



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 John Stufflebear County of Maui, Department of Water Supply			Contact Person Eva Blumenstein		Name/Company See attached			Contact Person																																																																									
Mailing Address 200 S High Street Wailuku, HI 96753					Mailing Address																																																																												
Phone		Fax 808-463- 3112		E-mail		Phone		Fax		E-mail																																																																							
SOURCE INFORMATION																																																																																	
3. ISLAND Maui																																																																																	
4. AQUIFER SYSTEM AREA Launiupoko					4A. SUSTAINABLE YIELD FOR ITEM 4 7 MGD																																																																												
5. SOURCE INFORMATION Attach additional sheets, if necessary.																																																																																	
<table border="1"><thead><tr><th>Well Number (If known)</th><th>Well Name</th><th>Existing or Proposed?</th><th colspan="4">TMK</th><th colspan="2">Flowmeter installed?</th></tr></thead><tbody><tr><td>6-5339-003</td><td>Kanaha 1</td><td>Existing</td><td>4</td><td>6</td><td>018</td><td>007</td><td><input checked="" type="checkbox"/> Yes, date installed ____ / ____ / 2005</td><td><input type="checkbox"/> No</td></tr><tr><td>6-5339-004</td><td>Kanaha 2</td><td>Existing</td><td>4</td><td>6</td><td>018</td><td>012</td><td><input checked="" type="checkbox"/> Yes, date installed ____ / ____ / 2006</td><td><input type="checkbox"/> No</td></tr><tr><td></td><td></td><td></td><td>zone</td><td>sector</td><td>plot</td><td>parcel</td><td><input type="checkbox"/> Yes, date installed ____ / ____ / ____</td><td><input type="checkbox"/> No</td></tr><tr><td></td><td></td><td></td><td>zone</td><td>sector</td><td>plot</td><td>parcel</td><td><input type="checkbox"/> Yes, date installed ____ / ____ / ____</td><td><input type="checkbox"/> No</td></tr><tr><td></td><td></td><td></td><td>zone</td><td>sector</td><td>plot</td><td>parcel</td><td><input type="checkbox"/> Yes, date installed ____ / ____ / ____</td><td><input type="checkbox"/> No</td></tr><tr><td></td><td></td><td></td><td>zone</td><td>sector</td><td>plot</td><td>parcel</td><td><input type="checkbox"/> Yes, date installed ____ / ____ / ____</td><td><input type="checkbox"/> No</td></tr><tr><td></td><td></td><td></td><td>zone</td><td>sector</td><td>plot</td><td>parcel</td><td><input type="checkbox"/> Yes, date installed ____ / ____ / ____</td><td><input type="checkbox"/> No</td></tr></tbody></table>										Well Number (If known)	Well Name	Existing or Proposed?	TMK				Flowmeter installed?		6-5339-003	Kanaha 1	Existing	4	6	018	007	<input checked="" type="checkbox"/> Yes, date installed ____ / ____ / 2005	<input type="checkbox"/> No	6-5339-004	Kanaha 2	Existing	4	6	018	012	<input checked="" type="checkbox"/> Yes, date installed ____ / ____ / 2006	<input type="checkbox"/> No				zone	sector	plot	parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	<input type="checkbox"/> No				zone	sector	plot	parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	<input type="checkbox"/> No				zone	sector	plot	parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	<input type="checkbox"/> No				zone	sector	plot	parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	<input type="checkbox"/> No				zone	sector	plot	parcel	<input type="checkbox"/> Yes, date installed ____ / ____ / ____	<input type="checkbox"/> No
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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 258,789 GPD																																																																																	
7. USE: <input type="checkbox"/> Agriculture <input type="checkbox"/> Domestic <input type="checkbox"/> Industrial 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.																																																																																	
<p>Note 2: 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.</p>																																																																																	
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Signature John Stufflebear					Signature see attached																																																																												
Print Name John Stufflebear					Print Name see attached																																																																												
Date 8/4/2023					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 (Use the instructions for water use category descriptions.)	TMK 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	COLP REQUIRED? Check the appropriate box, and write in the date approved, if applicable.	COUNTY ZONING CODE	BMAP REQUIRED? Check the appropriate box, and write in the date approved, if applicable.	UNITS OR NET ACREAGE	GPD/NET 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, see Table 2.
USES THAT REQUIRE POTABLE (DRINKING) WATER									
<p>Please refer to Appendix B Table 1 and water rates</p> <p>2040 sector plot parcel</p>			<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				<p>Kanaha 1 575 pumps an average of 157,229 GPD from the Launiupoko Aquifer System. Annually, it contributes</p>
<p>2040 sector plot parcel</p>			<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				<p>Total Launiupoko Aquifer System pumping from Kanaha 2 576 averages at 101,559 GPD. Annually, it contributes</p>
<p>2040 sector plot parcel</p>			<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				
<p>2040 sector plot parcel</p>			<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	K256,788	GPD	
USES THAT DO NOT REQUIRE POTABLE WATER									
<p>2040 sector plot parcel</p>			<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				
<p>2040 sector plot parcel</p>			<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				
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<p>2040 sector plot parcel</p>			<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)

