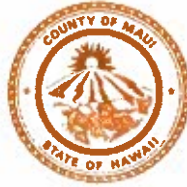


**RICHARD T. BISSEN, JR.**  
Mayor

**KEKUHAUPIO R. AKANA**  
Managing Director

**JOHN STUFFLEBEAN, P.E.**  
Director

**JAMES A. LANDGRAF**  
Deputy Director



**DEPARTMENT OF WATER SUPPLY**  
COUNTY OF MAUI  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793  
<http://www.mauicounty.gov/water>

VIA EMAIL  
[dlmr.cwrn@hawaii.gov](mailto:dlmr.cwrn@hawaii.gov)

Dawn N. S. Chang, Chair  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
1151 Punchbowl Street, Board Room 132  
Honolulu, Hawaii 96809

**SUBJECT: Well Field Groundwater Use Permit Application (GWUPA) for Waipuka 1 559 (Well #6-5339-001) Located On Tax Map Key Parcel (2) 4-6-018:016 and Waipuka 2 560 (Well #6-5339-002) Located On Tax Map Key Parcel (2) 4-6-018:019 in the Launiupoko Aquifer System in Kanaha Valley, Lahaina, Hawaii**

Dear Chair Chang,

The County of Maui Department of Water Supply (MDWS) hereby submits a well field GWUPA for the above-stated wells located in the Launiupoko Aquifer System. Our existing use application includes the GWUPA Form with appendices and supporting documents. Pertinent information mentioned in our GWUPA Form includes the following supplemental information:

**6. Total Quantity of Use Requested**

The Kanaha wells 1 & 2, the Waipuka wells 1 & 2 and the Lahaina Water Treatment Facility (LWTF) all service the Lahaina sub-system. MDWS operates the Waipuka well field to meet system demand while maintaining the integrity, water quality and chloride levels of each individual well. The two Waipuka well pumps also provide redundancy to each other. Therefore, individual throttling at this well field is essential to balance pumping, maintain acceptable and stable chloride levels, and to maintain reliable water supply. The amount requested is the combined

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12-month average pumpage for the two wells as of the date of designation. Moreover, our requested amount of 398,806 gpd from the Waipuka well field to meet consumer demand, since the West Maui designation, should maintain acceptable and stable chloride levels at both wells. The volume pumped is higher than the billed consumption as summarized under Item 11. Table 1, box M, to account for water treatment, including distribution system water losses mentioned in the MDWS water audit validated by the Commission on Water Resources Management (CWRM). It should also be pointed out that the water audit only considers treated water, is not exactly within the same time period as the designation time period, unavailable data at the time of data collection, and does not reflect post metering and billing adjustments that occurs after validation.

#### 11. Table 1 Land Use Consistency/Efficiency of Use

Please refer to Appendix B. Table 1 includes the system areas that are supplied by this source under normal operations, as of the date of designation. The MDWS applies for water use under the category MUNICIPAL. However, we identify premise types that compare to the Purpose/Water Use Categories in the GWUPA Form instructions. Please see the table below illustrating MDWS Lahaina service area (Water Use Zone), premise type and total average consumption, which includes water contributions from LWTF.

<b>Premise Type</b>	<b>Average Consumption (GPD)</b>
County Government	53,992
Commercial	321,563
County Park	32,069
High Rise Multifamily	36,598
Hotel	8,955
Hydrant Temporary	619
Industrial	226,103
Low Rise Multifamily	445,889
Church	23,924
Single Family	999,308
State Government	130,158
State School	7,203
Unknown	32,178
<b>TOTAL:</b>	<b>2,318,559</b>

Table 1 in Appendix B notes the Premise Type in Field "A" Purpose/Water Use Category. None of the services are located in the Conservation District but possibly within the Special Management Area (SMA). MDWS

**APPENDICES**

**A: Item 8. Map showing location of water use**

**B: Item 11. Table 1**

**C: Item 15. Ka Pa`akai Analysis**

**D: Item 16. Referenced Department of Hawaiian Homelands Plans and Documents**

**E. Item 18. Maui County Department of Water Supply Conservation Plan**

**F. Level-1 AWWA water loss audit**

**G. Item 21. Table 4 12-Month Average Calculation as of the Date of Designation for Well Field and Average Daily Pumpage for Each Pump of Well Field**

**H. Property Tax Map with location of use and photograph of the area of use**

**I: Photo of well sources, flow meters and end use area**

**J: Historical Title documents and MDWS/DLNR Indemnification Letters for Waipuka 1 and 2 Wells**

does not verify whether individual end uses require a SMA permit in order to issue a water meter. CDUP and SMA fields are noted as N/A.

Over 85% of MDWS services on this system consist of single family and multi-family customers. In terms of water use efficiency, the average billed water use per service of 495 gpd is significantly lower than the system standard allocation of 600 gpd per unit.

The MDWS conservation program includes demand side and supply side measures for Maui and Molokai. Please refer to Appendix E. Insufficient supply forced MDWS to declare a Stage 1 water shortage for the entire system on June 30, 2022, restricting water for essential use only. Immediately following the CWRM adoption of the instream flow standards (IIFS) for Kanaha Stream on November 20, 2018, MDWS requested design funding for development of additional groundwater sources in the Launiupoko and Honolua Aquifers. Groundwater use permit applications for new use will be sought for two new well fields in the Launiupoko Aquifer System, pending completion of the draft Environmental Assessment (EA).

