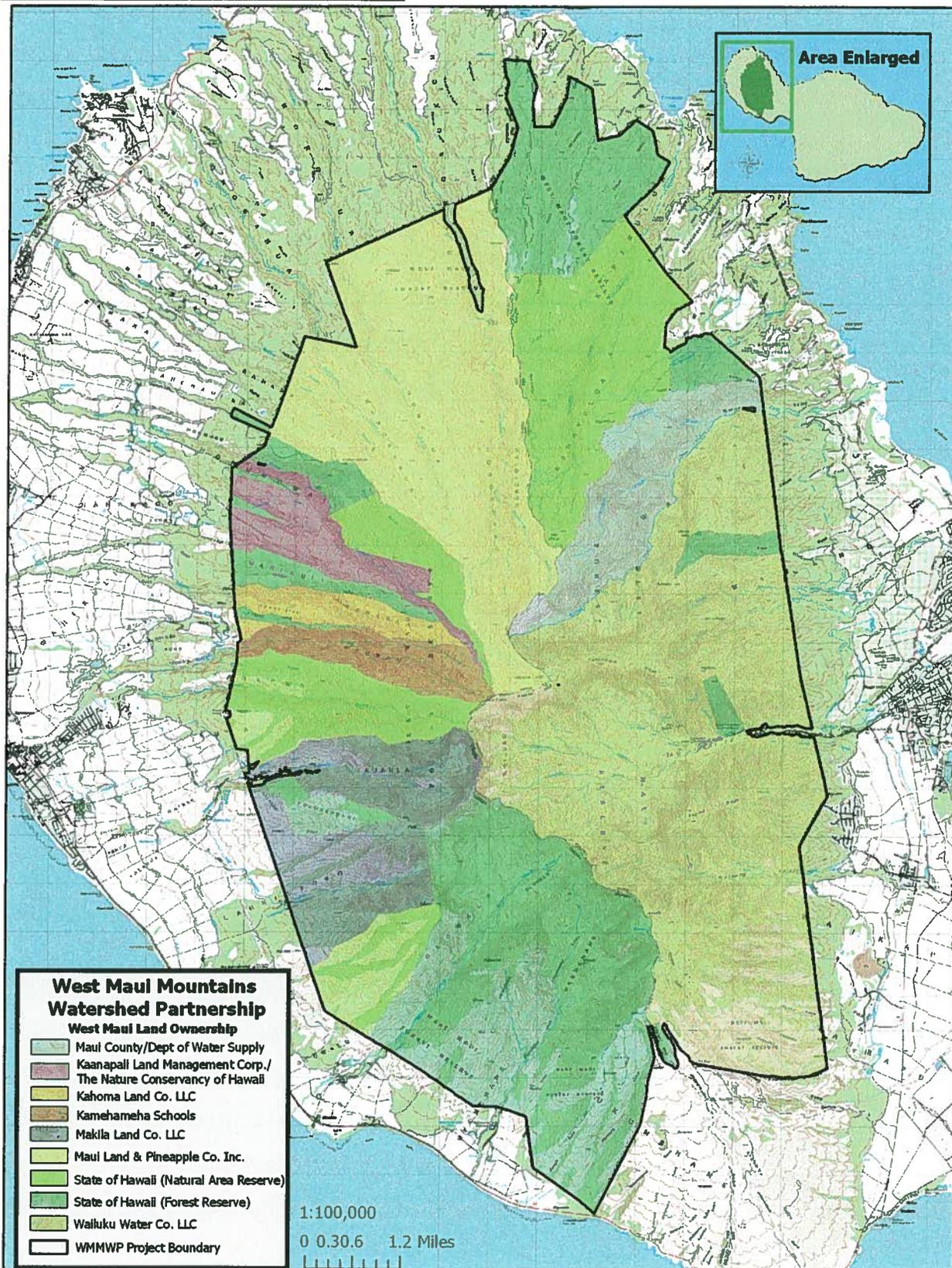
Grantee Information:

The West Maui Mountains Watershed Partnership (WMMWP) will receive and apply donated funds via the Pacific Cooperative Studies Unit of the University of Hawaii and its non-profit, Malama Kahalawai Inc.501(c)3. Maui Land & Pineapple Co. will provide in-kind labor, and helicopter support. The State of Hawaii and County of Maui will provide materials, supplies, and equipment. The project may also be matched with proposed funding from the Wildlife Conservation Society or other. WMMWP will work cooperatively with ML&P to realize the proposed actions. Work associated with the fencing project will be performed primarily by WMMWP staff and post project ungulate control and monitoring will be the responsibility of PKW.

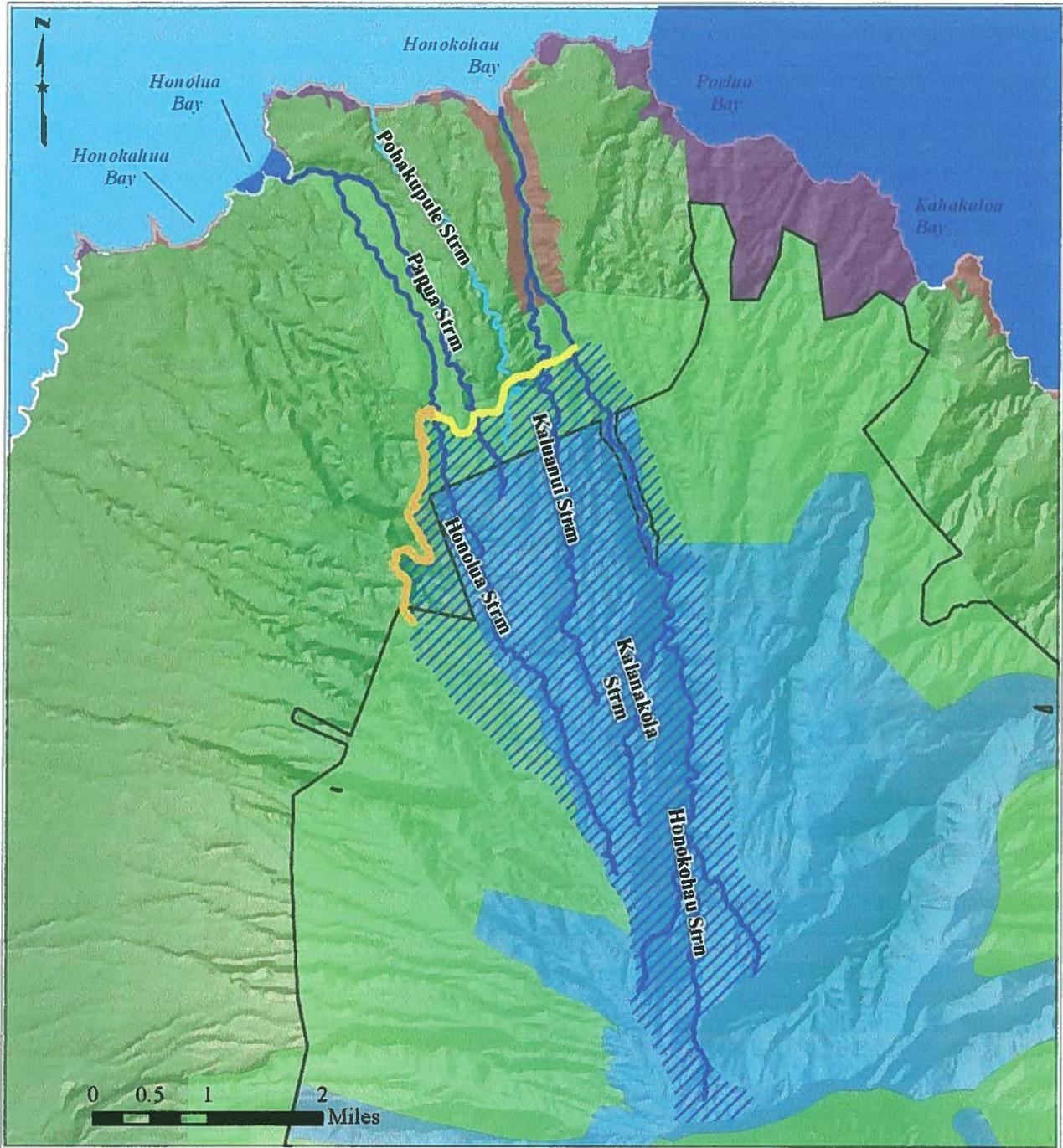
Project budget:

CATEGORY	FUNDING REQUESTED FROM DOH	NON-FEDERAL MATCH	TOTAL PROJECT COSTS
Salary & Fringe	111,600	82,950	194,550
Supplies: office and field, utilities, gas, etc.		10,000	10,000
Deer Fence Materials: 3,000 Meters		100,000	100,000
Helicopter Charter @ 18 x 850/hr		15,300	15,300
Equipment: Chainsaws, GPS units, camera, tools, etc.		10,000	10,000
Project Subtotal	111,600	218,250	329,850
Overhead @ 8.5 % of Salary	9,400	7,050	16,450
Totals	120,000	225.300	346,300

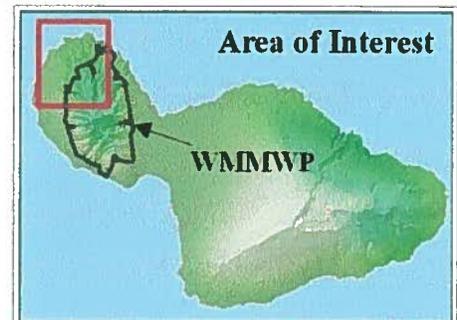
Map C: Land ownership of WMMWP:



Map D: WMMWP Project Area and Proposed Fencing:



Proposed Deer Fence		DOH Water Quality	
Funded	A Class - Rec use protected, all discharge treated	General	Data Source: Stream Data & DOH Water Quality from Hawaii Commission on Water Resources. All other data from Hawaii Statewide GIS layers website Map by Sarah McLane, WMMWP
Proposed	AA Class - Natural Pristine state, little-no pollution	Limited	
303d Streams	Conservation Subzones		
Natural Streams	Protective	Resource	
Watershed Protected by Proposed Fence			
WMMWP Boundary			



Attachment 1: Benefits to Listed Species:

The completion of this project will significantly reduce ungulate threats to the following taxa:

