



Approval to Support Groundwater Management Area Designation of Wai'anae, O'ahu Aquifers

HHC Regular Meeting – Video Conference -- 9:30 am

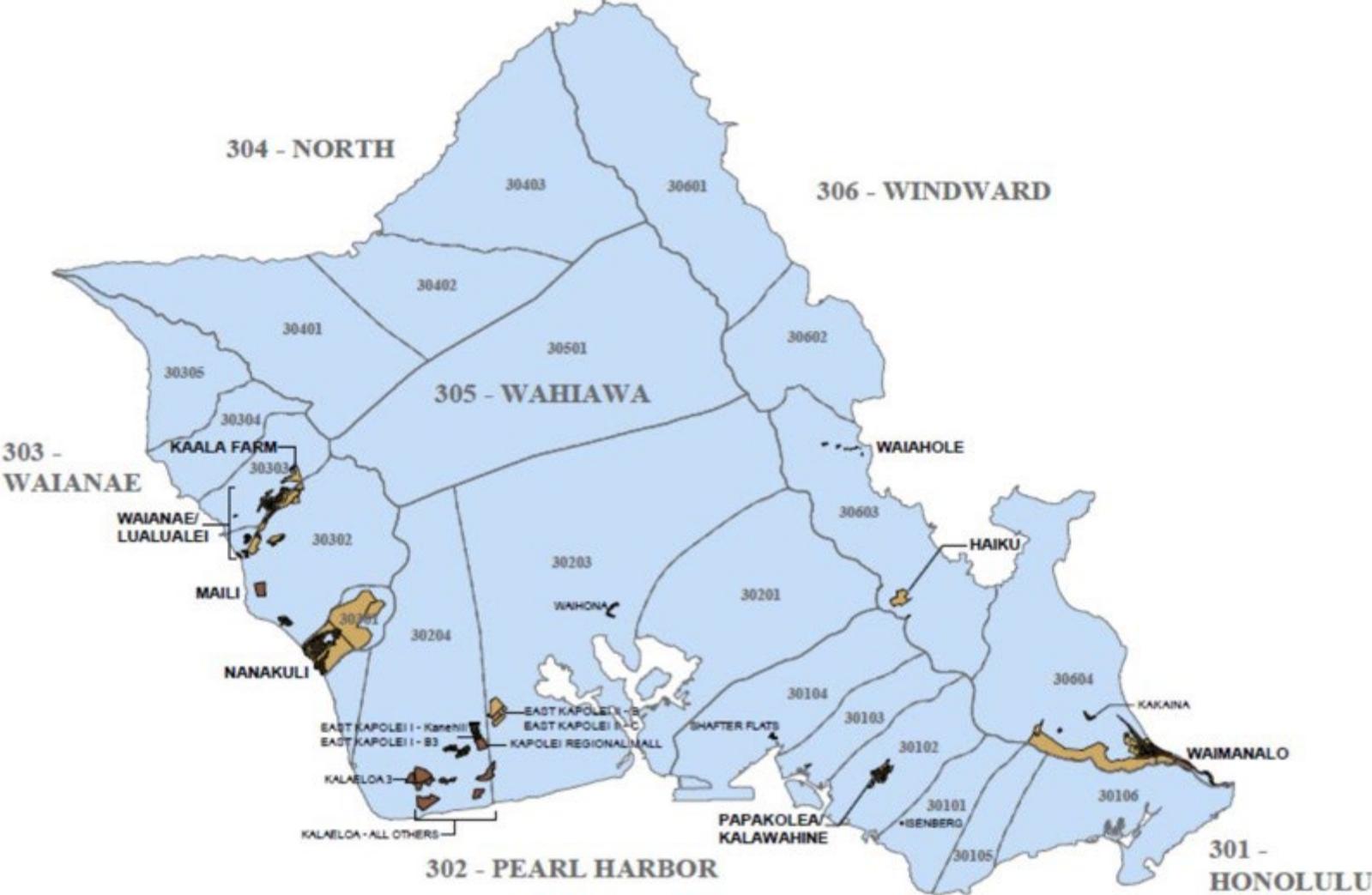
Jonathan Likeke Scheuer, Ph.D.

