



**STATE OF HAWAII**  
**DEPARTMENT OF LAND AND NATURAL RESOURCES**  
**COMMISSION ON WATER RESOURCE MANAGEMENT**

ORIGINAL

For Official Use Only:

RECEIVED  
 COMMISSION ON WATER  
 RESOURCE MANAGEMENT  
 2009 APR 30 - AM 8:37

**APPLICATION FOR SURFACE WATER USE PERMIT FOR  
 PROPOSED NEW USE IN A DESIGNATED SURFACE WATER  
 MANAGEMENT AREA**

**FORM SWUPA-N**  Application for New use  
 Application to Modify SWUP No. \_\_\_\_\_

For detailed instructions on filling out this application form completely, refer to the attached instructions sheet.  
 Incomplete applications will not be accepted for processing.

SWUP.2317.6

The following must be attached before this application is accepted as complete:

- Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) labeled with stream and diversion location and the quad map name.
- Property tax map showing the stream or diversion location and location of water use referenced to established property boundaries.
- Photograph(s) of the surface water source, diversion and end use, if applicable.

**APPLICANT INFORMATION:** NOTE: In accordance with HRS §174C-51(1)(B), *In the event a lessee, licensee, developer, or any other person with a terminable interest or estate in the land which is the water source of the permitted water, applies for a water permit, the landowner shall be stated as a joint applicant for the water permit.*

<b>1. APPLICANT'S NAME</b> GORDON APO (LANDOWNER) LESTER NAKAMA (LESSEE)		Applicant's Contact Lester Nakama (Aloha Poi Factory)	<b>2. SOURCE LANDOWNER'S NAME</b> WAILUKU WATER CO. LLC		Source Landowner's Contact Avery Chumbley
Applicant's Mailing Address, or Principal Place of Business Aloha Poi Factory, Inc. 800 Lower Main Street Wailuku, HI 96793			Source Landowner's Mailing Address, or Principal Place of Business 255 East Waiko Road Wailuku, HI 96793		
Applicant's Phone	Applicant's Fax	Applicant's E-mail	Source Landowner's Phone (808) 244-7079	Source Landowner's Fax (808) 242-7068	Source Landowner's E-mail abc@aloha.net

**SOURCE INFORMATION**

**3. SURFACE WATER HYDROLOGIC UNIT:** Island: MAUI Hydrologic Unit: WAIHEE Hydrologic Unit Code: 6022

**4. INSTREAM FLOW STANDARD (IFS) FOR HYDROLOGIC UNIT IF APPLICABLE:** N/A

**5. CAN YOUR PROPOSED USE(S) BE ACCOMMODATED WITHIN THE ABOVE AMOUNTS:**  Yes  No  
 Explain how your proposed use(s) can be accommodated within the existing IFS for the above hydrologic unit:  
 see Attachment I

**6a. TMK OF PROPOSED STREAM DIVERSION LOCATION:** 3 - 2 - 0 1 4 : 0 0 1  
Zone Sec Plat Parcel

**6b. TMK OF PROPOSED DITCH DIVERSION LOCATION:** 3 - 2 - 0 0 6 : 0 0 8  
Zone Sec Plat Parcel

**7a. PROPOSED STREAM DIVERSION:** How will water be diverted from the stream to your property? Check all that apply.  
 Pipe  Pump  Ditch/auwai  Other Describe: See Attachment I

**7b. WILL THE DIVERTED WATER BE RETURNED TO THE STREAM OR DITCH?**  
 Yes. How much water will be returned? see Attachment I  
 No

**8. PROPOSED FLOW MEASUREMENT INFORMATION:**  
 Will the stream diversion have a flow meter with totalizer or other device to measure diverted amounts?  
 Yes. List the manufacturer and describe the device .  
 No. Explain how stream diversion will be measured or estimated to justify amounts requested in the space below.  
 see Attachment I

**PROPOSED USE INFORMATION** HRS §174C-51(4), (5), (6)

**9. TOTAL QUANTITY OF WATER REQUESTED:** 157,000 gallons per day. See Table 1, Item 14.

**10. PROPOSED USE:** Check all that apply.  Agriculture  Domestic  Industrial  
 See Table 1, Item 1.  Irrigation  Military  Municipal

**11. LOCATION OF PROPOSED WATER USE:** Show the location of the proposed use on the same USGS and TMK maps as the proposed source location. Otherwise, attach similar maps. See Table 1, Item 2.

**PROPOSED USER INFORMATION**

**12. APPURTENANT RIGHT:** Do you claim an appurtenant right for your proposed water use?  Yes  No  
 if yes, has the appurtenant right been established by the courts or the Commission?  Yes  No

**13. PROPOSED END USER INFORMATION:** Will you be an end user on an existing water system?  
 Yes. List the name of the system operator: Wailuku Water Company  No

**14. REGISTRATION AND DECLARATION OF WATER USE:** Do you have a Registration and Declaration of Water Use from the Commission?  
 Yes. List the file reference name(s): Murakami CA  No

**15. STREAM DIVERSION WORKS PERMIT (SDWP):** Do you have a SDWP from the Commission?  
 Yes. List the permit number(s):  No

NOTE: Signing below indicates that the signatories understand and affirm that the information provided on this application is accurate and true to the best of their knowledge. Furthermore, the signatories understand that: 1) if necessary, additional information may be required before the application is considered complete; 2) if a water use permit is granted by the Commission, this permit will be subject, but not limited to, any existing legal uses, changes in sustainable yields and instream flow standards, Hawaiian Home Lands uses, and any other conditions imposed by the Commission; and 3) the applicant is responsible for paying the required public notice fees associated with this application.

**16. APPLICANT**  
 Signature:   
 Print: GORDON APO  
 Date: 4/19/09

**17. SOURCE LANDOWNER**  
 Signature: \_\_\_\_\_  
 Print: \_\_\_\_\_  
 Date: \_\_\_\_\_

FILE ID: SWUP.2317.6

## APPLICATION FOR SURFACE WATER USE PERMIT - PROPOSED NEW USE

### TABLE 1: LAND USE CONSISTENCY / EFFICIENCY

(Attach additional copies of Table1 if necessary.)