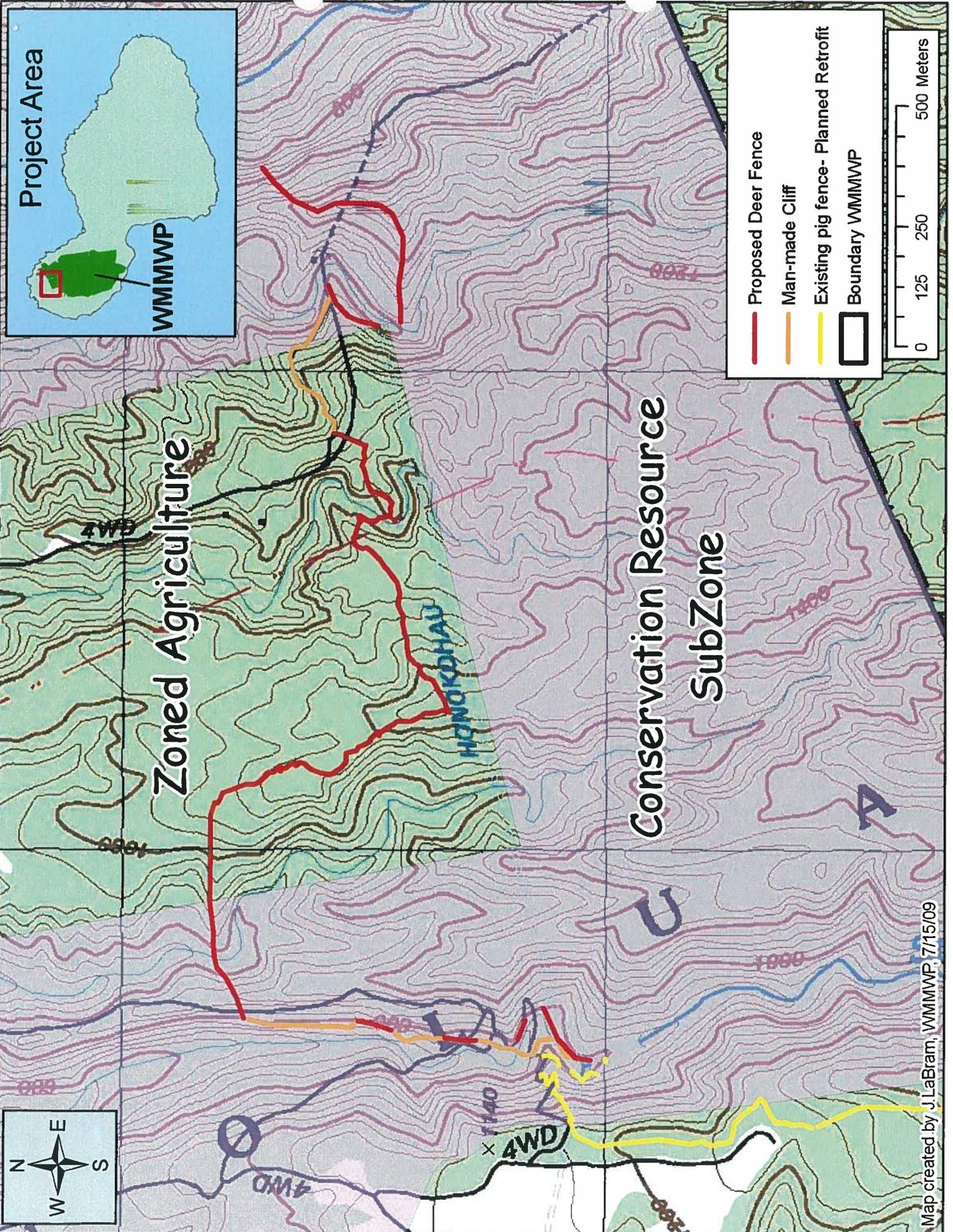
Taxon Name	Common Name:	Status
Invertebrates		
<i>Coleotichus blackburniae</i>	koa bug	SOC
<i>Drosophila neoclavisetae</i>	Hawaiian Picture-Wing Flies	E
<i>Hylaeus fuscipennis</i>		SOC
<i>Hylaeus haleakalae</i>		SOC
<i>Megalagrion nigrohamatum</i>	Pinao, damselfly	SOC
<i>Megalagrion pacificum</i>	pinao `ula, damselfly	C(2)
<i>Newcombia cumingi</i>	Newcomb's tree snail	SOC
<i>Partulina perdix</i>		SOC
<i>Partulina splendida</i>		SOC
<i>Partulina tappaiana</i>		SOC
<i>Perdicella kuhnsi</i>		SOC
<i>Philonesia ssp</i>		SOC
<i>Plagithmysus alani</i>	Long horned beetle Maui- Alani	SOC
<i>Succinea ssp</i>		SOC
Vascular Plants		
<i>Acaena exigua</i>	Liliwai	E
<i>Alectryon macrococcus</i> var. <i>macrococcus</i>	Mahoe	E
<i>Alphitonia ponderosa</i>	o`a	SOC
<i>Anoetochilus sandwicensis</i>	honohono	SOC
<i>Argyroxiphium caliginis</i>	'Eke silversword	SOC
<i>Bidens conjuncta</i>	ko'oko'olau	C(8)
<i>Calamagrostis expansa</i>	reedgrass	C(2)
<i>Calamagrostis hillebrandii</i>	reedgrass	C(2)
<i>Ctenitis squamigera</i>	Pauoa	E
<i>Cyanea asplenifolia</i>	Haha	C(2)
<i>Cyanea kunthiana</i>	Haha	C(2)
<i>Cyanea lobata</i> subsp. <i>lobata</i>	Haha	E
<i>Cyanea magnicalyx</i>	Haha	SOC
<i>Cyrtandra filipes</i>	ha'iwale	C(2)
<i>Cyrtandra lydgatei</i>	ha'iwale	SOC
<i>Cyrtandra munroi</i>	ha'iwale	E
<i>Dicanthelium koolauense</i>		SOC
<i>Doodia lyonii</i>		SOC
<i>Erythrina sandwicensis</i>	Wiliwili	SOC
<i>Eurya sandwicensis</i>	Anini	SOC
<i>Exocarpos gaudichaudii</i>	hulumoa	SOC
<i>Gardenia brighamii</i>	Nanu	E
<i>Gardenia remyi</i>	Nanu	C(2)
<i>Geranium hillebrandii</i>	nohoanu	C(8)
<i>Hedyotis formosa</i>		SOC
<i>Hesperomannia arborescens</i>		E
<i>Hibiscus kokio</i> subsp. <i>kokio</i>	koki'oula	SOC
<i>Hillebrandia sandwicensis</i>	pua maka nui	SOC

<i>Joinvillea ascendens</i> subsp. <i>ascendens</i>	'ohe	C(3)
<i>Keysseria maviensis</i>	howaiiaulu	SOC
<i>Liparis hawaiiensis</i>	'awapuhiakanaloa	SOC
<i>Myrsine vaccinioides</i>	Kolea	C(2)
<i>Phyllostegia stachyoides</i>		SOC
<i>Pritchardia forbesiana</i>	Loulu	SOC
<i>Pteris lydgatei</i>		E
<i>Reynoldsia sandwicensis</i>	`ohe makai	SOC
<i>Sanicula purpurea</i>	snakeroot	E
<i>Sicyos cucumerinus</i>	panunu kuahiwi	SOC
<i>Strongylodon ruber</i>	nuku i`iwi	SOC
<i>Wikstroemia bicornuta</i>	`akia	SOC
Vertebrates		
<i>Asio flammeus sandwichensis</i>	pueo; short- eared owl	SOC
<i>Branta sandvicensis</i>	Nene	E
<i>Hemignathus virens</i>	Amakihi	SOC
<i>Himantopus mexicanus knudseni</i>	`ae`o; Black-necked stilt	E
<i>Himatione sanguinea</i>	Apapane	SOC
<i>Lasiurus cinereus semotus</i>	Bat, Hawaiian hoary; 'Ope'ape'a	E
<i>Lentipes concolor</i>	o`opu alamo`o	SOC
<i>Pluvialis fulva</i>	kolea; Pacific golden plover	SOC
<i>Pterodroma phaeopygia sandwichensis</i>	`u`au; dark-rumped petrel	E
<i>Puffinus auricularis newelii</i>	`A`o; Newell's shearwater	T
<i>Vestiaria coccinea</i>	i`iwi	SOC

PROJECT DATA SUMMARY TABLE

Acres Protected Above Fence	6,999
Habitat Types	Montane Wet Forest, Montane Wet Shrubland, Montane Wet Mixed, Montane Wet Herblands, Montane Mesic, Lowland Wet Forests
Length of 303d Stream Reaches Protected by Fence (Honokohau and Honolua) out of 51,676m	35,866 meters
Length of non- 303d Stream Reaches Protected by Fence (Pohakupule) out of 6,678m	1,337 meters
Total Number of Listed Species to Benefit	65
Endangered	15
Threatened	1
Proposed	0
Candidate	11
Species of Concern	39

Total Number of Migratory Bird Species to Benefit	3
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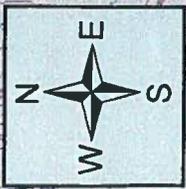
Project Area