20. Chapter 343

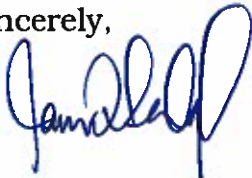
Chapter 343, the statute requiring an EA or Environmental Impact Statements (EIS) was passed in 1974. Waipuka Well 1 was drilled in 1962 and Waipuka Well 2 in 1963, therefore no EA or EIS was required.

21. Table 4, 12 Months Average Calculation as of the Date of Designation

Table 4 on the GWUPA Form for 12 months pumpage calculation contains eight rows. Here you will find the daily pumpage at the Waipuka well field, as well as from each individual well pump in Appendix G.

We thank you for your consideration of this request.

Sincerely,



JOHN STUFFLEBEAN, P.E.

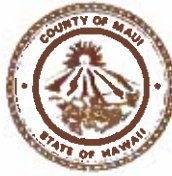
 Director of Water Supply

**RICHARD T. BISSEN, JR.**  
Mayor

**KEKUHAUPIO R. AKANA**  
Managing Director

**JOHN STUFFLEBEAN, P.E.**  
Director

**JAMES A. LANDGRAF**  
Deputy Director



**DEPARTMENT OF WATER SUPPLY**  
COUNTY OF MAUI  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793  
<http://www.mauicounty.gov/water>

July 31, 2023

Mr. Russell Tsuji  
Administrator  
The State of Hawaii  
Department of Land and Natural Resources (DLNR)  
1151 Punchbowl Street, Room 220  
Honolulu, HI 96813  
Phone: (808) 587-0419  
Email: [dlnr.land@hawaii.gov](mailto:dlnr.land@hawaii.gov)

Dear Mr. Tsuji:

**Subject: Groundwater Use Permit Application for Waipuka 1 559 Well (Well #6-5339-001) and Waipuka 2 560 Well (Well #6-5339-002) in the Launiupoko Aquifer System in Kanaha Valley, Lahaina, Hawaii**

On June 14, 2022, the State of Hawaii Department of Land and Natural Resources Commission on Water Resource Management (CWRM), designated the Lahaina Aquifer Sector Area as a Water Management Area. The County of Maui Department of Water Supply (DWS) is now required to submit a groundwater use permit application (GWUPA) for existing uses of the Waipuka 1 559 Well located on tax map key parcel 4-6-018:016 and the Waipuka 2 560 Well located on tax map key parcel 4-6-018:019 in the Launiupoko Aquifer. As the landowner under which these wells are located, DWS requests your cooperation to submit a well field GWUPA in order for DWS to continue to maintain and procure water from them at such quantities and qualities as are necessary to serve the needs of the Lahaina community.

To help DWS maintain adequate potable water services to the citizens of Lahaina, please sign below to acknowledge that the DWS is submitting a well field GWUPA for the Waipuka 1 559 Well and the Waipuka 2 560 Well located on your property. To the extent permitted by law and subject to the approval of the Maui County Council, the DWS agrees that you shall be held harmless and

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Tsuji, R. DLNR

Page 2

released of liability, or cost, from any issues that may arise from this GWUPA to the CWRM. Submittal of this GWUPA will not alter your rights as the property owner, regarding DWS continued operation and maintenance of these wells.

Thank you for your consideration and cooperation in this matter. We respectfully request that you return the signed acknowledgement to DWS via mail or email by July 17, 2023. Should you have any questions, please contact Robert DeRobles at (808) 463-3110 or [robert.derobles@mauicounty.gov](mailto:robert.derobles@mauicounty.gov).

Sincerely,

John Stufflebean, Digitally signed by John  
Stufflebean, P.E.  
Date: 2023.08.01  
12:28:22 -10'00'  
P.E.

John Stufflebean, Director

Acknowledged and Approved   

*Russell Tsuji*

\_\_\_\_\_  
Russell Tsuji, Administrator  
for the State of Hawaii DLNR  
Landowner of Tax Map Key Parcel 4-6-018:016  
and 4-6-018:019

\_\_\_\_\_  
Aug 1, 2023

Date

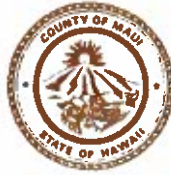
*"By Water All Things Find Life"*

**RICHARD T. BISSEN, JR.**  
Mayor

**KEKUHAUPIO R. AKANA**  
Managing Director

**JOHN STUFFLEBEAN, P.E.**  
Director

**JAMES A. LANDGRAF**  
Deputy Director



**DEPARTMENT OF WATER SUPPLY**  
**COUNTY OF MAUI**  
200 SOUTH HIGH STREET  
WAILUKU, MAUI, HAWAII 96793  
<http://www.mauicounty.gov/water>

July 12, 2023

Dawn N. S. Chang, Chairperson  
Department of Land and Natural Resources  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Chairperson Chang:

Re: **County of Maui, Department of Water Supply**  
**Application for Groundwater Use Permit Application for Waipuka 1 559**  
**Well (Well #6-5339-001) Located On Tax Map Key Parcel (2) 4-6-018:016**  
**and Waipuka 2 560 Well (Well #6-5339-002) Located On Tax Map Key**  
**Parcel (2) 4-6-018:019 in the Launiupoko Aquifer System in Kanaha Valley,**  
**Lahaina, Hawaii**

The enclosed application requires the State of Hawaii ("State") to sign off as the Recorded Fee Owner. Please sign in the appropriate space in the application.