LAND USE CONSISTENCY					EFFICIENCY OF USE					
1	2	3	4	5	6	7	8	9	10	11
PURPOSE / WATER USE CATEGORY	TMK FOR PROPOSED LOCATION OF USE ATTACH THE FOLLOWING: • Property tax map, showing proposed location of use referenced to established property boundaries. • Photograph of the area of proposed use.	STATE LAND USE DISTRICT	CDUP REQ'D Check the appropriate box, and write in the date approved, if applicable.	CDUNTY ZONING CODE	SMAP REQ'D Check the appropriate box, and write in the date approved, if applicable.	UNITS OR NET ACREAGE	GPD/UNIT or GPD/ACRE (Gallons per Day)	REQUESTED QUANTITY OF USE (GPD)	SUB-METERED? Check Yes or No	APPLICANT'S JUSTIFICATION FOR REQUESTED QUANTITY OF USE FOR ITEM 9. If applicable, attach sheets to show how this number was calculated. For irrigation uses, fill in Table 2.
<b>Uses that require potable (drinking) water</b>										
	Zone - Sec - Plat : Parcel		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Zone - Sec - Plat : Parcel		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Zone - Sec - Plat : Parcel		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Zone - Sec - Plat : Parcel		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>TOTAL POTABLE USE</b>								0 <sup>12</sup>	<b>GPD</b>	
<b>Uses that do not require potable water</b>										
AGRCP	3 - 2 - 0 0 6 : 0 1 0	AG	<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input checked="" type="checkbox"/> No	AG	<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input checked="" type="checkbox"/> No	0.67	300,000	201,000	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Total amount requested reflects reduction by existing use amount, see Attachment 1
AGRCP	3 - 2 - 0 0 6 : 0 1 1	AG	<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input checked="" type="checkbox"/> No	AG	<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input checked="" type="checkbox"/> No	0.06	300,000	18,000	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Zone - Sec - Plat : Parcel		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Zone - Sec - Plat : Parcel		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No		<input type="checkbox"/> Yes, date approved: / / <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>TOTAL NON POTABLE USE</b>								157,000 <sup>13</sup>	<b>GPD</b>	
<b>TOTAL QUANTITY OF WATER REQUESTED (Sum of Total Potable Use and Total Non-Potable Use above) =</b>								157,000 <sup>14</sup>	<b>GPD</b>	
15. Please explain if there are any limitations (legal, contractual, etc.) on the use(s) of water described above. §174C-51(5) HRS To the best of my knowledge, there are no limitations on the use of water described above.										

**APPLICATION FOR SURFACE WATER USE PERMIT - PROPOSED NEW USE**

**TABLE 2: IRRIGATION INFORMATION**

List all crops that will be grown as separate line items and include landscape and golf course irrigation.  
Attach additional copies of Table 2 if necessary.

1	2	2	4	5	6	7	8
TMK OF PROPOSED LOCATION OF USE (Attach TMK map outlining area and photos for each proposed use.)	CROP	TOTAL ACREAGE	NET IRRIGATED ACREAGE	BEGIN GROWTH PERIOD (Month)	END GROWTH PERIOD (Month)	IRRIGATION SYSTEM (Refer to Instructions.)	IRRIGATION PRACTICE (Refer to Instructions.)
3 - 2 - 006 : 010 <small>Zone Sec Plat Parcel</small>	TARO (WETLAND)	1.34	0.67	YEAR ROUND	YEAR ROUND	FLOOD (TARO)	IRRIGATE TO FIELD CAPACITY
3 - 2 - 006 : 011 <small>Zone Sec Plat Parcel</small>	TARO (WETLAND)	0.06	0.06	YEAR ROUND	YEAR ROUND	FLOOD (TARO)	IRRIGATE TO FIELD CAPACITY
<small>Zone Sec Plat Parcel</small>							
<small>Zone Sec Plat Parcel</small>							
<small>Zone Sec Plat Parcel</small>							
<small>Zone Sec Plat Parcel</small>							
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<small>Zone Sec Plat Parcel</small>							
<small>Zone Sec Plat Parcel</small>							

**9. COMMENTS:**

**APPLICATION FOR SURFACE WATER USE PERMIT - PROPOSED NEW USE**

**TABLE 3: ALTERNATIVES ANALYSIS AND ADDITIONAL REQUIREMENTS**

	<b>A. Analysis of Potable Alternatives (Attach additional sheets if necessary.)</b>	<b>B. Analysis of Non-Potable Alternatives (Attach additional sheets if necessary.)</b>
Municipal sources		see Attachment 1
Wastewater reuse		see Attachment 1
Ditch system		see Attachment 1
Desalinization		see Attachment 1
Ground water		see Attachment 1
Other (specify)		N/A

**C. ADDITIONAL REQUIREMENTS:**

**PUBLIC INTEREST** Hawaii Revised Statutes §174C-2(c) states that: *The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.*

1. Explain below how your proposed new use(s) will maximize beneficial use(s) and how they will be deemed to be in the public interest as defined by the State Water Code above.  
see Attachment 1

2. Explain below how your proposed new use(s) will not interfere with any existing legal use(s).  
see Attachment 1

3. Explain below how your proposed new use(s) will not interfere with the rights of the Department of Hawaiian Home Lands as provided in Section 221 of the Hawaiian Homes Commission Act.  
see Attachment 1

# APPLICATION FOR SURFACE WATER USE PERMIT PROPOSED NEW USE

## INSTRUCTIONS

This application form is for new surface water uses or for a modification of a previously approved water use permit in designated surface water management areas. New surface water uses are proposed uses after the effective date of designation of the surface water management area. Please check the appropriate box.

**Do not use this form for existing surface water use applications.** Existing surface water uses are actual uses before the effective date of designation. Please use Form SWUPA-E for existing uses.

Most questions can be addressed by visiting our website at: [www.hawaii.gov/dlnr/cwrn](http://www.hawaii.gov/dlnr/cwrn), or contacting us at 587-0234, or by email at: [dlnr.cwrn@hawaii.gov](mailto:dlnr.cwrn@hawaii.gov). The current application forms are also available at: [www.hawaii.gov/dlnr/cwrn/resources\\_permits.htm](http://www.hawaii.gov/dlnr/cwrn/resources_permits.htm).

### REQUIREMENTS FOR A COMPLETE APPLICATION

1. Fill in the most recent application form. A current form is available at our web site or by contacting us at 587-0234.
2. Print in ink or type in the information on the application.
3. Fill in every item in the application form (page 1) and Tables 1, 2, and 3 as it relates to your proposed new use or permit modification.
4. Enclose a check for the non-refundable filing fee of \$25 payable to: Department of Land and Natural Resources. Government agencies are not required to pay the filing fee.
5. Pay for the cost of publishing any required public notices related to your application. The current cost for publishing public notices is approximately \$400.00. Commission staff will provide instructions later in the permit process regarding payment of these costs.
6. Mark the source and end use locations on the appropriate USGS quad map (scale 1:24,000) and property tax (TMK) map and attach these maps to your application.
7. Attach photos showing your existing diversion, measuring device(s) (if applicable) and end use areas.
8. Sign the application form in ink. Both the applicant and the landowner where the source is located must sign the application form.
9. Submit the original application and 15 copies of the application form and all attachments (maps, photos and any other attachments) and filing fee to: Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809.

### ADDITIONAL REQUIREMENTS FOR A COMPLETED APPLICATION

Per Hawaii Revised Statutes §174C-49, the applicant must establish that the proposed new use of surface water:

1. Can be accommodated with the available water source.
2. Is a reasonable-beneficial use.\*
3. Will not interfere with any existing legal use of water.
4. Is consistent with the public interest.\*\*
5. Is consistent with state and county general plans and land use designations.
6. Is consistent with county land use plans and policies.
7. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in Section 221 of the Hawaiian Homes Commission Act.

\*HRS §174C-3 of the State Water Code states: *"Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is both reasonable and consistent with the state and county land use plans and the public interest.*

\*\*HRS §174C-2(c) of the State Water Code states that: *(t)he state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.*

**NOTE:** Filling in the application from and Tables 1, 2, and 3 completely will address the requirements of HRS §174C-49.

