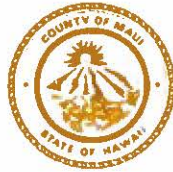


RICHARD T. BISSEN, JR.
Mayor

JOSIAH K. NISHITA
Managing Director

JOHN STUFFLEBEAN, P.E.
Director

JAMES A. LANDGRAF
Deputy Director



DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793
<http://www.mauicounty.gov/water>

October 8, 2024

Honorable Richard T. Bissen, Jr.
Mayor, County of Maui
200 South High Street
Wailuku, Hawaii 96793

APPROVED FOR TRANSMITTAL


Mayor 10-8-24
Date

For Transmittal to:

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
200 South High Street
Wailuku, Hawaii 96793

Dear Chair Kama,

SUBJECT: HOUSING SOLUTIONS (HLU-3(21))

Thank you for your letter dated October 1, 2024 and for the opportunity to comment on the above agenda item.

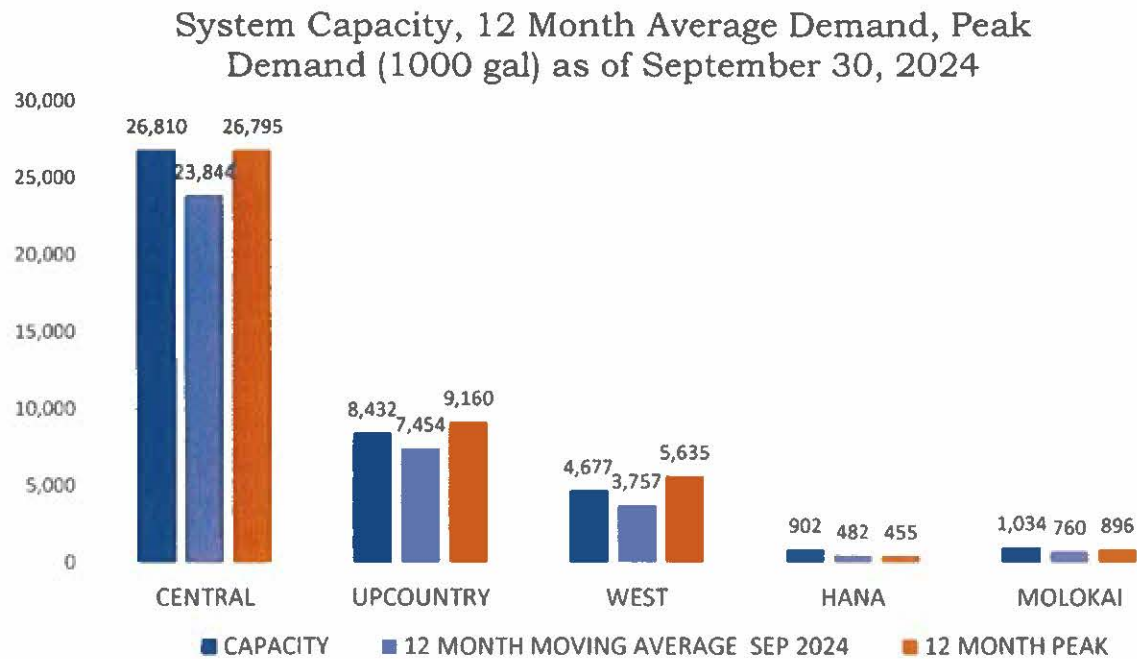
In response to your request for the Department of Water Supply's (DWS) projects to increase water availability and develop water infrastructure, this report is organized into four sections:

- A - Countywide Efforts
- B - Current activities underway to develop new water sources
- C - Current activities underway to address infrastructure needs
- D - Status of efforts to secure outside funding

"By Water All Things Find Life"

A. Countywide Efforts

Current reliable supply Countywide = 42.33 MGD (million gallons per day)
Current average daily demand Countywide = 36.29 MGD
Current peak demand = 42.94 MGD



Funding

The DWS is working with Stantec and in cooperation with countywide efforts to identify funding sources for many of the projects described below.

Watershed Protection and Restoration

Description: This activity is important for increasing the water supply in the long term. Restoring watersheds to their natural condition can increase the capture of rainfall and increase the water supply. Watershed protection activities will also ensure high quality water. The DWS allocates about 4% of its annual operations budget for watershed protection and restoration via grants to non-profits. There are currently 10 grants in progress.

Status: The grants are approved on an annual basis. The impact from this activity is expected to provide benefits in decades to come.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 3

Demand Side Water Conservation

Description: Water conservation efforts increase the supply of water available for other users. The DWS has an active and successful water conservation program that is estimated to have reduced water use per service by 24% over the last 20 years, while the number of services have increased by 22%. The recently completed Water Conservation and Shortage Plan sets a new aggressive conservation goal of 20% reduction in water use per capita (person) by year 2040 which translates to up to an additional 10 MGD.

Status: The DWS is preparing to bring to Council a water conservation ordinance to institute regulatory conservation measures. The enhanced water conservation measures will be presented to the Board of Water Supply and then to the Council this Fall.

Supply Side Water Efficiency

Description: All water systems experience water loss from leakage and theft. DWS conducts an annual water audit to quantify water and revenue losses and identify opportunities to improve water efficiency. One of the objectives of the new asset condition assessment and development of the hydraulic model, being performed by Carollo Engineers, is to enable a strategic approach to understanding where system losses are occurring and strategically addressing them.

Status: The fiscal year 2023 water audit and the condition assessment are completed and the hydraulic model is scheduled for completion this Fall. This information will be used to guide maintenance and CIP efforts going forward.

B. Current Activities Underway to Develop New Water Sources

As outlined in the monthly Water Source Development Report, DWS is currently pursuing over 30 possible new sources. They are described below.

WEST MAUI

West Maui is served by the County Water System and several private water purveyors, notably Hawaii Water Services (HWS) in Kaanapali and Kapalua, and the Launiupoko and Olowalu Water Systems in those areas.

Current reliable supply DWS West Maui System = 4.67 MGD

Current average daily demand West Maui = 3.76 MGD (post-fire), 5.63 MGD (pre-fire)

Current peak demand West Maui = 5.68 MGD (pre-fire)

In addition, the County needs to reserve 0.2 MGD for Hawaiian Homelands developments.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 4

WELLS

The Hawaii Commission on Water Resource Management (CWRM) has designated West Maui as a Groundwater Management Area. This means that new wells or additional well pumpage now require a new water use permit. The CWRM is not currently processing new water use permits.

The County currently operates 8 wells in West Maui with a reliable capacity of 2.46 MGD. The County has one well under construction (Kahana) and may have rights to a portion of the water from a well being constructed by DLNR (DHHL Honokowai Well). Other wells are in the planning stages.

Kahana Well

The contract for construction of the Kahana Well was awarded in December 2022. The well is expected to reliably deliver about 0.95 MGD. The new water use permit application classifies the well as needed as part to improve the reliable capacity for existing uses. This is not water available for new uses. The permit has not been approved by the CWRM.

Status: The current schedule calls for the well to be operational in June 2025, subject to CWRM approval of the permit.

DHHL Honokowai Well

Description: The DLNR is constructing a well for use by Hawaiian Homelands. The DWS is in discussions with DLNR to see if some capacity can be made available to the DWS.

Status: This well is under construction by DLNR and is subject to approval of a new water use permit from CWRM.

Mahinahina Well

Description: This is a back-up well

Status: Construction of the Mahinahina Well is scheduled to be completed in fiscal year 2026.

Launiupoko Wells (L-1 and L-3)

Description: The DWS 2025 CIP includes the preparatory work needed to develop two wells in the Launiupoko area. This area was chosen due to the fact that additional sustainable yield is expected to be available in this aquifer. Approval of a new water use permit will be required from the CWRM to operate these wells. The first well, L-1 with a projected capacity of 0.77 MGD will serve to offset reductions or source available at the Lahaina Water Treatment Plant due to Kanaha Stream Interim Instream Flow Standards (IIFSs) requirements. The second well, L-3 with a projected capacity of 0.43 MGD, would be available for new users.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 5

Status: Preparatory work in progress. The earliest these wells could be in operation is 2027 for L-1 and 2028 for L-3, subject to permit approval.

Honolua Wells (H-1 and H-2)

Description: The DWS 2025 CIP includes the preparatory work needed to develop two wells in the Honolua area. This area was chosen due to the fact that additional sustainable yield is expected to be available in this aquifer. Approval of new water use permits will be required from the CWRM to operate these wells. The projected capacity is 0.77 MGD each.

Status: Preparatory work in progress. The earliest these wells could be in operation is 2029, subject to permit approval.

Private Wells

Description: The DWS is working with Maui Land and Pine (MLP) and other well owners to determine if additional water can be made available to the County system.
Status: Discussions are in progress.

SURFACE WATER

The CWRM has also designated West Maui as a surface water management area and has established IIFS for the streams. IIFS determine how much water that must be allowed to flow in streams and is not available for diversion. Any water diverted from streams are subject to water use permits. CWRM has not issued any water use permits for West Maui streams to date.

Whereas well water only needs to be chlorinated prior to distribution (and in some cases additional treatment for contaminants), all surface water must be filtered and treated at a water treatment plant. On West Maui, there are two water treatment plants. The Lahaina Water Treatment Plant receives water from the Kanaha Stream. The Mahinahina Water Treatment Plant receives water from the Honokohau Ditch (which is fed mainly by the Honokohau Stream.) The water available to the two treatment plants has been reduced from past amounts due to the IIFSs and is likely to be reduced even further. Current reliable capacity of the two treatment plants is 2.22 MGD.

Honokohau Ditch

Description: The DWS has historically received about 1.42 MGD from the plantation era ditch owned by MLP and operated by HWS for treatment at the Mahinahina Water Treatment Plant. The DWS has a right to 2.5 MGD from MLP, subject to available stream flow, the IIFS, and diversions by other water purveyors. The plant has a capacity of about 2.6 MGD. The DWS is working with MLP and HWS to increase the flow to 2.5 MGD with minimal impact on other existing users. The DWS is also exploring additional storage, both tanks and reservoirs, in this area that could enable capture of high flows.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 6

Status: Discussions are in progress.

OTHER SOURCES

Honokowai Tunnel

Description: This project was brought forward for consideration by DWS from CWRM. It involves diverting water from the tunnel, which is considered as not under the influence of surface water, into the County system. The projected capacity is 0.5 MGD at an estimated cost of \$4.4 million.

Status: Planning is underway and, if this project proves feasible, could be completed by 2028.

Reductions by hotels, resorts, and golf courses

Discussion: Hotels, resorts, and golf courses are heavy water users that could potentially reduce water use. Most of these in West Maui are served by HWS.
Status: The DWS is working with HWS to develop strategies to encourage water reductions.

Acquisition of Private Water Systems

Description: The DWS is exploring the possibility of acquiring the LWC and the OWC in West Maui. While the additional source that might be available is unknown, bringing these areas into the County system would have several possible advantages, including integrated management of the expanded system and the opportunity to implement water conservation and reductions measures in new areas.

Status: The DWS is developing a request for “due diligence” proposals to assist in determining the financial, legal, and physical considerations relative to DWS acquisition of these systems.

Recycled Water to Lahaina and Kapalua

Description: The Department of Environmental Management manages the County’s recycled water program. The DWS is increasing its participation in the partnership since recycled water frees up potable water for other uses.

Status: The DWS has developed, in cooperation with Carollo Engineers, the early planning analysis for piping recycled water to Lahaina.

Desalination

Description: As the availability of both well water and stream water becomes less abundant due to less rainfall, reevaluation of sustainable yield, and increasing requirements for stream restoration, desalination becomes more attractive as an alternative. Both seawater and brackish (saltier than potable but less salty than seawater) water can be desalinated. The primary issues are the cost, driven largely by the large energy demand, and disposal of the byproduct, the residual salty water.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 7

Status: The DWS retained Brown and Caldwell Engineers to perform a preliminary evaluation of the potential for desalination on Maui. The feasibility study was completed in September and will be presented for public consideration this Fall.

UPCOUNTRY

Current reliable supply Upcountry = 8.43 MGD
Current average daily demand Upcountry = 7.45 MGD
Current peak demand Upcountry = 9.16 MGD

WELLS

The County currently operates 4 wells Upcountry with a reliable capacity of 2.23 MGD. In addition, 2 wells are available during shortage conditions bringing the reliable capacity to 3.19 MGD.

Makawao Wells

Description: Included in the FY2025 CIP is the exploratory work for up to four wells in the Makawao area. The current concept is two wells in each of two general areas with potential total yield of 1.4 MGD.

Status: Upon choosing two well sites, an Environmental Assessment will be conducted. The next phase is the design and construction of the exploratory phase followed by the well development phase. The earliest these wells could be in service is 2028.

Kealahoa Well (DLNR)

Description: The DLNR is constructing a well Upcountry.

Status: The DLNR completed the exploratory drilling phase of the project. The DWS is in the process of receiving state funding for land acquisition.

Piiholo Well (MLP)

Description: The DWS is evaluating the value of a well and associated land, all owned by MLP, that has potential as new source from Makawao aquifer.

Status: The DWS is currently analyzing the well data and assessment provided by MLP.

Kalialinui Well

Description: A private well owner has offered this well to the DWS.

Status: The DWS is currently analyzing the well data as well as the cost and benefits of connecting to the County water system.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 8

Kula 1800 Well

Description: A private well owner has offered his well to the DWS.

Status: The DWS is currently analyzing the well data as well as the cost and benefits of connecting to the County water system.

Consent Decree (Haiku Wells)

Description: In 2003, the County entered into a Consent Agreement that requires a significant amount of analysis be completed prior to develop wells in the Haiku area. Brown and Caldwell is assisting with the analysis, to be completed this Fall. The CIP project is assisting the USGS in generating a study of East Maui aquifers.

Status: The DWS has expended \$1.3 million over the past four years to meet the provisions of the Consent Decree. It is estimated that another four years will be needed to complete the work.

SURFACE WATER

Kamole Filter Replacement

Description: The filters at the Kamole Water Treatment Plant are in need of replacement. Replacing the 20-year old filters with modern filters will significantly increase the capacity of the Plant. If additional source becomes available in the EMI ditches, the Plant will be capable of treating an additional 2 MGD (up from 7 MGD to 9 MGD).

Status: The DWS is working with the filter manufacturer to schedule the filter replacement.

Kamole Raw Water Reservoir

Description: Reservoirs at the Kamole Water Treatment Plant will allow peak flows to be captured and heavy flows that are too turbid (cloudy) to be filtered at the treatment plant to be retained in the reservoirs where settling of the turbidity can occur.

Status: The DWS is working with Carollo Engineering on the planning for large reservoirs near the Kamole Water Treatment Plant and the DWS 2025 CIP includes funds for the design.

State Agricultural Line

Description: The State partially constructed a pipeline *mauka* of Upper Kula for the intended purpose of transmitting non-potable water for agricultural use.

Status: The DWS is evaluating the potential of incorporating this pipeline into the County system.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 9

OTHER ACTIVITIES

Connection to Central System

Description: Connecting water systems has many advantages, including the ability for one system to supplement the other system in times of need. Connecting the two systems could benefit the Upcountry system by allowing water to be moved temporarily from Central Maui in droughts.

Status: The DWS is working with Carollo Engineers to evaluate the cost and benefits of this interconnection.

CENTRAL AND SOUTH MAUI

Current reliable supply Central and South Maui = 26.81 MGD

Current average daily demand Central and South Maui = 23.84 MGD

Current peak demand Central and South Maui = 26.80 MGD

One interconnected water system serves Central and South Maui. There are five small private water systems in these areas. The water sources are mostly wells in the northwest region of this area and the Iao Water Treatment Plant.

WELLS

The central/south area is served by 19 wells.

Waiehu Heights Well

Description: This project is a replacement well. No additional source will be developed.

Status: This well is currently in the development phase.

Waihee Well

Description: The 2025 CIP includes the initial phase of developing a new well in the Waihee area.

Status: This well will be constructed by fiscal year 2028 and will add new source.