We acknowledge that the County of Maui, Department of Water Supply is the sole applicant under the application and that the State is signing the application solely in its capacity as the fee owner. We agree to assume and be responsible and liable for all of the duties and obligations of the landowner, if any, under the application and shall be responsible for all costs, expenses and damages (including attorney fees and costs) incurred by the State resulting from any and all claims, injuries or damages arising out of those duties and obligations, to the extent that liability for such claims, injuries or damages has been established by a court of competent jurisdiction. The County of Maui, Department of Water Supply, shall pay for such costs, expenses and damages to the extent that funds have been authorized and appropriated by the Maui County Council for such purpose. We understand and agree that by signing the application, the State does not waive or release any of its rights and privileges and expressly reserves all such rights and privileges as landowner.

Sincerely,

John Stufflebean, P.E.  
Digitally signed by John  
Stufflebean, P.E.  
Date: 2023.07.21  
08:16:36 -1000'

John Stufflebean, P.E., Director  
County of Maui, Department of Water Supply

Enclosure

*"By Water All Things Find Life"*





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

APPLICATION FOR GROUND WATER USE PERMIT

FORM GWUPA

- ☐ New Use  
☐ Modification of WUP No. \_\_\_\_\_  
☒ Existing Use

For Official Use Only:

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

APPLICANT INFORMATION										
1. APPLICANT INFORMATION					2. SOURCE LANDOWNER INFORMATION					
Name/Company		County of Maui, Department of Water Supply (DWS)		Contact Person	Eva Blumenstein DWS Water Resources and Planning, Planning Program Manager		Name/Company		State of Hawaii, Department of Land and Natural Resources	
Mailing Address		2200 Main Street, Suite 102 Wailuku, HI 96753			Mailing Address		1151 Punchbowl St., Room 220 Honolulu, HI 96813			
Phone	808-463-3102	Fax	808-463-3112	E-mail	eva.blumenstein@mauicounty.gov		Phone	808-587-0419	Fax	808-312-6357
						E-mail	dlnr.land@hawaii.gov			
SOURCE INFORMATION										
3. ISLAND <b>Maui</b>										
4. AQUIFER SYSTEM AREA <b>Lahaina</b>					4A. SUSTAINABLE YIELD FOR ITEM 4 <b>7 MGD</b>					
5. SOURCE INFORMATION Attach additional sheets, if necessary.										
Well Number (if known)	Well Name	Existing or Proposed?	TMK				Flowmeter installed?			
5339-01	Waipuka 1	Existing	4 - 6 - 018	zone	sector	plat	018	parcel	<input checked="" type="checkbox"/> Yes, date installed ____ / ____ / 2005	
5339-02	Waipuka 2	Existing	4 - 6 - 018	zone	sector	plat	019	parcel	<input checked="" type="checkbox"/> Yes, date installed ____ / ____ / 2005	
			zone	sector	plat			parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	
			zone	sector	plat			parcel	<input type="checkbox"/> No	
			zone	sector	plat			parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	
			zone	sector	plat			parcel	<input type="checkbox"/> No	
			zone	sector	plat			parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	
			zone	sector	plat			parcel	<input type="checkbox"/> No	
			zone	sector	plat			parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	
			zone	sector	plat			parcel	<input type="checkbox"/> No	
USE INFORMATION										
6. TOTAL QUANTITY OF WATER REQUESTED: In the space below, enter total from Box M in Item 11 (Table 1) of this application. gallons per day, averaged over 1 year <b>398,806</b>										
7. USE: <input type="checkbox"/> Agriculture <input type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Check all that apply <input type="checkbox"/> Irrigation <input type="checkbox"/> Military <input checked="" type="checkbox"/> Municipal										
8. LOCATION OF WATER USE: Show the location of the use on a map, attached as a .pdf to this application. See Item 11 (Table 1, column B) of this application.										
<b>Note 2:</b> 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. Further, the signatories understand that: (1) if necessary, further information may be required before the application is considered complete; (2) if a water use permit is granted by the Commission, this permit is subject to any existing legal uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands' future uses; and (3) the applicant is responsible for paying the public notice fees associated with this application. Additionally, as stated in Note 1, above, HRS § 174C-51(1) the landowner shall be the joint applicant in the event the applicant is a lessee, licensee, developer or any person with a terminable interest or estate in the land that is the water source of the permitted water.										
9. APPLICANT					10. SOURCE LANDOWNER/JOINT APPLICANT (if applicable)					
Signature 					Signature					
Print Name <b>James A. Langley</b>					Print Name					
Date <b>8/4/2005</b>					Date					