### LINE BY LINE INSTRUCTIONS ON APPLICATION

#### APPLICANT INFORMATION

In accordance with the Hawaii Water Code, both the applicant and the person who owns the property where the water source is located are required to apply for a water use permit. §174C-51(1)(B), HRS, states, *In the event a lessee, licensee, developer, or any other person with a terminable interest or estate in the land, which is the water source of the permitted water, applies for a water permit, the landowner shall also be stated as a joint applicant for the water permit.*

1. **APPLICANT'S NAME:** Fill in the information for the applicant. This should be the person who will be responsible for all conditions of the water use permit.
2. **SOURCE LANDOWNER'S NAME:** Fill in the information for the landowner of the property where the existing surface water diversion works is located.

#### SOURCE INFORMATION

3. **SURFACE WATER HYDROLOGIC UNIT AND CODE:** Enter the appropriate island, hydrologic unit name, and hydrologic code where the proposed source is located. The "source" is the stream from which water is diverted to the user. For information on hydrologic unit names and unit codes please refer to the *Surface Water Hydrologic Unit: A Management Tool for Instream Flow Standards* report available on the CWRM website at: <http://www.hawaii.gov/dlnr/cwrn/>, or contact CWRM staff at (808) 587-0234. You may also contact CWRM toll-free from Maui at: 984-2400, ext. 70234.

**APPLICATION FOR SURFACE WATER USE PERMIT  
PROPOSED NEW USE**

4. **INSTREAM FLOW STANDARD (IFS) FOR HYDROLOGIC UNIT:** Provide Instream Flow Standard (IFS) for hydrologic unit if available.
5. **CAN YOUR PROPOSED USE BE ACCOMMODATED WITHIN THE ABOVE AMOUNTS:** Check "Yes" or "No". Explain how your proposed use(s) can be accommodated within the Instream Flow Standard (IFS) for the above hydrologic unit.
- 6a. **TMK OF PROPOSED STREAM DIVERSION LOCATION:** Fill in the Tax Map Key (TMK) number of the tax parcel where the stream diversion will be located. Each tax parcel is issued a TMK number by the county property tax office and is defined as follows: 1st digit = (Island code), 2nd digit = Zone, 3rd digit = Section, Digits 4-6 = Plat, Digits 7-10 = Parcel, e.g. (1) 1-1-001:001. To find out your TMK number, call Maui County Real Property Tax Division at: (808) 270-7297, or check online at: [www.mauipropertytax.com/](http://www.mauipropertytax.com/)
- 6b. **TMK OF PROPOSED DITCH DIVERSION LOCATION:** Fill in the Tax Map Key (TMK) number of the parcel where the proposed ditch diversion will be located.
- 7a. **PROPOSED STREAM DIVERSION:** How will water be diverted from the stream to your property? Check all the appropriate box(es).
- 7b. **WILL THE DIVERTED WATER BE RETURNED TO THE STREAM OR DITCH?** Check "Yes" or "No." If yes, enter the amount of water to be returned.
8. **PROPOSED FLOW MEASUREMENT INFORMATION:** Check "Yes" or "No". If yes, please describe the measuring device. A flowmeter with a totalizer will directly measure the total use for the source (similar to a car's odometer). If no, explain how stream diversion will be measured or estimated to justify amounts requested.

**PROPOSED USE INFORMATION (HRS §174C-51(4), (5), (6))**

9. **TOTAL QUANTITY OF WATER REQUESTED:** Enter the amount of water requested as gallons per day (GPD). Fill out Table 1 and enter the amount in Box 14, "Total Use Requested."
10. **PROPOSED USE:** Check all the boxes that apply for the proposed use. Refer to the instructions for Table 1: Land Use Consistency/Efficiency of Use, Item 1: Purpose/Water Use Category below to determine which water use category to use.
11. **LOCATION OF PROPOSED WATER USE:** Show the location of the proposed use on the same USGS and TMK maps as the proposed source location. Otherwise, attach similar maps and show the location of the proposed use.

**PROPOSED USER INFORMATION**

12. **APPURTENANT RIGHT:** An appurtenant water right is a legally recognized right to a specific amount of surface freshwater – usually from a stream – on the specific property that has that right. This right traces back to the first time the land was converted to fee simple title; i.e., the Great Mahele and the issuance of either a Land Commission Award or Royal Patent. The quantity of water under the appurtenant right is the amount that was being used on the land shortly before or at the time of the Mahele. Do you claim an appurtenant right for your proposed water use? Check "Yes" or "No."  
If yes, has your appurtenant right been established by the courts or the Commission? Check "Yes" or "No."
13. **PROPOSED END USER INFORMATION:** Will you be an end user on an existing water system? Check "Yes" or "No." If yes, please list the name of the water system operator.
14. **REGISTRATION AND DECLARATION OF WATER USE:** Do you have a Registration and Declaration of Water Use from the Commission? Check "Yes" or "No". If yes, list the name of the registrant(s).
15. **STREAM DIVERSION WORKS PERMIT (SDWP):** Have you ever been issued a SDWP by the Commission? If yes, please list the permit number(s). Otherwise, check "No."
16. **APPLICANT:** Sign and print your name, and date your application.
17. **SOURCE LANDOWNER:** Sign and print your name, and date your application. The landowner of the source shall be a joint applicant in the event the applicant is a lessee, licensee, developer, or any other person with a terminable interest or estate in the land which is the water source of the permitted water. §174C-51(1)(B)

**TABLE 1: LAND USE CONSISTENCY / EFFICIENCY OF USE**

Provide information on all of the proposed uses you are applying for or seeking to modify. In the space provided below the table or on a separate sheet, explain whether there are any limitations (e.g., a contract or other legal agreement(s)) on your proposed water use(s), as required by §174C-51(5), HRS.

1. **PURPOSE / WATER USE CATEGORY:** For each proposed use, choose one of the categories listed below and enter the appropriate code in the space provided (e.g. AGRAQ, IRRIG, etc.)

**AGRICULTURE**

AGRAQ	Aquatic Plants & Animals
AGRCP	Crops & Processing
AGRLI	Livestock & Processing, and Pasture
AGRON	Ornamental & Nursery Plants
AGROTH	Other

**DOMESTIC**

DOM	Single & Multi Low-Rise & High-Rise Household
DOMN	Domestic (Non-residential)
DOMNCB	Commercial Businesses
DOMNRI	Religious Institutions
DOMNHOS	Hospitals
DOMNHOT	Hotels
DOMNOB	Office buildings
DOMNOTH	Domestic Non-Residential – Other
DOMNSC	Schools

**APPLICATION FOR SURFACE WATER USE PERMIT  
PROPOSED NEW USE**

**INDUSTRIAL**

INDEL Geothermal, Thermoelectric Cooling, Power Development  
 INDFP Fire Protection  
 INDMI Mining, Dust Control  
 INDOTH Industrial – Other

**IRRIGATION**

IRRGC Golf Course  
 IRRHM Habitat Maintenance  
 IRRHOT Hotel  
 IRRLA Landscape/Water Features  
 IRROTH Other  
 IRRPA Parks  
 IRRSC Schools

**MILITARY**

MIL Military

**MUNICIPAL**

MUNCO County  
 MUNPR Privately owned and operated but defined as a public system by the Department of Health  
 MUNST State