The County of Maui Department of Water Supply (MDWS) owns the 2 wells Kanaha 1 and Kanaha 2. Kanaha 1 well is located on TMK 4-6-018:007, owned by the State of Hawaii Department of Land and Natural Resources with an Executive Order to the Department of Education. Kanaha 2 well is located on TMK 4-6-018:012, owned by the Hans Michel and Emily Ann Trust. MDWS is the only user of these wells since they were drilled in 1971 and 1974, respectively. There are no known legal or contractual limitations to the existing water use from this well field.

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.

MARK FOR LOCATION OF USE ATTACH THE FOLLOWING: • Property lot map with an outline around the area of each irrigation use listed in this table. • Photograph of the area of each use.				A	B	C	D	E	F	G	H	I			
					CROP	TOTAL ACREAGE	NET IRRIGATED ACREAGE	SEASON GROWTH PERIOD (months)	END GROWTH PERIOD (months)	IRRIGATION SYSTEM (refer to instructions)	IRRIGATION PRACTICE (refer to instructions)	COMMENTS (Continue comments below, if more space is needed.)			
4	5	007	034	zone	water	plot	parcel	N/A	0.655	unknown	N/A	N/A	unknown	unknown	
4	5	011	009	zone	water	plot	parcel	N/A	2.957	unknown	N/A	N/A	unknown	unknown	
4	6	015	001	zone	water	plot	parcel	N/A	64.87	unknown	N/A	N/A	unknown	unknown	
4	6	015	002	zone	water	plot	parcel	N/A	0.165	unknown	N/A	N/A	unknown	unknown	
4	5	010	007	zone	water	plot	parcel	N/A	2.925	unknown	N/A	N/A	unknown	unknown	
zone	water	plot	parcel							unknown	unknown				
zone	water	plot	parcel							unknown	unknown				
zone	water	plot	parcel							unknown	unknown				
zone	water	plot	parcel							unknown	unknown				
zone	water	plot	parcel							unknown	unknown				
zone	water	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) those comments relate to:

The MDWS does not provide non-potable water for commercial agricultural, landscape or golf course irrigation purposes. The services listed in Table 2 include the service accounts categorized as Irrigation. MDWS does not solicit information on irrigation systems and irrigation practices for customer accounts. All water services, such as commercial, hotel, multi-family and government uses may include an irrigation component. All services with an Agricultural water rate and known agricultural crops are located on the Napli sub-system, which is not serviced by the Kanaha 1 and 2 well field.