WMMWP

Zoned Agriculture

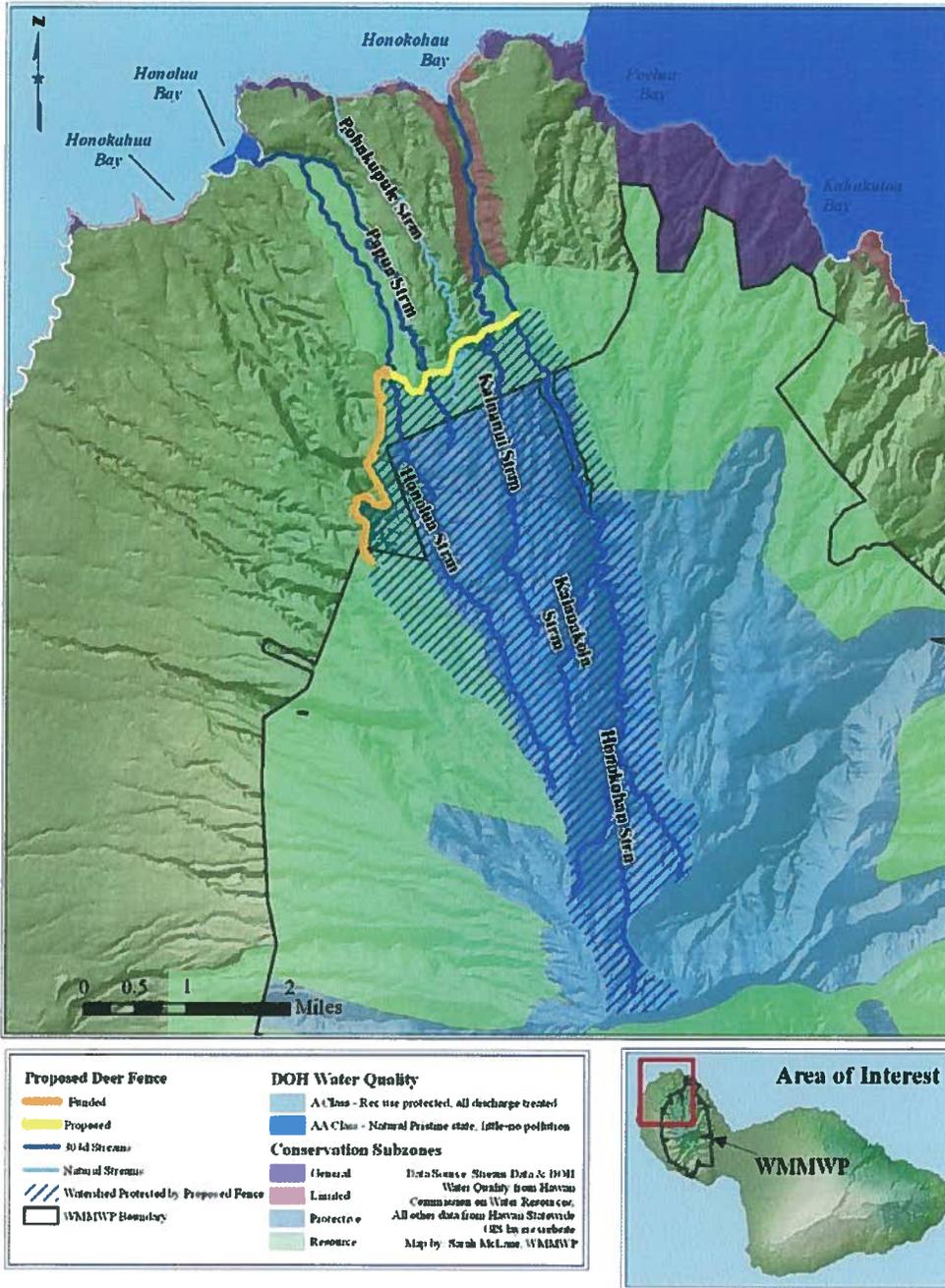
Conservation Resource
SubZone

- Proposed Deer Fence
- Man-made Cliff
- Existing pig fence - Planned Retrofit
- Boundary WMMWP

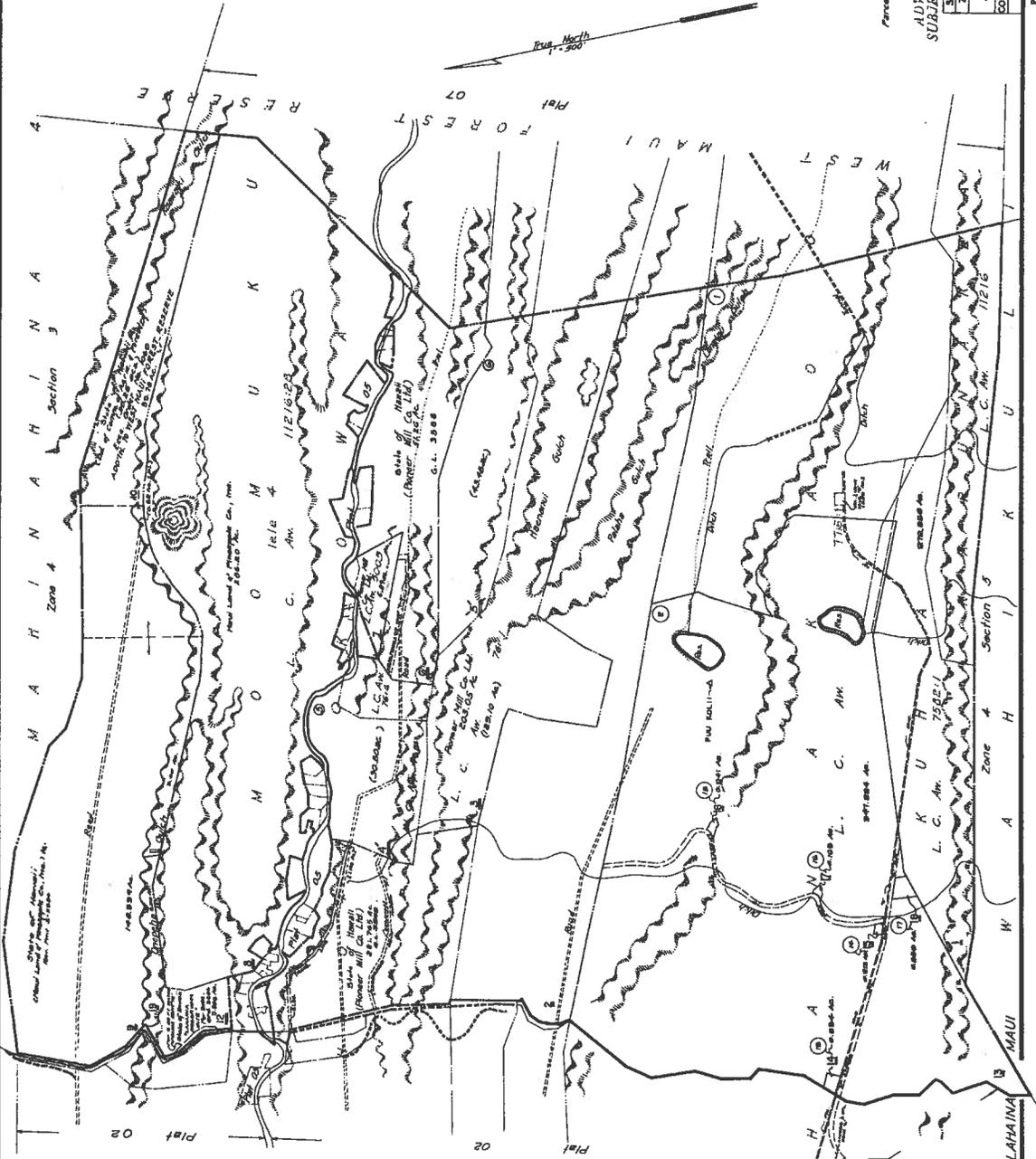


Map D: WMMWP Project Area and Proposed Fencing:

Comment [CB1]: Need to Change Funded to Other Phases in all maps



Proposed TMV: (2)



Parade Dropped-A.S.

ADVANCE SHEET
SUBJECT TO CHANGE

SECOND	DIVISION
ZONE	SEC.
4	4
PLAT	PARCELS
04	CONTAINING
	SCALE: 1" = 500 FT.

PRINTED

100
 110
 120
 130
 140
 150
 160
 170
 180
 190
 200

Drawn by: [Blank]
 Checked by: [Blank]
 Source: Top. Maps Bureau
 By: D.S.C. H.M. [Blank]

HANAKOO & HONOKOWAI, LAHA'INA MAUI

MA 2111

LINDA LINGLE
GOVERNOR OF HAWAII



RECEIVED
CONSERVATION
DISTRICT ALLIANCE

2008 OCT 17 A 8:00

Laura H. Thielen
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

RUSSELL Y. TSUJI
FIRST DEPUTY

KEN C. KAWAHARA
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
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES &
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

REF:OCCL:DH

Site Plan Approval: MA-09-07

Randy T. Bartlett, Manager
Puu Kukui Watershed Preserve
Maui Land and Pineapple Company, Inc.
1000 Kapalua Drive
Lahaina, Hawaii 96761

OCT - 8 2008

Dear Mr. Bartlett,

SUBJECT: After The Fact (ATF) Site Plan Approval (SPA) for Axis Deer Fencing, Subject Parcels TMK's: (2) 4-2-001:001 and (2) 4-3-001:001, Puu Kukui Watershed (PKW) Preserve, Lahaina, Island of Maui

The Department of Land and Natural Resources (DLNR), Office of Conservation and Coastal Lands (OCCL) is in receipt of Maui Land and Pineapple (MLP) Company's request for ATF SPA for axis deer fencing, subject parcels TMK's: (2) 4-2-001:001 and (2) 4-3-001:001.

According to departmental records, the subject parcels TMK's: (2) 4-2-001:001 and (2) 4-3-001:001 are located in the Conservation District, Resource and Protective Subzones; partly comprises the Puu Kukui Watershed (PKW) Preserve, and are owned by MLP. According to departmental records on June 9, 1988, the Board of Land and Natural Resources (BLNR) approved CDUA MA-2111 for a fencing project for MLP Company; subject to fifteen terms and conditions (**Exhibit 1**).

The OCCL notes that MLP was required to submit the ATF SPA within 90 days of resolving HOAPS Case MA-08-03 which involved the unauthorized construction of a 5 to 6 foot 630 meter pathway in the Conservation District. MLP has indicated interest in constructing an eight foot high fence to prevent the incursion of Axis deer into the PKW Preserve.

ANALYSIS:

The OCCL has no objections to granting Site Plan Approval for this request, as long as the work occurs within the metes and bounds of the above-mentioned parcel, and pursuant to HAR, Section 13-5-23, L-7, STRUCTURES, ACCESSORY, B-1, "construction or placement of structures accessory to an existing structure, building, or facility under an existing conservation district use permit. Accessory uses shall be allowed only if they are consistent with the purpose of the conservation district." The proposed project is minor in scope and may be considered an exempt action under State environmental laws under HAR, Section 11-200-8 (6).