2. USE TMK: The Tax Map Key number of the parcel over which the water will be applied. There should only be one parcel for each line. Also, attach a TMK map(s) for the lots showing the boundaries of irrigated acreage, etc., as well as a photograph of the area of use.
3. STATE LAND USE DISTRICT: To find out the current Land Use District, contact the Land Use Commission at 587-3822.
4. CDUP REQUIRED: If a Conservation District Use Permit (CDUP) is required, check "Yes" and enter the date CDUP was approved if you have a CDUP applicable to this project; or check "Yes, not acquired". If a CDUP is not required, check "No." To find out if your parcel is in the Conservation District, contact the Land Use Commission at 587-3822. If your parcel is in a Conservation District, contact the Department of Land and Natural Resources Office of Conservation and Coastal Lands at 587-0328 to find out if a CDUP is required.
5. COUNTY ZONING CODE: To find out the Zoning Code for Na Wai Eha, contact Maui County Department of Planning at 270-6279 or 270-7253.
6. SMAP REQUIRED: If a Special Management Area Permit (SMAP) is required, check "Yes" and enter the date SMAP was approved if you have a SMAP applicable to this project; or check "Yes, not acquired". If a SMAP is not required, check "No." To find out if your parcel is in a Special Management Area and requires an SMAP, contact Maui County at 270-8205.
7. UNITS OR NET ACREAGE: This is the value and category as the basis for calculating the duty. "Duty" means the amount of water requested for a "unit" over a specific time period, e.g. gallons per acre per day, or gallons/acre/day. "Unit" can mean dwelling unit, or number of people, or animals. Some examples of this category include: 400 dwelling units, 500 people, and 3.74 acres.
8. GPD/UNIT or GPD/ACRE (GPD=gallons per day): Enter the gallons per day or gallons per acre for each water use category listed in Column #1.
9. REQUESTED QUANTITY OF USE (GPD): Enter the requested quantity of use in gallons per day (GPD) at build out after all phases of your project have been completed. The build out amount may differ from the four-year cumulative projected demand if your build out date extends beyond the cumulative projected four-year demand.
10. SUBMETERED? Is there a second measuring device or meter for another user? Check "Yes" or "No" if the specific use will be submetered or not. Submetering is specific to each line item.
11. APPLICANT'S JUSTIFICATION FOR QUANTITY OF REQUESTED USE FOR ITEM #9: Explain how you are justifying the amount(s) you are requesting for Item #9. Attach additional copies of Table 1 if necessary to show how this number was calculated. For irrigation uses, fill in Table 2.
12. TOTAL POTABLE USE: Add the quantities listed in the column above for potable water and enter the total potable use in gallons per day (GPD) here.
13. TOTAL NON-POTABLE USE: Add the quantities listed in the column above for uses that do not require potable water and enter the total non-potable use in gallons per day (GPD) here.
14. TOTAL QUANTITY OF WATER REQUESTED: Add the requested amounts listed on Box 13 and Box 14 and enter the total requested amount of both potable and non-potable uses here.
15. Please explain if there are any limitations (legal, contractual, etc.) on the use(s) of water described above. HRS §174C-51(5)

**TABLE 2: IRRIGATION INFORMATION**

On Table 2, provide the information requested for all the crops you are proposing to grow, including landscape and golf course turf and plants. Enter only one crop and one parcel number (TMK) per line. For multiple crops, list each one as a separate line item. All proposed or modified irrigation uses you are applying for must be listed. Attach additional copies of Table 2, if necessary.

1. USE TAX MAP KEY (TMK): Enter the parcel number where the crop will be grown. Also attach a property tax map with an outline around the area(s) of proposed use(s) and a photograph of each area of the proposed use.
2. CROP: Enter the crop type.
3. TOTAL ACREAGE: Enter the total acreage of the parcel listed.
4. NET IRRIGATED ACREAGE: Enter the acreage that the specific crop will be grown.
5. BEGIN GROWTH PERIOD (MONTH): This is the month of the start of the growth cycle.
6. END GROWTH PERIOD (MONTH): This is the month of the end of the growth cycle.
7. IRRIGATION SYSTEM: Enter one of the following:

TRICKLE, DRIP  
 TRICKLE, SPRAY  
 MULTIPLE SPRINKLERS

**APPLICATION FOR SURFACE WATER USE PERMIT  
PROPOSED NEW USE**

SPRINKLER, CONTAINER NURSERY  
SPRINKLER, LARGE GUNS  
SEEPAGE, SUBIRRIGATION  
CROWN FLOOD  
FLOOD (TARO)  
OTHER – Please describe in the space provided for Comments.

8. IRRIGATION PRACTICE: Enter one of the following:

IRRIGATE TO FIELD CAPACITY  
APPLY A FIXED DEPTH PER IRRIGATION  
DEFICIT IRRIGATION  
OTHER - Please describe in the space provided for COMMENTS below.

**TABLE 3: ALTERNATIVES ANALYSIS AND ADDITIONAL REQUIREMENTS**

A. ALTERNATIVES ANALYSIS: Please address each alternative and explain why they are or are not available for potable needs. Other alternatives on the last line may include stormwater reclamation, rainwater catchment, etc. that are not already listed above.

B. ALTERNATIVES ANALYSIS: Please address each alternative and explain why they are or are not available for non-potable needs. Other alternatives on the last line may include stormwater reclamation, rainwater catchment, etc. that are not already listed above.

Surface water is defined in §174C-3, HRS as: *...both contained surface water—that is, water upon the surface of the earth in bounds created naturally or artificially including, but not limited to, streams, other watercourses, lakes, reservoirs, and coastal waters subject to state jurisdiction—and diffused surface water—that is, water occurring upon the surface of the ground other than in contained waterbodies. Water from natural springs is surface water when it exits from the spring onto the earth's surface.*

C. **ADDITIONAL REQUIREMENTS**

1. Explain how your proposed new use(s) will maximize beneficial use(s) and how they will be deemed to be in the public interest as defined by the State Water Code below.

Hawaii Revised Statutes §174C-2(c) states that: *The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.*

2. Explain how your proposed new use(s) will not interfere with any existing legal use(s).

3. Explain how your proposed new use(s) will not interfere with the rights of the Department of Hawaiian Home Lands as provided in Section 221 of the Hawaiian Homes Commission Act. See below. To inquire about potential interference, you may contact the Department of Hawaiian Home Lands Planning Office at 586-3836.

The State Water Code in §174C-101(a), HRS [Native Hawaiian water rights], states: *Provisions of this chapter shall not be construed to amend or modify rights or entitlements to water as provided for by the Hawaiian Homes Commission Act, 1920, as amended, and by chapters 167 and 168, relating to the Molokai irrigation system. Decisions of the commission on water resource management relating to the planning for, regulation, management, and conservation of water resources in the State shall, to the extent applicable and consistent with other legal requirements and authority, incorporate and protect adequate reserves of water for current and foreseeable development and use of Hawaiian home lands as set forth in section 221 of the Hawaiian Homes Commission Act.*

## ATTACHMENT 1

**EXHIBITS:** Appended hereto as **EXHIBIT 1** is a copy of the 7.5 minute-series USGS topographic map with the Waihe`e Ditch and Spreckels Ditch diversions labeled. **EXHIBIT 2** is a TMK map showing the location of our property, `auwai diversion, and area of use. **EXHIBIT 3** contains copies of photographs of our `auwai intake and area of proposed use. **EXHIBIT 4** is described below.