# USE INFORMATION

11. TABLE 1: LAND USE CONSISTENCY (Attach additional copies, if necessary.)

LAND USE CONSISTENCY				EFFICIENCY OF USE					
A	B	C	D	E	F	G	H	I	J
PURPOSE / WATER USE CATEGORY (See the Instructions for water use category descriptions.)	TRK FOR LOCATION OF USE ATTACH THE FOLLOWING: • Property tax map, showing location of use referenced to established property boundaries. • Photograph of the area of use.	STATE LAND USE DISTRICT	CDLP REQUIRED? Check the appropriate box, and write in the date approved, if applicable.	COUNTY ZONING CODE	SMAP REQUIRED? Check the appropriate box, and write in the date approved, if applicable.	UNITS OR NET ACREAGE	OPD/UNIT or GPD/ACRE	QUANTITY OF USE (GPD)	JUSTIFICATION FOR QUANTITY OF WATER REQUESTED (If applicable, attach additional sheets showing how the quantity was calculated.) For irrigation uses, fill in Table 2.
USES THAT REQUIRE POTABLE (DRINKING) WATER									
MUNCO	4 6 018 016 <small>zone sector plot parcel</small>	A	<input type="checkbox"/> Yes, date approved <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No	500	<input type="checkbox"/> Yes, date approved <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No	9,283 7971	21.294	197,690	Over 85% of MDWS services on this system consist of single family and multi-family <input checked="" type="checkbox"/>
MUNCO	4 6 018 019 <small>zone sector plot parcel</small>	A	<input type="checkbox"/> Yes, date approved <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No	500	<input type="checkbox"/> Yes, date approved <input type="checkbox"/> Yes, not acquired <input type="checkbox"/> No	9,283 7971	21.663	201,116	Over 85% of MDWS services on this system consist of single family and multi-family <input checked="" type="checkbox"/>
	<small>zone sector plot parcel</small>		<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				See Appendix B
	<small>zone sector plot parcel</small>		<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				
TOTAL POTABLE USE								K 398,806	GPD
USES THAT DO NOT REQUIRE POTABLE WATER									
	<small>zone sector plot parcel</small>		<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				
	<small>zone sector plot parcel</small>		<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				
	<small>zone sector plot parcel</small>		<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				
	<small>zone sector plot parcel</small>		<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				
TOTAL NON-POTABLE USE								L	GPD
TOTAL QUANTITY OF WATER REQUESTED (sum of total potable use and total non-potable use) =								M	GPD

Please explain if there are any limitations (e.g., legal, contractual) on the proposed water use(s) described in Table 1. Ref: HRS § 174C-51(5)

# USE INFORMATION (continued)

## 12. TABLE 2: AGRICULTURE/IRRIGATION INFORMATION

List all crops that will be grown, including landscape and golf course irrigation uses. Copy Table 2 and attach additional sheets to complete your list, if necessary.

A TICK FOR LOCATION OF USE ATTACH THE FOLLOWING: • Property list map with an outline around the area of each irrigation use listed in this table. • Photograph of the area of each use.				B CROP	C TOTAL ACREAGE	D NET IRRIGATED ACREAGE	E BEGIN GROWTH PERIOD (month)	F END GROWTH PERIOD (month)	G IRRIGATION SYSTEM (refer to instructions)	H IRRIGATION PRACTICE (refer to instructions)	I COMMENTS (Continue comments below, if more space is needed.)
4	6	015	001	N/A	5	unknown	N/A	N/A	unknown	unknown	
4	6	015	002	N/A	5	unknown	N/A	N/A	unknown	unknown	
4	5	010	007	N/A	.4564	unknown	N/A	N/A	unknown	unknown	
4	5	011	009	N/A	2.957	unknown	N/A	N/A	unknown	unknown	
4	5	007	034	N/A	.655	unknown	N/A	N/A	unknown	unknown	
zone	sector	plot	parcel						unknown	unknown	
zone	sector	plot	parcel						unknown	unknown	
zone	sector	plot	parcel						unknown	unknown	
zone	sector	plot	parcel						unknown	unknown	
zone	sector	plot	parcel						unknown	unknown	(The "G" and "H" rows autofill "unknown" and can't be deleted)

Comments (continued from Column I). Please clearly indicate the crop (i.e., the row in table) these comments relate to.