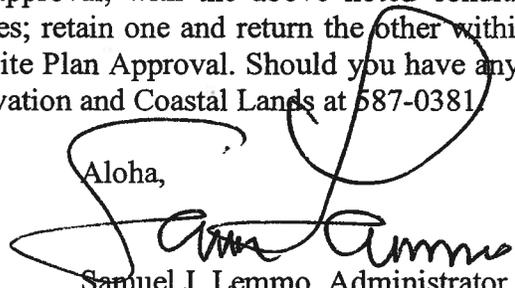
Authorization is hereby granted for the Axis Deer Fencing Project, subject to the following terms and conditions:

1. The applicant shall comply with all ordinances, rules, and regulations of the federal, state, and county governments, and applicable parts of Chapter 13-5, HAR;
2. In issuing the approval, the department has relied on the information and data, which the applicant has provided in connection with the application. If, subsequent to the issuance of the approval such information and data prove to be false, incomplete, or inaccurate, this approval may be modified, suspended, or revoked, in whole or in part, and the department may, in addition, institute appropriate legal proceedings;
3. The applicant, its successors and assigns, shall indemnify and hold the State of Hawaii harmless from and against any loss, liability, claim or demand for property damage, personal injury or death arising out of any act or omission of the applicant, its successors, assigns, officers, employees, contractors and agents under this permit or relating to or connected with the granting of this permit;
4. Before proceeding with any work authorized by the Board, the applicant shall submit four (4) copies of the construction and grading plans and specifications to the Chairperson or his authorized representative for approval for consistency with the conditions of the permit and the declarations set forth in the permit application. Three (3) of the copies will be returned to the applicant. Plan approval by the Chairperson does not constitute approval required from other agencies;
5. Any work done or construction to be done on the land shall be initiated within one year of the approval of such use, in accordance with construction plans that have been signed by the Chairperson, and, unless otherwise authorized, shall be completed within three (3) years of the approval. The applicant shall notify the Department in writing when construction activity is initiated and when it is completed;
6. The applicant understands and agrees that this permit does not convey any vested rights or exclusive privilege;
7. Where any interference, nuisance, or harm may be caused, or hazard established by the use, the applicant shall be required to take the measures to minimize or eliminate the interference, nuisance, harm, or hazard;
8. During construction, appropriate mitigation measures shall be implemented to minimize impacts to off-site roadways, utilities, and public facilities;
9. The applicant shall comply with all applicable Department of Health administrative rules;

- 10. Should any unanticipated problems occur which may affect the public's health, safety or welfare, the Office of Conservation and Coastal Land may require immediate removal of the monitoring equipment;
- 11. Other terms and conditions as prescribed by the chairperson; and
- 12. Failure to comply with any of these conditions shall render this approval void.

Please acknowledge receipt of this approval, with the above noted conditions, in the space provided below. Please sign two copies; retain one and return the other within thirty (30) days. Please submit the \$50.00 fee for the Site Plan Approval. Should you have any questions contact Dawn Hegger of our Office of Conservation and Coastal Lands at 587-0381.

Aloha,



Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

Receipt acknowledged:



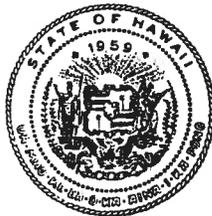
Applicant's signature

Date:



c: MDLO
Maui County Planning Department

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
DEPUTY DIRECTOR - LAND

DEAN NAKANO
ACTING 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
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

REF:OCCL:TM

Correspondence: MA 05-237

Orlando R. Almarza
Cooperative Program Manager
Data Systems Branch
National Weather Service
137 Operations Street
Hilo, Hawaii 96720-4602

JUN 24 2005

Dear Mr. Almarza;

SUBJECT: Proposed Rain Gage Relocation Located at Lot 22, Honolua Ridge Subdivision Phase 2,
TMK (2) 4-2-001:001

The Office of Conservation and Coastal Lands (OCCL) is in receipt of your correspondence dated May 24, 2005 regarding the proposed relocation of a rain gage. According to your information, the current location of the rain gage is located on the border of subdivision lands subject to be cleared in September 2005. The Development Manger for Kapalua Land Company, Mr. Jeff Rotman, suggested that the rainfall equipment could be relocated to a nearby Conservation parcel mauka of the current location.

The OCCL notes, the subject parcel is a very large parcel and the majority of the parcel lies within the Agricultural District. However portions of the parcel along Honolua Ridge lies within the Conservation District, Resource and Protective subzones. It is unclear as to where Lot 22 is located and where the proposed rain gage will be relocated. Should you wish to relocate the rain gage in the Conservation District, this would require the filing of a Conservation District Use Application (CDUA) pursuant to the Hawaii Administrative Rules, § 13-5-22, P-1 Data Collection, C-1, Basic data collection, research, education, and resource evaluation which involves a land use with incidental ground disturbance from installation of equipment (e.g. rain gauges or meteorological towers). This would require a Departmental permit.

We have included a CDUA and the Hawaii Administrative Rules for your perusal. For your information, you will find Chapter 13-5, Hawaii Administrative Rules and the Conservation District Use Application (CDUA) on the Office of Conservation and Coastal Lands (OCCL) website at www.hawaii.gov/dlnr/occl. Should you have any questions, please contact Tiger Mills of our Office of Conservation and Coastal Lands staff at 587-0382.

Aloha,

Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

cc: Chairperson
MDLO
County of Maui, Department of Planning
Jeff Rotman, Kapalua Land Company

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF CONSERVATION AND RESOURCES ENFORCEMENT

DOCARE-20

12/15/92

BRANCH REPORT NO:

I. CDUP DATA SHEET - 3RD ANNIVERSARY LIMITED INSPECTION (MANDATORY COMPLETION DATE)

1. ISLAND MA
2. CDUPFILENO 2111 MA-02/04/88 ED
3. DATEISSUED 06/09/88

4. LASTNAME MAUI LAND & PINEAPPLE
5. FIRSTNAME

6. MAILADDR RR1, Box 445C
7. CITYSTAZIP Lahaina, Maui, HI 96761
8. TELEPHONE 669-8416

9. ADDROFCDU Puu Kukui
10. CITYHIZIP West Maui Mtn. Range, Maui, HI
11. TMKOFCDU 4-1-1: 17 *

12. SUMMARY Fencing project to protect watershed & vegetation fr feral pigs*.

13. DUE3YRINSP 06/09/91

14. PAU3YRINSP 11/25/92

15. RESULTS (VILLALON): Project appears to be incomplete. **

16. REMARKS * Also includes TMK 4-2-1: 1. Fencing to be 47" high, made of woven wire clipped to 96" high metal T-Posts.** FINDING BASED ON A REPORT TO VILLALON BY WES NOHARA, PERMITTEE'S REPRESENTATIVE.

II. BRANCH REPORT FORM - THIS REPORT IS DUE AT DOCARE ADMIN. BY

A. DATE INSPECTED 11/25/92 AA. DOES PROJECT APPEAR COMPLETE? yes xxxno

B. IF "NO" IS CHECKED, MAKE A BRIEF COMMENT SUPPORTING YOUR FINDING.

"CONTACT WAS MADE VIA TELEPHONE TO KAUI LAND & PINEAPPLE. OFFICE SPOKE TO A MR. WES NOHARA OF KAPALUA PLANTATION DIVISION. HE RELATED THAT THE FENCELINE IS ABOUT 90% COMPLETE, BUT THAT THE OVERALL PLAN FOR THE AREA AND TTS RESEARCH PROPOSAL FOR PLANTS, INSECTS AND FERAL PIG CONTROL IS 'PROBABLY LESS THAN 50% COMPLETE'."

C. THE PURPOSE OF THIS FORM IS TO REPORT IF PROJECT WORK APPEARS COMPLETE *; HOWEVER, IF OBVIOUS DISCREPANCIES ARE NOTED, DESCRIBE BELOW (CONTINUE ON SEPARATE SHEET).

D. /s/Charles Villalon #84 /s/ P. K. Au 11/25/92
(Inspecting Officer's Printed Name/Badge No.) (Supervisor's Signature/Date Signed)

* SEE REVERSE FOR EXPLANATION OF LIMITATIONS ON SCOPE OF THIS INSPECTION.



RECEIVED

'88 JUL 12 AM 9:56

Maui Pineapple Company, Ltd.
Honolua Division

DLNR
OCEA

July 8, 1988

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P.O. Box 621
Honolulu, Hawaii 96809

Attn: Mr. Edward E. Henry, Staff Planner

Dear Mr. Henry:

Enclosed please find documentation in compliance with the conditions set forth in the letter (**DOCUMENT NO.: 3640E**) approving the **Conservation District Use Application #MA-2/4/88-2111** that **Maui Pineapple Company, Ltd.** filed earlier this year:

- Condition 4. Before proceeding with any work authorized by the Board, the applicant shall submit four (4) copies of the construction plans and specifications to the Chairperson or his authorized representative for approval for consistency with the conditions of the permit and the declarations set forth in the permit application...;
- Condition 7. That the fence shall be constructed using 4' high hog-wire mesh flushed to the ground, iron pins spaced no farther than 10 feet apart and a strand of barbwire running at ground level;
- Condition 11. That the applicant install one-way pig gates at each fence site to allow for pigs to exit makai of the area if contained after fencing;
- Condition 13. Before proceeding with the project, the applicant will identify the anticipated flight patterns and landing areas, and daily use of helicopters to transport equipment and manpower.

Also included below are plans for further pig control and also; noxious weed control in the same area specified in the Company's application:

I. NON-NATIVE SPECIES CONTROL PROGRAMS

A. Ungulate Control Program

Program Goal -- To halt the ingress of pigs and other hoofed animals into the watershed area and remove existing animals from sensitive habitats through strategic use of fencing, trapping and hunting.

The Company believes that feral pigs are the most apparent destructive force in the *Pu'u Kukui* region, therefore; this program commands highest priority and immediate attention. The opportunity to prevent the initial degradation in watershed and habitat quality by pigs at *Pu'u Kukui* is of great importance for two reasons. First, some especially vulnerable habitats (e.g. bogs) and species may be irretrievably degraded by pig activity as witnessed in **Haleakala National Park's Kipahulu Valley Preserve**. Second, the cost of removing a well-established pig population from so rugged an area would be much greater than that of preventing their establishment in the first place.

