STATE OF HAWAI'I COMMISSION ON WATER RESOURCE MANAGEMENT

Lahaina Community Meeting

April 7th, 2025



LAHAINA SURFACE WATER



Hydrogeology Background



EXPLANATION



Hydrogeology Background



Groundwater-Surface Water Interactions



Hydrogeology Background

- Shield-building phase: Wailuku Volcanics
 - Dike formation along north and southeast rift zones
 - Dike formation around caldera
 - Older alluvium: highly permeable
- Post-shield phase: Honolua Volcanics
 - Overlaying Wailuku basalt
- Rejuvenation phase: Lahaina Volcanics
 - Limited extent; highly permeable







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Groundwater Features

1. High elevation dike-confined aquifers contribute to gaining streamflow

2. Thin basal aquifer subject saltwater upconing and high chlorides

3. Recharge historically enhanced by irrigation of pineapple and sugarcane no longer present

4. Groundwater sourced for potable and non-potable uses





Lahaina Groundwater Hydrologic Units



Lahaina Groundwater Production Sources

Maui Land & Pine (Hawaii Water Service) Maui DWS North Lahaina System Hawaii Water Service Kaanapali Service Area Maui DWS South Lahaina System Launiupoko Water Company System Olowalu Water Company System Ukumehame Water System



Lahaina Streams and Surface Water Hydrologic Units

Potable water sourced from Honokōhau and Kanahā streams

Instream uses include kalo loi, recreation, aesthetic, freshwater habitat, estuary and nearshore ecosystems

DHHL reservation





Lahaina Surface Water Features

1. High elevation dike-confined aquifers contribute to gaining streamflow

2. Streams lose surface water to groundwater recharge downstream of the dike zone

3. Historically, storage captured high flow events to support demand during drought periods

4. Groundwater sourced for potable and non-potable uses



Lahaina Surface Water Interim Instream Flow Standards

	Elevation (ft)	2021-2025				21°0
Stream Name		Q ₅₀ (mgd)	Q ₉₀ (mgd)	Interim IFS (mgd)	Interim IFS elevation (ft)	
Honokōhau	940	10.3	7.1	8.6	350	
Honolua	850	2.46	0.00	natural flow	725	
Honokōwai	1500	3.49	2.32			NC
Kahoma	2100	3.75	1.87	3.49	2100	20°55'0
Kanahā	1650	3.17	2.65	0.50	1100	
Kauaula	1550	3.55	2.39			
Launiupoko	1340	0.30	0.23	0.00	1340	
Olowalu	200	3.08	1.06	2.65	190	
Ukumehame	400	2.65	1.75	2.90	200	



Honokōhau Stream at USGS 16620000



≊USGS





Flow Duration Curves



Percent of time that indicated discharge was equaled or exceeded



Issues with Resource Availability





Maui DWS Water System

Category	Consumption (mgd)	Percent of Total (%)
Domestic	5.082	94.3
Industrial	0.153	2.6
Municipal	0.14	2.4
Agricultural	0.005	0.1
Irrigation	0.005	0.1
Military	0.002	<0.1
Unknown	0.002	<0.1







LAHAINA GROUND WATER CONDITIONS

Sustainable Yield and Pumpage





Honokōhau Aquifer System Area

- Sustainable Yield = 9 million gallons per day
- 12-month moving average pumpage through 12/31/2024 = N/A





Honolua Aquifer System Area

- Sustainable Yield = **8 million** gallons per day
- 12-month moving average through 12/31/2024 =
 2.365 million gallons per day





6-5940-001 Napilihau 6-5939-002 Napili Park 6-5938-003 Kapalua 2

6-5938-004 Kapalua 3B

6-5938-002 Kapalua 1

6-5840-001 Alaeloa 6-5938-001 Honokahua B 6-5839-001 Alaeloa Shaftonwood Ranch Horseback Riding

6-5840-002 Kahana Ridge

6-5838-001 Napili A 6-5838-002 Napili B

6-5840-004 Kahana Betsill-

6-5840-006 Kahana-Delaney 40-003 Kahana Ranch 6-5840-005 Kahana-Kurose mk 4-3-09-2 6-5841-003 Shoemaker 6-5741-001 McDonald

Honokōwai Beach Park

saka

ai Pump F

6-5738-001 Kaanapali P-5 6-5739-004 Kaanapali P-5A 6-5739-001 Kaanapali P-4

6-5739-002 Kaanapali P-6

6-5838-004 Napili C

6-5738-002 Kahana

6-5640-001 Honokowai Pump R

Napili C (6-5838-004) Pumpage vs. Chloride (ppm)