February 22, 2022

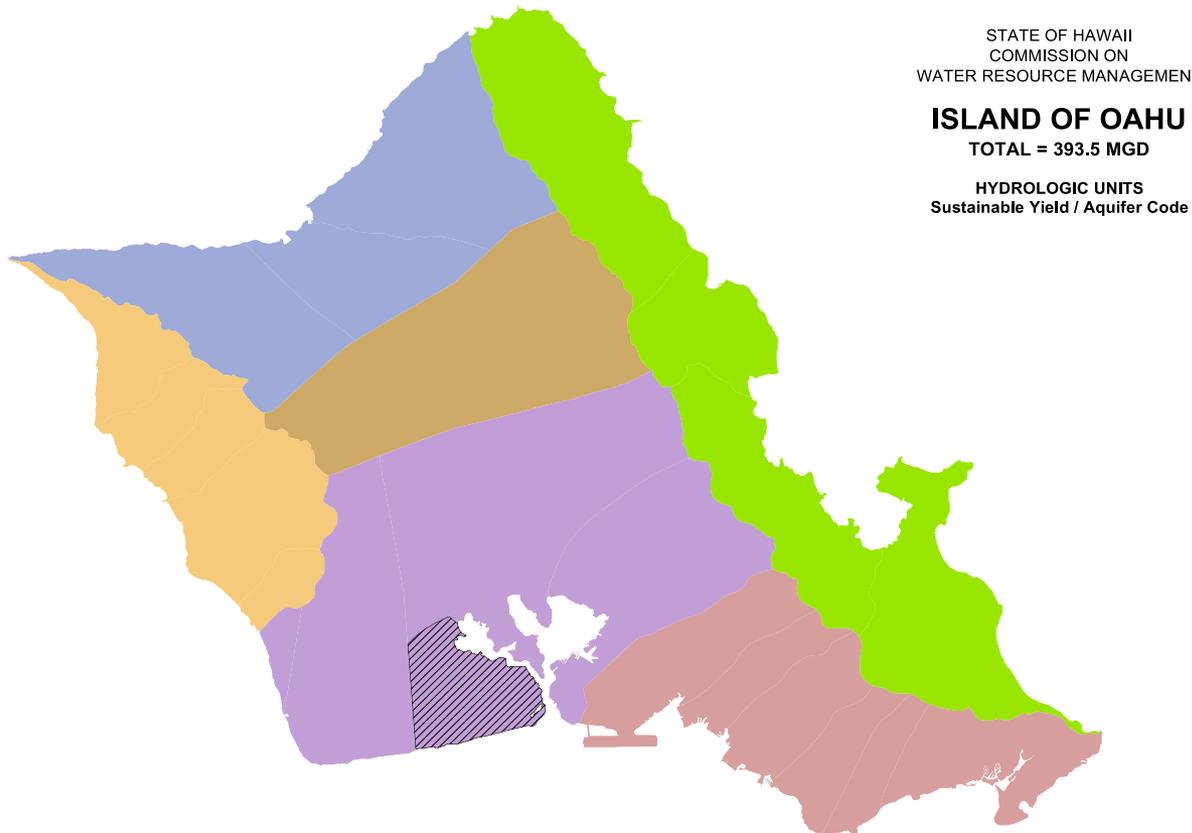
Overview

- 1. Brief review of December submittal on same issue**
- 2. Implications of Possible “Designation” of a Ground Water Management Area**
- 3. Review of possible action**

DHHL O'ahu Tracts by Aquifer



O'ahu Aquifers and Sustainable Yields



stems

Wai`anae Moku Regions, Homesteads, and Acreage

DHHL Planning Region	Homestead Communities in Region	Other Areas	Acreage
Wai`anae	Kaupuni Wai`anae Wai`anae Kai Lualualei	Mā`ili	2,472
Nānākuli	Nānākuli Princess Kahanu Estates		2,311

Unmet Water Demands by Tract, mgd

Tract	Unmet Potable Needs	Unmet Non-Potable Needs
Nānākuli	1.31	2.46
Mā'ili	0.20	0.00
Wai`anae / Lualualei	0.39	7.28*
Total	<u>1.9</u>	<u>9.74</u>

Kalo water demands



Prepared in cooperation with the Office of Hawaiian Affairs, State of Hawai'i

Water Use in Wetland Kalo Cultivation in Hawai'i



Open-File Report 2007-1157

U.S. Department of the Interior
U.S. Geological Survey

- Medium long term non-potable demands for Ka'ala Farm are 7.275 mgd
- Demand does not equal availability

Wai`anae Moku Water Reservations

§13-171-61 Department of Hawaiian home lands reservation for Honolulu and Leeward Oahu. The commission hereby reserves 1.724 million gallons per day of ground water from state lands in the Waipahu-Waiawa aquifer system for use in the Papakolea, Nanakuli, and Waianae-Lualualei Hawaiian homestead areas. This amount shall be in excess of the existing uses of water on Hawaiian home lands as of the effective date of this rule. [Eff. FEB 18 1994]