## OTHER PERTINENT INFORMATION

13. TABLE 3: ALTERNATIVES ANALYSIS

	A. Analysis of potable alternatives Attach additional sheets if necessary.	B. Analysis of non-potable alternatives Attach additional sheets if necessary.
Municipal sources	The Department of Water Supply (DWS) is seeking to renew its Waipuka 1 well water use permit for the Lāunāpoko aquifer system area. DWS is cognizant of the Lāunāpoko system capacity and its sustainable yield and only seeks to obtain sufficient water to meet safe operational requirements which meets public consumption demand. In fiscal year 2022, DWS pumped approximately 90 MGW from Waipuka 1 well.	There have been preliminary discussions about the feasibility of direct potable reuse, in which DWS would treat non-potable recycled water for direct distribution on its existing water supply system. DWS treatment is also located on the northern portion of the DWS water distribution system (Māhānui) so additional booster capacity will be necessary to deliver water from the Māhānui and Māhānui Aquifer Systems south to the Lahaina water distribution system, located in the south. However, the site is still many years away. If an infrastructure migration plan can be drafted, cooperation from the Department of Environmental Management (DEM), various land professional, and into studies, an extensive environmental impact assessment (EIA) and the availability of sustainable funding.
Wastewater reuse	The DWS is in the process of upgrading the Lahaina Water Treatment Facility (LWTF) to be able to send wastewater and other process, unfinished water back to the its headworks for reuse purposes. LWTF currently has two parallel lines that take in approximately 30,000 to 50,000 GPD, which can be reused when the upgrade is made to save an additional 14 GPD to 15 GPD. The DWS is also currently exploring the feasibility of direct potable reuse in cooperation with the County of Maui Department of Environmental Management (DEM). DWS and DEM operate independently. DWS does not currently treat municipal wastewater to potable standards, although DEM does through its Lahaina Water Reclamation Facility (LWRF). Conceptual ideas are being shared between the departments to determine if an interconnection between the DWS Māhānui Water Treatment Facility (MWF) and the LWRF can produce.	The DWS recently installed the State of Hawaii's first mechanical graywater system at the Lāunāpoko Beach Park in Lahaina, located in the Lāunāpoko Aquifer System. It is capable of treating approximately 1 million gallons of used shower water per year from one (1) shower. As R-1 separate use permit application was also submitted to the State of Hawaii Department of Health (DOH). Once approved, treated, non-potable, storm-surface water by residents will apply reuse water for landscaping, which has never been attempted via decentralized water treatment facility before. When considered in the DWS FY2023 Water Audit (attached), DWS may be able to recapture and offset 19%-25% of real losses by reusing water at Lāunāpoko Beach Park. The same company the DWS has been working with has now spun off a water reuse company with the Department of Agriculture to build a water reuse system for the AG sector on Maui to which crops on-site will be treated reusable water. The mechanical system used is a spin-off to the system DWS developed and permitted with the County and DOH for the Lāunāpoko Beach.
Ditch system	The Waipuka 1 Well is not connected to ditch water source(s), and does not currently have infrastructure options to import potable alternatives from DWS distribution lines or any other private purveyor.	
Desalinization	The DWS is currently hiring a consultant in fiscal year 2023 to deliver a updated desalinization feasibility study.	Two options exist for desalinization – seawater desalination or brackish water, low-salt reverse osmosis (RO) desalination. Although both options are available in the future it is a solution to meet its extensive energy needs are met, initial options with environmental impact assessments (EIA), and without a thorough United States Geological Survey (USGS) hydrological report analysis of how pumping water from brackish wells may permanently alter the aquifer, the cost for brackish water is cheaper. DWS currently does not have the option to desalinate.
Surface water	The new State of Hawaii Instream Flow Standards (IFS) are in place.	The DWS diverts water directly from the Kanaha Stream through a DWS intake. For the past 5 years (2018-2023), DWS diverted an average of 1.66 MGW of raw water runoff for treatment and safe operational purposes to supplement services to the southern portion of the Lahaina potable water distribution sub-system (LWDS), which is also supplemented by Kanaha 1 Well, Kanaha 2 Well and Waipuka 2 Well that draw from the Lāunāpoko Aquifer System.
Other	The DWS maintains an active leak detection program, but is making future decisions to help support the field operations division make repairs when maintenance and construction crews are not available to make immediate repairs, unless it poses significant water loss, safety risk or a significant service disruption.	The DWS continues to conduct public outreach events to educate about water conservation, and to provide free high efficiency fixtures, toilets and rain barrels to qualifying customers through various conservation programs, including cooperative efforts with other County of Maui (County) Departments to replace aging and inefficient toilets at County facilities, buildings and schools. In addition, DWS has an annual water conservation poster contest that 600 to 1000 school kids from grade school to middle school regularly participate in.

## 14. PUBLIC INTEREST

§174C-2(C), HRS states: *The state water code shall be liberally interpreted to [a] 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, [b] adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and preservation 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.*

Explain how the use in your application is consistent with items [a] and [b] above.

Waipuka 1 Well and Waipuka 2 Well belongs to a network of four (4) wells in the same area that treats water on-site at storage tanks, bypasses the DWS Lahaina Water Treatment Facility (LWTF), to feed water directly into the southern DWS Lahaina water distribution sub-system (LWDS). Potable water production at all wells and facilities must be collectively balanced and orchestrated to meet use demand in LWDS, and in order to meet safe operational parameters at LWTF. As such, the amount of water pumped at Waipuka 1 Well and Waipuka 2 Well is directly

## 15. KA PA'AKAI ANALYSIS:

a. Please provide the identity and scope of cultural, historical, and natural resources in which traditional and customary Native Hawaiian rights are exercised in this area.

b. Identify the extent to which those resources, including traditional and customary Native Hawaiian rights, will be affected or impaired by the proposed action.

c. What feasible action, if any, could be taken to reasonably protect Native Hawaiian rights?

## OTHER PERTINENT INFORMATION

### 16. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

Explain how the use of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act.

The DWS conferred with the Department of Hawaiian Homelands (DHHL) about this WUPA by providing the location of the subject well, requesting consultation regarding this permit with

### 17. INTERFERENCE WITH ANY EXISTING LEGAL USES

Explain how the use of water will not interfere with any other existing legal use(s) of water.