300

1.600



Pumpage (mgd) 🔹

Chloride (mg/L)

Honokōwai Aquifer System Area

- Sustainable Yield = 6 million gallons per day
- 12-month moving average through 12/31/2024 =
 4.381 million gallons per day









TTZ values from 2002 to 2006 are suspect, and are shown for comaprative purposes. * Since the year 2013, the MPTZ rose 14.88 feet, to an elevation of 114.17 feet below msl, where it is above a calculated Ghyben-Herzberg equilibrium elevation of 117.20 feet below msl,

relative to the Water Table, measured at 2.93 feet above msl.



last updated 3/21/2025

Kaanapali P-1 (6-5539-001) Pumpage vs. Chlorides



Pumpage (mgd)

Chlorides (mg/L)

Kaanapali P-2 (6-5539-002) Pumpage vs. Chlorides



Pumpage (mgd)

——Chlorides (mg/L)

Kaanapali P-3 (6-5539-003) Pumpage vs. Chlorides



Pumpage (mgd)

----- Chlorides (mg/L)



Kaanapali P-5A (6-5739-004) Pumpage vs. Chlorides

Kaanapali P-6 (6-5739-002) Pumpage vs. Chlorides


Hahakea 2 (6-5540-003) Pumpage vs. Chlorides



Launiupoko Aquifer System Area

- Sustainable Yield = **7 million** gallons per day
- 12-month moving average through
 12/31/2024 = 1.205 million gallons per day





Olowalu Aquifer System Area

- Sustainable Yield = **2 million** gallons per day
- 12-month moving average through
 12/31/2024 = 0.366 million gallons per day





Ukumehame Aquifer System Area

- Sustainable Yield = **2 million** gallons per day
- 12-month moving average through 12/31/2024 =
 0.074 million gallons per day





LAHAINA WATER USE PERMITTING PROCESS



Background

- Most of West Maui designated as both a surface and ground water management area in August 2022
- Within designated water management areas, any withdrawal, impoundment, or consumptive use of water requires a water use permit
- Existing use applications were due August 7, 2023

Photo: Honokōhau Valley, ca. 1908, courtesy of Lahaina Restoration Foundation



Water Use Permits (WUP)

- Can be for ground or surface water
- Identifies quantity of water for each use (ex: 500,000 gpd for agriculture)
- Alternatives analysis
- Applicable to all water users (county and private)
- Except: catchment and individual domestic uses

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	APPLIC	ATION FOR GROUP						
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APPLICANT	INFORMATION							
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Mailing Address			M	alling Address				
Phone	Fax	E-mail	Pt	one	Fax			E-mail
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Required Information

Name and address of applicant and landowner

Date

□ Water source

Quantity and quality of water requested

Use of water and any limitations

Location of use

Location of well or diversion

Conditions for WUP

Can be accommodated with available source

- Reasonable-beneficial use
- □ Will not interfere with any existing legal use of water
- Consistent with the public interest
- Consistent with state and county general plans and land use designations

More Conditions for WUP

Existing use:

- Cannot compete with another existing use of water
- If two or more existing use applications "compete" for the same water from an area, the Commission must hold a hearing to decide quantity and conditions

New use:

- If two applications compete or conflict, the Commission must try to accommodate both
- If not possible, the Commission shall approve the application that best serves the public interest

Other Requirements for WUP

- Public notice and opportunity to object
- **D** Public hearing if objection received
- □ Alternatives analysis
- Does not interfere with **DHHL** reservations of water
- □ Ka Pa'akai analysis (impact on traditional and customary practices of Native Hawaiians)
- Allowable under the common law of Hawai'i

Public Hearing

- Contested case hearing under Chapter 91, HRS
- Must follow procedural due process (record, findings of fact/conclusions of law)
- Can involve discovery, cross-examination, expert testimony, and site visits
- Must be decided by the Commission
- May be appealed directly to the Hawai'i Supreme Court
- Alternative dispute resolution (mediation) will be encouraged

Proposed Process Flowchart



Objections must be filed within 10 days from final publication of public notice Applications Received – Surface Water

Hydrologic Unit	Existing Use	New Use
Ukumehame	2	1
Olowalu	1	1
Launiupoko	1	0
Kaua'ula	6	8
Kahoma	17	5
Honokōwai	1	0
Honolua	2	0
Honokōhau	26	24

Applications Received – Ground Water

Hydrologic Unit	Existing Use	New Use
Ukumehame	2	2
Olowalu	3	5
Launiupoko	15	8
Honokōwai	11*	1
Honolua	5	1