SURFACE WATER

Iao Water Treatment Plant turbidity mitigation

Description: In high ditch flow, turbidity (cloudy water) prevents the treatment plant from fully utilizing the water allocation from Wailuku River as it would damage the filters. Pre-filtration improvements at the plant can allow additional water to be filtered during high turbidity events.

Status: The DWS is exploring adding coagulant at the Iao Treatment Plant.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 10

Recycled Water

Description: The Department of Environmental Management manages the County's recycled water program. The DWS is increasing its participation in the partnership since recycled water frees up potable water for other uses.

Status: The DWS is coordinating with DEM on expansion of the recycled water systems at the Kihei and Kahului Wastewater Treatment Plants.

Desalination

Description: As the availability of both well water and stream water becomes less abundant due to less rainfall, reevaluation of sustainable yield, and legal challenges to access available well water, desalination becomes more attractive as an alternative. Both seawater and brackish (saltier than potable but less salty than seawater) water can be desalinated. The primary issues are the cost, driven largely by the large energy demand, and disposal of the byproduct, the residual salty water.

Status: The DWS retained Brown and Caldwell Engineers to perform a preliminary evaluation of the potential for desalination on Maui. The feasibility study was completed in September and will be presented for public consideration this Fall.

HANA

Current reliable supply Hana = 0.90 MGD

Current average daily demand Hana = 0.48 MGD

The County operates 6 wells in the water system for Keanae and a portion of Hana and a private water company operates the system for the remainder of the Hana area. The DWS is in discussions with the private owner about possible acquisition by the County. There is no need for additional water sources in this area.

MOLOKAI

Current reliable supply Molokai = 1.34 MGD

Current average daily demand Molokai = 0.76 MGD

Current peak demand Molokai = 0.89 MGD

Molokai is served by 5 County wells and several other water systems.

Kalae Well

Description: The Molokai CIP project includes back-up wells as well as a new Kalae well that will be a new source.

Status: The hydrogeologic study is ongoing for the new Kalae well. Exploratory development and design of the well is budgeted fiscal year 2026.

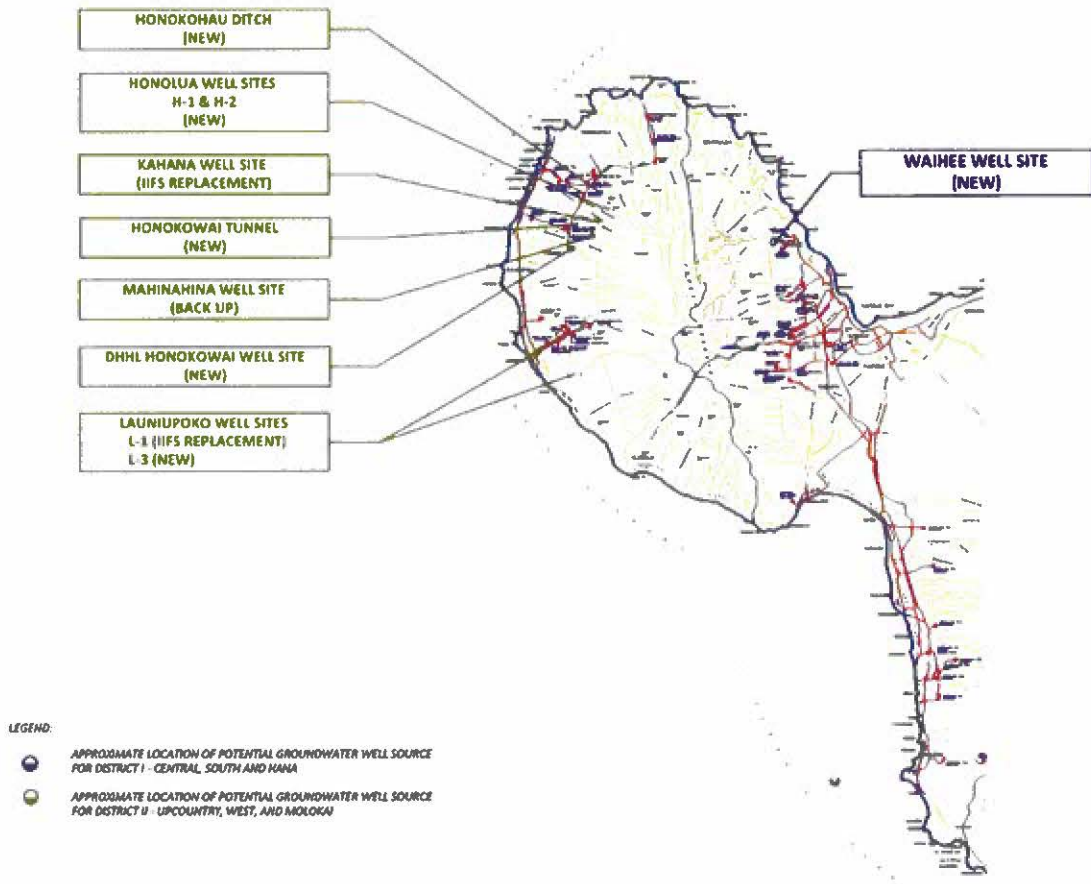
LANAI

Lanai is served by a private water company.

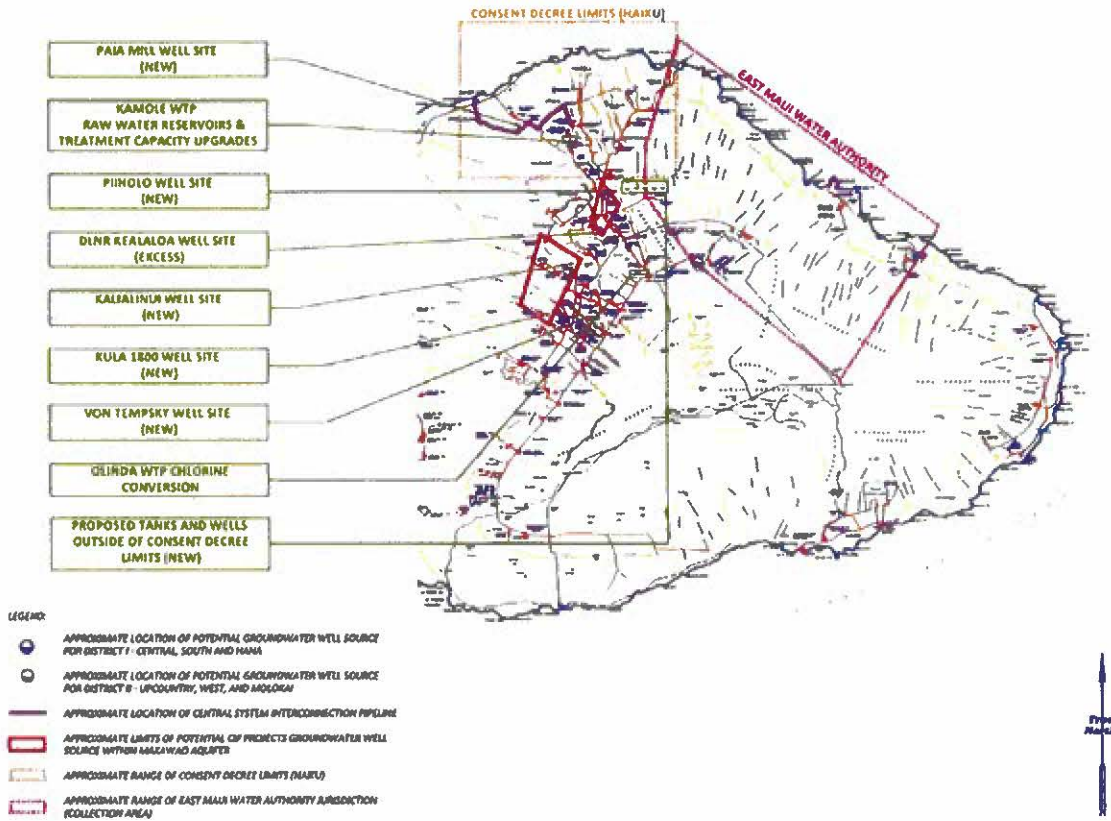
Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 11

The previously discussed source development projects are located on the following maps:

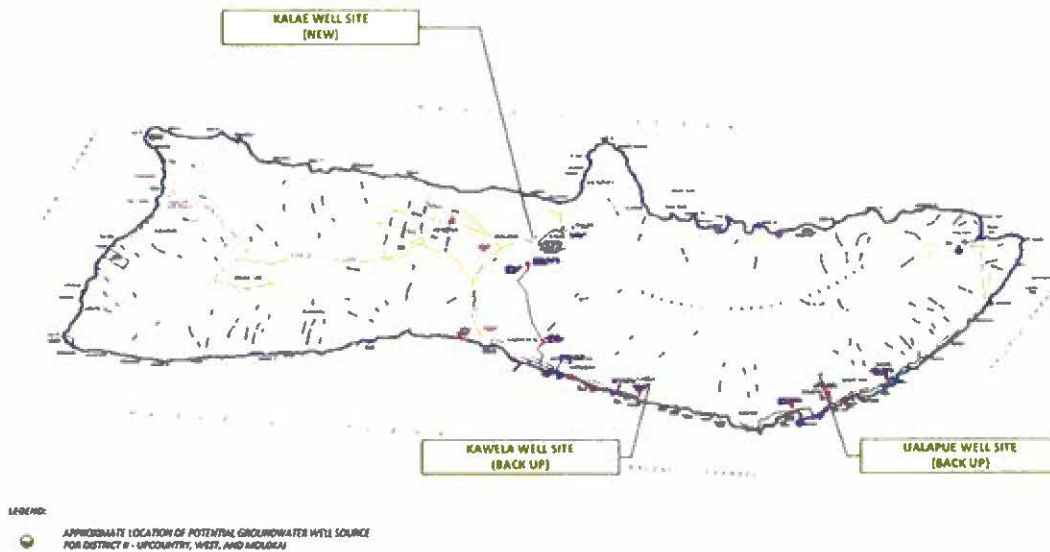
MAUI WATER SYSTEM POTENTIAL WATER SOURCE DEVELOPMENT WEST AND CENTRAL



**MAUI WATER SYSTEM POTENTIAL WATER SOURCE DEVELOPMENT
 UPCOUNTRY**



MOLOKAI WATER SYSTEM POTENTIAL WATER SOURCE DEVELOPMENT



C. Current activities underway to address infrastructure needs

The water infrastructure is maintained and developed by the County DWS operations workforce and large new projects are implemented in the Capital Improvement Program (CIP).

The efforts and accomplishments of the DWS crews are reported each month in the Monthly Report. The DWS crews are comprised of 197 staff members. An example of their work for September is described below.

Water Treatment Plant Division

Olinda Water Treatment Facility
2.81 Million Gallons / 0.09 MGD

- Plant offline – Phase 6 pumping.
- Clearwell effluent turbidity trending upward – extended standby with low demand and turnover contributing to excess lime precipitation in clearwell. Operational changes being made to mitigate issue.
- DOH staff conduct routine Sanitary Survey of WTP, reservoirs, and flume facilities (9/24).

- Waikomoï flume intake box modifications complete in preparation for install of OTT Hydromet PLS-500 flow measurement utilizing existing weir design for accurate reporting.
- Staff conducted monthly dam/reservoir inspections of Olinda, Kahakapao, and Waikamoï reservoirs – no issues observed.

Piiholo Water Treatment Facility

82.71 Million Gallons / 2.76 MGD

- Intake #1 bypass opened due to increase in organic load in raw water.
- GAC pump #3 offline – VFD failure, order in process
- Onsite hypochlorite generator system repairs – faulty electrolytic cell replaced, faulty level sensor in day tank replaced.
- Staff conducted monthly dam/reservoir inspection of 50 MG raw water reservoir – no issues observed.

Kamole Water Treatment Facility

82.71 Million Gallons / 2.76 MGD

- Routine reactive maintenance on filtration units:
 - CMF #3 pinning repairs
 - CMF #8 AV-16 valve, actuator, and positioner replaced
- Memcor (Dupont) pilot plant commissioned and operational (9/9), engineer onsite for first week. Data logging and remote operation setup for system monitoring.

Iao Water Treatment Facility

79.48 Million Gallons / 2.65 MGD

- Plant production maintained at target 3.0 MGD.
- 1 process interruption/shutdown due to raw influent turbidity event (9/16)
- Wailuku Water Company (WWC) performing routine ditch cleaning – plant offline 9/30

Lahaina Water Treatment Facility

29.66 Million Gallons / 0.99 MGD

- Continued operation below capacity due to reduced demand.
- Routine reactive maintenance on filtration units:
 - CMF #5 turbidity spike – analyzer line flushed, corrected.
 - CMF #1 backwash alarm – AV-15 valve/actuator replaced.
 - CMF #10 AV-10 solenoid malfunction – Coil replaced.
- MECO planned outage (9/10-9/13) Generator automatic transfer switch issues – electricians troubleshooting and coordinating with manufacturer (Caterpillar) on repairs.
- Facility controls PLC card failure (9/18) – plant offline and SCADA frozen. Electronic techs replace faulty card and operators return system

to normal operation. CIP facility controls upgrade moved to highest priority.

- Screen box and sedimentation basins cleaned. Screen box reported to have significant leakage and will need repairs.

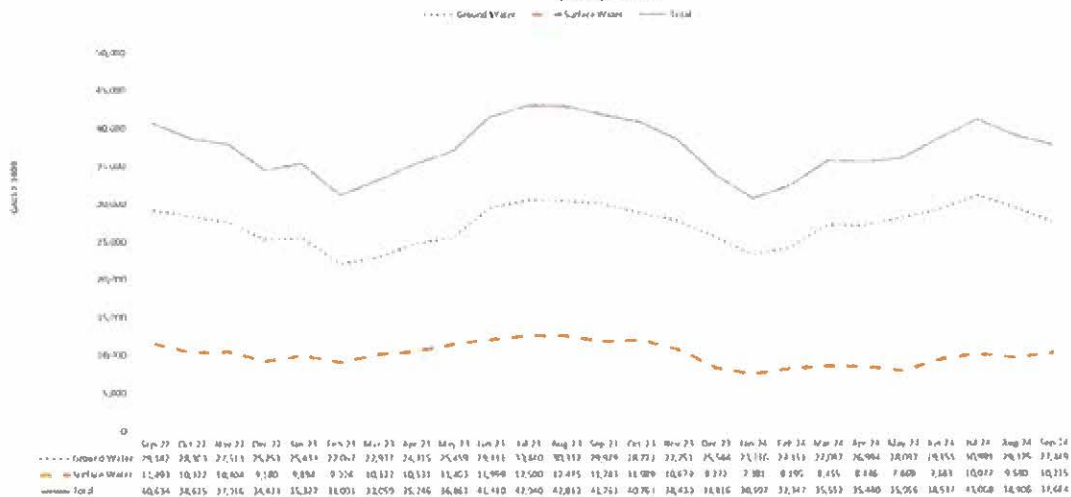
Mahinahina Water Treatment Facility

29.67 Million Gallons / 0.99 MGD

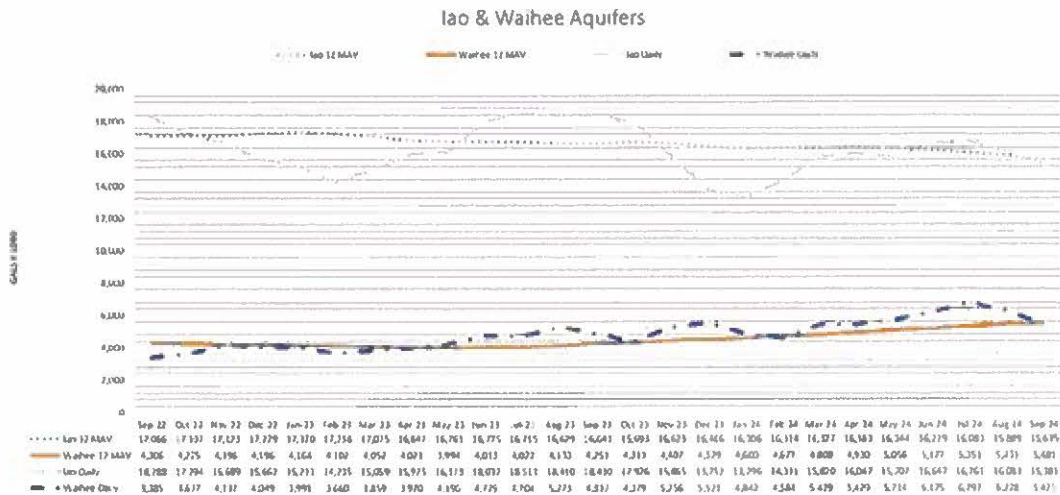
- Installation of upgraded uninterruptable power supply units.
- TriMax onsite – troubleshooting new automated controls systems. Start/Stop/E-Stop buttons added to SCADA. Miscellaneous programming fixes.
- Ultraviolet disinfection reactor bulbs replaced on Filters 1 & 3, Filters 2 & 4 on standby for correct bulbs to be sent by manufacturer. Existing bulbs approaching out of specification – monthly calibration verification performed 9/30
- Staff conducted monthly dam/reservoir inspection – no issues observed, valve closed after storm to mitigate dirty water entering reservoir.