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 application is for a municipal source. Alternative private municipal systems include the Hana Water Service Co (HWS), serving Kanahele resort area, with MDWS service accounts approximately a mile south of the HWS system, and the Lanipaho Water Co. systems located about 0.8 miles from the southern most terminus of the MDWS system. There are no interconnections between the MDWS Lahaina system and the private water systems. However, MDWS is pursuing contingency agreements for backup supply in a water shortage.	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 (Haleakala) so additional treatment capacity will be necessary to deliver water from the Hana and Lanipaho Aqueduct Systems south to the Lahaina water distribution system located in the south. However, this idea is still many years away. If an interconnection integration plan can be drafted, cooperation from the Department of Environmental Management (DEM), various local, environmental, and other studies, an ongoing environmental impact assessment (EIA) and the availability of sustainable funding.
Wastewater reuse	The MDWS is in the process of upgrading the Lahaina Water Treatment Facility (LWTF) to be able to send treated and other process, reclaimed water back to its beneficiaries for event purposes. LWTF currently has two parallel lines that take in approximately 30,000 to 35,000 GPD which can be added when the upgrade is made to have an additional 14 GPD to 15 GPD. The LWTF is exploring the feasibility of direct potable reuse (DPR) in cooperation with the County of Maui Department of Environmental Management (DEM). DWS and DEM operate independently. Currently, DEM treats wastewater to R1 quality at the Lahaina Wastewater Reclamation Facility (LWRRF). Conceptual plans are being shared between the departments to determine if an interconnection between the DWS Lahaina Water Treatment Facility (LWTF) and the LWRRF can produce water to provide potable reuse DPR. The proposal is.	The MDWS recently visited the State of Hawaii's first mechanical greywater system at the Lanipaho Beach Park in Lahaina, located on the Lanipaho Aqueduct System. It is capable of treating approximately 1 million gallons of used shower water per year from one (1) shower. An R1 upgrade upon permit application may also be added to the State of Hawaii Department of Health (DOH). Once approved, treated non-potable, above-ground, greywater can supply reuse water for landscaping where hot towel bins are located or dechlorinated after treatment facility before 1990. Connected to the DWS FY2022 Water Audit (attached). DWS may be able to reassess and offset 15%-20% of net losses by reusing water at Lanipaho Beach Park. The same company the DWS has been working with has been given a water reuse contract with the Department of Agriculture to build a reuse reuse system for the AO section on Maui to wash cases on-site with treated reusable water. The mechanical system used a set-off to the system DWS submitted and approved with the County and DOH for the.
Ditch system	Water diverted from the Kanahele Stream intake feeds into the Lahaina ditch for further conveyance to the LWTF. MDWS has no additional storage or capacity from the intake and ditch to provide for existing uses on the MDWS Lahaina system. To the south, water diverted from Lanipaho Stream into Lanipaho ditch is used by a privately owned water purveyor for irrigation purposes. To the north, water diverted from Kanahele Stream feeds the Kanahele Ditch. There is no conveyance from these 2 ditches to the MDWS system for potable distribution.	An alternative to divert water from Kanahele stream into the Lahaina ditch and bypass the LWTF for non-potable uses on the MDWS system would require substantial investment in transmission and a dual distribution and metering system. Any available source from Kanahele stream is needed to meet existing potable domestic needs.
Desalination	MDWS has commissioned a consultant in fiscal year 2023 to deliver a desalination feasibility study as potential potable water supply for West Maui. The study will address residuals and energy management and is anticipated to be completed by the end of fiscal year 2024. Desalination, if feasible, will not be available in the near future to meet current demand.	Two options exist for desalination – sea-water desalination or brackish water, low-salt reverse osmosis (RO) desalination. Although both options are available in the future if a solution to meet its alternative 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 system in place.
Surface water	Surface water diverted from Kanahele stream for potable treatment at the LWTF is an integral part of the MDWS Lahaina water system. The stream is subject to the 2015 IFSS and it is anticipated that no additional source than what is currently diverted will be available for existing uses both under normal and low flow conditions.	The option to divert water from Kanahele stream into the Lahaina ditch and bypass the LWTF for non-potable uses on the MDWS system would require substantial investment in transmission and a dual distribution and metering system. Any available source from Kanahele stream is needed to meet existing potable domestic needs.
Other	The MDWS maintains an active land stewardship program and continues to conduct public outreach events to educate about water conservation, and to provide the high efficiency fixtures, toilets and can barrels to qualifying customers through various conservation programs, including cooperative efforts with other county departments to replace aging and inefficient toilets at county facilities, buildings and schools. In addition, MDWS has an annual water conservation poster contest that 600 to 1000 school kids from grade school to middle school regularly participate in.	MDWS initiated a rebalancing program to incentivize rainfall capture and runoff from roofs. This rain barrels are distributed to MDWS customers on this system. Maui County does not maintain a stormwater reclamation program to provide non-potable supply for agriculture or irrigation. The Maui Island Water Use and Development plan includes a strategy to explore storm water from Kanahele Stream for conveyance to agricultural water users. This strategy would potentially offset water use within the MDWS Lahaina subsystem in the Kanahele stream vicinity, but is currently not available.

