# Update on Molokai Water Projects and Issues

CARLON STATES

Hawaiian Homes Commission (HHC) Meeting (virtual & in person) Andrew Choy, Acting Planning Program Manager Jonathan Likeke Scheuer, Consultant April 18 - 19, 2022



# Moloka'i Water Projects & Issues

Since April 2022

- I. Determining Water Availability and Issuing New Water Meters
- II. Securing additional groundwater reservations
  III. Securing additional surface water reservations
  IV. Continued participation in the Molokai Water
  Use and Development Plan

## **Background: DHHL's Kualapu`u** Water Use Permit Application

Submitted October 12, 2020 **Multiple CWRM requests for additional info** Accepted as complete April 12, 2021 APPROVED June 20, 2022 **Pre-training with Ka Huli Ao for beneficiaries Extensive beneficiary support Working on implementation / meter issuance** Water Meter / Credit Management Policy **Approved November 2022 Implementation in process** 

# DHHL Ho`olehua Water System Public Water System 230



# I. Determining Water Availability

- 1990 Water Use Permit (WUP)
  - 0.367 million gallons per day (mgd) granted
  - Less than what was being used at the time
- 2021 WUP
  - 0.595 mgd granted
  - Maximum that can be reliably pumped
    - Infrastructure (pumps, tanks, pipelines)
    - Aquifer properties
    - Impacts to nearshore

# I. Determining Water Availability

- **2020 WUP Application (WUPA) based on** 
  - 2019 pumping data
  - 2019 delivery data
- 2020 WUPA Estimated following new meters

Area	Meters
Ho`olehua	13
Nā`iwa	58 (*66)
Kalama`ula Mauka	100
Subdividable lots	40
Total	211

# I. Determining Water Availability

- 2021 New "Flow Meters" installed
- New Measure of the "12 Month Moving Average" (MAV) is .513 mgd
- Result is possible 136 new meters
  - Not 211 new meters
  - 75 meters "short"
- This is consistent with long term data

#### DHHL Kauluwai Wells Pumping, 12 MAV and Permitted Amount Jan 2000 - May 2022





# I. Issuing New Meters

- Follow new meter procedures
- Refine timing of demand for new meters in Kalama`ula Mauka;
- Continue implementation of the improvements to the system;
- Continue efforts to identify non potable uses that can be shifted to either the Molokai Irrigation System or the Mountain Water System;
- No "moratorium" but follow priorities in procedures

# **II. Additional Groundwater Reservations**

COMMISSION ON WATER RESOURCE MANAGEMENT

1" = 5 MILES

ISLAND OF MOLOKAI TOTAL = 79 MGD

### June 20, 2020: DHHL requested a reservation for Ualapu`e for .855 mgd • Reservations in WMAs are by rulemaking

- CWRM asked for additional reservations
- DHHL reviewed needs for Kalama`ula, Kapa`akea, Kamiloloa, Makakupa`ia,

WAIALUA 6 MGD / 40304

Kalaupapa and Pālā`au

- Held beneficiary consultation on May 5, 2021
- HHC BC report approval July 19, 2021

#### **How Reservation are Calculated**

- HHC Land Use Designations x Relevant Standards = Reservation Request
- Ualapu`e example
  - Molokai Regional Plan approved 2.18.2020
  - Up to 175 kuleana homestead lots at Ualapu`e on 376 acres
  - MCWSS 600 gpd for single family home
  - 2,500 gad / 300 irrigable acres
  - Estimates also adjusted per SY



# **II. Additional Reservations Status**

COMMISSION ON WATER RESOURCE MANAGEMENT

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ISLAND OF MOLOKAI TOTAL = 79 MGD

- Because need > availability, < request</p>
- March 2022 CWRM meeting
  - Approval to move to rule making
  - Notable community concerns expressed
    - Additional listening and outreach needed
  - Coordinating with CWRM, County on timing
- Since April 2021: still awaiting CWRM,
   Ualapu`e Planning
- WUPA will still be needed

# III. CWRM initiated surface water reservations

- CWRM is modifying IIFS for streams diverted by the MIS and the MWS
  - MWS Wasting complaint initiated by Moloka`i Nō Ka Heke
- CWRM Staff initiated DHHL reservations related to the IIFS
  - 6.094 from Waikolu Stream
    - .15 mgd from the MWS
    - Remainder from the MIS
- Approved April 2021

# **IV. County Molokai WUDP**

- MDWS initiated MWUDP in 2021
- DHHL staff and consultant participation
- Coordination and communication w beneficiaries

Draft plan forthcoming