DWS has maintained its efforts to avoid interfering with any other existing legal uses of water, and will obtain both groundwater water use permits and surface water use permits, and follow

### 18. EFFICIENCY

☒ If a water conservation plan was prepared, please attach to this application.

☐ If no water conservation plan was prepared, please explain how your use of water will be as efficient as possible.

The DWS is currently in contract with a consultant to improve and make recommendations to our current DWS water conservation approach, which currently includes a number of supply-side and

### 19. PUBLIC WATER SYSTEM INFORMATION

Check the appropriate box or boxes.

☐ PUC-Regulated Private System / ☐ Non-PUC-Regulated Private System / ☐ Not a Public Water System

☐ Intended dedication to Honolulu Board of Water Supply or to County of Maui, Department of Water Supply.

☒ If a Level-1 validated AWWA water loss audit was completed, please attach.

### 20. CHAPTER 343

This project proposes:

☒ Use of state or county lands, or use of state or county funds

☐ Use within a state conservation district

☐ Use within a shoreline setback area

☐ Use within a national or Hawaii registered historic site

☐ Use within the Waikiki Special District

☐ The construction, expansion or modification of helicopter facility

☐ A wastewater treatment unit

☐ Waste-to-energy facility

☐ Landfill

☐ Oil refinery

☐ Power-generating facility

☐ None of the above 11 items

☐ If none of the above 11 items are applicable, no 343 compliance is necessary

☐ An Environmental Assessment was completed, and

☐ An Environmental Impact Statement was required and has been accepted (attach letter of acceptance). Publication date in The Environmental Notice:

☐ A Finding of No Significant Impact has been determined (attach letter). Publication date in The Environmental Notice:

### 21. TABLE 4: 12-MONTH AVERAGE CALCULATION AS OF THE DATE OF DESIGNATION. FOR EXISTING USES ONLY.

MM/YY	AVERAGE DAILY PUMPAGE FOR THE MONTH (GALLONS PER DAY)	Check one per row			
		Metered	Estimated	Active but unknown	Inactive
August 2021	337,803 + 332,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
September 2021	313,082 + 276,525	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
October 2021	301,377 + 212,951	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
November 2021	257,902 + 179,115	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
December 2021	115,115 + 36,098	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
January 2022	91,475 + 20,492	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
February 2022	129,277 + 177,235	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 2022	211,397 + 374,654	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## **INSTRUCTIONS FOR FILLING OUT APPLICATION FOR GROUND WATER USE PERMIT**

This application form is to be used for both existing uses in newly designated ground water management areas and proposed new uses, including modifications of existing ground water use permits.

Most questions can be addressed by visiting our website at <http://www.hawaii.gov/dlnr/cwrm> or by contacting the Ground Water Regulation Branch at 587-0225 or by e-mail at [dlnr.cwrm@hawaii.gov](mailto:dlnr.cwrm@hawaii.gov).

The current application form link is here: <https://files.hawaii.gov/dlnr/cwrm/forms/GWUPA.pdf>

### **REQUIREMENTS FOR A COMPLETE APPLICATION**

- Fill in the most recent application form. An updated fillable PDF can be found at <https://files.hawaii.gov/dlnr/cwrm/forms/GWUPA.pdf>
- We require a digital copy to be circulated for review. If you are unable to submit a digital copy, print in ink or type the information on the application form but be aware that there will be delays in processing your application.
- E-mail a PDF of the application to [dlnr.cwrm@hawaii.gov](mailto:dlnr.cwrm@hawaii.gov). A check for the non-refundable filing fee of \$25 payable to Department of Land and Natural Resources can be dropped off at 1151 Punchbowl Street, Room 227, Honolulu 96813, or mailed to P.O. Box 621, Honolulu, HI 96809. Please attach a printed copy to this filing fee check. Note that government agencies as applicants are not required to pay this filing fee.
- The applicant is responsible for paying the cost of publishing any required public notices associated with this application, and unlike the application fee, government agencies are *not* exempt from this. The cost for public notices is approximately \$1000.00. Commission staff will pay this fee up front and will provide instructions later regarding your reimbursement of this cost. Failure to reimburse the Commission will result in non-action on your water use permit application.
- Attach photos showing the well source(s), meter(s) (if applicable), and end use area(s).
- The water user and the landowner of the source location ("source landowner") must sign the application form.

## **INSTRUCTIONS FOR COMPLETING THE APPLICATION FORM**

### **PAGE 1**

#### **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.*

- APPLICANT INFORMATION** Fill in the applicant's contact information. This should be the person who will be responsible for all conditions of the water use permit. If this is for multiple sources and it doesn't fit on the table, please attach a separate sheet listing these sources.
- SOURCE LANDOWNER INFORMATION** Fill in the information for the landowner of the property where the proposed ground water source (e.g., well, modified spring, tunnel, shaft, etc.) is located. If this is for multiple sources and different landowners, please attach a separate sheet listing these landowners and their acknowledgement regarding this application.