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 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.*

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

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

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.

See Appendix C: "Ka Pa'akai Analysis"

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

See Appendix C: "Ka Pa'akai Analysis"

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

See Appendix C: "Ka Pa'akai Analysis"

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	<p>The application is for a municipal source. Alternative private municipal systems include the Hawaii Water Service Co (HWSC), servicing Kaanapali resort area, with MDWS service accounts approximately a mile south of the HWSC system; and the Launiupoko Water Co system located about 0.8 miles from the southern most terminus of the MDWS system. There are no interconnections between the MDWS Lahaina system and the private water systems. However, MDWS is pursuing contingency agreements for backup supply in a water shortage.</p>	<p>There have been preliminary discussions about the feasibility of reuse, in which DWS would treat non-potable recycled water for distribution on its existing water supply system. DEM treatment on the northern portion of the DWS water distribution system (if additional booster capacity will be necessary to deliver water from Honolua and Honokowai Aquifer Systems south to the Lahaina distribution system, located in the south. However, this idea is away, if an infrastructure integration plan can be drafted, coope the Department of Environmental Management (DEM), various archaeological, and title studies, an extensive environmental im assessment (EIA) and the availability of sustainable funding.</p>
Wastewater reuse	<p>The MDWS is in the process of upgrading the Lahaina Water Treatment Facility (LWTF) to be able to send backwash and other process, unfinished, water back to its headworks for reuse purposes. LWTF currently has two percolation basins 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 MDWS is exploring the feasibility of direct potable reuse (DPR) in cooperation with the County of Maui Department of Environmental Management (DEM). DWS and DEM operate independently. Currently, DEM treats wastewater to R1 quality at the Lahaina Waste Water Reclamation Facility (LWWRF). Conceptual ideas are being shared between the departments to determine if an interconnection between the DWS Mahinahina Water Treatment Facility (MWTF) and the LWWRF can produce water to potable standards using DPR. The concept is still being discussed to determine potential cost and feasibility. This concept may also be possible in the southern Lahaina potable water distribution sub-system (LWDS), but this would require cost-prohibitive options such as satellite waste water reclamation facilities in the immediate area or use booster pumps to transport treated sewage to the northern DWS LWDS Lahaina Water Treatment Facility (LWTF).