- 1. Complete assessment of pig (and deer) activity & range:** This will require continued aerial and ground surveying, as well as working with knowledgeable hunters who know the area. The product of this assessment will be a map of pig (and deer, if any) distribution, strategic topographic features and fence or trapping sites, and urgently threatened sensitive areas. *(End of Year 1)*
- 2. Develop a control plan:** It is expected that the control plan will call for a combination of methods, which may be applied differently to the more accessible and impacted lowlands versus the more pristine and remote uplands. Upland control efforts, including fencing, will require significant helicopter support and will account for the preserve's largest capital improvement costs. *(Month 6 of Year 2)*
- 3. Implement the control programs:** This will require the oversight of a supervisor in charge of a new department; known as the **Pu'u Kukui Watershed**, and will involve a combination of staff, contract, and volunteer labor. In the initial phase *(Years 2-7)* of operation, staff will concentrate on bringing ungulate numbers-down to tolerable, controllable levels. Wherever feasible, complete eradication will be the goal. The maintenance phase begins as units of intensive phase are completed and continues indefinitely.

- 4. Monitor program's effectiveness: The Nature Conservancy of Hawai'i and the National Park Service** use monitoring methods which gauge pig activity along fixed survey lines on a seasonal basis. These may be supplemented by aerial survey. *(In place Year 2, ongoing)*

B. Weed Control Program

Program Goal -- *To remove noxious foreign weeds which threaten to disrupt native ecosystems.*

Although non-native plants are a significant component of vegetation in lower areas of the watershed, in many upland areas it is difficult to find any foreign species at all. The majority of weed species prosper in native forests only where some disturbance of the native cover - usually pig rooting or wallowing - provides an opening. For this reason, ungulate control is a major part of any forest weed control effort. However, several weeds do pose serious threats to priority natural habitats which must be controlled.

- 1. Complete initial survey of weed species and distribution:** From available vegetation data and new field surveys, priority weed species will be listed and populations targetted. *(End of Year 1)*
- 2. Complete weed control plan:** *(Month 6 of Year 2)*
- 3. Implement weed control plan:** Volunteer and unskilled contract labor can be used when manual control methods are employed, with staff or skilled contract labor completing all operations involving chemical herbicides or specialized techniques. All control work will be monitored in cooperation with the **University of Hawai'i Cooperative Extension Service**. Weed control work will be second in priority to ungulate control, primarily because of the involvement of pigs in the spread of weeds as discussed above.
 - Intensive phase *(continue current projects and begin new urgent projects Year 2, follow ungulate control through Years 3-10)*
 - Maintenance phase *(begin Year 3 as needed, ongoing)*

C. Small Mammal Control Program

Program Goal -- *To protect the preserve's biological elements from destruction by rodents, mongooses and cats.*

Small mammals are a serious threat to native birds, invertebrates and plants. The full extent of their impacts is not yet known, although observations of native shrubs girdled by rats, decapitated birds, and high rates of trapping success by federal researchers in other Hawaiian forests indicates a greater impact than previously suspected. The Company

recognizes that effective control of these pests over large areas is not feasible at this time. Personnel should maintain the ability to conduct localized control programs to protect such vulnerable elements as the nests of rare birds or populations of rare insects or plants. The Company will rely on the **National Park Service** and **U.S. Fish & Wildlife Service** for leadership in researching the role of small mammals in native Hawaiian systems, and for development of control technologies.

1. **Include Small Mammal Control Program as a section of the Operational Plan.** *(Month 6 of Year 2)*
2. **Establish the capability to remove small mammals from localized sensitive habitats.** *(End of Year 1)*

II. RESEARCH AND MONITORING PROGRAM

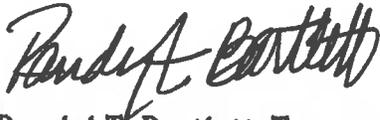
Program Goal -- To identify the biological elements of the preserve, monitor their response to stewardship programs, and promote research to improve stewardship programs for their protection.

Little is known about the ecology of most Hawaiian species and ecosystems. In addition, the *Pu'u Kukui* region is incompletely explored, and undoubtedly supports plant and animal species unknown to science. In some cases, these poorly known elements of the watershed may be in serious need of protection to prevent their extinction.

1. **Conduct initial biological inventory and complete Biological Condition Report:** Report describes present biological condition of the preserve in detail. *(Inventory by end of Year 1. Final Report by Year 4)*
2. **Establish and maintain short/long-term preserve vegetation monitoring system:** Without such a monitoring program, it would be difficult to track unpredictable changes in the resources of the preserve such as gradual losses of forest cover due to unapparent causes. *(Complete monitoring plan by month 6 of Year 2. Fully implement monitoring program by end of Year 4)*
3. **Complete initial menu of preserve research opportunities as part of Operational Plan:** Purpose to attract outside scientists interested in conservation research. *(Month 6 of Year 2)*

It is **Maui Pineapple Company's** intention by these plans and subsequent actions to ensure the protection and preservation of its West Maui lands as valuable watershed in accordance with **State of Hawai'i** law and objectives. Your assistance in making our goals a reality is and will be deeply appreciated. Mahalo nui loa.

Sincerely,



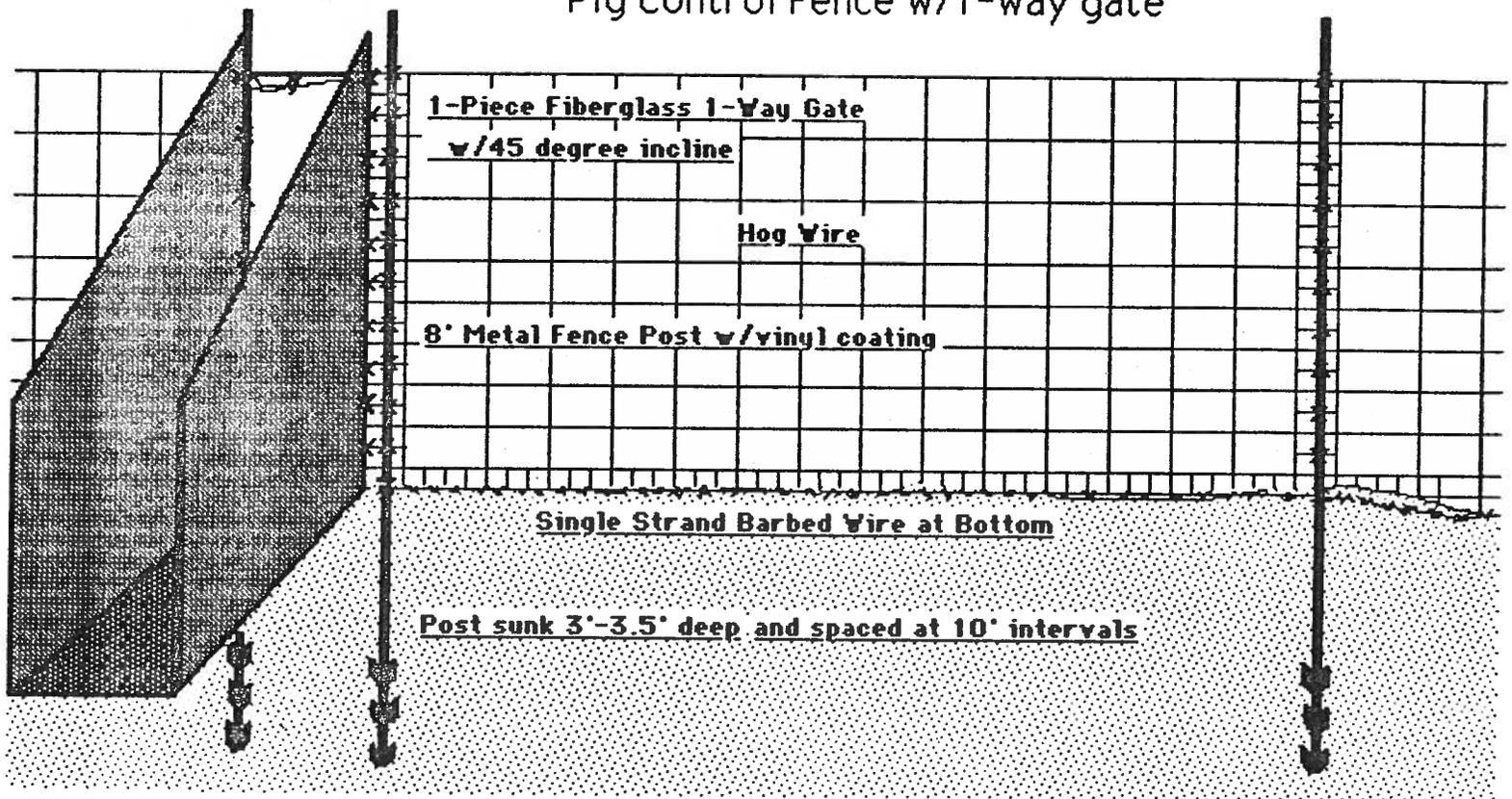
Randal T. Bartlett, Temporary Supervisor
Honolua Division - Pu'u Kukui Watershed
Maui Pineapple Company, Ltd.
(808) 669-8406

P.S. - 7/11/00

Ed, Still working on obtaining Helicopter Flight Plans from the helicopter people (see Condition 13), will forward required documentation ASAP/Available.