Plant Operations Division

DWS 3 Year Total Production
 (Daily Ave.)



Honorable Tasha Kama, Chair
 Housing and Land Use Committee
 Maui County Council
 October 8, 2024
 Page 16



On-going Projects/Issues Etc.

- Makawao phase 10 CIP electrical/SCADA upgrade project on-going.
- Johnson Controls for Maui County’s energy project on-going, completing base yard lighting.
- Emergency Wildfire response special water quality chemistry sampling with assistance / guidance of DOH SDWB and EPA Region 9.
- Well site maintenance
- Upper Kula DOH sanitary survey
- Mokuhaul wells fitted hydro pressure tank and pump for constant pressure to OSG inlet
- Assist pressure testing of all Phase 10 booster force mains to prepare for cip upgrades.
- Kanoa 2 OSG replaced system rectifier air conditioner
- Testing next generation Scada-Pack remote terminal units / system

Acronyms

- CIP - Capital Improvement Project
- DOH - State of Hawaii, Department of Health
- EPA - United States Environmental Protection Agency
- OSG - On site generation (liquid chlorine)
- SDWB - DOH Safe Drinking Water Branch
- SCADA - Supervisory Control and Data Acquisition
- UPS - Uninterruptible Power Supply
- UV - Ultraviolet treatment
- VFD - Variable Frequency Drive
- WTP - Water Treatment Plant

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 17

Backflow & Cross-Connection Section

Final Inspections (Backflow tests Completed) : 36 completed

- Test RPBP (Reduced Pressure Backflow Preventer) at 4320 Waha Pl., Haiku
- Test RPBP at N. Holokai Rd., Haiku
- Test RPBP at 208 Luakaha Cir., Kihei
- Test RPBP at Kilo Hana Temp. Housing, Lahaina
- Test DCDA (Double Check Detector Assembly) (2) at Kilo Hana Temp. Housing, Lahaina

Annual Test Notices

Test due notices sent: 269 letters mailed

Delinquent test due notices: 200 (Kahului district) letters mailed

Ongoing Projects

Field surveys: 91

Safety meetings: 1

Monitoring of Temporary Construction Meters:

(18 in use) (All TCM's have a backflow preventer)

1-Hana, 5-Central, 5-Upcountry, 7- Lahaina

Electronics, Mechanical, and Electrical Sections

Completed Repairs, Projects, Installations, General Maintenance etc.:

	Electronics	Mechanical	Electrical
Central	34	51	7
Upcountry	13	15	2
Lahaina-Napili	7	322	4
Molokai	0	0	1
Hana	2	13	2
Surface Water Treatment Plants	9	n/a	3
Preventive Maintenance	16	10	5
Safety Meetings	1	1	1

Field Operations Division
Monthly Report – Sept. 2024
Consumer Complaints

Section:	During the Day	After Hours	Total
Central Maintenance	55	16	71
Construction	1	0	1
Hana Maintenance	9	6	15
Lahaina Maintenance	25	2	27
Molokai Maintenance	7	6	13
Support Service	7	4	11
Upcountry Maintenance	53	32	85
	157	66	223

CENTRAL MAINTENANCE

Responded to	55	Complaints during regular working hours
Responded to	16	After hour consumer complaints
Completed	97	Field Activities
Replaced	97	defective meter
Replaced	97	defective transponder
Completed	15	Job Orders
Completed	0	Agricultural Inspections
Completed	1	Tap
Completed	1	Tap inspections
Replace/repared	118	Gate valve/stops/CI box
Responded to	6	Shut/Open meter complaints
Responded to	3	High/Low pressure complaints
Responded to	2	No water complaints
Responded to	2	Dirty water complaints
Repaired	1	Hydrants/Standpipes
Replaced	23,560 feet	3/4-inch Copper pipe
Replaced	4,200 feet	1-inch Copper pipe
Replaced	880 feet	1 1/4-inch Copper pipe
Replaced	210 feet	1 1/2-inch Copper pipe
Replaced	30 feet	2-inch Copper pipe
Repaired	6	Main lines
Repaired	21	Leaking meters
Repaired	1	Leaking service laterals
Replaced	47	Leaking service laterals
Installed	1	New service lateral

Leak detection	3
Patched sinking roads	
Marked out patch for paving list	
Checked patches from paving list that was down by contractors	
Located water lines and water valves	
Tank SCADA night-time calls	
Tank maintenance scheduling	
Flushing crew assisting in the Lahaina area	
Utility locate request at all excavations	

UPCOUNTRY MAINTENANCE

Responded to	44	Complaints during regular working hours
Responded to	34	After hour consumer complaints
Completed	3	Field Activities
Replaced	3	defective meter
Replaced	3	defective transponder
Completed	1	Job Orders
Completed	3	Agricultural Inspections
Responded to	6	Private leaks.
Responded to	6	close/open water.
Responded to	7	high/low pressure complaints.
Responded to	13	miscellaneous calls.
Responded to	8	no leaks found.
Responded to	2	dirty water complaint.
Repaired	4	meter leak.
Repaired	3	Standpipe/hydrants.
Replaced	3 ft	3/4-inch service laterals
Replaced	39 ft	1-inch service laterals
Replaced	15 ft	1-1/4-inch service lateral.
Repaired	1	3/4-inch service lateral.
Repaired	13	1-inch service lateral.
Repaired	3	1-1/4-inch service lateral.
Repaired	6	1-1/2-inch service lateral.
Repaired	1	4-inch large main line.
Repaired	12	2-inch large main line.
Replaced	20 ft	2-inch small main line.
Replaced	4 ft	2-1/2-inch small main line.

Replaced	10 ft	large main line.
Repaired/Replaced 2-inch PE and 2-1/2 small mainline, 4-inch CI, 4-inch PVC large mains.		

CONSTRUCTION

Responded to	3	Complaints during regular working hours
Responded to	0	After hour consumer complaints
Completed	5	Field Activities
Replaced	2	defective meter
Replaced	2	defective transponder
Upgraded	1	meter
Reinstalled	1	meter
Removed	1	meter
Completed	1	Agricultural Inspections
Repaired	2	4-inch main line.
LCRR Project - Paukukalo, Waiehu Terrace		
Lahaina and Waipuka tank - removed and capped all tie-ins and portable pumps from site.		
Wahikuli tank - exposed 16-inch mainline for reduced section.		
Waiohuli tank - repaired and replaced chain-link fence.		
Olinda Rd. - tapped an installed new 2-inch copper service and tie-in to existing 2-inch mainline.		

HANA MAINTENANCE

Responded to	7	Complaints during regular working hours
Responded to	4	After hour consumer complaints
Completed	10	Field Activities
Reading	4	get/verify
Replaced	8	defective meter
Replaced	8	defective transponder
Repaired	1	1-1/2-inch service lateral
Repaired	1	2-inch mainline
Repaired	4	4-inch PE mainline
Hana update meter/badger read into system		
Kaupo to Keanae - Read 540 meters.		
Makapipi - picked up monthly meter readings.		
Hamoa, Keanae, Koali, Nahiku - Tank maintenance.		

Hamao, Wakiu, Nahiku, Keanae - Topped off chlorine weekly.
Hamao, Wakiu, Nahiku, Makapipi - monthly well samples.

LAHAINA MAINTENANCE

Responded to	29	Complaints during regular working hours
Responded to	2	After hour consumer complaints
Completed	40	Field Activities
Replaced	32	defective meters
Replaced	36	defective transponder
Replaced	3	CI meter box covers
Replaced	9	Plastic meter boxes
Removed	2	meters
Tested	1	meter found it working properly
Completed	0	Job Orders
Completed	0	Agricultural Inspections
Responded to	3	no water
Responded to	1	shut/open water request
Responded to	9	leaking meter complaints
Responded to	1	hydrant complaints
Responded to	3	low/high pressure complaint
Responded to	8	leaking service complaints
Repaired	1	mainline leak
Repaired	3	leaking service
Replaced	20 ft	1 1/4" service with copper pipe
Replaced	70 ft	1" service with copper pipe
Replaced	4 ft	12-inch mainline with DI pipe
Replaced	100 ft	2-inch PE pipe on Honokohau transmission line
Replaced	4	service laterals
Replaced	14	plastic valve boxes
Replaced	2	CI meter covers with plastic covers
Replaced	1	12-inch gate valve
Replaced	1	1-1/4-inch ball valve
Replaced	8	1-inch ball valve
Replaced	8	3/4-inch ball valve
Replaced	1	hydrant
Replaced	1	24-inch SVB bottom
Replaced	1	10-inch SVB top

Repaired	7	leaking meters
Installed	1	12-inch macro coupling
Checked flow meters on Honokohau transmission line		
Put Honokohau on bypass and bled air from system		
Honokohau system checks		
Baseyard maintenance		

MOLOKAI MAINTENANCE

Responded to	12	Complaints during regular working hours
Responded to	2	After hour consumer complaints
Completed	12	Field Activities
Closed	1	stop corp
Upgrade	1	meters
Reading	10	get/verify reading for Fiscal
Read	1657	meters
Repaired	1	2-inch mainline
Repaired	2	1-inch service line
Testing and samples	Kualapuu Well, Kawela Well, and Ualapue Well.	
Chlorine readings from Kualapuu Tank, Waikalae Tank, Kalae standpipe 2, Kaunakakai 1-million-gallon tank, old fire station, One Ali'i, Kamiloloa Booster, Kawela Well/Pump, St. Joseph Church, Ualapue Well/Booster/Tank, Hydrants 107, 52, 22, 117.		
Tank maintenance at Kualapuu Well, Waikalae Tank, Kaunakakai Tank, Kamiloloa Booster/Well, Kawela Well, Kanoa Tank, Ualapue Well/Tank.		
Hydrant maintenance		
Town Area	32	
West Side	24	

METER SHOP

Completed	83	Field Activities
Replaced	49	defective meters
Replaced	78	defective transponder
Tested	1	meters found them all working properly
Installed	1	construction meter
Replaced	2	plastic meter box/cover

VALVE CREW

Checked/adjusted valve	8	sites
Checked on controls at	8	sites
Drained	0	sites
Checked	4	recorders
Installed	2	recorders
Checked tank levels at	0	sites
Serviced	6	valves at various sited

HYDRANT MAINTENANCE

Raised	0	valve boxes
Repaired	0	warthead
Rebuilt	0	hydrants/stand pipes
Repaired	0	hydrants/stand pipes
Serviced/painted	0	hydrants/stand pipes
Cut and threaded	0	hydrants/stand pipes
Serviced	0	valves at various sited

MECHANIC SHOP

Worked on	30	vehicles
Serviced	8	vehicles
Completed	6	break jobs
Responded to	3	trouble calls
Completed	6	PUC inspections
Working on Piiholo generator injectors.		
Rear end swap on CM 1336.		
Replaced brakes on trailer 199.		

CARPENTERS

Sanitary Survey
Nahiku Tank repairs

WELDER

Trailer 104 general repairs
Holomakani gate repairs
Sanitary survey.

WAREHOUSE

Issue items and materials.
Create requisitions to ensure proper accountability.
Process requisitions into the IFAS date base.
Create a batch proof of the orders ensure all coding and information is correct.
Cycle count all DWS warehouse,
Process cycle count inventory, investigate and correct errors, and record errors.
Re-stock materials.
Create informal bids up to \$25,000.00.
Create bid/requisition for employee shirts, meters, and endpoints.
Receive orders from freight forwarder and or pick up will call orders.
Stock/Restock products using FIFO (first in, first out) method.
Receive phone in orders and inquires.
Ship and transfer orders to another districts warehouse.
Issue PPE, uniforms, notify Safety Office when items need to be re-ordered.

Capital Improvement Program

In addition to field operations, the Capital Improvement Program, administered by the Engineering Division, implements projects for source development, infrastructure renovation, and infrastructure development. These projects are reported to Council in the annual budget process. A summary of the infrastructure projects included in the six-year CIP is described below.

Construction Projects in Progress:

- West Maui Source Dev. - Kahana Well Development – Construction (65% complete)
 - RFIs on-going.
 - Continued waterline installation and work at tank site and well site.
 - Foundations “poured” for the 500,000 Gal and 30,000 Gal Stainless Steel water tanks
- Pookela Well “B” Development Construction (100% complete-no change)
 - Awaiting contractor to submit “Final Acceptance” and final invoice and AIS certifications are needed from the Gen. Contractor.
- Phase 10 Pump Station Upgrades (95% Complete)
 - Anticipated completion – Dec 2024
 - Pookela BP Station – 95%
 - Maluhia BP Station – 95%

- Contractor to chlorinate and tie-in new piping to existing connections.
- West Olinda BP Station – 90%
 - Contractor to chlorinate and tie-in new piping to existing connections.
- Wailuku Waterline Replacement (95% complete)
 - Pipeline installation work is continuing with little disruption.
 - Contractor (Hawaiian Dredging) ahead of schedule –
 - Anticipated Completion – October 31, 2024
 - DWS & DPW in collaboration on the street paving and cost share.
- Waiehu Heights Well 1 Replacement - Exploratory Drilling (100% complete)
 - “Well Completion Report” submitted to State Dept. of Health-Safe Drinking Water Branch and State Commission of Water Resource Management (CWRM).
 - Consultant contract for Design-Development phase was executed.
 - NTP: Oct. 1, 2024
- Kanoa Well No. 1 Site Motor Control Center and Electrical Upgrade (no change)
 - Contractor waiting on MCC cabinets and electrical components to perform electrical work – ETA for delivery of the MCC updated: Sept. 2024.
- 5th Floor Renovation Project
 - Preparing Design/Build Bid documents
 - Field Opts to begin demolition and carpet removal in October.
 - tentative Bid Advertise Date: Oct 2024.
- Koali Motor Control Center and Electrical Upgrades (no change)
 - Awaiting SHPD response to full-time monitor vs. “as-needed” Monitoring”.
- Olinda Water Treatment Plant Sludge Basin Underdrain Replacement *In-House Design*
 - This repair work is tentatively scheduled for October for the Field Operation Division to perform.
- Haiku-Kauhikoa Well Tank Replacement (received \$1.5 M EPA Earmark Funding)
 - Submitted environmental documents (Original EA & EA Exemption) to EPA to fulfill NEPA requirements;
 - Project to meet BABA & AIS requirements – revised bid costs did not exceed 25%.
 - Stantec assisting in the Application process to receive the grant award from EPA.
 - Budget amendment will be required.