</p>	<p>The MDWS recently installed the State of Hawaii's first mechanical system at the Launiupoko Beach Park in Lahaina, located in the Honokowai Aquifer System. It is capable of treating approximately 1 million shower water per year from one (1) shower. An R-1 upgrade application was also submitted to the State of Hawaii Department of Health (DOH). Once approved, treated, non-potable, above-surface spray reuse water for landscaping, which has never been attempted at a decentralized water treatment facility before. With consideration of the FY2022 Water Audit (attached), DWS may be able to recapture 25% of real losses by reusing water at Launiupoko Beach Park. The company the DWS has been working with has now spun off a water reuse concept with the Department of Agriculture to build a water reuse system in the AG sector on Maui to wash crops on-site with treated reuse water. The AG sector on Maui to wash crops on-site with treated reuse water. The mechanical system used is a spin-off to the system DWS pioneered at the Launiupoko Beach Park. The DEM currently has plans to expand R1 recycled water reuse around the Kaanapali Golf Course that it now services, and its in including the expansion of recycled water main lines to major hotels. Recycled water services the Hyatt Regency, Honua Kai Resort, Hana Kai Resort, and the Kaanapali Golf Resort. This non-potable alternative cannot currently be used by DWS due to distribution constraints and permitting rules set by the State of Hawaii Department of Health (DOH) which requires separate potable and non-potable distribution systems, but also requires a water use permit for how recycled water is applied to avoid health risks to the public. Recycled water is not currently offered for domestic use and can only be used with permit provisions that stipulate how and when water can be applied to minimize human contact. Likewise, commercial and industrial uses have similar restriction to avoid worker exposure in the workplace and to avoid contamination risks to the public. Although the areas served by DEM are in the Honokowai Aquifer System, sewage is also collected from MDWS customers on the distribution system connected to Mahinahina Water Treatment Facility (MWTF), Napili A, Napili B, and Honokahua 8 wells in the Honolua Aquifer System. If such a reuse is possible for the south DWS water distribution system located in the Launiupoko Aquifer System, sewage water may be collected and sent up to the DEM water treatment facility, unless a satellite wastewater treatment facility is built further south in the vicinity of the DWS Lahaina service area. The DEM currently has plans to expand R1 recycled water further around the Kaanapali Golf Course that it now services in the immediate area, including the expansion of recycled water main lines to major hotels. To date, recycled water services the Hyatt Regency, Honua Kai Resort, Hana Kai Resort, and the Kaanapali Golf Resort. This non-potable alternative cannot currently be used by DWS due to distribution constraints and permitting rules set by the State of Hawaii Department of Health (DOH) which requires separate potable and non-potable distribution systems, but also requires a water use permit for how recycled water is applied to avoid health risks to the public. Recycled water is not currently offered for domestic use and can only be used with permit provisions that stipulate how and when water can be applied to minimize human contact. Likewise, commercial and industrial uses have similar restriction to avoid worker exposure in the workplace and to avoid contamination risks to the public. Although the areas served by DEM are in the Honokowai Aquifer System, sewage is also collected for recycling from MDWS customers on the distribution system connected to the Mahinahina Water Treatment Facility (MWTF).</p>