- Randy

Maui Pineapple Company, Ltd.
Honolua Division - Pu'u Kukui Watershed
Pig Control Fence w/1-way gate



JUN 17 '88

FILE NO.: MA-2111
180-Day Exp. Date: 7/5/88
DOCUMENT NO.: 3640E

Maui Land and Pineapple Company, Inc.
P.O. Box 445-C
Lahaina, HI 96761

Attn: Mr. Doug Schenk

Dear Mr. Schenk:

We are pleased to inform you that your Conservation District Use Application for watershed and vegetation protection on portions of TMK: 4-1-1: 17, 4-2-1: 1, and 4-3-1: 17, in the West Maui Mountain Range, Maui was approved on June 9, 1988 subject to the following conditions:

1. The applicant shall comply with all applicable statutes, ordinances, rules and regulations of the Federal, State and County governments, and applicable parts of Section 13-2-21, Administrative Rules, as amended;
2. The applicant, its successors and assigns, shall indemnify and hold the State of Hawaii harmless from and against any loss, liability, claim or demand for property damage, personal injury and death arising out of any act or omission of the applicant, its successors, assigns, officers, employees, contractors and agents under this permit or relating to or connected with the granting of this permit;
3. The applicant shall comply with all applicable Department of Health Administrative Rules;
4. Before proceeding with any work authorized by the Board, the applicant shall submit four (4) copies of the construction plans and specifications to the Chairperson or his authorized representative for approval for consistency with the conditions of the permit and the declarations set forth in the permit application. Three (3) of the copies will be returned to the applicant. Plan approval by the Chairperson does not infer approval required of other agencies. Compliance with Condition 1 remains the responsibility of the applicant;

5. Any work or construction to be done on the land shall be initiated within one (1) year of the approval of such use, and all work and construction must be completed within three (3) years of the approval of such use;
6. That the applicant shall keep to a minimum all cutting or removal of vegetation in the project area;
7. That the fence shall be constructed using 4' high hog-wire mesh flushed to the ground, iron pins spaced no farther than 10 feet apart and a strand of barbwire running at ground level;
8. That no live trees shall be used to tack, tie, anchor, or otherwise used in the construction of the fences;
9. That the applicant shall be held responsible for the removal of all litter and debris generated from the construction and maintenance of the fence line and use of the area;
10. That the applicant shall be held responsible for all fires, including fire suppression costs, resulting in conjunction with the construction and maintenance of the fence line;
11. That the applicant install one-way pig gates at each fence site to allow for pigs to exit makai of the area if contained after fencing;
12. If historic remains such as artifacts, shell or charcoal deposits, burials, and stone platforms, pavings, or walls are found during construction, please direct the applicant to stop work in the immediate area and contact the Historic Sites Section at 548-7460 immediately. Our office will assess the situation and make recommendations for mitigative action, if needed.
13. Before proceeding with the project, the applicant will identify the anticipated flight patterns and landing areas, and daily use of helicopters to transport equipment and manpower;
14. That failure to comply with any of these conditions shall render this Conservation District Land Use application null and void; and
15. Other terms and conditions as prescribed by the Chairperson.

Maui Land and Pineapple
Co., Inc.

- 3 -

MA-2111

Please acknowledge receipt of this permit, with the above noted conditions, in the space provided below. Please sign two copies. Retain one and return the other.

Should you have any questions on any of these conditions, please feel free to contact our Office of Conservation and Environmental Affairs staff at 548-7837.

Very truly yours,

/S/ WILLIAM W. PATY

WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

Receipt acknowledged

Applicant's Signature

cc: ~~Maui Board Member~~
~~Maui Land Agent~~
~~Maui County Planning Department~~
DOH/OEQC/EC/OHA/DBED

bcc: DAR
DOPAW
State Parks/Historic Sites
Land Management
DOCARE
DOWALD
NARS

PH:SOY

EH.

R

If historic remains such as artifacts, shell or charcoal deposits, burials, and stone platforms, pavings, or walls are found during construction, please direct the applicant to stop work in the immediate area and contact the Historic Sites Section at 548-7460 immediately. Our office will assess the situation and make recommendations for mitigative action, if needed.

RECEIVED

'88 JUN 1 PM 2:55

DLNR
OCEA

Dept. DLNR
Div. Docare, Maui

PPM
OCEA

TATE OF HAWAII
STIGATION REPORT

DOCARE-6

98 FEB 26 P3:12

DOCARE
ISLAND AND
RESOURCES

1. REPORT NUMBER MA 88-157	
2. INVESTIGATOR J MAU	
4. DISTRICT Lahaina, Maui	
CLASSIFICATION REQUEST FOR COMMENTS, CDUA	
5. COMPLAINANT (Firm Name, if Business) Maui Land & Pineapple Co., Ltd	6. SEX RACE AGE 7. D.O.B. 8. OCCUPATION
9. ADDRESS RR 1 Box 445-C, Honokahua	10. SCHOOL EMPLOYED/SCHOOL ATTENDING Res. Ph. Bus. Ph.
11. LOCATION OF OFFENSE AND CLOSEST INTERSECTING STREET Honokahua TMK: 4-2-1-1, & 4-1-17	12. DATE/TIME OCCURRED 13. DATE/TIME REPORTED 2-4-88
14. DESCRIBE LOCATION OF OFFENSE OR TYPE OF PREMISES	15. HOW REPORTED CDUA REQUEST

M

16. VEHICLE INVOLVED ()	Year	Make	Model	Color(s)	License No.	ID Characteristics
17. BOAT INVOLVED ()	Length	Make	Model	Color(s)	Name	HA No. ID Characteristics
18. REGISTERED OWNER	Address				Res. Phone	

CODE:	W - Witness	S - Suspect (Fill in Composite Description)	R - Reporting Person							
19. NAME	Age	Sex	Code	Address	Res. Phone	Bus. Phone				
20. SEX	Composite Description	Race	Age	Wt.	Build	Hair	Eyes	Complex.	Clothes	ID Characteristics

21. INVESTIGATION 1. Insert a synopsis of the crime or incident. 2. Summarize details of the crime or incident. 3. Denote persons from whom statements taken and who took them. 4. Identify additional suspects and witnesses. 5. Identify additional investigators. 6. Use opposite side for continuation of report, if necessary.

Synopsis
Request for Comments by OCEA, Oahu.

Assignment: Assigned by Docare Branch Chief, Keith KEAU to review application and submit comments relative to the proposed request.

Comments: This office have no objections to the propose request. The construction of fences would help protect the watershed lands and native vegetation in the project site and surrounding areas.

Disposition: Pending review by Docare Oahu and OCEA.

22. REPORT WRITTEN BY <i>[Signature]</i> J MAU Docare Officer, #81	Badge No.	Date/Time 2-22-88/1600hrs.	23. SUPERVISOR APPROVING <i>[Signature]</i> K KEAU, Branch Chief	Badge No. 2-24-88
--	-----------	-------------------------------	--	----------------------



LIBERT K. LANDGRAF
DEPUTY

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

FEB 5 10 14 AM '88

RECEIVED
DIVISION OF
LAND MANAGEMENT

AQUACULTURE DEVELOPMENT PROGRAM
AQUATIC RESOURCES CONSERVATION AND ENVIRONMENTAL AFFAIRS
CONSERVATION AND RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

Handwritten mark

FILE NO.: MA-2111
180-Day Exp. Date: 7/5/88
SUSPENSE DATE: 21 Days
DOCUMENT NO.: 2572E

FEB 4 1988

MEMORANDUM

TO: Maui Land Agent
FROM: Office of Conservation and Environmental Affairs
SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application
APPLICANT: Maui Land and Pineapple Co., Inc.
FILE NO.: MA-2111
REQUEST: Watershed and vegetation protection from feral pigs
LOCATION: Lahaina, Maui
TMKs: 4-1-1: 17 and 4-2-1: 1
PUBLIC HEARING: YES NO

RECEIVED
FEB 8 AM 8:27
DLNR
OCEA

Should you require additional information, please call us at 7837.

Handwritten signature of Roger C. Evans

Roger C. Evans

Attach.

DIVISION'S COMMENTS: Date: February 5, 1988

No objections.

By: Eddie Ansay
EDDIE ANSAI



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

RECEIVED
16 FEB 4 1988

AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
CONSERVATION AND
ENVIRONMENTAL AFFAIRS
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

FILE NO.: MA-2111
180-Day Exp. Date: 7/5/88
SUSPENSE DATE: 21 Days
DOCUMENT NO.: 2571E

MEMORANDUM

TO: Aquatic Resources; DOWALD; Forestry and Wildlife;
NARS; State Parks/Historic Sites; Land Management;
DOCARE

FROM: Office of Conservation and Environmental Affairs

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application

APPLICANT: Maui Land and Pineapple Co., Inc.

FILE NO.: MA-2111

REQUEST: Watershed and vegetation protection from feral pigs

LOCATION: Lahaina, Maui

TMKs: 4-1-1: 17 and 4-2-1: 1

PUBLIC HEARING: YES NO X

DOCARE: Please conduct a field inspection on this project.
Should you require additional information, please call us at 7837.

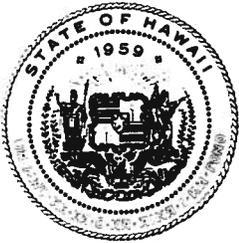
Attach.



Roger C. Evans

DIVISION'S COMMENTS: Date: _____

By: _____



SPECIAL USE PERMIT
NATURAL AREA RESERVES SYSTEM
DEPARTMENT OF LAND AND NATURAL RESOURCES
1151 PUNCHBOWL STREET, HONOLULU, HAWAII 96813

EFFECTIVE DATE: February 16, 1988

RESERVE: Honokowai Section,
West Maui reserve

EXPIRATION DATE: December 31, 1989

The Board of Land and Natural Resources, as approved by the Natural Area Reserves System Commission, hereby issues this Special-Use Permit in accordance with Section 195-5, Hawaii Revised Statutes, and Section 13-209-5, Department Administrative Rules, to

Mr. Doug Schenk, Plantation Manager
Maui Land & Pineapple Co., Inc.
RR1, Box 445-C
Lahaina, HI 96761

for the purpose of installing and maintaining strategically situated pig-control fences from Maui Land & Pineapple Co.'s land of Honokahua into the Honokowai Section of the West Maui Natural Area Reserve. At first there will be two fences, 30 to 400 feet long. The degree of control achieved and how pig movement has been altered by the two fences will determine the positioning of additional fences. Transportation of materials and construction personnel will be by helicopter.

Conditions

1. Removal of vegetation will be kept to a minimum.
2. Nothing will be left in the reserve except for the constructed fences.
3. Precautions will be taken to prevent introduction of plants or animals not naturally present in the project area. Should there be an infestation, it will be eradicated--with methods specified by NARS--whether it occurs during the permit period or after its expiration, and even though it may be only indirectly attributable to the project activities.
4. This permit is non-transferable.
5. This permit does not exempt the permit holder from complying with any other applicable rule or statute.
6. The State of Hawaii shall be held harmless for death or injury to persons, or damage to property, which may occur from any activity related to this permit.