- Olinda Water Treatment Plant 3-MG Steel Clearwell Tank Roof Refurbishment (45% complete)
 - Temporary Tank erection near completion and will be ready for filling & chlorination.
 - Contractor has prepped for tie-in tank bypass waterline. (re-scheduled for early October).
 - Project to be put on hold (Stop Work Order) to utilize the full raw water reservoirs.
- NEW CIP PROJECT – County-Wide Steel Tank Repairs (no change)
 - Working with Bower+Kubota to prepare IFB (Invitation For Bid) Bid Documents.
 - Tentative Bid advertisement Date: Mid-Oct 2024

Construction Projects completed in FY2023 (as of 8/31/2024):

- Kaupakalua Well & Booster Pump Motor Control Center and Electrical Upgrades
- Waichu Heights Well 1 Replacement - Exploratory Phase

Design Projects in Process:

- NEW CIP PROJECT – 25-04 Napili Well 'A - GAC Vessel Replacement
 - Qualification Based Selection completed and Request for Proposal (RFP) will be sent to consultant in early October.
 - Project has potential grant funding thru EPA's PFAS funding program.
- NEW CIP PROJECT – 25-02A & B Ualapu'e & Kawela Back-up Wells (Molokai)
 - Grant amount requested: \$125,000. – received "Notice of Obligation" from USDA for design fees.
 - Potential for additional USDA-RD funding for construction costs.
 - Received Fee Proposal from consultant – Amt: \$919,800.
- Makawao Aquifer Source Development (Well Siting & EA) CIP No. 24-21
 - Consultant (Fukunaga & Assoc.) contract executed and "Notice to Proceed" date October 15, 2024.
- Launiupoko Aquifer Source Development – Exploratory Drilling (no change)
 - Draft EA Submittal – Updated Deadline: November 2024
 - Subconsultants (Cultural & Archeological)re-inspection well site L-3
 - Based in the new L-3 well hole location to accommodate an existing large boulder with petroglyphs that is to remain in place and undisturbed.

- Engineering Consultant has prepared and provided new site plan for this change and submitted an “additional Services” proposal.
 - Contract amendment executed.
- Waihee Aquifer Source Development – Exploratory Drilling (no change)
 - EPM is scheduled to meet with Hydro-Geologist Consultant (for both parties) and Land Owner Representative to determine next “Course of Action”.
- Dam Safety Projects - Olinda WTP & Piiholo WTP Reservoirs (no change)
 - Consultant continues to address DLNR Dam Safety matters at Piiholo WTP Raw Water Reservoir (50-MG).
 - Participated in Technical Assistance (TA) meeting with USACE and DLNR-Dam Safety and COM-DPW to further define the scope of work for USACE-TA addressing DLNR requirements on Dam Seismic and Stability analyses.
- Waipuka Wells Motor Control Center and Electrical Upgrade (no change)
 - Design 100% complete – Bldg. Permit application submitted via MAPPS – June 1, 2023. Waiting on Building permit approval.
 - Bid Advertise postponed until Federal funding is determined.
 - Proposed funding included in FY 2025 CIP Budget and is a project submitted for Federal Appropriations FY 2025.
 - Project to include permanent emergency generators (2).
- Kanaha Wells and Booster Pump Motor Control Center and Electrical Upgrade (no change)
 - Design 95% complete
 - Bid Advertise postponed till until Federal funding is determined.
 - Proposed funding included in FY 2025 CIP Budget and is a project submitted for Federal Appropriations FY 2025.
- North Kihei Road Waterline Replacement *In-House Design* (no change)
 - Design 100% - on hold until funded.
 - Construction Funding shifted to FY 2026
 - Need to submit H-DOT ROW permit upon Low Bid Contractor.
- Old Wailuku Heights Tank Replacement *In-House Design* (no change)
 - Design 20% complete
 - On hold till funded
 - Construction Funding shifted to FY 2026
- Holomakani Tank Replacement *In-House Design* (no change)
 - Design 40% complete
 - On hold till funded
 - Construction Funding shifted to FY 2026
- Upper Kula Transmission Improvements
 - DWS CIP will be pursuing potential Federal Funding from FEMA & US Army Corps of Engineers (USACE) for the construction phase.
 - Participated in Status update meeting.

- 60% Construction Document Submittal (received) – 8/30/2024
 - 90% Construction Document Submittal – 12/16/2024
 - Government Review – 12/17/2024 to 1/27/2024
 - Bid Document Submittal - 4/4/2025
- Project for Federal Funding Grant (FEMA-HMGP – Hazard Mitigation Grant Program).
 - Stantec working on HMGP Application for this project.
- Lead and Copper Rule Revisions
 - Consultant (HDR & Brown & Caldwell) continues to inventory of waterline service laterals along with DWS Field Operation Division.
 - Deadline for the “Initial Water Service Lateral inventory” is October 16, 2024.
- Kawaipuna Place (Lower Main-Wailuku) Waterline Replacement (in-house design – no change)
 - Project ready to be bid out in early October 2024.
- Keanini Street (Hana Town) Waterline Replacement (in-house design – no change)
 - Work will require State & County Roadway permits once plans complete.
 - Waterline design and construction plans being prepared in-house – 100% complete.
 - Waterline Replacement Plans to ready to Bid in early October 2024.
 - DWS has been coordinating with DPW on street paving schedule related to project.
- Kula Ag Park Booster Pump Station Relocation & UpCountry Maui Ag Park (UMAP) –
 - DWS is leading the coordination with COM-Dept of Agriculture and Mayor’s CIP Coordinator on these 2 projects.
 - Park Booster Pump Station Relocation project is out to bid.
 - Bid Closing date: Friday, October 11, 2024
 - Next meeting: Oct 22, 2024.
- West Maui Water System Analysis
 - Lahaina and West Maui water system complete.
 - Hydraulic Model suggests up-sizing some distribution piping & additional tank storage to address fire protection demands.
 - Consultant has requested well & booster pump curves to input into models.
 - Consultant doing on-going field comparisons and calibrations to model.
- UpCountry Maui Water System Analysis
 - Field calibration and asset inventory completed.
 - Consultant has requested well & booster pump curves to input into models.

- Central Maui Water System Analysis
 - Combined with above
- Waiko Road (Waikapu) Waterline Replacement / Sanitary Sewerline Improvements (DEM-DWS CIP Joint project) – (no change)
 - Ongoing coordination with consultant and DEM
 - Intent: Waterline/Sewerline Plans to be bid together.
 - DWS/DEM CIP Funding to be in FY 2025/2026 Budget.
- Capital Improvement Program – Project Management – Engineering Services
 - Need to meet with EPM & Consultant to delegate CIP projects to B+K.
- NEW CIP PROJECT – County-Wide Steel Tank Repairs
 - Working with Bower+Kubota on IFB (Invitation For Bid) Bid Documents.
 - Tentative Bid advertisement Date: End October 2024

Land Acquisition and Easements in Process:

- Upcountry Maui Well - Kealahoa Well -
 - Consultant was selected (Fukumoto Engineering, Inc.) for survey services and Co-Sponsored Subdivision Plat application documents.
 - Contract executed.
 - On-going monthly coordination and status update meetings with the State DLNR and their consultant (Fukunaga & Assoc.)
 - Next Status Update Meeting: October 24th.
- Omaopio Tank Replacement – Subdivision (Haleakala Ranch Co. aka HR)
 - Will need Resolution from Corp Council for County Council approval for land purchase and sale agreement.
 - Co-Sponsored Subdivision documents to submit to DPW on hold until HR signs Draft “DEED” and final Purchase Sale Agreement is acceptable by both parties – will notify HR.
 - Haleakala Ranch Co. accepted Offer Letter.
 - Next: will coordinate with COM-Dept of Finance (Guy Hironaka) to prepare Resolution on Purchase.
- Kualapuu Well Subdivision & 2nd Well Location - no significant changes.
 - Consultant PER on recommended well site done;
 - Need to follow-up with Consultant on status.
- Hans Michel – Land – Access & Utility Easements (no change)
 - Appraisal Consultant (ACM) has inspected property and has started their appraisal report (Approx. 60 days).
 - Next: Set-up meeting with DLNR on status of easements on State lands in August.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 30

New Land Matters:

- John Russel – Owner – John Russell Subdivision (no change)
 - Reversion of existing water tank on TMK: (2) 2-2-002:020
 - Need to research easement in Bureau of Conveyance and do a “Cancelation of Easement” request.
 - Wailuku Country Estates Subdivision – 2 existing water tank site parcels
TMK: (2) 3-3002:034 & (2) 3-3-002:033
 - Sent draft Purchase and Sale Agreement to Owner for review and revisions.
 - Appraisal Consultant (ACM) has inspected property and has started their appraisal report (Approx. 60 days).

The current six-year spending plan is illustrated on the following pages.

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO.	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE	FUNDING	FY 2025	PHASE	FUNDING	FY 2026	PHASE	FUNDING	FY 2027	PHASE	FUNDING	FY 2028	PHASE	FUNDING	FY 2029
DIRECTOR'S OFFICE - SOURCE DEVELOPMENT - WEST MAUI																				
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	DESALINATION WATER TREATMENT PLANT (5 MGD) - WEST MAUI - SEEK FED FUNDING FY2026 - DESIGN, EA & PERMITTING FY2029 - CONSTRUCTION - TBD				\$ 5,500,000	D	S										\$ 75,000,000
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	HONOKOHAI VALLEY - SURFACE WATER TREATMENT FACILITY - FY2025 - PREL ENG REPORT - FY2026 - DESIGN - ALTERNATIVE - DIRECT BURY WATERLINE FY2027 - CONSTRUCTION			\$ 40,000	D	R	\$ 300,000	D	R	\$ 3,000,000	C	S					
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	MAHINAHINA WELL - DEVELOPMENT PHASE - DESIGN - WATER RESTRICTED FUNDING - TO USE WELL AS BACK-UP (6-MONTHS) WCD670 UNEMORI (\$445,387.07) -			\$ 100,000	D	R											
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	MAHINAHINA WELL - DEVELOPMENT PHASE - CONST - WATER UNRESTRICTED FUNDING (SRF 77) - TO USE WELL AS BACK-UP (6-MONTHS) WCD670 UNEMORI (\$445,387.07) -				\$ 5,000,000	C	R										
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	LAUNIUPOKO WELL #1 and #2 - EXPLORATORY DRILLING - DESIGN - WATER UNRESTRICTED FUNDING WCL039 FUKUMOTO (\$790,110)																
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	LAUNIUPOKO WELL #1 - EXPLORATORY DRILLING - CONSTRUCTION - WATER RESTRICTED FUNDING FY2021 - \$1,000,000 LAPSED (EXPLORATORY DRILLING - CONSTRUCTION)			\$ 2,000,000	C	R											
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	LAUNIUPOKO WELL #1 - WELL DEVELOPMENT PHASE - DESIGN - WATER RESTRICTED FUNDING - FY2024 FUNDING DEFERRED - RETRACTED	\$ 900,000	D	R													
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	LAUNIUPOKO WELL #1 - WELL DEVELOPMENT - CONSTRUCTION - WATER RESTRICTED FUNDING (SRF FUNDING 77)				\$ 12,000,000	C	B										
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	LAUNIUPOKO WELL #2 (L-3) - EXPLORATORY DRILLING - CONSTRUCTION - WATER RESTRICTED FUNDING WCL039 FUKUMOTO (DESIGN UNDER WELL #1)			\$ 2,000,000	C	R											
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	LAUNIUPOKO WELL #2 (L-3) - WELL DEVELOPMENT - DESIGN - WATER RESTRICTED FUNDING FY2024 - \$2,000,000 (EXPLORATORY DRILLING - CONSTRUCTION) FY2025 - \$900,000 (DEVELOPMENT - DESIGN) FY2027 - \$250,000 (CM) / \$15,000,000 (DEVELOPMENT - CONSTRUCTION)			\$ 900,000	D	R											
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	LAUNIUPOKO WELL #2 (L-3) - WELL DEVELOPMENT - CONSTRUCTION - WATER RESTRICTED FUNDING (SRF FUNDING 77) FY2024 - \$2,000,000 (EXPLORATORY DRILLING - CONSTRUCTION) FY2026 - \$900,000 (DEVELOPMENT - DESIGN) FY2027 - \$250,000 (CM) / \$15,000,000 (DEVELOPMENT - CONSTRUCTION)									\$ 10,500,000	C	B					
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	HONOKOWAI TUNNEL INTAKE AND TRANSM SS ON LINE *TO MAHINAHINA WTP RESERVOIR OR IN POTABLE WL FY2025 - DESIGN, EA & LAND EASMENTS, FY2026 - CONSTRUCTION - SEEK FED FUNDING - USACE DOH CRITERIA - UNDER SURFACE WATER INFLUENCE			\$ 400,000	D	R					\$ 4,000,000	C	R				
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	R-1 WATERLINE FROM LAHAINA WWTP TO RESERVOIRS (LOWER FIELD 14 RES & WAHIKULU RES.) INCL. BOOSTER PUMP STATION FY-2026 DESIGN FY-2028 LAND ACQUISITION & CONSTRUCTION - LOWER FIELD 14 RESERVOIR FY-2029 - WAHIKULU RESERVOIR IMPROVEMENTS - CONSTRUCTION				\$ 1,800,000	D	R							\$ 25,500,000	C	S	\$ 6,000,000
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	R-1 WATERLINE FROM LAHAINA WWTP TO RESERVOIRS (LOWER FIELD 14 RES & WAHIKULU RES.) INCL. BOOSTER PUMP STATION FY-2026 DESIGN FY-2028 LAND ACQUISITION & CONSTRUCTION													\$ 2,200,000	L	U	
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	HONOLUA AQUIFER - WELLS H1 & H2 - WELL DEVELOPMENT - EXPLORATORY PHASE - FY2025 - DESIGN FY2027 CONSTRUCTION - WATER RESTRICTED FUNDING (SR FUNDING 77)			\$ 400,000	D	R				\$ 4,000,000	C	R					
CBS-1092	West Maui	DIRECTOR	WEST MAUI RELIABLE CAPACITY	HONOLUA AQUIFER - WELLS H1 & H2 - WELL DEVELOPMENT - DEVELOPMENT PHASE - FY2026 - DESIGN FY2028 CONSTRUCTION - WATER RESTRICTED FUNDING (SR FUNDING 77)				\$ 400,000	D	R				\$ 8,000,000	C	R				