*Letters sent regarding existing use applications

Common Missing Information

- Incorrect **source** location (TMK)
- Not legible or not complete
- Requested water quantities inconsistent or missing
- No or insufficient **alternatives** analysis
- Existing use applied for does not match actual existing use
- Well or stream diversion not properly permitted

Proposed Framework

- Beginning with Honokōwai GWMA and Honokōhau SWMA
- Tiered framework to prioritize and expedite public trust uses and affordable housing
- Tiers under discussion internally and will be announced for public comment this summer

RE-EVALUATING SUSTAINABLE YIELDS FOR LAHAINA



Background

- Considering the 2022 designation of Lahaina as a groundwater and surface water management area and the recently published 2023 USGS estimates of future recharge, CWRM has begun to reevaluate the sustainable yields for the Lahaina Aquifer Sector area.
- The purpose is to ascertain the amount of groundwater available for current and future uses in Lahaina.
- CWRM is focusing on Lahaina with plans to reevaluate SY in other areas depending on priorities and available resources.



Sustainable Yield

- "Sustainable yield" (SY) means the maximum rate at which water may be withdrawn from a water source without impairing the utility or quality of the water source as determined by the Commission.
- SY sets the limits of the resource or available water in an aquifer system area
- CWRM currently uses Robust Analytical Model (RAM) and RAM 2 for some aquifers with DMW
- Some hydrologists believe that RAM is outdated and not adequate given its limitations and the versatility of numerical models
- Numerical models can simulate flows based on aquifer properties and different recharge and pumping conditions, but will not provide a SY value directly

Lahaina Aquifer Conceptual Model

- 3 types of geologic formations Caprock, Basalt, Dike
- Water moves from high to low hydraulic head (pressure)
- Caprock is a barrier and holds back freshwater from easily flowing into the ocean
- Dikes are also barriers and builds up high water levels mauka



Figure 7. Geologic section of the Lahaina area showing groundwater occurrence and movement, west Maui, Hawai'i.

Streams in Lahaina

- 11 major streams in Lahaina
- Most streams are losing streams where water in the streams percolate into the ground/aquifer
- Increasing stream flow would increase aquifer recharge



Methods of Estimating Sustainable Yields

- Recharge is a key component when estimating SY
- Robust Analytical Model (RAM) is simplified but has limitations
 - Pros: inexpensive, only requires recharge input, based on estimated initial water levels
 - Cons: assumes uniform aquifer, does not account for spatial distribution of recharge or withdrawals, cannot assess impacts to T&C and GDE
- Numerical models don't provide a SY value (MGD) but they simulate water levels, chloride levels, stream flow, and coastal discharge based on withdrawals (pumping) and recharge scenarios
 - Pros: accounts for complex geology; provides simulation of groundwater flow; can simulate multiple scenarios and impacts over long periods
 - Cons: does not provide a SY value, expensive and time consuming, limited aquifer data
- A SY can be selected based on the impacts or level of "impairment" that the Commission determines is acceptable

Resources

- USGS Scientific Investigations Report 2012–5010: Groundwater Availability in the Lahaina District, West Maui, Hawai'i
 - Constructs a numerical groundwater model to simulate water levels, chlorides, and transition zone movement based on various future land use, pumping and recharge conditions.
 - This "Lahaina Model" was developed for the entire Lahaina Aquifer Sector Area.
- USGS SIR 2023–5130: Estimated Groundwater Recharge for Mid-Century and End-of-Century Climate Projections, Kaua'i, O'ahu, Moloka'i, Lāna'i, Maui, and the Island of Hawai'i
- **USGS ongoing study** of Maui aquifers (completion in 2025)
- Relevant **GDE scientific studies** in the area
- Indigenous/traditional ecologic knowledge **kilo**

Process for SY Reevaluation

- Met with "Water Professional" group (hydrologists + MDWS) to determine the best approach to reevaluating and revising Lahaina SY
- Meet with traditional and customary practitioners to learn what and where the practices are in the area; and groundwater dependent ecosystems experts to learn how the ecosystem interacts with coastal and submarine freshwater discharge – circa May 2025
- **Combined meeting** to discuss reevaluation of SY and options
- CWRM approval of revised SY if necessary
- Additional monitoring and model refinement