Napili B, Napili C, and Honokahua B wells in the Honolua Aquifer, such a reuse option were possible for the south DWS water district located in the Launiupoko Aquifer System, sewage water may be pumped back up to the DEM water treatment facility, unless a wastewater treatment facility is built further south in the vicinity of downtown Lahaina service area.

Ditch system	Water diverted from the Kanaha Stream intake feeds into the Lahainaluna ditch for further conveyance to the LWTF. MDWS has no additional source or capacity from the intake and ditch to provide for existing uses on the MDWS Lahaina system. To the south, water diverted from Launiupoko Stream into Launiupoko ditch is used by a privately owned water purveyor for irrigation purposes. To the north, water diverted from Kahoma stream feeds the Kahoma Ditch. There is no conveyance from these 2 ditches to the MDWS system for potable distribution.	An alternative to divert water from Kanaha stream into the Lahaina ditch and bypass the LWTF for non potable uses on the MDWS system would require substantial investment in transmission and a dual distribution and metering system. Any available source from Kanaha stream is needed to meet existing potable domestic needs.
Desalination	MDWS has commissioned a consultant in fiscal year 2023 to deliver a desalinization feasibility study as potential potable water supply for West Maui. The study will address residuals and energy management and is anticipated to be completed by the end of fiscal year 2024. Desalination, if feasible, will not be available in the near future to meet current demand.	Two options exist for desalination -- seawater desalination or low-salt reverse osmosis (RO) desalination. Although both options are available in the future if a solution to meet its extensive energy requirement, intake options with environmental impact assessments (EIS) without a thorough United States Geological Survey (USGS) hydrogeological analysis of how pumping water from brackish wells may impact the aquifer, the cost for brackish water is cheaper. MDWS currently favors the option to desalinate.
Surface water	Surface water diverted from Kanaha stream for potable treatment at the LWTF is an integral part of the MDWS Lahaina water system. The stream is subject to the 2018 HFS and it is anticipated that no additional source than what is currently diverted will be available for existing uses both under normal and low flow conditions.	The option to divert water from Kanaha stream into the Lahaina ditch and bypass the LWTF for non potable uses on the MDWS system would require substantial investment in transmission and a dual distribution and metering system. Any available source from Kanaha stream is needed to meet existing potable domestic needs.
Other	The MDWS maintains an active leak detection program and 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 departments to replace aging and inefficient toilets at county facilities, buildings and schools. In addition, MDWS has an annual water conservation poster contest that 600 to 1000 school kids from grade school to middle school regularly participate in.	MDWS initiated a rainbarrel program to incentivize rainfall capture from roofs. Free rain barrels are distributed to MDWS customer system. Maui County does not maintain a stormwater reclamation system to provide non potable supply for agriculture or irrigation. The Maui Use and Development plan includes a strategy to explore stormwater capture from Kahoma Stream for conveyance to agricultural water users. This would potentially offset water use within the MDWS Lahaina service area, but is currently not available.

OTHER PERTINENT INFORMATION

14. PUBLIC INTEREST

Kanaha 1 Well and Kanaha 2 Well belongs to a network of four (4) wells in the same that treats water on-site at storage tanks, bypasses the LWTF, to feed water directly the southern MDWS Lahaina water distribution sub-system (LWDS). Potable water production at all wells and facilities must be collectively balanced to meet use demand in the LWDS, and in order to meet safe operational parameters at LWTF. As such, the amount of water pumped at Kanaha 1 Well and Kanaha 2 Well is directly influenced by practices to maintain the individual sustainable yields of the other wells, acceptable chloride levels of each well, and sufficient raw water influent for treatment at LWTF, which also services LWDS in the same closed-loop water distribution system. The LWTF does not import treated potable water from other water purveyors and must rely on adequate raw water intake and pumped well water. The MDWS is continuously vigilant to maintain enough water flowing into the facility, and assures that a minimum of .1 MGD is delivered to Lahainaluna's High School water storage tanks. MDWS maintains aging infrastructure and recognizes that water amounts needed for maximum beneficial use for different purposes must be calculated with additional water requirements for safe potable water treatment, non-revenue transport loss (i.e. MDWS Water Audit), theft. Operational levels are maintained through a Supervisory Control and Data Acquisition (SCADA) system that makes sure tanks and reservoirs are maintained in good condition in case of emergencies. MDWS provides municipal water service for residential potable need for the Lahaina and Napili community. Municipal uses and public water supply are declared to be in the public interest. MDWS services include potable water supply for residential, commercial, government, churches, industrial, park, school and military uses. The system also provides for fire flow throughout the community. Residential water use for the primary service area for the Kanaha well field represents 64% of total water use for the subsystem. Residential services throughout the entire MDWS Napili and Lahaina system represents 87% of the total number of water services. Reliable public water supply to serve homes and businesses is a reasonable and beneficial use of groundwater from Launiupoko aquifer and essential to maintain a functional economy. Beneficial use requires reduction of waste and a water conservation mindset. The MDWS conservation program has resulted in substantial water savings over the last years. Overall, the MDWS number of services have increased 35% while the water use per service has decreased 22.3%.