#### **SOURCE INFORMATION**

- ISLAND** Indicate the island on which the source is located.
- AQUIFER SYSTEM AREA** The name of the aquifer system area where the source is located. <https://dlnr.hawaii.gov/cwrm/info/maps/>
- SUSTAINABLE YIELD** The sustainable yield for the aquifer system area.
- SOURCE INFORMATION**
  - WELL NUMBER** If the source already has a state-assigned well number, enter the state well number here.
  - WELL NAME** If the source has a name, enter the name here. Otherwise, assign a short name that will differentiate it from other wells. This should be the same as the name listed on the accompanying well construction / pump installation permit application, where applicable.
  - SOURCE TMK** Fill in the current Tax Map Key number of the parcel on which the source resides.
  - FLOWMETER INFORMATION** You must have a flowmeter to accurately indicate that your water usage is in compliance with your proposed approved allocation. Check either "Yes" or "No." If you answer "Yes," write in the date the flowmeter was installed month/day/year in the space provided. The definition of a working flowmeter is a water meter with a totalizer that gives the total quantity of water used from a source.

#### **WATER USE INFORMATION**

- TOTAL QUANTITY OF WATER REQUESTED** Enter the amount of water requested as gallons per day (GPD) averaged over one year from Box M of Table 1.
- USE(S)** Check all the boxes that apply for the 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 categories to use.
- LOCATION OF WATER USE(S)** Show the location of the use on a map. This is essential for agricultural uses and will be attached to your water use permit, if approved.

#### **APPLICANT SIGNATURES REQUIRED**

- APPLICANT** The applicant must sign and date the application.
- SOURCE LANDOWNER** The source landowner must also sign and date the application.

### **PAGE 2**

#### **USE INFORMATION**

Note that you will need to fill out each section for potable and non-potable needs separately. This means that even though your source is defined as potable, you may have end use needs that don't require potable water, such as landscape irrigation. This will help the Commission determine whether or not non-potable alternatives are available for your non-potable needs.

- Table 1: USE INFORMATION** Provide information on all of the uses you are applying for or seeking to modify to. 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 water use(s), as required by §174C-51(5), HRS.

- A. PURPOSE / WATER USE CATEGORY** For each purpose of use, choose one of the categories listed in the table below and enter the appropriate code in the space provided (e.g., AGRAQ, IRRGC, etc.)

<b>AGRICULTURE</b> AGRAQ Aquatic Plants & Animals AGRCP Crops & Processing AGRLI Livestock & Processing, and Pasture AGRON Ornamental & Nursery Plants AGROTH Other	<b>DOMESTIC</b> 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
<b>IRRIGATION</b> IRRGC Golf Course IRRHM Habitat Maintenance IRRHOT Hotel IRRLA Landscape/Water Features IRROTH Other IRRPA Parks IRRSC Schools	<b>INDUSTRIAL</b> INDEL Geothermal, Thermoelectric Cooling, Power Development INDFP Fire Protection INDMI Mining, Dust Control INDOTH Industrial - Other
<b>MILITARY</b> MIL Military	<b>MUNICIPAL</b> MUNCO County MUNPR Privately-owned but defined as public water system by MUNST DOH State

- B. USE TMK** Enter the tax map key (TMK) number for the parcel of land over which the use is applied. There should only be one parcel for each line. Also, attach:
- C. STATE LAND USE DISTRICT** Write in the name of the current land use district. To find the Land Use District, contact the Land Use Commission at (808) 587-3822.
- D. CDUP REQUIRED?** Check the appropriate box. If a Conservation District Use Permit (CDUP) is required and you have a CDUP applicable to this project, check "Yes" and write in the date approved in the space provided (month/day/year). If your parcel is in a conservation district, as indicated in Column C of this table, contact the Office of Conservation and Coastal Lands at (808) 587-0328 to find out if a CDUP is required.
- E. COUNTY ZONING CODE** To find out the County Zoning Code for Oahu, contact the City and County of Honolulu at 768-8041. For Maui County, contact at 270-7253.
- F. SMAP REQUIRED?** Check the appropriate box. If a Special Management Area Permit (SMAP) is required, and you have an SMAP applicable to this project, check "Yes" and write in the date approved in the space provided (month/day/year). To find out if your parcel is in a Special Management Area and requires an SMAP, for Oahu contact the City and County of Honolulu Department of Planning and Permitting or for Maui County contact the Planning Department.
- G. UNITS or NET ACREAGE** This is the total number of units or the net number of acres as a basis for calculating your requested allocation. "Unit" can mean a dwelling unit, number of people, acres, number of animals, etc. Some examples of units or acreages to enter in this column would be 400 dwelling units, 500 people, or 3.74 acres.
- H. GPD/UNIT or GPD/ACRE** (GPD = gallons per day) Enter the gallons per day per unit (GPD/unit) or gallons per day per acre (GPD/acre) for each water use category listed in Column A.
- I. QUANTITY OF USE** Enter the quantity of water use in gallons per day (GPD). Justification (see Column J) for the quantity requested may depend on the information provided in columns G and H of this table.
- J. JUSTIFICATION FOR QUANTITY OF WATER REQUESTED** Explain how you are justifying the quantity of water requested for each use, in Column I of this table. Attach additional sheets, if necessary, showing how the proposed quantity was calculated. For all proposed irrigation uses, you are required to also complete Item 12 (Table 2) of the application.
- K. TOTAL POTABLE USE NEEDS** Add the quantities listed in the Column I for proposed potable water use. Enter the total quantity in gallons per day (GPD) in Box K.
- L. TOTAL NON-POTABLE USE NEEDS** Add the quantities listed in Column I for proposed uses that do not require potable water. Enter the total quantity of proposed non-potable water use in gallons per day (GPD) in Box L.
- M. TOTAL QUANTITY OF WATER REQUESTED** Add the totals in Box K and Box L, and enter the sum in Box M. The quantity in Box M should be the same as the amount entered under Item 6 on the page 1 of the application.