Chairperson
Board of Land and Natural Resources

Permit Holder

RECEIVED

'88 FEB 12 PM 2:19

February 9, 1988

M

DLNR
Memorandum OCEA

2/11/88 RECEIVED
CONCUR SW

'88 FEB 11 P1:34

TO: Roger C. Evans, Planner
THROUGH: Ronald L. Walker, Acting Administrator
FROM: Wesley H. C. Wong, Jr., Forestry Manager
SUBJECT: Comments and Recommendations on Request for Watershed and Vegetation Protection from Feral Pigs by Maui Land & Pineapple Company, Inc. at Lahaina, Maui, TMK: 4-1-1:17 and 4-2-1:1 (MA-2111).

FORESTRY & WILDLIFE
STATE OF HAWAII

Comments

1. The proposed project compliments our fencing projects on adjacent state-owned lands to protect the West Maui Natural Area Reserve and its watershed values.

Recommendations

We recommend approval of this project because of its beneficial impact on the West Maui Natural Area Reserve. We further recommend that approval be subject to the following conditions:

1. That the applicant shall keep to a minimum all cutting or removal of vegetation in the project area.
2. That the fence shall be constructed using 4' high hog-wire mesh flushed to the ground, iron pins spaced no farther than 10 feet apart and a strand of barb wire running at ground level.
3. That no live trees shall be used to tack, tie, anchor, or otherwise used in the construction of the fences.
4. That the applicant shall be held responsible for the removal of all litter and debris generated from the construction and maintenance of the fence line and use of the area.
5. That the applicant shall be held responsible for all fires, including fire suppression costs, resulting in conjunction with the construction

U

and maintenance of the fence line.

6. That the applicant install one-way pig gates at each fence site to allow for pigs to exit the area if contained in the area after fencing.


Wesley H. C. Wong, Jr.
Forestry Manager

WHCW:da

FEB 4 1988

2/4/88

FILE NO.: MA-2111
180-Day Exp. Date: 7/5/88
DOCUMENT NO.: 2570E

Maui Land & Pineapple Co., Inc.
RR1, Box 445-C
Lahaina, Hawaii 96761
Attn: Mr. Doug Schenk

Dear Mr. Schenk:

NOTICE OF ACCEPTANCE AND ENVIRONMENTAL DETERMINATION
Conservation District Use Application
for Watershed and Vegetation Protection
at Lahaina, Maui

This acknowledges the receipt and acceptance for processing your application for watershed and vegetation protection activities.

According to your information, you propose to protect the watershed and native vegetation of the project area and surrounding area from destruction by feral pigs at TMKs: 4-1-1: 17 and 4-2-1: 1, Lahaina, Maui.

After reviewing the application, we find that:

1. The proposed use is a permitted use within the Protective and Resource subzones of the Conservation District according to Administrative Rules, Title 13, Chapter 2, as amended;
2. No public hearing pursuant to Section 183-41, Hawaii Revised Statutes (HRS), as amended, will be required in that the proposed use is of a non-commercial nature; and
3. In conformance with Title 11, Chapter 200, of the Administrative Rules, a negative declaration was determined for the proposed action.

As the applicant, please be advised that it will be your responsibility to comply with the provisions of Section 205A-29(b), Hawaii Revised Statutes, relating to Interim Coastal Zone Management (Special Management Area) requirements.

Negative action, as required by Law, on your application by the Board of Land and Natural Resources can be expected should you fail to obtain from the County thirty (30) days prior to the 180-day expiration date, as noted above, one of the following:

1. A determination that the proposed development is outside the Special Management Area (SMA);
2. A determination that the proposed development is exempt from the provisions of the county ordinance and/or regulation specific to Section 205A-29(b), HRS; or
3. A Special Management Area (SMA) permit for the proposed development.

Pending action on your application by the Land Board in the near future, your cooperation and early response to the matters presented herein will be appreciated. Should there be any questions, feel free to contact our Office of Conservation and Environmental Affairs staff at 548-7837.

Very truly yours,

/s/ LIBERT K. LANDGRAF

for
WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

Attachment (receipt)

cc: Maui Board Member
Maui Land Agent
Maui Dept. of Planning
Maui Dept. of Public Works
Maui Dept. of Parks and Recreation
DOH/OEQC/EC/OHA/DBED

bcc: DAR
DOFAW
State Parks/Historic Sites
Land Management
DOCARE
DOWALD
NARS

EH:sor

EH.
22

FEB 4 1988

FILE NO.: MA-2111
180-Day Exp. Date: 7/5/88
SUSPENSE DATE: 21 Days
DOCUMENT NO.: 2571E

MEMORANDUM

TO: Aquatic Resources; DOWALD; Forestry and Wildlife;
NARS; State Parks/Historic Sites; Land Management;
DOCARE

FROM: Office of Conservation and Environmental Affairs

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application

APPLICANT: Maui Land and Pineapple Co., Inc.

FILE NO.: MA-2111

REQUEST: Watershed and vegetation protection from feral pigs

LOCATION: Lahaina, Maui

TMKs: 4-1-1: 17 and 4-2-1: 1

PUBLIC HEARING: YES NO X

DOCARE: Please conduct a field inspection on this project.
Should you require additional information, please call us at 7837.



Roger C. Evans

Attach.

DIVISION'S COMMENTS: Date: _____

By: _____

EH:FOR

EH.

FEB 4 1988

FILE NO.: MA-2111
190-Day Exp. Date: 7/5/88
SUSPENSE DATE: 21 Days
DOCUMENT NO.: 2572E

MEMORANDUM

TO: Maui Land Agent

FROM: Office of Conservation and Environmental Affairs

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application

APPLICANT: Maui Land and Pineapple Co., Inc.

FILE NO.: MA-2111

REQUEST: Watershed and vegetation protection from feral pigs

LOCATION: Lahaina, Maui

TMKs: 4-1-1: 17 and 4-2-1: 1

PUBLIC HEARING: YES _____ NO X

Should you require additional information, please call us at 7837.

Attach.



Roger C. Evans

DIVISION'S COMMENTS: Date: _____

By: _____

EH:sox

EH.

FEB 4 1988

FILE NO.: MA-2111
180-Day Exp. Date: 7/5/88
SUSPENSE DATE: Three weeks
DOCUMENT NO.: 2573E

MEMORANDUM

TO: Honorable John C. Lewin, Director
Department of Health

FROM: WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application

APPLICANT: Maui Land and Pineapple Co., Inc.

FILE NO.: MA-2111

REQUEST: Watershed and vegetation protection from feral pigs

LOCATION: Lahaina, Maui

TMKs: 4-1-1: 17 and 4-2-1: 1

PUBLIC HEARING: YES _____ NO X

Your comments regarding the request will be greatly appreciated at your earliest convenience. Should you require additional information on the application, please contact our Office of Conservation and Environmental Affairs at 548-7837.

/s/ LIBERT K. LANDGRAF

for
WILLIAM W. PATY

Attachment

Also to: OEQC, EC, OHA, DEED

EH:BOE
EW. *R*

FEB 4 1988

FILE NO.: MA-2111
180-Day Exp. Date: 7/5/88
DOCUMENT NO.: 2574E

Honorable Christopher Hart, Director
Department of Planning
County of Maui
200 South High Street
Wailuku, Maui 96793

Dear Mr. Hart:

Re: CONSERVATION DISTRICT USE APPLICATION
by the Maui Land and Pineapple Co, Inc.
for the Protection of the Watershed and
Native Vegetation from Feral Pigs at
Lahaina, Maui

Attached please find Conservation District Use Application No. MA-2111 and our Department's notice to the applicant. We would appreciate receiving your review and comment at your earliest convenience.

Should you have further questions, please call our Office of Conservation and Environmental Affairs at 548-7837.

Very truly yours,

/s/ LIBERT K. LANDGRAF

for
WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources

Attachment

Also to: DPW, DP&R

EE: sor

EU
12



LIBERT K. LANDGRAF
DEPUTY

DIVISION OF AQUATIC RESOURCES	
DIRECTOR	Suspense Date:
COM FISHERIES	Draft Reply <input checked="" type="checkbox"/>
AQ RES/ENV	Reply Direct <input checked="" type="checkbox"/>
AQ RECR'N	Comments <input checked="" type="checkbox"/>
STAFF SVCS	Information <input type="checkbox"/>
FISH DEV	Comp. Act & File <input type="checkbox"/>
STATISTICS	Return To:
AFRC	Copies to:
SECRETARY	Remarks:
OFFICE SVCS	
FED AID	

DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE OF HAWAII

P. O. BOX 621
HONOLULU, HAWAII 96809

AQUACULTURE DEVELOPMENT PROGRAM
 AQUATIC RESOURCES CONSERVATION AND ENVIRONMENTAL AFFAIRS
 CONSERVATION AND RESOURCES ENFORCEMENT
 CONVEYANCES FORESTRY AND WILDLIFE
 LAND MANAGEMENT STATE PARKS
 WATER AND LAND DEVELOPMENT

FILE NO.: MA-2111
 180-Day Exp. Date: 7/5/88
 SUSPENSE DATE: 21 Days
 DOCUMENT NO.: 2571E

2/25

FEB 4 1988

MEMORANDUM

TO: Aquatic Resources; DOWALD; Forestry and Wildlife; NARS; State Parks/Historic Sites; Land Management; DOCARE

FROM: Office of Conservation and Environmental Affairs

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application

APPLICANT: Maui Land and Pineapple Co., Inc.

FILE NO.: MA-2111

REQUEST: Watershed and vegetation protection from feral pigs

LOCATION: Lahaina, Maui

TMKs: 4-1-1: 17 and 4-2-1: 1

PUBLIC HEARING: YES ___ NO X

RECEIVED
FEB 4 1988

Div. of Aquatic Resources

DOCARE: Please conduct a field inspection on this project. Should you require additional information, please call us at 7837.

Attach.

Roger C. Evans

DIVISION'S COMMENTS: Date: 2/5/88

OCEA
 DENY
 No Objection
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By:
Henry M. Salas



RECEIVED
DIVISION OF
LAND MANAGEMENT
FEB 8 4 04 PM '88

WILLIAM W. PATY, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

LIBERT K. LANDGRAF
DEPUTY

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

AQUACULTURE DEVELOPMENT PROGRAM
AQUATIC RESOURCES CONSERVATION AND ENVIRONMENTAL AFFAIRS
CONSERVATION AND RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

FILE NO.: MA-2111
180-Day Exp. Date: 7/5/88
SUSPENSE DATE: 21 Days
DOCUMENT NO.: 2571E

FEB 4 1988



MEMORANDUM

TO: Aquatic Resources; DOWALD; Forestry and Wildlife; NARS; State Parks/Historic Sites; Land Management; DOCARE

FROM: Office of Conservation and Environmental Affairs

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application

APPLICANT: Maui Land and Pineapple Co., Inc.