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO.	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE	FUNDING	FY 2025	PHASE	FUNDING	FY 2026	PHASE	FUNDING	FY 2027	PHASE	FUNDING	FY 2028	PHASE	FUNDING	FY 2029
DIRECTOR'S OFFICE - LAHAINA WILDFIRES - INFRA-STRUCTURE RE-DEVELOPMENT - WEST MAUI																				
CBS-8395	West Maui	DIRECTOR	WEST MAUI-LAHAINA RE-DEVELOPMENT	LAHAINA TOWN - TRANSMISSION & DISTRIBUTION WATERLINE REPLACEMENTS *FY2026 - DESIGN, PERMITTING, FEMA FUNDING (10% of Design/Const.) *FY2028 - CONSTRUCTION			\$ 1,000,000	D	S	\$ 5,000,000	D	S				\$ 5,000,000	D	S		
CBS-8395	West Maui	DIRECTOR	WEST MAUI-LAHAINA RE-DEVELOPMENT	LAHAINA TOWN - TRANSMISSION & DISTRIBUTION WATERLINE REPLACEMENTS *FY2026 - DESIGN, PERMITTING, FEMA FUNDING (10% of Design/Const.) *FY2028 - CONSTRUCTION			\$ 9,000,000	C	S	\$ 45,000,000	C	S				\$ 45,000,000	C	S		
CBS-8395	West Maui	DIRECTOR	WEST MAUI-LAHAINA RE-DEVELOPMENT	CONTINUE CONSULTANT SERVICES - STANTEC, CAROLLO, B&C, XYLEM, BOWERS-KUBOTA Additional Services to current contracts - Wildfire Funds			\$ 1,000,000	D	S	\$ 1,000,000	D	S	\$ 1,000,000	D	S	\$ 1,000,000	D	S		
DIRECTOR'S OFFICE - SOURCE DEVELOPMENT - CENTRAL MAUI																				
CBS-6649	Kihel-Makena	DIRECTOR	CENTRAL MAUI RELIABLE CAPACITY	DESALINATION WATER TREATMENT PLANT (5 MGD) - SOUTH MAUI - SEEK FED FUNDING FY2026 - DESIGN, EA & PERMITTING FY2029 - CONSTRUCTION - TBD						\$ 5,500,000	D	S								\$ 75,000,000
CBS-6649	Wailuku-Kahului	DIRECTOR	CENTRAL MAUI RELIABLE CAPACITY	WAIHEE AQUIFER SOURCE DEVELOPMENT - DESIGN - EXPLORATORY WELL DRILLING - STATE FUNDING FY2021 - \$500,948.25 - WC1176 FUKUNAGA																
CBS-6649	Wailuku-Kahului	DIRECTOR	CENTRAL MAUI RELIABLE CAPACITY	WAIHEE AQUIFER SOURCE DEVELOPMENT - CONSTRUCTION - EXPLORATORY WELL DRILLING - STATE FUNDING FY2023 - \$499,051 STATE FUNDING - EXPLORATORY WELL DRILLING (INSUFFICIENT) FY2024 - RE-APPROPRIATE \$400,064 STATE FUNDING FOR EXPLORATORY WELL DRILLING *DIRECTOR TO CONFIRM W/ DLNR ENGINEERING - STATE PARTICIPATION IN CONSTRUCTION?																
CBS-6649	Wailuku-Kahului	DIRECTOR	CENTRAL MAUI RELIABLE CAPACITY	WAIHEE AQUIFER SOURCE DEVELOPMENT - CONSTRUCTION - EXPLORATORY WELL DRILLING - WATER RESTRICTED FUNDING FY2023 - \$500,000 COUNTY FUNDING - EXPLORATORY WELL DRILLING (INSUFFICIENT) FY2024 - RE-APPROPRIATE, INCREASE TO \$1,500,948 COUNTY FUNDING						\$ 1,000,000	C	R								
CBS-6649	Wailuku-Kahului	DIRECTOR	CENTRAL MAUI RELIABLE CAPACITY	WAIHEE AQUIFER SOURCE DEVELOPMENT - DESIGN - WELL DEVELOPMENT - WATER RESTRICTED FUNDING						\$ 500,000	D	R								
CBS-6649	Wailuku-Kahului	DIRECTOR	CENTRAL MAUI RELIABLE CAPACITY	WAIHEE AQUIFER SOURCE DEVELOPMENT - CONSTRUCTION - WELL DEVELOPMENT - WATER RESTRICTED FUNDING - (SRF FUNDING ??)													\$ 5,000,000	C	B	
CBS-1102	Wailuku-Kahului	DIRECTOR	WAIHEHU HEIGHTS WELL 1 REPLACEMENT	WAIHEHU HEIGHTS WELL 1 REPLACEMENT - ALPHA INC. \$928,933.00 FY2018 - \$157,050 - WCD953 FUKUMOTO (DESIGN EXPLORATORY DRILLING) *DIRECTOR NEEDS TO DISCUSS WITH CWRM - WELL DRILLING PERMIT ON HOLD																
CBS-1102	Wailuku-Kahului	DIRECTOR	WAIHEHU HEIGHTS WELL 1 REPLACEMENT	WAIHEHU HEIGHTS WELL 1 REPLACEMENT - DEVELOPMENT PHASE FY2018 - \$157,050 - WCD953 FUKUMOTO (DESIGN DEVELOPMENT PHASE - ADD NEW MCC BUILDING & EM GEN FOR BOTH WELLS)	\$ 300,000	D	R	\$ 2,000,000	C	R										
CBS-6649	Paia-Kaunapali	DIRECTOR	CENTRAL MAUI RELIABLE CAPACITY	NEW TRANSMISSION WATERLINE FROM H-POKO WELLS TO SPRECKLESVILLE FY2025 - DESIGN & EA FY2027 - CONSTRUCTION & LAND ACQUISITION (7850 LF)			\$ 250,000	D	U				\$ 3,500,000	C	U					
CBS-6649	Paia-Kaunapali	DIRECTOR	CENTRAL MAUI RELIABLE CAPACITY	NEW TRANSMISSION WATERLINE FROM H-POKO WELLS TO SPRECKLESVILLE FY2027 - CONSTRUCTION & LAND ACQUISITION (7850 LF)									\$ 100,000	L	U					
	Wailuku-Kahului	DIRECTOR	ACQUISITION OF WAILUKU WATER COMPANY WATER SYSTEM	ACQUISITION OF WAILUKU WATER COMPANY WATER SYSTEM *MAYOR VICTORINO INITIATED - DIRECTOR TO DISCUSS WITH MAYOR																
DIRECTOR'S OFFICE - SOURCE DEVELOPMENT - MOLOKAI																				
CBS-1098	Molokai	DIRECTOR	MOLOKAI RELIABLE CAPACITY	UALAPUE WELL #2 - HIGH PRIORITY FY2025 - EXPLORATORY PHASE - DESIGN & EA FY2026 - CONSTRUCTION			\$ 250,000	D	U	\$ 1,500,000	C	U								
CBS-1098	Molokai	DIRECTOR	MOLOKAI RELIABLE CAPACITY	UALAPUE WELL #2 - HIGH PRIORITY FY2027 - DEVELOPMENT PHASE - DESIGN & LAND ACQUISITION FY2029 - CONSTRUCTION									\$ 250,000	D	U					\$ 4,000,000

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO	D STR CT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	FY 2025		FY 2026		FY 2027	FY 2028	FY 2029
						PHASE FUNDING	AMOUNT	PHASE FUNDING	AMOUNT			
CBS-1098	Molokai	DIRECTOR	MOLOKAI RELIABLE CAPACITY	KAWELA WELL #2 & 30,000 GAL STORAGE TANK - HIGH PRIORITY FY2025 - <u>EXPLORATORY PHASE</u> - DESIGN & EA FY2026 - CONSTRUCTION		\$ 250,000	D U	\$ 1,500,000	C U			
CBS-1098	Molokai	DIRECTOR	MOLOKAI RELIABLE CAPACITY	KAWELA WELL #2 & 30,000 GAL STORAGE TANK - HIGH PRIORITY FY2027 - <u>DEVELOPMENT PHASE</u> - DESIGN & LAND ACQUISITION FY2029 - CONSTRUCTION						\$ 250,000	D U	\$ 4,000,000

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO.	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE	FUNDING	FY 2025	PHASE	FUNDING	FY 2026	PHASE	FUNDING	FY 2027	PHASE	FUNDING	FY 2028	PHASE	FUNDING	FY 2029
CBS-1098	Molokai	DIRECTOR	MOLOKAI RELIABLE CAPACITY	KUALAPUU WELL #2 (BACKUP WELL) FY2011 DESIGN - WC0678 AUSTIN TSUTSUMI (OLD CONTRACT) FY2022 - SUBDIVISION - WC1211 UNEMORI (NEW) FY2025 - \$200,000 (EXPLORATORY DRILLING - DESIGN) FY2028 - \$1,000,000 (EXPLORATORY DRILLING - CONSTRUCTION) FY2029 - \$250,000 (DEVELOPMENT - DESIGN) FY2030 - \$2,000,000 (DEVELOPMENT - CONSTRUCTION)				\$ 200,000	D	R				\$ 1,500,000	C	R	\$ 250,000			
CBS-1098	Molokai	DIRECTOR	MOLOKAI RELIABLE CAPACITY	KALAE WELL (NEW SOURCE) FY2022 - SUBDIVISION AND HYDROGEOLOGIC STUDY - WC1211 UNEMORI (NEW) FY2026 - \$200,000 (EXPLORATORY DRILLING - DESIGN) FY2028 - \$1,000,000 (EXPLORATORY DRILLING - CONSTRUCTION) FY2029 - \$250,000 (DEVELOPMENT - DESIGN) FY2030 - \$2,000,000 (DEVELOPMENT - CONSTRUCTION)				\$ 200,000	D	R				\$ 1,500,000	C	R	\$ 250,000			
DIRECTOR'S OFFICE - SOURCE DEVELOPMENT - UPCOUNTRY																				
CBS 7253	Makawao-Pukalani-Kula	STATE	UPCOUNTRY RELIABLE CAPACITY	UPCOUNTRY MAU WELL DEVELOPMENT (aka Kealahou Well) *FY2023 STATE LED PROJECT (COUNTY LIMITED TO BELOW) *COUNTY TO ACCEPT STATE FUNDING \$250,000 FOR LAND ACQUISITION *COUNTY TO PROVIDE ADD'L \$100,000 FOR LAND ACQUISITION, IF NEEDED * STATE APPROPRIATED \$200K IN FY2023 - GRANT REQUEST FOR \$50K IN FY2025			\$ 500,000	D	R											
CBS-7885	Paa-Haiku	DIRECTOR	UPCOUNTRY RELIABLE CAPACITY	EAST MAUI SOURCE DEVELOPMENT - FEASIBILITY STUDY FY2025 - MONITORING WELL - DESIGN & CONST BY USGS			\$ 800,000	C	S											
CBS-7885	Paa-Haiku	DIRECTOR	UPCOUNTRY RELIABLE CAPACITY	*POTENTIAL FED - USACE GRANT FUNDING USGS - HAIKU AQUIFER WELL SOURCE STUDY - DEFERRED FROM FY-2024 BUDGET - RETRACTED *POTENTIAL FED - USACE GRANT FUNDING	\$ 800,000	P	U													
CBS-7887	Makawao-Pukalani-Kula	DIRECTOR	UPCOUNTRY RELIABLE CAPACITY	MAKAWAO AQUIFER WELL SOURCE DEVELOPMENT - EA FUNDING - 2-SITES	\$ 200,000	P	U													
CBS-7887	Makawao-Pukalani-Kula	DIRECTOR	UPCOUNTRY RELIABLE CAPACITY	MAKAWAO AQUIFER - WELL DEVELOPMENT - 2 - SITES FY2025 - EXPLORATORY PHASE - DESIGN & EA FY2026 - CONSTRUCTION - DRILLING & LAND ACQUISITION FY2027 - DEVELOPMENT PHASE - DESIGN FY2029 - CONSTRUCTION			\$ 250,000	D	R	\$ 4,000,000	C	R	\$ 450,000	D	R					\$ 8,000,000
			UPCOUNTRY RELIABLE CAPACITY	HAIKU AQUIFER - WELL DEVELOPMENT - DOT NOT INPUT TO CBS (AT THIS TIME) *PER DIRECTOR PENDING COMPLETION OF EAST MAUI FEASIBILITY ASSESSMENT																
	Paa-Haiku	DIRECTOR	UPCOUNTRY RELIABLE CAPACITY	FY2026 - EXPLORATORY PHASE - DESIGN & EA FY2027 - CONSTRUCTION - DRILLING & LAND ACQUISITION FY2028 - DEVELOPMENT PHASE - DESIGN FY2030 - CONSTRUCTION				\$ 250,000	D	R	\$ 2,000,000	C	R	\$ 350,000	D	R				
CBS-5475	Makawao-Pukalani-Kula	WTP OPS	KAMOLE WTP - RAW WATER RESERVOIRS	KAMOLE WTP - RAW WATER RESERVOIRS (2 X 70-MG) *FY2019 \$1,500,000 LAPSED - PER DIRECTOR DUE TO PENDING EAST MAUI LICENSES TO BE ISSUED TO BY CWRM - *POTENTIAL FED - USACE GRANT FUNDING			\$ 800,000	D	R	\$ 25,000,000	C	S								
CBS-5475	Makawao-Pukalani-Kula	WTP OPS	KAMOLE WTP - RAW WATER RESERVOIRS	KAMOLE WTP - RAW WATER RESERVOIRS (2 X 70-MG) LAND ACQUISITION TO BE ISSUED TO BY CWRM - *POTENTIAL FED - USACE GRANT FUNDING			\$ 1,000,000	L	U											
ENGINEERING DIVISION - DEVELOPER TANK PROJECTS																				
CBS-4622	Waipuku-Kahului	ENGIN	KAHULUI TANK #2	KAHULUI WATER TANK #2 - (COST SHARING WITH MAUI LANI PARTNERS) *ON HOLD PER DIRECTOR *DEVELOPER (MAUI LANI PARTNERS) TO NEGOTIATE AMENDMENT TO AGREEMENT WITH DIRECTOR																
	Waipuku-Kahului	ENGIN	IAO TANK #2	IAO TANK #2 (NO COST TO COUNTY) *ON HOLD PER DIRECTOR *DEVELOPER (RCFC KEHALANI/MAUI LANI) - RCFC REQUESTING TO NEGOTIATE AMENDMENT TO AGREEMENT TO PAYOUT CASH																
FIELD OPERATIONS DIVISION - TANK PROJECTS																				

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO.	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE FUNDING	FY 2025	PHASE FUNDING	FY 2026	PHASE FUNDING	FY 2027	PHASE FUNDING	FY 2028	PHASE FUNDING	FY 2029
CBS-6650	Wailuku-Kahului	DIRECTOR	WAIHEE TANK #2	WAIHEE TANK #2 (LAND \$30,000/DESIGN \$385,000) **THIS IS INTENDED TO BE A STATE/COUNTY PARTNERSHIP - STATE PROJECT (PULEHUNU) HAS A STORAGE REQUIREMENT ???DELETE COUNTY FUNDING???									\$ 1,000,000	L U	\$ 375,000
CBS-5474	Kihei-Makena	ENGINEER	NORTH KIHEI WATER TANK	NORTH KIHEI WATER TANK (AKA MAKAI HTS 2MG WATER TANK) * ON HOLD PER DIRECTOR * DEVELOPER (HALEAKALA RANCH) MAY PARTICIPATE IN TANK											
CBS-1075	Countywide	FIELD OPS	COUNTYWIDE FACILITY IMPROVEMENTS	WAIHEE TANK #2 DIAMOND RESORTS TANK ROOF - REFURBISHMENT BID OPENING 11/9/2020 (FY2020 CONSTRUCTION) *PROJECT COMPLETED NOVEMBER 2021											
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	COUNTYWIDE TANK REPLACEMENTS (SEE BELOW FOR SPECIFIC PROJECTS)									\$ 1,000,000	C U	\$ 1,000,000
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	HOLOMANEANI TANK REPLACEMENT (150,000 GALLONS)(TK387) *IN-HOUSE DESIGN - YES				\$ 2,000,000	C U						
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KOALI HIGH LEVEL WATER TANK REPLACEMENT - 12,000 GAL (HANA) - INHOUSE DESIGN ??? 100,000 GAL.				\$ 2,000,000	C U						
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	HAIKU-KAUHIKOA CONTROL TANK REPLACEMENT (250,000 GALLONS) *IN-HOUSE DESIGN IM CONST - \$2.3 MIL POTENTIAL FED FUNDING (MARCH 2024) (or Budget Amd 2024) FY2025 - BALANCE			\$ 750,000	C U							
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	OMIAOPIO RD MID-LEVEL TANK REPLACEMENT (OLD TANAKA TANK-TK378) 20,000 GALLON				\$ 100,000	C U						
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	OLD WAILUKU HEIGHTS TANK REPLACEMENT (100,000 GALLONS) *IN-HOUSE DESIGN ???				\$ 1,500,000	C U						
CBS-1075	Countywide	FIELD OPS	COUNTYWIDE FACILITY IMPROVEMENTS	COUNTYWIDE TANK REPLACEMENTS - NORTH HOKOKAI TANK REPLACEMENT (42,000 GALLONS)(TK284) *IN-HOUSE DESIGN ???				\$ 500,000	C U						
CBS-1075	Countywide	FIELD OPS	COUNTYWIDE FACILITY IMPROVEMENTS	COUNTYWIDE TANK REPLACEMENTS - KOKOMO TANK DEMOLITION (100,000 GALLONS)(TK258) *IN-HOUSE DESIGN ???				\$ 50,000	C U	\$ 100,000	D U				
CBS-1075	Countywide	FIELD OPS	COUNTYWIDE FACILITY IMPROVEMENTS	OMIAOPIO TANK REPLACEMENT (WC0866) *FY2024 LAND ACQUISITION *PROJECT COMPLETED 2020 - DEFERRED FROM FY2024 BUDGET - RETRACTED	\$ 300,000	L U	\$ 50,000	L U							
FIELD OPERATIONS DIVISION - WATERLINE AND LATERAL PROJECTS															
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	COUNTYWIDE LATERAL REPLACEMENTS - Priority with DPW	\$ 250,000	C U	\$ 250,000	C U	\$ 250,000	C U	\$ 250,000	C U	\$ 250,000	C U	\$ 250,000
CBS-7254	Makawao-Pukalani-Kula	FIELD OPS	UPPER KULA TRANSMISSION IMPROVEMENTS	UPPER KULA TRANSMISSION IMPROVEMENTS FY2023 - DESIGN (HDR) - CONTRACTING IN PROGRESS (\$725,305.00)											
CBS-7254	Makawao-Pukalani-Kula	FIELD OPS	UPPER KULA TRANSMISSION IMPROVEMENTS	UPPER KULA TRANSMISSION IMPROVEMENTS - USE UPC RESERVE FUND *RE-APPROPRIATE CONSTRUCTION FUNDING, INCREASE TO \$5M FY2025 *DEFERRED FROM FY-2024 BUDGET (RETRACTED); SEEK FED. (BRUC/USACE) FUNDING	\$ 2,500,000	C U	\$ 2,500,000	C S							
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	COUNTYWIDE PIPELINE REPLACEMENT (see below for specific projects)											
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	ALEO PLACE - KAHULUI - REPLACE 525 LF 4-INCH AC W/6-INCH DDP *IN-HOUSE DESIGN - FY2025 - CONSTRUCTION				\$ 500,000	C U						
CBS-2299	Countywide	DEM DEPT	COUNTYWIDE UPGRADES & REPLACEMENTS	WAIKAPU WATERLINE REPLACEMENTS - IN COORDINATION WITH DEM SEWERLINE IMPROVEMENTS DESIGN BY WSUE - CONST. FY2025				\$ 3,000,000	C U						
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	WAILUKU WATERLINE REPLACEMENT FY2023 - LUNALILO STREET, LIHOLIHO STREET, KAMAMALU PLACE, KALAMA PLACE, AND LEILEIHOKU STREET *IN-HOUSE DESIGN - FY2023 CONSTRUCTION IN PROGRESS (\$4,875,000.00)											
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	CENTRAL MAHI WATERLINE REPLACEMENT FY2024 - NORTH KIHEI ROAD WATERLINE REPLACEMENT *FY2021 - TOPOGRAPHIC SURVEY CONSULTANT - COMPLETED *IN-HOUSE DESIGN - IN PROGRESS *FY2026 CONSTRUCTION				\$ 1,500,000	C U						