OTHER PERTINENT INFORMATION

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

The MDWS conferred with the Department of Hawaiian Homelands (DHHL) about this GWUPA by providing the location of the subject well, requesting feedback regarding this permit with regards to Section 221 of the Hawaiian Commission Act, listing the DHHL plans and reports that were reviewed as due diligence for this GWUPA, and requesting for DHHL to advise the MDWS about any other DHHL right and entitlements that should be considered for this GWUPA. After careful inspection and review, potable water use in the LWDS does not interfere with the rights of the DHHL. The MDWS continues to consider the feasibility of assisting DHHL expand their projects and considers their future plans to be an important collaborative effort to cooperate about the most important scarce natural resource on Maui. DHHL properties within the Leialii project area is currently served by the MDWS Lahaina subsystem. Continued service and future development of this DHHL project relies on reliable service from MDWS existing water sources as no new MDWS source will come on line before 2025. For new water services, MDWS prioritizes DHHL needs through an exemption from the water availability rule as set forth in Maui County Code chapter 14.12. DHHL does not hold a groundwater reservation within the Launiupoko aquifer. MDWS allotted 200,000 GPD for the future expansion of the existing Villages of Leialii, Phase 1A. This project is between the north and south LWDS, adjacent to south east Ka'anapali. The additional water through the MDWS allotment keeps discussion alive, and once formalized, should help bolster water supplies for an additional 250 lots of Village of Leialii Phase 1B. As ongoing discussions continue between the DHHL and the MDWS, one major option to decide on is the utility management of a well in the Honokowai Aquifer System for potable water delivery to DHHL water systems and if distribution of that water will flow through the MDWS water distribution infrastructure. Through the proper planning to justify and secure such quantities and qualities of water necessary to serve the needs of its customers and DHHL.

OTHER PERTINENT INFORMATION

17. INTERFERENCE WITH ANY EXISTING LEGAL USES

The closest non MDWS well to the Kanaha 1 & 2 well field is Kahoma Pump M at approximately 3,900 feet distance, which is not in active production. There is no know interference with an active well or well field in the Launiupoko aquifer system.

OTHER PERTINENT INFORMATION

18. EFFICIENCY

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 demand-side conservation strategies. These strategies are attached and provides savings calculations from various program that are currently underway at the DWS, including programs that may work in the future. These conservation programs are considered based on the special water use contexts and behaviors of Maui residents and businesses, and includes a public outreach component which educates and provides public events to give away free high-efficiency fixtures, toilets, rain barrels and irrigation system components to help home owners save water and money.

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 MDWS conferred with the Department of Hawaiian Homelands (DHHL) about this GWUPA by providing the location of the subject well, requesting feedback regarding this permit with regards to Section 221 of the Hawaiian Commission Act, listing the GWHU plans and maps that were reviewed as per direction for this GWUPA, and requesting for GWHU to advise the MDWS.

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.

The closest non MDWS well to the Kanaha 1 & 2 well field is Kahoma Pump M at approximately 3,800 feet distance, which is not in active production. There is no know interference with an active well or well field in the Launiupoko aquifer system.

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 MDWS is currently in contract with a consultant to improve and make recommendations to our current water program, which includes a number of supply-side and demand-side conservation strategies. These strategies are attached and provide savings calculations from various program that are implemented or planned. These conservation strategies are considered based on the

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
Please refer to Appendix G		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<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.

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. 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.)

AGRICULTURE AGRAQ Aquatic Plants & Animals AGRCR 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
IRRIGATION IRRG C Golf Course IRRHM Habitat Maintenance IRRHOT Hotel IRRLA Landscape/Water Features IRROTH Other IRRPC Parks IRRSC Schools	INDUSTRIAL INDEL Geothermal, Thermoelectric Cooling, Power Development INDFP Fire Protection INDMI Mining, Dust Control INDOTH Industrial - Other
MILITARY MIL Military	MUNICIPAL MUNCO County MUNPR Privately-owned but defined as public water system by DOH MUNST 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 1 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 1 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 5

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, 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/hirs_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.