Range of Selected Recharge Estimates and Computed RAM SY for Lahaina Since 1990

		\frown							USGS SIR 2000–04 Ian plantati agriculture a rai	2 2012-5010 d use without on-scale nd 1926–2004 nfall	USGS SIR Bas	2023-5130 seline	USGS SIR Mid-C	2023-5130 Sentury	USGS SIR Dry So	2023-5130 cenario	USGS SIR 2023-5130 Wet Scenario		
System	Aquifer System with DMWs	1990 Recharge Mink	20 [,]	19 D/I	1990 SY MGD	C C F	019 WRM SY ange IGD	2019 CWRM SY MGD	Recharge	RAM Sustainable Yield	Recharge	RAM Sustainable Yield	Recharge	RAM Sustainable Yield	Recharge	RAM Sustainable Yield	Recharge	RAM Sustainable Yield	
HONOKOHAU		17).51	10	9	- 17	9	27.5	14	32.56	17	30.35	15	29.38	15	35.51	18	
HONOLUA		19). <mark>4</mark> 4	8	8	- 12	8	19.06	8	24.06	11	21.44	9	20.63	9	25.65	11	
HONOKOWAI	Х	13). <mark>4</mark> 4	8	6	- 16	6	29.07	13	32.6	14	27.34	12	25.46	11	34.27	15	
LAUNIPOKO		16).44	8	7	- 18	7	33.94	15	38.55	17	30.55	13	28.58	13	38.95	17	
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Range of Recharge Estimates for Lahaina Since 1990

Aquifer System	RAM SY (1990)	D/I - Mink's actual original	D/I 2019 CWRM Check	1990 Recharge	2008 SWAPP Generated Revised Recharge	Engott 2007 Maui	Engott 2012 Lahaina Maui	Engott, Johnson 2014 Maui (Average Climate B)	Engott, Johnson 2014 Maui (Average Climate B) (with USGS correction)	Mair, Alan 2019 - 2017 Land Cover	Mair, Alan 2019 - 2017 Land Cover (SD RCP8.5 2071-99)	Mair, Alan 2019 - 2017 Land Cover (HRCM A1B 2080-99)	2019 SY Range	SY 2019 (7/16/19)	Kane et al, 2023 SIR 2023-5130 Baseline Recharge	Kane et al, 2023 SIR 2023-5130 Mid- Century Recharge	Kane et al, 2023 SIR 2023-5130 Dry Scenario Recharge	Kane et al, 2023 SIR 2023-5130 Wet Scenario Recharge
Honokohau	10	0.59	0.51	17	33	33.41	27.5	32.4	32.87	33.60	30.51	37.08	9 - 17	9	32.56	30.35	29.38	35.51
Honolua	8	0.42	0.44	19	25	24.08	19.06	26.9	26.43	26.78	23.31	29.01	8 - 12	8	24.06	21.44	20.63	25.65
Honokowai	8	0.62	0.44	13	26	26.51	29.07	36.4	35.86	36.18	26.68	38.25	6 - 16	6	32.6	27.34	25.46	34.27
Launiupoko	8	0.50	0.44	16	31	32.83	33.94	41.0	40.54	42.68	31.54	42.58	7 - 18	7	38.55	30.55	28.58	38.95
Olowalu	3	0.75	0.44	4	16	16.45	14.53	13.0	12.76	14.43	8.50	14.66	2 - 7	2	11.28	7.31	6.38	11.55
Ukumehame	3	0.75	0.44	4	12	13.49	13.64	13.7	13.50	15.17	5.50	14.49	2 - 6	2	11.24	5.44	3.62	10.78
				73	143.53	146.77	137.74	163.4	161.96	168.84	126.04	176.07		34	150.29	122.43	114.05	156.71
							*SIR 2012- Recharge	5010 uses 8	89 mgd recha Drizontal rech	rge for Lahair arge from di	excluded)							

KAHANA WELL REQUEST FOR DECLARATORY RULING



Kahana Well

- Request for declaratory ruling
- Purpose: to allow Kahana Well to be used for reliable capacity to serve existing uses in Lahaina, including temporary housing and rebuilding burned structures, until WUPA is acted on
- Draft request received
- To be heard by Commission on April 28

Kahana Well

For more information...

- Presentation provided by Maui DWS at Maui Recovers Lahaina Community Webinar, March 19
- Links and recording can be found on Maui Recovers website
- Slides: <u>https://drive.google.com/file/d/1997VCaelaXqoHHWvK-</u> <u>PLEAO0uuIFkX3j/view</u>
- Maui DWS presentation (timestamp 34:05): <u>https://youtu.be/d_rVkF6zmgo?si=aPiKeE5T_UCJJ6Tz&t=2045</u>

April 28 Commission Meeting

- Lahaina Civic Center and Zoom
- 9:30 a.m.
- Agenda and submittals will be posted at least 1 week in advance
- Livestream on Youtube:

https://www.youtube.com/user/dlnrcwrm/

Questions

ADDITIONAL DIAGRAMS


