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO.	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE FUNDING	FY 2025	PHASE FUNDING	FY 2026	PHASE FUNDING	FY 2027	PHASE FUNDING	FY 2028	PHASE FUNDING	FY 2029
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KENOLIO ROAD WATERLINE REPLACEMENT (400 LF) *FY2021 TOPOGRAPHIC SURVEY CONSULTANT - COMPLETED *IN HOUSE DESIGN - IN PROGRESS *IN-HOUSE CONSTRUCTION FY2025			\$ 200,000	C R							
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	WILU PLACE WATERLINE REPLACEMENT (400 LF) ** PROJECT CANCELLED PER FIELD OPS **											
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KAILUA STREAM BRIDGE CROSSING - WATER REALIGNMENT ** PROJECT CANCELLED PER FIELD OPS **											
CBS-2299	Maikawao-Pukalani-Kula	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	OLD HALEAKALA HWY - PUKALANI - 4"WL REPLACE WITH 12" - 400LF Not needed - CONFIRMED 12" w/ - USE FOR KEANINI ST - HANA	\$ 400,000	C U									
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	HOLEWAI WATERLINE INSTALLATION (Est. 3000 Linear Ft) *PROJECT CANCELLED CONTRACTOR DID NOT HOLD PRICE AFTER BIDDING*											
CBS-2299	West Maui	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	WEST MAUI WATERLINE IMPROVEMENTS *FY2019 FUNDING LAPSED DUE TO DPW/PLANNING RESOLUTION WITH RESIDENTS TO ADDRESS SEA LEVEL RISE											
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	HANA WATERLINE REPLACEMENT FY2021 - HANA HIGHWAY (PUUKI TO HADU) FY2019 IN-HOUSE DESIGN - COMPLETED FY2020 CONSTRUCTION COMPLETED											
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	MAHONO (13400), KAWAIPIUNA PLACE (430), HONUA PLACE (300), HANA PLACE (300), HONUA PLACE (300), HONUA PLACE (300), HONUA PLACE (300), CENTRAL AVENUE (transfer lateral 8-12 from 6 to 12") - ADD LITHIUM-CLAY ROAD (400) MAHUA (350) IN VICINITY AND GALVANIZED **DPW RESURFACING FY2023* CHECK WITH DPW ON STATUS *IN-HOUSE DESIGN ???	\$ 200,000	C R			\$ 1,338,000	C U	\$ 1,338,000	C U			
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	CENTRAL MAUI WATERLINE REPLACEMENT FY2024 - KAAHUMANU AVENUE WATERLINE REPLACEMENT (KANE TO HOBRON) *CONSULTANT DESIGN					\$ 200,000	D U			\$ 2,000,000	C U	
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	CENTRAL MAUI WATERLINE REPLACEMENT FY2024 - PUUNENE AVENUE WATERLINE REPLACEMENT (KAAHUMANU TO PUUKANI) *CONSULTANT DESIGN					\$ 255,000	D U			\$ 2,550,000	C U	
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	CENTRAL MAUI WATERLINE REPLACEMENT FY2024 - WILIKONA PLACE (580), KEMOA PLACE (665), KEILIO PLACE (300) *SURVEY CONSULTANT (FY24) *IN-HOUSE DESIGN ???					\$ 60,000	D U	\$ 600,000	C U			

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO.	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE	FUNDING	FY 2025	PHASE	FUNDING	FY 2026	PHASE	FUNDING	FY 2027	PHASE	FUNDING	FY 2028	PHASE	FUNDING	FY 2029
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	NORTH CHURCH STREET @ VINEYARD WATERLINE REPLACEMENT *NEED MORE INFO FROM HELAMAN																
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	LOWER MA N STREET *NEED MORE INFO FROM HELAMAN																
CBS-2299	Countywide	FIELD OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	LOWER HONOAPILANI HIGHWAY (TO HOOHU STREET) WATERLINE REPLACEMENT *NEED MORE INFO FROM HELAMAN																
WATER TREATMENT PLANT OPERATIONS DIVISION - EAST																				
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	OLINDA WTP - CLEARWELL ROOF REPLACEMENT. DWS JOB NO. 19-01E BID AWARDED - CONTRACT EXECUTED - additional Funding			\$ 500,000	C	U											
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	KAMOLE WTP - OPERATIONS AND CHEMICAL BLDG REFURBISHMENT (CONST) Contract executed - \$255,000 COMPLETED																
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	PIHOLO WTP - FILTER REFURBISHMENT - LAPSE FY2023 BUDGET FY-2025			\$ 100,000	C	U											
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	OLINDA WTP - UNDER DRAIN REPLACEMENT *IN HOUSE DESIGN - IN PROGRESS *FY2022 IN HOUSE CONSTRUCTION - PENDING FEB 2022 (WARREN SARD NHA)																
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	PIHOLO CLEARWELL ROOF REFURBISHMENT *IN-HOUSE DESIGN ???																\$ 800,000
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	SEPTIC SYSTEM REPLACEMENTS - PIHOLO & KAMOLE WTPS (PIPE-LINING)			\$ 400,000	D/C	U											
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	OLINDA WTP - CONTROLS UPGRADE - move to FY 2025 ??						\$ 300,000	D	U								
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	OLINDA WTP - CONTROLS UPGRADE - Construction - move to FY 2026 ??						\$ 1,800,000	C	U								
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	KAMOLE WTP - UP-SIZE FILTER CAPACITY * UP-SIZE OSG SYSTEM FOR FOR INCREASE IN PRODUCTION *SOLE-SOURCE- MICROCLOR FOR OSG UPGRADE * POTENTIAL QUALIFY FOR FED FUNDING			\$ 5,000,000	C	S											
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	KAMOLE WTP - CONTROLS UPGRADE - *TO BE INCLUDED IN THE FILTER REPLACEMENT PROJECT ABOVE									\$ 1,800,000	C	U					
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	PIHOLO WTP - SCADA CONTROLS UPGRADE - move to FY 2025 ??													\$ 300,000	D	U	\$ 1,800,000
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	KAMOLE WTP - GENERATOR AND FILTER BUILDING PAINTING OPERATIONS AND MAINTENANCE BUDGET COULD BE USED FY24, FY25, 200K			\$ 50,000	C	U											
WATER TREATMENT PLANT OPERATIONS DIVISION - WEST																				
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - BACKWASH TANK REPLACEMENT FY2024 - TOPOGRAPHIC SURVEY ONLY *IN-HOUSE DESIGN ?	\$ 50,000	D	U	\$ 1,500,000	C	U										
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - SIDEWALK REPAIRS *IN-HOUSE BID DOCS FY2025 - OPS & MAINT. BUDGET ?			\$ 30,000	C	U											
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - OPS AND FILTER BUILDING CRACK REPAIRS - PAINTING - INTER-OR/EXTERIOR * N-HOUSE B/D DOCS			\$ 30,000	C	U	\$ 300,000	C	U								
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - FILTER #4 REFURBISHMENT * N-HOUSE B/D DOCS FY2025 - OPS & MAINT. BUDGET ?						\$ 30,000	D	U	\$ 300,000	C	U					
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - 2 MG CLEARWELL REFURBISHMENT & BYPASS WL *IN-HOUSE DESIGN - B/D DOCS *LOWERED FY 2025 AMT FROM \$1.0 MILLION			\$ 500,000	C	U	\$ 50,000	D	U	\$ 3,000,000	C	U					
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - OBTAIN PRIVATE RESERVOIR TO INCREASE RAW WATER STORAGE CAPACITY * FY2026 DESIGN & LAND						\$ 200,000	D	U	\$ 3,000,000	C	U					

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO.	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE FUNDING	FY 2025	PHASE FUNDING	FY 2026	PHASE FUNDING	FY 2027	PHASE FUNDING	FY 2028	PHASE FUNDING	FY 2029	
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - OBTAIN PRIVATE RESERVOIR TO INCREASE RAW WATER STORAGE CAPACITY * FY2027 LAND * FY2027 CONSTRUCTION							\$ 500,000	L U				
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - RAW WATERLINE - IN & OUT OF THE RESERVOIR REPAIRS, PEDESTALS AND SUPPORTS IN-HOUSE DESIGN & BID DOCS					\$ 100,000	C U						
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - BYPASS WATERLINE - BACKWASH BASIN TO LOWER RESERVOIR CLEANOUT BASIN IN-HOUSE DESIGN & BID DOCS			\$ 100,000	C U								
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	LAHAINA WTP - RAW WATERLINE RE-ALIGNMENT REPLACEMENT FROM INTAKE TO CONTROL BOX (WTP)			\$ 150,000	D U	\$ 3,000,000	C U						
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	LAHAINA WTP - FINISH WATER LINE TO KANAHUA TANK *PROJECT CANCELLED PER DIRECTOR			\$ 150,000	D U	\$ 3,000,000	C U						
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	LAHAINA WTP - FIRE SYSTEM UPGRADE - NEED MORE INFORMATION / SCOPE OF WORK			\$ 100,000	D U	\$ 1,000,000	C U						
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	LAHAINA WTP - CLEARWELL REFURBISHMENT - RE-PAINTING (RE-LINING INTERIOR) *BOWERS + KUBOTA - PUMP REPLACEMENT TOO FY2025 - OPS & MAINT. BUDGET ?			\$ 100,000	D U			\$ 2,000,000	C U				
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	LAHAINA WTP - SED. BASIN REFURBISHMENT - RE-PAINTING (RE-LINING INTERIOR) *CONSULTANT - BOWERS + KUBOTA FY2025 - OPS & MAINT. BUDGET ?			\$ 100,000	D U								
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	LAHAINA WTP & MAHINAHINA WTP - RECOAT (W/INDUSTRIAL COATINGS) ALL EXISTING EXTERIOR PIPING *IN-HOUSE BID DOCS FY2025 - OPS & MAINT. BUDGET ?			\$ 100,000	C U								
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	LAHAINA WTP - CONTROLS UPGRADE - move to FY 2026 ??					\$ 300,000	D U	\$ 1,800,000	C U				
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	LAHAINA WTP - 1MG CLEARWELL WATER TANK REFURBISHMENT BID OPENING 11/23/2020 **PROJECT COMPLETED NOVEMBER 2021												
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	MAHINAHINA WTP - UV DISINFECTION TREATMENT UPGRADE (BID OPENING 11/18/2020) **PROJECT COMPLETED SEPTEMBER 2021**												
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MAHINAHINA WTP - CONTROLS UPGRADE (BID OPENING 12/30/2020) **PROJECT COMPLETED NOVEMBER 2021**												
WATER TREATMENT PLANT - DAM SAFETY PROJECTS																
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	DAM SAFETY - PIHOLO WTP RESERVOIR PRIORITY #1 FY2015 ASSESSMENT (WC0854 YOGI KWONG) FY2021 HYDROLOGIC AND HYDRAULIC ANALYSES - COMPLETED/ACCEPTED BY DOH IN 2021 FY2021 TOPOGRAPHIC SITE SURVEY - IN PROGRESS FY2021 EMBANKMENT STABILITY ANALYSIS - IN PROGRESS FY2023 DESIGN - YOGI KWONG TO SUBMIT DESIGN PROPOSAL MARCH 2023 FY2025 CONSTRUCTION HIGH HAZARD CLASSIFICATION											\$ 5,000,000	
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	DAM SAFETY - OLINDA WTP RESERVOIR PRIORITY #2 FY2015 ASSESSMENT (WC0854 YOGI KWONG) FY2017 EMBANKMENT STABILITY ANALYSIS/SITE SURVEY FY2021 HYDROLOGIC AND HYDRAULIC ANALYSES - COMPLETED/ACCEPTED BY DOH IN 2021 FY2021 TOPOGRAPHIC SITE SURVEY - COMPLETED 2018 FY2021 EMBANKMENT STABILITY ANALYSIS - IN PROGRESS FY2024 DESIGN - YOGI KWONG TO SUBMIT DESIGN PROPOSAL MARCH 2023 FY2026 CONSTRUCTION HIGH HAZARD CLASSIFICATION					\$ 500,000	D U			\$ 5,000,000	C U		

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO.	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE FUNDING	FY 2025	PHASE FUNDING	FY 2026	PHASE FUNDING	FY 2027	PHASE FUNDING	FY 2028	PHASE FUNDING	FY 2029
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	DAM SAFETY - KAHAKAPAO 50 MG RESERVOIRS PRIORITY #3 FY2015 ASSESSMENTS (WC0855 OCEANIT) FY2023 EMBANKMENT STABILITY ANALYSIS/SITE SURVEY FY2026 DESIGN/FY2028 CONSTRUCTION HIGH HAZARD CLASSIFICATION								\$ 800,000	D	U	
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	DAM SAFETY - MAHINAHINA WTP RESERVOIR FY2015 ASSESSMENTS (WC0855 OCEANIT) FY2026 DESIGN/FY2028 CONSTRUCTION (NO SEI) NO STABILITY ANALYSIS NEEDED HIGH HAZARD CLASSIFICATION							\$ 1,700,000	C	U		
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	DAM SAFETY - WAIKAMOI TWIN 15 MG RESERVOIR FY2015 ASSESSMENTS (WC0854 YOGI KWDNG) FY2023 EMBANKMENT STABILITY ANALYSIS/SITE SURVEY FY2026 DESIGN/FY2028 CONSTRUCTION SIGNIFICANT HAZARD CLASSIFICATION				\$ 300,000	D	U			\$ 550,000	D	U
CBS-1075	Countywide	WTP OPS	COUNTYWIDE FACILITY IMPROVEMENTS	DAM SAFETY - WAIKAMOI DAM #2 (ARCH DAM) FY2015 ASSESSMENTS (WC0855 OCEANIT) FY2026 DESIGN/FY2028 CONSTRUCTION (NO STABILITY ANALYSIS NEEDED) LOW HAZARD CLASSIFICATION				\$ 52,500	D	U			\$ 350,000	C	U