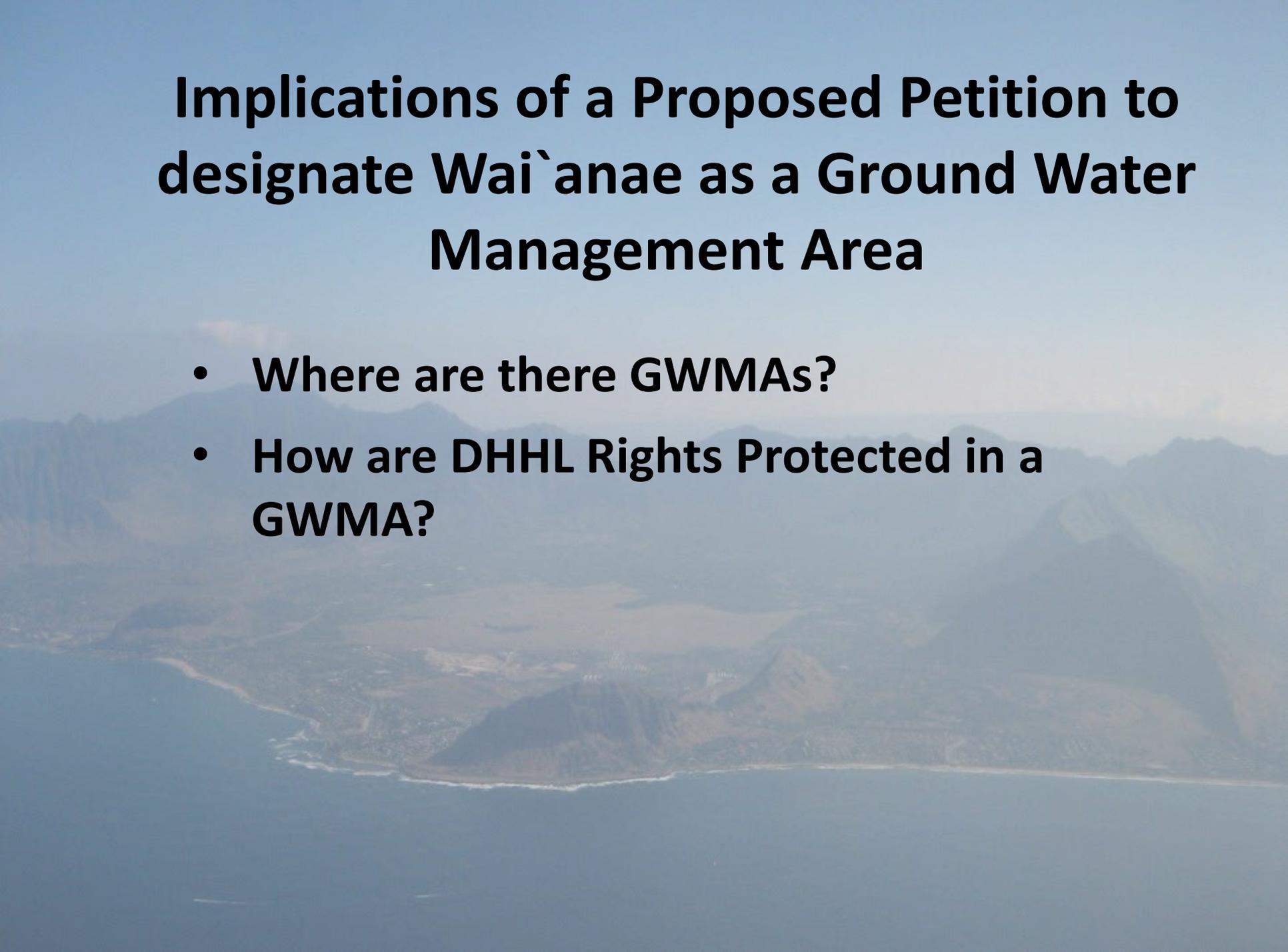
Wai`anae Moku Water Reservations

Future reservations could be in Ewa / Kunia,
Wai`anae, or a combination



Implications of a Proposed Petition to designate Wai`anae as a Ground Water Management Area

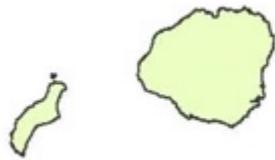
- **Where are there GWMA's?**
- **How are DHHL Rights Protected in a GWMA?**



WATER MANAGEMENT AREAS

FOR GROUND WATER ONLY

 Water Management Areas



ISLAND OF OAHU

- North Sector
- Windward Sector
- Honolulu Sector
- Pearl Harbor Sector
- Central Sector



ISLAND OF MOLOKAI

- West Sector
- Central Sector
- Northeast Sector
- Southeast Sector



ISLAND OF MAUI

- Iao System



STATE OF HAWAII
Department of Land and Natural Resources
Commission on Water Resource Management



Permits in Non-Designated vs. Designated Areas

Undesignated Areas	Designated Areas
Well Construction Permit	Well Construction Permit
Pump Installation Permit	Pump Installation Permit
	Water Use Permit*

* Water Use Permit Applications have public notice and process requirements

DHHL & Beneficiary Rights in WMAs

- The ability to secure enforceable water reservations by administrative rule
- The ability to comment on, object to, and request contested cases on the proposed water uses of other parties.
- Water Use Permits are conditioned on DHHL uses.

Proposed that the HHC

1. Acknowledge the legal benefits and protections that accrue to Department of Hawaiian Home Lands (DHHL) and its beneficiaries' water reservations and uses in designated Water Management Areas; and
2. Formally support the proposed designation of the Wai`anae Aquifer Sector Area as a Ground Water Management Area, as being proposed by the Honolulu Board of Water Supply; and
2. Authorize the Chairman to take actions as necessary to effectuate this.



Nīnau?