Approval to Support Groundwater Management Area Designation of Waiʻanae, Oʻahu 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

STATE OF HAWAII
COMMISSION ON
WATER RESOURCE MANAGEMENT

ISLAND OF OAHU
TOTAL = 393.5 MGD

HYDROLOGIC UNITS
Sustainable Yield / Aquifer Code
<table>
<thead>
<tr>
<th>DHHL Planning Region</th>
<th>Homestead Communities in Region</th>
<th>Other Areas</th>
<th>Acreage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wai`anae</td>
<td>Kaupuni Wai<code>anae Wai</code>anae Kai Lualualei</td>
<td>Mā`ili</td>
<td>2,472</td>
</tr>
<tr>
<td>Nānākuli</td>
<td>Nānākuli Princess Kahanu Estates</td>
<td></td>
<td>2,311</td>
</tr>
<tr>
<td>Tract</td>
<td>Unmet Potable Needs</td>
<td>Unmet Non-Potable Needs</td>
<td></td>
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<tr>
<td>---------------------</td>
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<td></td>
</tr>
<tr>
<td>Nānākuli</td>
<td>1.31</td>
<td>2.46</td>
<td></td>
</tr>
<tr>
<td>Mā`ili</td>
<td>0.20</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Wai`anae / Lualualei</td>
<td>0.39</td>
<td>7.28*</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td><strong>1.9</strong></td>
<td><strong>9.74</strong></td>
<td></td>
</tr>
</tbody>
</table>
Kalo water demands

- Medium long term non-potable demands for Kaʻala Farm are 7.275 mgd
- Demand does not equal availability
§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 GWMAs?
- How are DHHL Rights Protected in a GWMA?
# Permits in Non-Designated vs. Designated Areas

<table>
<thead>
<tr>
<th>Undesignated Areas</th>
<th>Designated Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Construction Permit</td>
<td>Well Construction Permit</td>
</tr>
<tr>
<td>Pump Installation Permit</td>
<td>Pump Installation Permit</td>
</tr>
<tr>
<td></td>
<td>Water Use Permit*</td>
</tr>
</tbody>
</table>

* 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.
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?