FISCAL YEAR 2025 - DEPARTMENT OF WATER SUPPLY - CIP BUDGET (DEPARTMENT PROPOSED) - PRINTED: 10/8/2024

CBS NO	DISTRICT	REQUESTOR	APPROPRIATION TITLE	PROJECT DESCRIPTION	FY 2024	PHASE	FUNDING	FY 2025	PHASE	FUNDING	FY 2026	PHASE	FUNDING	FY 2027	PHASE	FUNDING	FY 2028	PHASE	FUNDING	FY 2029
PLANT OPERATIONS DIVISION - WELL AND BOOSTER PUMP REPLACEMENTS (NOTE- PLANT OPERATIONS TO MANAGE PROJECT)																				
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	COUNTYWIDE WELL AND BOOSTER PUMP REPLACEMENTS *REFER TO DEAN'S LIST FOR SPECIFIC PROJECTS - * FY-2025 LOWERED FROM \$6.0 MILLION	\$ 3,150,000	C	U	\$ 3,000,000	C	U	\$ 5,000,000	C	U	\$ 5,000,000	C	U	\$ 5,000,000	C	U	\$ 5,000,000
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	COUNTYWIDE WELL AND BOOSTER PUMP - EMERGENCY GENERATORS *REFER TO DEAN'S LIST FOR PRIORITY SITES - \$3 MIL FROM WILDFIRE FUNDS* * SEEK FED. USACE FUNDING			\$ 6,000,000	C	S	\$ 5,000,000	C	S	\$ 5,000,000	C	S					
PLANT OPERATIONS DIVISIONS - MOTOR CONTROL CENTER UPGRADES (NOTE- ENGINEERING DIVISION TO MANAGE PROJECT)																				
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KANOA WELL - MOTOR CONTROL CENTER UPGRADE (FY2021 DESIGN - WC1159 Kralg Otam Engr) Contract fabricated \$ 251,789.00																
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KOALI BOOSTERS - MOTOR CONTROL CENTER (FY2021 DESIGN - WC1166 ECM)																
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	MALAIHI BOOSTER PUMP - MOTOR CONTROL CENTER UPGRADES			\$ 150,000	D	U	\$ 1,500,000	C	U								
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KANAHA WELLS - MOTOR CONTROL CENTER UPGRADES W/EM GEN (FY2020 DESIGN - WC1112 MK Engr) - FY2023 FUNDS LAPSE FY2025 - CONSTRUCTION (or FY24 BUDGET AMENDMENT)			\$ 2,000,000	C	U											
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	WAIPIUKA WELLS - MOTOR CONTROL CENTER UPGRADE W/EM GEN (FY2020 DESIGN - WC1112 MK Engr) - FY2023 FUNDS LAPSE FY2025 - CONSTRUCTION (or FY24 BUDGET AMENDMENT)			\$ 2,000,000	C	U											
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KALAE BOOSTER PUMP - MOTOR CONTROL CENTER AND ELECTRICAL UPGRADE *PENDING ROE FROM DHHL													\$ 400,000	D	U	\$ 2,100,000
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KEAWELA WELLS - MOTOR CONTROL CENTER UPGRADE **NEED DESIGN PLANS - PLANS NOT DONE WITH KEANAE**													\$ 100,000	D	U	\$ 500,000
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KAMILILOA BOOSTER PUMPS - MOTOR CONTROL CENTER UPGRADE (Building re-built, small 15 hp pump)													\$ 200,000	D	U	\$ 1,000,000
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KEPAHWAI WELL - MOTOR CONTROL CENTER UPGRADE (WCDB78 MITSUNAGA/DWS JOB NO 16-04) (existing 4'x6' shed - need land for building)			\$ 200,000	D	U	\$ 2,000,000	C	U								
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	NAHILI WELL 'A' - GAC VESSEL REPLACEMENT - * SEEKING STATE/EPA FUNDING - DOM-SDWB SRF-GRANT			\$ 50,000	D	S	\$ 1,000,000	C	S								
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	HONOKAHUA WELL B - MOTOR CONTROL CENTER AND ELECTRICAL UPGRADES (Building/Pre-Fab leaking/roof sagging) - need land (cannot even fit stand-by generator)													\$ 150,000	D	U	\$ 1,000,000
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KULA AG PARK BOOSTER PUMPS - MOTOR CONTROL CENTER AND ELECTRICAL UPGRADES - UNDER THE DEPT OF AGRICULTURE																
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	N WAIHEE WELL - MOTOR CONTROL CENTER AND ELECTRICAL UPGRADES													\$ 200,000	D	U	\$ 1,500,000
CBS-1075	Countywide	PLANT OPS	COUNTYWIDE FACILITY IMPROVEMENTS	MOKUHAU WELLS - MOTOR CONTROL CENTER UPGRADE **FY2018 CONSTRUCTION COMPLETED 12/2022**																
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	KAUPAKALUA WELL & BOOSTER PUMP - MOTOR CONTROL CENTER UPGRADE **CONSTRUCTION IN PROGRESS**																
ALL DIVISIONS - MISCELLANEOUS																				
CBS-1075	Countywide	FIELD OPS	COUNTYWIDE FACILITY IMPROVEMENTS		half amounts		half amounts		half amounts		half amounts									
CBS-4615	Countywide	ALL	COUNTYWIDE WATER SYSTEM MODIFICATIONS	COUNTYWIDE WATER SYSTEM MODIFICATIONS	\$ 250,000	C	U	\$ 250,000	C	U	\$ 250,000	C	U	\$ 250,000	C	U	\$ 500,000	C	U	\$ 500,000
CBS-1075	Countywide	ALL	COUNTYWIDE FACILITY IMPROVEMENTS	COUNTYWIDE FACILITY IMPROVEMENTS - UNFORESEEN	\$ 250,000	C	U	\$ 250,000	C	U	\$ 250,000	C	U	\$ 250,000	C	U	\$ 500,000	C	U	\$ 500,000
CBS-2299	Countywide	ALL	COUNTYWIDE UPGRADES & REPLACEMENTS	COUNTYWIDE UPGRADES AND REPLACEMENTS - UNFORESEEN	\$ 250,000	C	U	\$ 250,000	C	U	\$ 250,000	C	U	\$ 250,000	C	U	\$ 500,000	C	U	\$ 500,000
CBS-2299	Countywide	ALL	COUNTYWIDE UPGRADES & REPLACEMENTS	COUNTYWIDE UPGRADES AND REPLACEMENTS - PROJECT MANAGEMENT	\$ 500,000	D	U													
CBS-1075	Countywide	ENGIN	COUNTYWIDE FACILITY IMPROVEMENTS	5th FLOOR RENOVATION			\$ 550,000	C	U											
CBS-1075	Countywide	FIELD OPS	COUNTYWIDE FACILITY IMPROVEMENTS	SAINTARY SURVEY DEFICIENCIES	\$ 100,000	C	U	\$ 100,000	C	U	\$ 100,000	C	U	\$ 100,000	C	U	\$ 100,000	C	U	\$ 100,000
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	WEST MAUI SYSTEM ANALYSIS - UNDER CONTRACT WITH CAROLLO ENG																
CBS-2299	Countywide	PLANT OPS	COUNTYWIDE UPGRADES & REPLACEMENTS	CENTRAL MAUI SYSTEM ANALYSIS - UNDER CONTRACT WITH CAROLLO ENG																
TOTAL FUNDING					\$ 10,400,000			\$ 49,200,000			\$ 154,385,500			\$ 59,288,000			\$ 116,400,000			\$ 195,425,000

Additionally, DWS pursued two key initiatives in the last year: the completion of an asset condition assessment and the development of a hydraulic model.

Hydraulic Model:

Carollo Engineers is developing a comprehensive electronic model of the entire DWS public water system. The model is currently in the calibration stage of development. Utilizing inputs of daily demand throughout the system, the model performs complex calculations using the Hardy-Cross method to iteratively determine flow in pipes. By programming the model in accordance with the Water System Standards, DWS Engineering will be able to see where the system exceeds velocity and pressure standards, opportunities for strategic placement of additional storage, any other factors that will facilitate the Capital Improvement Program (CIP).

When discretionary permits are under review, particularly applications for rezoning, DWS staff will be able to utilize the model to assess the impacts of the development, allowing for the institution of project-specific conditions of approval related to public water system improvements.

The model will run fire flow calculations considerably faster than DWS staff is currently able to perform the same calculations.

The model will be programmed to include full build-out demands based on adopted community plans. This model scenario will help DWS determine development-driven system upgrades for use in the CIP. DWS will also be able to compare development applications to the demand assumptions in the full build-out scenario to determine consistency with the model, which will improve approval timeframes.

Condition Assessment:

Carollo Engineers is conducting a condition assessment of above-ground DWS facilities such as wells, pumps, tanks, booster pump stations, and water treatment facilities. This assessment will result in a comprehensive inventory of above-ground assets, their current condition, a probability and consequence of failure analysis, and recommendations for repair priority in near term, medium term, and long term.

DWS has received and is reviewing the draft condition assessment report.

Leak Detection and Mitigation:

DWS Field Operations and Plant Operations staff conduct ongoing repairs to address leakage in distribution system pipes and storage tanks. In addition to tank leak repair, Plant Operations also works continuously to repair and/or replace well and booster station pumps to maintain reliable system capacity.

DWS Engineering coordinates with Asterra, a satellite-based leak detection vendor, to assess broad areas of potential leakage in the system, allowing Field Operations staff

to focus its leak detection efforts in areas of higher suspected daily system leakage, based on the findings of the satellite observation.

D. Status of efforts to secure outside funding

The source development and infrastructure needs for DWS far exceed the funding resources available. The DWS operates under an enterprise fund that typically covers all operational and capital needs. Therefore, the DWS has embarked on a major initiative to identify and attempt to secure outside funding. A summary of these efforts was provided to Council and are resubmitted below.

The following is the breakdown for FY2025 below:

- \$2.500 Million - Upper Kula Water Transmission Replacement (construction costs)
 - Federal Funding Sources - 1st choice – Federal Emergency Management Agency – Hazard Mitigation Grant Program - currently working on this HMGP application.
 - 2nd choice – U.S. Army Corps of Engineers (USACE) - under their "resiliency and redundancy" program
 - Currently, project is in design - 60% complete - Final Bid Documents due 4-4-2025
- \$6.850 Million – Miscellaneous Projects
 - \$6.0 Million - Emergency Generators (permanent) - Furnish, deliver, install.
 - Federal Funding Sources - 1st choice - **FEMA HMGP - currently working on this HMGP application.
 - 2nd choice - USACE - under their "resiliency and redundancy" program
 - **Note: the FEMA HMGP application amount is for \$16.0 million over 3-years (FY25-\$6M, FY26-\$5M, FY27-\$5M).
 - \$800,000 - based on the East Maui Source Development – Feasibility Study - Monitoring Well

This funding is for the design & construction of a monitoring well within the Haiku Consent Decree area.

- The decree prohibits DWS from drilling any type of groundwater well. Thus, DWS is deferring this monitoring well to the USGS to construct.

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 43

- (Monitoring wells are environmental assessment exempt.)
- Federal Funding Source - USACE Grant Funding
- \$50,000 - Preliminary Design for the Napili "C" GAC (Granulated Activated Carbon) System replacement.
 - Federal Funding Source - EPA-State of Hawaii Department of Health – Safe Drinking Water Branch – State Revolving Funds loan with approx. 50% "Principle Forgiveness"

The Department has retained Stantec Consultants, Inc. to assist the Department regarding grant funding for CIP projects. In coordination with DWS's FEMA Public Assistance professional services contract, Stantec is also contracted to compile a grant funding strategy, coordinate post-disaster funding from non-FEMA federal agencies, and assist in developing grant applications from December 2023 – June 2025. DWS staff leading the grant effort including the Engineering Program Manager and the CIP Head Engineer.

The table below summarizes the current grant activity. Additional information is included in two attachments:

Attachments:

- 1- MDWS Funding Plan Priority Projects July 2024.pdf
- 2- DWS-CIP FY 2025 Federal Funding Presentation June 2024.pdf

Honorable Tasha Kama, Chair
Housing and Land Use Committee
Maui County Council
October 8, 2024
Page 44

(a) Funding Program	(b) When Submitted	(c) Project	(d) \$	(e) Result	(f) Purpose
ARPA	Spring 2023	Kahana Well Development	\$16,640,000	Approved	Construction and construction management services for the Kahana Well in Lahaina
EPA Community Projects FY24	Spring 2023	Upper Kula Transmission Improvements	\$6,000,000	Denied	Improve waterline damaged in 2021 storm
EPA Community Projects FY24	Spring 2023	Mahinahina Backup well	\$5,000,000	Denied	Install backup water supply
EPA Community Projects FY24	Spring 2023	Haiku-Kauhikoa Tank Replacement	\$1,500,000	Approved	Replace leaking tank past service life
EPA Community Projects FY24	Spring 2023	Olinda WTP 3-MG Steel Clearwell Roof Refurbishment	\$2,000,000	Denied	Address aging infrastructure deficiencies at critical water infrastructure site
EPA Community Projects FY25	Spring 2024	Lahaina Water Resilience and Hardening	\$9,600,000	Pending. \$4,100,000 included in FY25 senate budget	Address aging infrastructure deficiencies at critical water infrastructure sites in Lahaina. \$4,100,000 for Mahinahina Backup Well project
USACE Water Resources and Development Act Section 219	Spring 2024	Lahaina Firefighting Capacity - design	\$4,000,000	Denied	Design water system capacity upsizing project to meet fire codes and standards
USDA Project Planning and Design Grant	Summer 2024	Molokai backup wells - design	\$125,000	Approved	Conduct preliminary design and environmental reviews for Ualapue and Kawela Backup Wells

Thank you for the opportunity to provide our comments relating to this agenda item. If you have any questions, please free to contact me.

Sincerely,



JOHN STUFFLEBEAN, P.E.
Director

JS:lkk
Attachments

Project Name	Area served	Project Cost	Design and Construction year	Primary funding	Secondary funding (backup and/or as match)
Lahaina Well package - Launipoko Well #1 and #2, Honoioa Well H1 and H2	Lahaina	\$43.1 M	FY24-26 (design), FY25-26 (construction)	FEMA Hazard Mitigation Grant Program	CDBG-DR (match) Maui Strong fund (match) EPA Drinking Water System Infrastructure Resiliency and Sustainability Grant
Lahaina Water Infrastructure Resiliency and Hardening	Lahaina	\$12.05 M	FY25 (construction)	EPA Congressionally Directed Spending - Submitted May 2024 with Sen. Schatz and Rep. Tokuda	HI-DOH DWSRF (on FY25 IUP) CDBG-DR (as match) Maui Strong Fund (as match)
Kamole WTP Raw Water Reservoirs (2x 70MG)	Upcountry (Makawao-Pukalani-Kula)	\$26.8 M	FY25 (design), FY26 (construction)	FEMA Hazard Mitigation Grant Program	USACE General Investigation, USBR Small Storage Program
Upper Kula Transmission Improvements	Kula	\$10.0 M	FY24 (design), FY25 (construction)	FEMA Hazard Mitigation Grant Program	HI-DOH State Revolving Fund (on IUP)
Emergency Generators	County-wide	\$24.0 M	FY25 (construction)	FEMA Hazard Mitigation Grant Program	CDBG-DR (as match), Maui Strong Fund (as match), EPA Drinking Water System Infrastructure Resiliency and Sustainability Grant
Upcountry Maui Water Reliability and Well Development	Upcountry (Makawao-Pukalani-Kula)	\$13.6 M	FY25 (design), FY26 (construction)	FEMA Hazard Mitigation Grant Program	USBR Drought Resiliency Projects, USACE Environmental Infrastructure
Molokai Backup Well Package	Molokai	\$15.0 M	FY25-26 (design), FY28 (construction)	USDA Water/Waste Disposal Grant/Loan Program	EPA Community Change Grants bundled application, USACE CAP Pilot Section 165(a)
Lahaina Water Firefighting Capacity Project	Lahaina	\$78.70 M	FY25 (design), FY26 (construction)	USACE Section 219 Environmental Infrastructure for design funds (Submitted May 2024 with Sen. Schatz) FEMA PA (TBD based on damage assessment), FEMA Hazard Mitigation Grant Program	CDBG DR (as match) Maui Strong Fund (as match) EPA Drinking Water System Infrastructure Resiliency and Sustainability Grant
Lahaina R-1 Recycled Waterline for Firebreak	Lahaina	\$85.0 M	FY26 (design), FY28 (construction)	FEMA Hazard Mitigation Grant Program, part of FEMA BRIC Greenway Application	USDOT PROTECT or ATIIP USBR Title XVI Recycled Water USACE General Investigation (not good fit)