### PAGE 3

#### 12. TABLE 2: AGRICULTURE/IRRIGATION INFORMATION

On Table 2, provide the information requested for all of the plant types or other needs such as aquaculture, etc. Enter only one plant and one parcel number (TMK) per line. For multiple crops, list each one as a separate line item. All uses you are applying for must be listed. Attach additional copies of Table 2, if necessary.

- A. TMK FOR LOCATION OF USE** Enter the parcel number where the crop is/will be grown. Also, attach a map with an outline around the area(s) of use(s) and a photograph of each area of proposed use.
- B. CROP** Enter the crop type
- C. TOTAL ACREAGE** Enter the total acreage of the parcel listed.
- D. NET IRRIGATED ACREAGE** Enter the acreage that the specific crop will be grown.
- E. BEGIN GROWTH PERIOD (MONTH)** This is the month of the start of the growth cycle.
- F. END GROWTH PERIOD (MONTH)** This is the month of the end of the growth cycle.
- G. IRRIGATION SYSTEM** Enter one of the following:  
TRICKLE, DRIP  
TRICKLE, SPRAY  
MULTIPLE SPRINKLERS

SPRINKLER, CONTAINER NURSERY  
SPRINKLER, LARGE GUNS  
SEEPAGE, SUBIRRIGATION  
CROWN FLOOD  
FLOOD (TARO)

OTHER – Please describe in the space provided for comments (Column I and/or below the table).

**H. 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 (Column I and/or below the table).

**PAGE 4**

**13. TABLE 3: ALTERNATIVES ANALYSIS**

You should address every alternative and explain why each alternative is or is not available for your potable and non-potable water needs. Note that simple "not available" answers are not acceptable. If the alternative is not feasible, please explain.

**Municipal sources** Please contact your County's Department of Water Supply to identify if a municipal source is available to supply water to your area of need.

**Wastewater reuse** Please contact your County's Wastewater Division to identify if reuse water is available to supply water to your area of need.

**Ditch system** Please identify whether a ditch system is available to supply water to your area of need. You can contact the Department of Agriculture, but you should also identify private ditch systems and the availability of that source as well.

**Desalinization** Please explain why drilling a well deeper or finding an alternative source of saline water and desalinizing is not a feasible alternative.

**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.*

**Other** Other alternatives may include stormwater reclamation, rainwater catchment, or other alternatives not already listed above.

**14. PUBLIC INTEREST**

Explain in the space provided or on a separate sheet why the use(s) on your application are consistent with the public interest.

**15. KA PA'AKAI ANALYSIS**

In the case of Ka Pa'akai O Ka'Aina vs. the Land Use Commission, State of Hawaii, it was determined that an analysis must be conducted for the following items:

- The identification and scope of cultural, historical, and natural resources in which traditional and customary Native Hawaiian rights are exercised in the area.
- The identification of the extent to which those resources listed in item a., including traditional and customary Native Hawaiian rights, will be affected or impaired by the proposed action.
- The determination of the feasible action, if any, that could be taken to reasonably protect Native Hawaiian rights.

**PAGE 6**

**16. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS**

Explain in the space provided or on a separate sheet how the use(s) of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act. To inquire about potential interference, you may contact the Department of Hawaiian Home Lands main line at 620-9500, or the DHHL Planning Office at 620-9480. You may also visit their website at [dhhl.hawaii.gov](http://dhhl.hawaii.gov), where you can review DHHL's Island Plans, Regional Plans, and their Water Policy Plan.

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.*

**17. INTERFERENCE WITH ANY EXISTING LEGAL USES**

Explain in the space provided or on a separate sheet how the use(s) of water will not interfere with any other existing legal use(s) of water.

**18. EFFICIENCY**

A conservation plan should describe any conservation measures that will be used to ensure that your water use is or will be efficient, and is different from a water shortage plan. Conservation measures may include, but are not limited to, water reuse or recycling systems, monitoring the water distribution system for pressure drops that are indicative of leaks or line breaks, or use of drought-tolerant and xeriscape landscape plants.

**19. PUBLIC WATER SYSTEM INFORMATION**

Check the appropriate box or boxes relating to your water system.

20. **CHAPTER 343** If an Environmental Assessment was completed, fill in the dates of publication and acceptance. For additional information about the proposed uses checkboxes, refer to [http://luc.state.hi.us/docs/hrs\\_343.pdf](http://luc.state.hi.us/docs/hrs_343.pdf)

21. **TABLE 4: 12-MONTH MOVING AVERAGE CALCULATION AS OF THE DATE OF DESIGNATION. FOR EXISTING USES ONLY.**

For existing use permit applications, list the pumpage for the 12 months prior to designation. Also identify how that measurement was taken.