### ADDITIONAL INFORMATION FOR SWUPA-N BOXES:

#### 2. Source Landowner:

Not applicable pursuant to HRS § 174C-51(1)(B), because applicant does not have a terminable interest in the land which is the source of the permitted water. According to the Water Commission's records, which have not been verified, Wailuku Water Company claims to be the source landowner.

#### 4. & 5. Instream Flow Standards:

There currently are no Instream Flow Standards for Nā Wai `Ehā, and a petition to upwardly amend the Interim Instream Flow Standards is pending. There is sufficient water upstream of all diversions to accommodate my proposed use.

#### 7a. & b. Proposed Stream Diversion:

We are kuleana users along the kuleana `auwai that runs to the south of Waihe`e River. Water is diverted from Waihe`e River at the Waihe`e and Spreckels diversions (see attached USGS topo map). All the water from the Spreckels diversion enters the Spreckels Ditch, as does some water from the Waihe`e diversion. The South Waihe`e kuleana `auwai receives water via a pipe in the Spreckels Ditch. The pipe empties into an open `auwai on the south side of Waihe`e River. The water continues makai in the ditch and pipes until we divert some water via a pipe that runs to our property. The water flows in open ditches through our lo`i kalo, and any water that does not evaporate or seep into the soil flows in an open ditch and into a pond just south of the Waihe`e River. We intend to use the same system for our "new" uses.

**8. Flow Measurement Information:** See explanation for **Table 1 Box 11**, below.

#### 12. Appurtenant Rights:

Our property has appurtenant rights because it was in kalo cultivation at the time of the Māhele of 1848. In fact, almost all of the stream water we currently use is for ancient lo`i kalo that we have restored. Attached hereto as **EXHIBIT 4** are true and correct copies of Māhele records for Land Commission Award No. 4063; Royal Patent No. 3429, including testimony indicating the land was in kalo. This land has been in our family for at least 70 years, and based on our knowledge of the history of this kuleana and our family we have no evidence, indication,

or any other reason to believe that our appurtenant rights have been extinguished. This application should be granted pursuant to HRS § 174C-63.

**Table 1. Justification for Requested Quantity:**

This application is to request sufficient water for our existing lo'i kalo. No new land will be put into cultivation. We estimated the existing amount of water flowing into our lo'i kalo is 62,000 gallons per day for 0.73 acres of kalo, based on the bucket measuring method (see concurrently filed SWUPA-E). This estimated amount is not enough to produce a healthy crop of wetland kalo on the full amount of land we could cultivate. Although we try to make due with what we have, the lack of water causes problems like small corms, taro rot, and uncontrollable weeds. We request at least 300,000 gallons per acre per day for our wetland kalo, which, based on Lester Nakama's more than 45 years of experience as a kalo farmer, is necessary for a healthy crop. Accordingly, we need a total of 219,000 gallons per day (0.73 acres multiplied by 300,000 gallons per day). Because our existing use is 62,000 gallons per day, we subtracted that from the 219,000 gallons to get our estimate of 157,000 gallons per day.

**Table 3B: Alternatives Analysis**

Because our land has an appurtenant right to stream water, which is in the nature of an easement that was conveyed with the land at the time of the Māhele, we do not need to demonstrate that we have no practicable alternative source of water. Our appurtenant right is for stream water, not for water from some other source, and our exercise of this appurtenant right enjoys maximum protection and first priority under the law. Similarly, our traditional and customary right as Native Hawaiians is to cultivate kalo on our land in the traditional manner, not in some other manner using alternative, non-traditional sources, and this traditional and customary right is constitutionally protected.

Moreover, even if we did not have protected rights to stream water, there is no potentially available alternative source that is economically practicable. We have leased our land to Aloha Poi Factory since the 1970s to grow kalo in the traditional manner in the ancient lo'i on our land. Aloha Poi makes poi out of the kalo they grow to provide the local community with a nutritious and culturally significant food source. Our family also cultivates wetland kalo in some of the ancient lo'i on our land for subsistence purposes. An alternative water source that would require us or Aloha Poi to pay for the volumes of constantly flowing water in our lo'i necessary to keep temperatures cool and support healthy kalo would make our `ohana's and Aloha Poi's wetland kalo cultivation using traditional methods economically impossible. We would effectively be denied our appurtenant right and the opportunity to grow kalo on our land. As shown below, each potentially available alternative water source is impracticable and imposes a cost on exercising our protected right.

**Municipal Sources.** Our domestic water service is a typical residential service and does not have the capacity to deliver the volumes of water we require. Even if the Maui County Department of Water Supply were willing to provide municipal water for wetland kalo cultivation by installing a larger water meter, the cost of using municipal water for such

purposes would be prohibitive. Additionally, water from the Maui County Department of Water Supply is chlorinated, which is detrimental and unsuitable for wetland kalo.

**Wastewater reuse.** Reusing wastewater is impracticable because we would still be required to pay for large volumes of flowing water. Additionally, the closest wastewater treatment plant is in Kahului. As a small user engaged in wetland kalo cultivation using traditional irrigation methods, we do not have the means to hookup to and use that water.

**Ditch system.** We are currently using water from an existing `auwai, although water is not available consistently and in sufficient amounts to support the existing uses on our system, including our own uses. Getting water from a different ditch system other than the existing system that already services our land is not practicable or efficient. First, the other ditch systems in Nā Wai `Ehā do not consistently have enough water to support additional users. Second, we lack the property, access, permissions and funding necessary to permit and construct an additional ditch diversion and irrigation system. As a small user engaged in wetland kalo cultivation, the cost of taking water from or constructing another ditch is not practicable.

**Desalinization.** Desalinization of brackish water is not a practicable alternative because we are not aware of any such plant having been built on Maui. According to the County's estimates, a plant is expected to be built in 2013 at the earliest.

**Ground Water.** Even if we were able to secure the permits necessary to drill a well and pump ground water for our uses, installing and operating such a well to provide flowing water for kalo cultivation would be unprecedented and extremely burdensome. As a small user engaged in wetland kalo cultivation using traditional methods, we do not have the means to install and maintain such infrastructure.

### **Table 3C: Additional Requirements**

#### **1) My proposed new use(s) will maximize beneficial use(s) and are in the public interest:**

##### **Our Existing Use is Consistent with the Public Interest**

Generally, "water use for diversified agriculture on land zoned for agriculture is consistent with the public interest." In re Waiāhole Ditch Combined Contested Case, 94 Hawai'i 97, 162, 9 P.3d 409, 474 (2000) ("Waiāhole I"). Further, HRS § 174C-2(c) provides that the protection of traditional and customary Hawaiian rights, agriculture, and the maintenance of proper ecological balance and scenic beauty are "in the public interest." The water we use is for wetland kalo cultivation. We grow kalo in traditional ways and use it to make poi for sale in local stores and for our `ohana's subsistence. Our lo`i kalo help maintain ecological balance and scenic beauty and allow the perpetuation of the Native Hawaiian culture. As such, our existing use of stream water is consistent with the public interest. Additionally, the exercise of appurtenant rights is a protected public trust purpose. Waiāhole I, 94 Haw. at 137 n.34, 9 P.3d at 449 n.34.