Maui Department of Water Supply
 Long-term Recovery Funding Strategy
 Version 07/05/2024 for internal distribution only. Printout 10/1/2024 for Committee response

Project Name	Area served	Project Cost	Design and Construction year	Primary funding	Secondary funding (backup and/or as match)
Upcountry Emergency Supply Connection Waterline	Paia-Kuuu, Central and Upcountry systems	\$3.8 M	FY25 (design), FY27 (construction)	FEMA HMGP	EPA Drinking Water System Infrastructure Resiliency and Sustainability Grant HI-DOH DWSRF
Desalination South Maui	Kihei-Makena	\$80.5 M	FY26 (design), FY29 (construction)	USBR Title XVI Desalination (Planning opportunity in Winter 2025, Construction opportunity after feasibility study complete)	EPA WIFIA loan
Desalination West Maui	West Maui	\$80.5 M	FY26 (design), FY29 (construction)	USBR Title XVI Desalination (Planning opportunity in Winter 2025, Construction opportunity after feasibility study complete)	EPA WIFIA loan
Honokahau Valley Direct Bury Waterline	West Maui	\$3.3 M	FY25 (design), FY27 (construction)	USDA Water/ Waste Disposal Grant/Loan Program	Bundled with EPA Community Change Grants application for Molokai EPA Congressionally Directed Spending (Sen. Schatz) in future FY
Waihee Aquifer New Source Development	Wailuku-Kahului	\$5.5 M	FY26 (design), FY28 (construction)	HI-DOH State Revolving Fund (EPA)	USACE Environmental Infrastructure in future FY
Napili Well "A" and Honokahua Well "A" GAC Vessel Replacement	West Maui	\$1.05 M	FY25 (design), FY26 (construction)	HI-DOH Emerging Contaminant funds (EPA) (on FY25 IUP)	HI-DOH State Revolving Fund (EPA)
Honokahua Well B Motor Control Center Upgrades	West Maui	\$1.15 M	FY28 (design), FY29 (construction)	EPA Congressionally Directed Spending (Sen. Schatz) in FY26 or FY27	HI-DOH Emerging Contaminant BIL Funds packaged with Honokahua Well A GAC replacement as non-primary purpose

DEPARTMENT OF WATER SUPPLY

FISCAL YEAR 2025

**DEPARTMENT PROPOSED
FEDERAL FUNDING SOURCES**



Budget changes due to wildfire event

Lahaina Redevelopment Funding included in FY25 Mayor's overall budget:

- ❖ Planning/Design & Construction for Waterline Replacements
- ❖ Additional Consultant Services (FEMA Related Reporting)
- ❖ Lahaina Infrastructure Recovery – Planning/Design & Construction

Noted impacts: Delay in CIP Project environmental assessments (EAs) and permitting reviews due to reduced consultant/contractor availability to perform archeological and cultural assessments.

Currently underway: Strategic Funding Assessment

Consultant (Stantec) is identifying strategic funding matches for DWS capital projects

Capital project database (\$1.2B in capital needs from FY23-FY30)

Countywide	Project Name	Project Description
Countywide	Kamukaha Booster Pumps - Motor Control Center Upgrade	***NEED DESIGN PLANS PLANS NOT DONE WITH BEARING** KAMUKAHA BOOSTER PUMPS - MOTOR CONTROL CENTER UPGRADE (under 15 cap amount)
Countywide	Kilauea Well - Motor Control Center Upgrade	KILAUEA WELL - MOTOR CONTROL CENTER UPGRADE (under 15 cap amount) JOB NO: 18-064 ENTERING 4/16 2023 - 2023 (see for budget)
Countywide	Rapah Well A - GAC Vessel Replacement	RAPAH WELL A - GAC VESSEL REPLACEMENT - **SEWER STATE/FPA/LEACHING CONTAMINANT FUNDING - DDH-20
Countywide	Honouliuli Well B - Motor Control Center and Electrical Upgrades (Building Insulation and Sealing)	HONOUULIULI WELL B - MOTOR CONTROL CENTER AND ELECTRICAL UPGRADES (BUILDING INSULATION AND SEALING) - NEED LEAD (cannot meet 611)
Countywide	H. Walker Well - Motor Control Center and Electrical Upgrade	H. WALKER WELL - MOTOR CONTROL CENTER AND ELECTRICAL UPGRADE
Countywide	Additional Storage Tanks - Plus for Additional Need	Additional storage capacity identified to build a fire-resistant water storage tank
West Maui, Upco	Improve surface water intakes - Plus for Additional Need	Additional surface water intake improvements in Uluksala and Wini to build a fire-resistant water system in Uluksala
West Maui, Lanai	Improve Raw Water Storage - Plus for Additional Need	Additional private reservoir opportunities for storage identified to build water system in Lanai
Countywide	Acquire and refurbish existing private reservoirs - Plus for Additional Need	Acquire and refurbish existing private reservoirs in Lanai, in an effort to build a fire-resistant water system in Lanai
West Maui, Upco	Develop Water Intakes and Reservoirs - Plus for Additional Need	Develop water intakes and reservoirs in Lanai, in an effort to build a fire-resistant water system in Lanai
Countywide	Develop Water Sources - Plus for Additional Need	Additional water sources identified to build a fire-resistant water system in Lanai
West Maui, Upco	Detachable Barriers - Plus for Additional Need	Detachable barriers identified to build a fire-resistant water system in Lanai
Countywide	Emergency Generators - Plus for Additional Need	Emergency generators for water and sewer stations identified to build a fire-resistant water system in Lanai
Countywide	Exterior Sewer Systems - Plus for Additional Need	Exterior sewer systems identified to build a fire-resistant water system in Lanai
Countywide	Fire Hydrants - Plus for Additional Need	Fire hydrants identified to build a fire-resistant water system in Lanai

Grant database (\$6B in annual funding available from compiled programs)

Category	Description	Eligible projects	Eligible project in priority areas
Water infrastructure, water system resilience	Water infrastructure, water system resilience	Water and capital projects including, but not limited to, water treatment plants, water distribution systems, and water storage facilities. Projects that improve water system resilience and reduce the risk of water system failure are eligible.	Water and capital projects including, but not limited to, water treatment plants, water distribution systems, and water storage facilities. Projects that improve water system resilience and reduce the risk of water system failure are eligible.
Water infrastructure, water system resilience	Water infrastructure, water system resilience	Water and capital projects including, but not limited to, water treatment plants, water distribution systems, and water storage facilities. Projects that improve water system resilience and reduce the risk of water system failure are eligible.	Water and capital projects including, but not limited to, water treatment plants, water distribution systems, and water storage facilities. Projects that improve water system resilience and reduce the risk of water system failure are eligible.
Water infrastructure, water system resilience	Water infrastructure, water system resilience	Water and capital projects including, but not limited to, water treatment plants, water distribution systems, and water storage facilities. Projects that improve water system resilience and reduce the risk of water system failure are eligible.	Water and capital projects including, but not limited to, water treatment plants, water distribution systems, and water storage facilities. Projects that improve water system resilience and reduce the risk of water system failure are eligible.
Water infrastructure, water system resilience	Water infrastructure, water system resilience	Water and capital projects including, but not limited to, water treatment plants, water distribution systems, and water storage facilities. Projects that improve water system resilience and reduce the risk of water system failure are eligible.	Water and capital projects including, but not limited to, water treatment plants, water distribution systems, and water storage facilities. Projects that improve water system resilience and reduce the risk of water system failure are eligible.

Note: screenshots intentionally small. Intended to demonstrate the process.

CIP - STATE AND FEDERAL FUNDING SOURCES

- * FEMA – Hazard Mitigation Grant Program (HMGP)**
- * FEMA – Flood Hazard Mitigation Grant Program (FHMGP)**
Dam Safety – Raw Water Reservoir Improvements
- * US ARMY CORPS OF ENGINEERS (USACE)**
- * EPA & STATE DOH-SDWB State Revolving Funds**
- * US Department of Agriculture (USDA)**
- * BUREAU OF RECLAMATION**
- * SENATOR SCHATZ – FEDERAL APPROPRIATIONS
EARMARKS**



Federal Emergency Management Agency (FEMA)

Typical projects funded	Reduce disaster losses. Protect life, critical infrastructure, and property from future disasters
Grant programs	<ol style="list-style-type: none">1. Hazard Mitigation Grant Program (HMGP)2. Post-Fire Hazard Mitigation Grant Program (Post-Fire HMGP)3. High Hazard Dam Program (HHDP)4. Building Resilient Infrastructure and Communities (BRIC)5. Flood Mitigation Program (FMA)
Example projects for FY 2025 funding	<ul style="list-style-type: none">• Upper Kula Transmission Improvements – HMGP• Emergency Generators – Post Fire HMGP• New Transmission Waterline From H-Poko Wells To Sprecklesville - HMGP
Example Future Projects	<ul style="list-style-type: none">• Olinda WTP Raw Water Reservoir - Dam Safety Improvements – HHDP• Waikamoi Twin 15 Million Gallon Raw Water Reservoir - Dam Safety Improvements – HHDP

US Army Corps of Engineers (USACE)

Typical projects funded

Water-related environmental infrastructure including water supply, storage, treatment, distribution systems.

Grant programs

1. Planning Assistance to States (WRDA Section 22)
2. Continuing Authorities Program
3. Environmental Infrastructure Program (WRDA Section 219)
4. General Investigation (Large-scale infrastructure projects)

Example projects for FY 2025 funding

- **Environmental Infrastructure** – *broad eligibility, projects still being identified*
- **Watershed Ecosystem Restoration** – CAP Section 206
- **Baseyard Tsunami Zone Protection** – CAP Section 205

Example Future Projects

- **Environmental Infrastructure** – *broad eligibility, projects still being identified*

Environmental Protection Agency

Typical projects funded

Broad eligibility of most drinking water treatment infrastructure projects. Includes transmission and distribution, source development or aquifer storage and recovery, recycled water, storage, consolidation, creation of new water systems. Projects that increase resilience and reliability of drinking water infrastructure.

Grant programs

1. Drinking Water State Revolving Fund
2. Clean Water State Revolving Fund
3. Midsize and Large Drinking Water System Infrastructure Resilience and Sustainability Program (SDWA 1459F)
4. Community Change Grants
5. Emerging Contaminant BIL Funding
6. Drinking Water System Infrastructure Resiliency and Sustainability Grant (SDWA 1459(I)) - small systems
7. Operational Sustainability of Small Public Water Systems

Environmental Protection Agency

Example projects for FY 2025 funding

- **Napili and Honokohua Wellfield GAC System** - Emerging Contaminant BIL funds
 - **Olinda WTP Chlorination Upgrades** – Emerging Contaminant BIL funds
- *Broad eligibility, projects still being identified*

Example Future Projects

Molokai Back-up Source Wells:

- **Ualapue Well #2 Exploratory & Development Phases** – Community Change Grants
- **Kawela Well #2 with Storage Tank - Exploratory & Development Phases** – Community Change Grants

US Bureau of Reclamation

Typical projects funded Projects that **increase water supply** and **reduce water losses** through investments to modernize existing infrastructure

Grant programs

1. Title XVI Water Recycling Construction Projects
2. Title XVI Desalination Construction Projects
3. Drought Resiliency Projects (DRP)
4. Water and Energy Efficiency Grants (WEEG)
5. Aquatic Ecosystem Restoration Grant Program (AERP)
6. Environmental Water Resources Projects (EWRP)
7. Small Storage Program
8. Small Scale Water Efficiency Projects

Planning/Design/Piloting Grants

1. Desalination and Water Purification Research Program
2. Project Design Grants
3. Title XVI Water Recycling and Desalination Planning Grants
4. Water Strategy Grants

US Bureau of Reclamation

Example projects for FY 2025 funding

- **Launiupoko Wells #1 and #1, Honolulu Wells H1 and H2 – Drought Resiliency Projects**
- **Kamole WTP Raw Water Reservoirs 2 x 70 MG – Small Storage Program**
- **Malaihi Booster Pump Station Motor Control Center Upgrades – Water and Energy Efficiency Grants**

Example Future Projects

- **Desalination Water Treatment Plant - Title XVI Desalination**
- **R-1 Transmission Waterline – Title XVI Recycling**
- **Motor Control Center Upgrades – Water and Energy Efficiency Grants**
- **Water Treatment Plants - SCADA Upgrades – Small Scale Program**

US Department of Agriculture – Rural Development

Typical projects funded

Drinking water sourcing, treatment, storage and distribution projects that improve drinking water system access and reliability in eligible rural areas.

Projects in areas where income is lower than statewide median are eligible for grants, all others only available as loans.

Grant programs

1. Water and Waste Disposal Loan Grant Program
2. Emergency Community Water Assistance Grants

Example projects for funding

- Aging infrastructure projects in Districts below the **income threshold** (Molokai, Hana, Lahaina) - Water and Waste Disposal Grant Program
- *The USDA Maui Representative has received a project list and will determine which projects would best fit for their funding.*

Federal Appropriations – Earmarks

Typical projects funded

Drinking water sourcing, treatment, storage and distribution projects.

Sen. Schatz has requested projects that are **shovel-ready** and are **hard to fund using other federal funding programs**.

Grant programs

1. Congressionally Directed Spending Request (“Earmarks”)

Example projects for FY 2025 funding

- **Kanaha Wells - Motor Control Center Upgrades W/Emergency Generator (Lahaina)**
- **Waipuka Wells - Motor Control Center Upgrade W/Emergency Generator (Lahaina)**
- **Waiehu Heights Well 1 Replacement (Wailuku-Kahului) – Development Phase**

Example Future Projects

- **Holomakani Tank Replacement (Kula)**
- **Greenways R1 Waterline (Lahaina)**
- **Lahaina WTP - Fire System Upgrade (Lahaina)**
- **Honokohau Valley Direct Bury Waterline (Honokohau)**
- **Koali High-Level Water Tank Replacement (Hana)**

Federal Appropriations – Earmarks FY 2023-24 CIP Projects Submitted:

Project Name	Funding Source	Funding Amount	Fiscal Year	Awarded
Upper Kula Transmission Improvements Design & Construction	CDS-CPF FEDERAL FUND/ FEMA FUND	\$ 6,000,000	FY - 2024 FY - 2025	Re-Apply for FY 2025 Funding
Mahinahina Well #1 (Back-up Well) Construction	CDS-CPF FEDERAL FUND	\$ 5,000,000	FY - 2024 FY - 2025	Re-Apply for FY 2025 Funding
Haiku-Kauhikoa Tank Replacement (250,000 gal) Construction	CDS-CPF FEDERAL FUND	1,500,000	FY - 2023	YES \$1,500,000
Olinda WTP 3-MG Steel Clearwell Roof Refurbishment Construction	CDS-CPF FEDERAL FUND	2,000,000	FY - 2023	In Construction Not Funded

QUESTIONS ?

- THANK YOU -

DEPARTMENT OF WATER SUPPLY

ENGINEERING DIVISION

- CIP SECTION -



HLU Committee

From: Michelle Santos <Michelle.Santos@co.maui.hi.us>
Sent: Wednesday, October 9, 2024 8:59 AM
To: HLU Committee
Cc: Cynthia Sasada; James Landgraf; John Stufflebean; Josiah Nishita; Linda Kimura; Kelii Nahooikaika; Carla M. Nakata
Subject: MT#10802 Housing Solutions
Attachments: Scanned from a Xerox Multifunction Printer_51.pdf

NOTE: PLEASE DO NOT FORWARD MY EMAIL TO ANYONE OUTSIDE OF THE COUNTY OF MAUI. YOU MAY CLICK ON THE ATTACHMENT ITSELF AND CREATE YOUR OWN EMAIL TO FORWARD THE DOCUMENT TO ANOTHER PERSON OUTSIDE OF THE COUNTY.

Michelle L. Santos

Office Operations Assistant

Office of the Mayor

County of Maui

200 S. High Street 9th Floor

Wailuku, HI 96793

phone: (808) 270-7855

fax: (808) 270-7870