FILE NO.: MA-2111

REQUEST: Watershed and vegetation protection from feral pigs

LOCATION: Lahaina, Maui

TMKs: 4-1-1: 17 and 4-2-1: 1

PUBLIC HEARING: YES NO X

DOCARE: Please conduct a field inspection on this project. Should you require additional information, please call us at 7837.

Attach.

Roger C. Evans

DIVISION'S COMMENTS: Date: 2/17/88

LAND MANAGEMENT DIVISION
HAS NO OBJECTION.

By:

Neil K. Lindenberg

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DLNR
DCEA
FEB 22 PM 5:05 '88

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'88 FEB 16 AM 10:28



LIBERT K. LANDGRAF
DEPUTY

AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
CONSERVATION AND
ENVIRONMENTAL AFFAIRS
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

DEPARTMENT OF LAND AND NATURAL RESOURCES
OCEA
DIVISION OF STATE PARKS
P. O. BOX 621
HONOLULU, HAWAII 96809
February 10, 1988

MEMORANDUM

TO: Roger C. Evans, OCEA

FROM: Ralston H. Nagata, State Parks Administrator

SUBJECT: CDUA MA-2111 -- Watershed and vegetation protection from feral pigs
(Maui Land and Pineapple Co., Inc.)
Honokohau, Honolua and Honokahua, Lahaina, Maui
TMK 4-1-1:17 and 4-2-1:1

HISTORIC SITES SECTION CONCERNS:

This project area does not contain historic sites that are listed on the Hawaii Register or the National Register of Historic Places, or that have been determined eligible for inclusion on the National Register of Historic Places. However, no archaeological surveys have taken place in the area, so it is uncertain if significant historic sites are present.

We note that the project area is in the high elevation and within the forest reserve boundary. Information on the pattern of forest use is still lacking. Available data indicate that this environment was used primarily for resource exploitation (for example, trees for canoes and birds for feathers). Remains of these special activities and associated sites for temporary shelter are expected to occur, but only sparsely. Since determination of the exact fence line will be made on the first day, we recommend that the following condition be included in the permit:

A professional archaeologist should be hired to accompany the team who will be in the project area to determine the exact location of the fence line. The archaeologist will determine if significant sites are present in the selected locations. If significant sites are present, the location of the fence line should be changed to avoid the sites. A report on the results of this trip should be submitted to the Historic Sites Section.

Should you have any questions, please contact Ms. Annie Griffin, staff archaeologist handling the island of Maui, at x6408.

RECREATION CONCERNS:

There are no state park concerns.

RALSTON H. NAGATA



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

P. O. BOX 373
HONOLULU, HAWAII 96809

WILLIAM W. PATY, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

LIBERT K. LANDGRAF
DEPUTY

AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
CONSERVATION AND
ENVIRONMENTAL AFFAIRS
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

February 16, 1988

MEMORANDUM

TO: Mr. Roger Evans, OCEA

FROM: Manabu Tagomori

SUBJECT: Watershed Protection from Feral Pigs, Lahaina
(File No. MA-2111)

It is commendable of the applicant to control feral pig damage on the West Maui watershed. The fencing of the applicant's land would likely result in an increase of the animal population in the adjoining lands, some of which are state-owned. For this reason, the project, if approved, should be carefully monitored.


MANABU TAGOMORI

TN:GSM:ko

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'88 FEB 18 PM 4:06

DLNR
OCEA

CEA

JOHN WAIHEE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH

P. O. BOX 3378
HONOLULU, HAWAII 96801

JOHN C. LEWIN, M.D.
DIRECTOR OF HEALTH

RECEIVED
03 FEB 22 P 11:14
DEPT. OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

In reply, please refer to:
EPHSD

February 16, 1988

MEMORANDUM

To: The Honorable William W. Paty, Chairperson
Board of Land and Natural Resources

From: Director of Health

Subject: Conservation District Use Application
File No: MA-2111
Request: Watershed and Vegetation Protection from Feral Pigs,
Lahaina, Maui

W

Our staff has reviewed this request and does not foresee any major adverse environmental effects arising from this project.

Please be informed that we have no objections to granting the permit.

JOHN C. LEWIN, M.D.

DLNR
OCEA

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1988 FEB 22 PM 2:26

RECEIVED

11

CEA
HANNIBAL TAVARES
Mayor



917
CHRISTOPHER L. HART
Planning Director
RALPH N. MASUDA
Deputy Planning Director

RECEIVED

88 FEB 19 P 1:27

COUNTY OF MAUI
PLANNING DEPARTMENT

200 S. HIGH STREET
WAILUKU, MAUI, HAWAII 96793

DEPT. OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

February 16, 1988

RECEIVED
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DLNR
OCEA
E

Mr. William W. Paty, Chairperson
Board of Land and Natural Resources
P. O. Box 621
Honolulu, HI 96809

Dear Mr. Paty:

Subject: Conservation District Use Application by Maui Land and Pineapple Company, Inc. for the Protection of the Watershed and Native Vegetation ~~from~~ Feral Pigs at Lahaina, Maui. (File No. MA-2111).

The Planning Department has reviewed the subject application and finds that the proposed project is located outside of the Special Management Area (SMA); therefore, no SMA Assessment Permit is required.

Thank you for the opportunity to comment on this application. Should you have any questions, please contact myself or Mr. Philip Ohta of my staff.

Very truly yours,

CHRISTOPHER L. HART
Planning Director

PO:hk
cc: P. Ohta

CEA

898

JOHN WAIHEE
GOVERNOR



RECEIVED

2:18 P:04

MARVIN T. MIURA, Ph.D.
DIRECTOR

TELEPHONE NO.
548-6915

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL
465 SOUTH KING STREET, ROOM 104
HONOLULU, HAWAII 96813

LAND AND NATURAL RESOURCES
STATE OF HAWAII

February 17, 1988

3

William W. Paty, Chairperson
Board of Land and Natural Resources
PO Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

Subject: Conservation District Use Application by
Maui Land and Pineapple Co., Inc. for
measures to protect watershed and vegetation
from feral pigs in Lahaina, Maui (CDUA 2111)

This project proposes to construct fences at strategic
locations to prevent feral pigs from entering into high
watershed areas. We realize that pigs can cause
significant damage and support this project.

Thank you for allowing us the opportunity to review this
CDUA.

Sincerely,

Marvin T. Miura, Ph.D.
Interim Director

Roy Sakamoto,
Envir. Tech. Spec.

RECEIVED
FEB 19 AM 8:14
DLNR
OCEA

11

CEA

990



DEPARTMENT OF BUSINESS AND ECONOMIC DEVELOPMENT

KAMAMALU BUILDING, 250 SOUTH KING ST., HONOLULU, HAWAII
MAILING ADDRESS: P.O. BOX 2359, HONOLULU, HAWAII 96804 TELEX: 7430250/HIDDED

JOHN WAIHEE
GOVERNOR

ROGER A. ULVELING
DIRECTOR

BARBARA KIM STANTON
DEPUTY DIRECTOR

LESLIE S. MATSUBARA
DEPUTY DIRECTOR

Ref. No. P-8087

February 18, 1988

DEPT. OF LAND & NATURAL RESOURCES
STATE OF HAWAII

72: 49

MEMORANDUM

TO: The Honorable William W. Paty, Chairperson
Department of Land and Natural Resources

FROM: Roger A. Ulveling

SUBJECT: CDUA for Watershed and Vegetation Protection from Feral Pigs
Lahaina, Maui (MA-2111)

3

We have reviewed the subject application and do not find any significant adverse impacts relative to the Hawaii Coastal Zone Management Program.

Thank you for the opportunity to comment.

Roger A. Ulveling

'88 FEB 23 PM 2:03

DLNR
OCEA

RECEIVED



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

WILLIAM W. PATY, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

LIBERT K. LANDGRAF
DEPUTY

AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
CONSERVATION AND
ENVIRONMENTAL AFFAIRS
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

February 19, 1988

W

DLNR
OCEA

FEB 22 AM 10:33

RECEIVED

MEMORANDUM

TO: Mr. Roger C. Evans
OCEA

FROM: Robert Lee
NARS

SUBJECT: CDUA MA-2111, Maui Land & Pineapple Co. Pig Control Project

As a matter of clarification, it should be noted that the CDUA, of which we recommend approval, covers only the Maui Land & Pineapple land area (Honokahua and Honokahau) needed for the fencing project. As shown on the applicant's map, two of the fences would extend into the state lands of the Honokowai Section of the West Maui Natural Area Reserve. Without this extension into the state reserve, the fencing project would be ineffective in controlling or restricting the mauka movement of feral pigs. The Land Board, through its Chairman and with the approval of the Natural Area Reserves System Commission, has issued a NARS special-use permit to install the proposed fences in the West Maui reserve. A copy of the permit is attached.

Robert Lee

HANNIBAL TAVARES
Mayor

ALVIN K. FUKUNAGA
Director

BRIAN HASHIRO, P.E.
Deputy Director

GEORGE KAYA
Highways Division

FRED ARAKI, P.E.
Engineering Division

EASSIE MILLER, P.E.
Waste Management Division

AARON SHINMOTO, P.E.
Land Use and Codes Administration



COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS

200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793

RECEIVED

'88 MAR 22 AM 8:44

DLNR
OCEA

March 8, 1988

State of Hawaii
Board of Land and Natural
Resources
P.O. Box 621
Honolulu, Hawaii 96809

3

Attn: Mr. William Paty, Chairperson
Board of Land and Natural Resources

Gentlemen:

Re: Conservation District Use Application By Maui Land and
Pineapple Co., Inc. for the Protection of the Watershed
and Native Vegetation from Feral Pigs at TMK:4-2-01:01,
Lahaina, Maui, Your File No. MA-2111.

We have reviewed the subject application and have no comments
to offer at this time.

If you have any questions, please contact the Land Use and
Codes Administration at 244-7760.

Very truly yours,

Brian Hashiro
For ALVIN K. FUKUNAGA
Director of Public Works

AS/ms

cc: Maui County Planning Department