**Our Proposed Use is a “Reasonable-Beneficial Use”**

“Reasonable-beneficial use” is defined as “the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is both reasonable and consistent with the state and county land use plans and public interest.” HRS § 174C-3. As indicated, our proposed use of stream water is consistent with state and county land use plans and the public interest. It will also be “economic and efficient” because we will only use the amount we need. We will take steps to make our water use efficient. For instance, we will use pipes to minimize water loss. Therefore, the water we have requested is for a “reasonable-beneficial use.”

**2) Our proposed use(s) will not interfere with any existing legal use:**

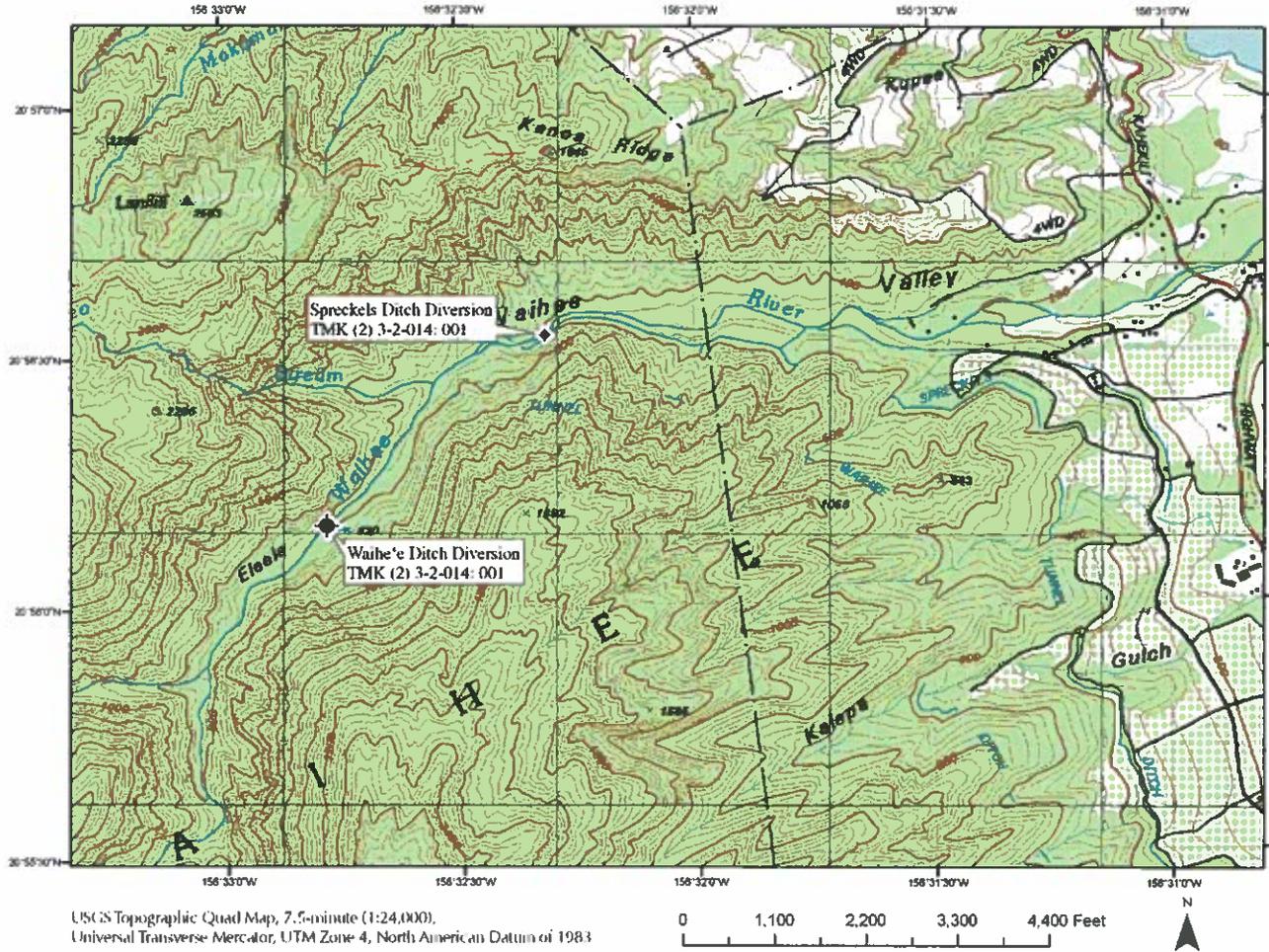
Our proposed use will not interfere with existing legal uses. The exercise of our appurtenant right has first priority by law. We believe the flow of Waihe`e River is able to accommodate our new use, particularly given that this use is a legally protected public trust purpose.

**3) Our proposed use(s) will not interfere with the rights of the Department of Hawaiian Home Lands**

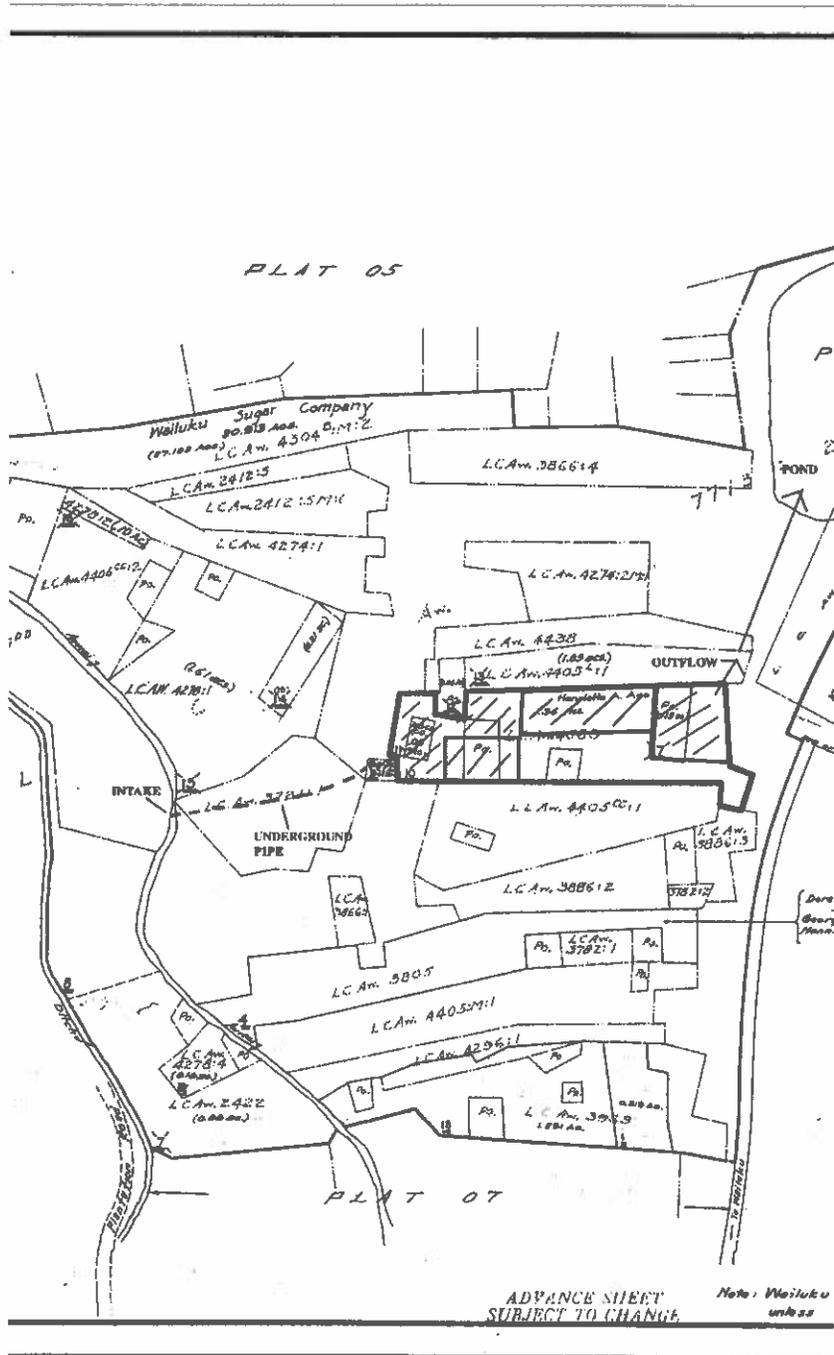
We are not aware of any DHHL lands using water from Waihe`e River. To the best of our knowledge, DHHL has not filed an application to use water from this source. While we are aware that DHHL has outstanding reservations for municipal water meters in Central Maui, our use will not interfere with those reservations, which are largely served by ground water sources.

# EXHIBIT 1

Topographic map of the Waihe'e ahupua'a in central Maui, Hawai'i (Source: U.S. Geological Survey, 1996).



**EXHIBIT 2:** TMK map depicting the 'auwai intake and outflow locations. The area of existing lo'i kalo cultivated by Aloha Poi and Gordon Apo's 'ohana is marked with hatch marks.



### EXHIBIT 3A



**Above is a photograph of our intake pipe.**



**Above is a photograph of a portion of our lo'i kalo.**

Gordon Apo (landowner)  
Lester Nakama (lessee)  
TMK 3-2-006:010, :011  
SWUPA-N  
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### EXHIBIT 3B



Photographs of our lo'i kalo



Gordon Apo (landowner)  
Lester Nakama (lessee)  
TMK 3-2-006:010, :011  
SWUPA-N  
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### EXHIBIT 3C



**Photographs of our lo'i kalo**



Gordon Apo (landowner)  
Lester Nakama (lessee)  
TMK 3-2-006:010, :011  
SWUPA-N  
Page 10 of 19

### EXHIBIT 3D



**Photographs of Aloha Poi's lo'i kalo and portion of currently fallow lo'i kalo.**











Gordon Apo (landowner)  
Lester Nakama (lessee)  
TMK 3-2-006:010, :011  
SWUPA-N  
Page 15 of 19

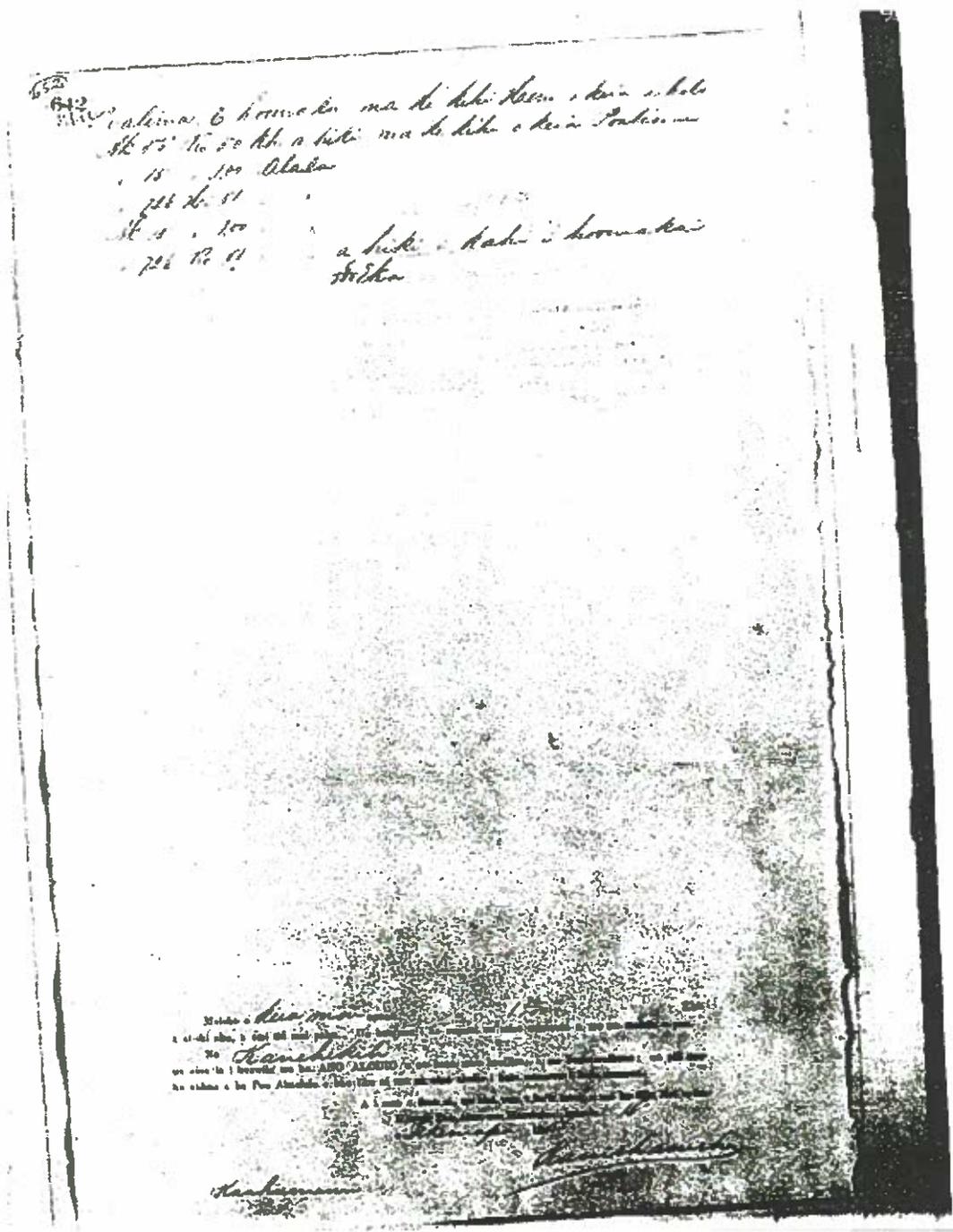


EXHIBIT 4

No. 4009 - Hokii                      Waihee, Dec. 29, 1847                      Page 144  
'Ili of Waupupua, 59 lo'i which I received from Kahune, /and/ 2 kula.  
'Ili of Honuakaua, 1 lo'i, /at/ Kainanui 'Ili, 6, /at/ Wailua, 1.  
I received them from Kauhonu.

HOKII

No. 4010 - Hinaiaele                      Waihee, Dec. 30, 1847

A claim for my lo'is in Hono. There are 25 lo'i which were from  
Kuepuu's, and one kula. Here are these 13 lo'i and three stream  
branches /at/ Faukailla, which I received from Koolualua.  
Farewell to you all.

HINAIAELE

No. 4049 - Kaniolo                      January 14, 1848

Greetings to the Land Commissioners: I hereby state my claim for  
land at Waiehu. They are in Ohia at the 'Ili of Polea. I have 25  
lo'i there also a small kula.

KANILOLO

No. 4050 - Kaleo                      January 14, 1848                      Page 145

Greetings to the Land Commissioners: Here is my claim for land  
at Kula and at Waiehu which I cultivated with my own hands: 1 mala  
of sugar cane, 1 mala of bananas, 1 mala of potatoes, 1 mala of taro,  
and 4 mala of potatoes.

At UKiki in the 'Ili of Kahua, I have 4 lo'i. At Alalahaka I  
have 4 lo'i. At Waihonui I have 1 mala of potatoes. It is finished.  
Kamouli in Kula

KALEO

No. 4063 - Kanehekili                      Waihee, Dec. 30, 1847

A claim for my 28 lo'is in Hono, and one house. I received them  
from Makaale.

KANEHEKILI

No. 4064 - Kanoaa /saw/                      Waiaoo, Dec. 29, 1848

'Ili of Waipukua, 60 lo'i which I received from Kuakamauna.  
Waipukua II, 2 lo'i which I received from Kaa. 9 kula are upland.

KANOAA

No. 4065 - Kahiki                      Honolulu, Jan. 19, 1848

Greetings to the Land Commissioners: I hereby petition for my claim  
for a kou tree, a hala tree, and four potato mo'o in Honolulu.

KAHIKI

EXHIBIT 4

22

Q. 355. Pāhala.

The tenant appeared and said that she possessed the land in title to the land named as she found it in 1923 she thought otherwise since she visited her home.

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Q. 356. Pāhala.

The land consist of one piece of land it is a large piece in the city of Waikeolu, Waikā, Maui.  
 The tenant received it from her in 1922. Her title has never been disputed. There are 5 1/2 acres in it.  
 It is bounded on the north by the portion land of Mrs. Pāhala, by Mrs. Pāhala's land, Waikā, by the Govt. Lot. Waikā, by Pāhala's land.

---

Q. 357. Pāhala.

The land consist of two pieces in the city of Waikeolu, Waikā, Maui.  
 It is a section of land and hole.  
 2. 1/2 acres and hole.  
 She received them from her in 1922. Her title has never been disputed. There are 3 1/2 acres in it.  
 It is bounded on the north by Pāhala's land, Waikā, by Pāhala's land, Waikā, by Pāhala's land, Waikā, by the Govt. Lot. Waikā, by Pāhala's land.  
 It is bounded on the south by the Govt. Lot. Waikā, by Pāhala's land.

---

Q. 358. Pāhala.

The land consist of two pieces in the city of Waikeolu, Waikā, Maui.  
 It is a section of land

EXHIBIT 4

No. 2412 Kanihi (cont.)

Section 1 - 4 Taro patches at Ihuekolos  
 Mauka and Kahakuloa Stream  
 Makai Paibi  
 Wailuku Stream

Section 4 - 5 Taro patches at Waipae 2  
 Mauka Kaulapo  
 Kahakuloa Land enclosure  
 Makai Kaikinohopono  
 Wailuku Kaulapo

Section 5 - Taro moa at Paulolo  
 Mauka Peahro patch  
 Kahakuloa Mookahi ili  
 Makai Kananu  
 Wailuku Kahanzul

First section from Luhia  
Section 2 from E. Kananui  
Section 3 from Anadara in 1843  
Section 4 from Kawehaloa  
Section 5 from Kapawa in 1843

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Kanihi's illness incapacitated him from Poalina work.

No. 2654 Kahalewai Wailuku, July 25, 1849

Z. Kananui sworn He has seen 1 section in Punua 1 ili at Waihee, 4 taro moos are there. Land from Kuaihi in 1839, no objection. Kahalewai died in 1848, his wife Kanihi is his heir.

Mauka	Land enclosure
Kahakuloa	Mn. Kotohi
Makai	Prisoners' patch
Wailuku	Kuaihi

No. 8366 Kapua July 25, 1849

Kanihi sworn He has seen 2 sections at Makaka ili in Waihee. Land from Waihee-Wg. 250 lua long ago at the time of Eem II, two poalinas in section 2, no objection.

Section 1 - Taro paiku and pasture  
 Mauka Land enclosure  
 Kahakuloa Kamahaku  
 Makai Puuone  
 Wailuku Pales

Section 2 - Taro paiku and pasture  
 Mauka, Kahakuloa and makai Pales  
 Wailuku Kalua

No. 9256 Kawaha July 25, 1849

Kawaha has no claim in this grant 9256.

No. 4063 Kamehekili July 25, 1849

Makale sworn He has seen 1 taro section in ili of Waikamaona in Waihee. Land from Kaha in 1832, no objection. 0 Poalinas in Kamehekili's moa.

Mauka	Maen's poalina
Kahakuloa	Kawehikili
Makai	Land enclosure
Wailuku	Stone wall

EXHIBIT 4

No. 3721 Makaele July 25, 1849

Kuanea sworn He has seen 2 sections in Waiakonaona ili in Waihee. Land from Naon in 1832, no objection, 3 poalimas in section 1.

Section 1 - Taro paiku and pasture

Mauka	Puhi
Kahakuloa	Kuahewa
Makai	Stone wall
Wailuku	Puhanolu ili

Section 2 - 8 Taro patches and pasture

Mauka	Paulani ili
Kahakuloa, makai, Wailuku	Puhi

No. 10550 Maiuelua July 25, 1849 Page 261

Kesupuni sworn He has seen 2 sections in Waipukua ili in Waihee. Land from Eleeleioho at the time of Kaahimani I, no objection. 4 Poalimas in section 1

Section 1 - Taro paiku

Mauka	Stream
Kahakuloa	Kasukolehonua
Makai	Stream
Wailuku	Kapo

Section 2 - Mauka pasture

Mauka	Kesupuni
Kahakuloa	Pali
Makai	Pu
Wailuku	Pali

No. 4389 Kahookola July 25, 1849

Maone sworn He has seen 2 sections at waielohu and Kapoho in Waihee. Land from father at the time of Kani II, no objection. 4 Poalimas in the first section.

Section 1 - Taro paiku at Waielohu

Mauka	Land enclosure
Kahakuloa	Maaapu
Makai	Mahaloa
Wailuku	Kane

Section 2 - 1 Taro patch at Kapoho

Mauka	Zane
Kahakuloa, makai	2. Kaaupai's land/Konohiki
Wailuku	Paiaa

No. 4389 B Kaaupai July 25, 1849

The same as the above grant fro Kahookola. Keahi sworn He has seen 2 sections in the ili of Waipukua in Waihee. \*Land from Eleeleioho at the time of Kaaku- Pg. 262 manu I, no objection, 5 poalimas there.

Section 1 - 4 Taro moo's

Mauka	Stream ditch
Kahakuloa	Puhanolu ili
Makai	Poalima
Wailuku	Hoki

Section 2 - 1 Taro patch

Mauka	Stream ditch
Kahakuloa	Poalima
Makai	Kaiuelua/Poalima
Wailuku	Kapo