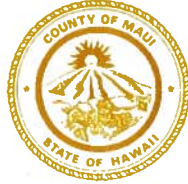


RICHARD T. BISSEN, JR.
Mayor

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>

September 4, 2024

TO: RICHARD T. BISSEN, JR., MAYOR
JOSIAH K. NISHITA, MANAGING DIRECTOR

FROM: JOHN STUFFLEBEAN, P.E., DIRECTOR
JAMES A. LANDGRAF, DEPUTY DIRECTOR
DEPARTMENT OF WATER SUPPLY

SUBJECT: MONTHLY REPORT FOR AUGUST 2024

WATER SOURCE REPORTS

The following reports are submitted to Council under separate cover:

- The water source development report, a new report submitted for the first time this month, which describes all efforts underway by the Department of Water Supply Countywide to develop new source of water.
- The monthly source report and groundwater use report.
- The water use reports received from the State of Hawaii Commission on Water Resource Management for all registered wells as required by Section 2.90A.050 (Report of Use) of the Maui County Code.

ADMINISTRATION

Personnel Issues

- The Equipment Operator III position, (P-27935) was filled by Kimo Needham effective 8/01/2024.
- PWOE recruitment for the Water Treatment Plant Operations/Maintenance Supervisor position (P-27913) began effective 8/02/2024.
- The DWS FY2025 Functional and Organizational charts were submitted for review/approval effective 8/08/2024.
- The Civil Engineer V position, (P-27697), was reallocated to Civil Engineer III effective 8/01/2024. R-10465 was posted for open recruitment effective 8/12/2024.

"By Water All Things Find Life"

- The Planner VI position, (P-27795) was posted for open recruitment (R-10467) effective 8/12/2024.
- The 3rd Quarter Drug and Alcohol Testing for Commercial Driver's License (CDL) holders was conducted from 8/12 – 8/30/2024.
- The Accountant II position, (P-27700) was posted for open recruitment (R-10504) effective 8/26/2024.
- The Meter Reader I position, (P-28006) was posted for open recruitment (R-10505) effective 8/26/2024.
- One hundred ninety training courses were completed through Workday Learning and Vector Solutions learning management platforms.

Council Interactions

- 8/8/24 Meeting with CM Cook and Department of Environmental Management to discuss scope for preliminary engineering report for expansion of recycled water to South Maui.
- 8/12/24 Meeting with CM Shane Sinenci's Executive Assistant, Dawn Lono, Gina Young and Lammers regarding Hana Water System North, Hana Ranch.
- 8/20/24, BFED Committee, Bill 118 (2024) and Bill 122 (2024); Budget Amendment (Water Operations and Administration Program, East Maui Water Authority Study)
- 8/23/24 Meeting with CM Cook, Hawaii Water Service, Kapalua Golf, Maui Land and Pine, Department of Environmental Management to discuss recycled water for West Maui.

Public Interactions

- The Water Resources and Planning Division hosted a successful public outreach booth on August 17, 2024 at the Upcountry Farmer's Market to provide water conservation information and free water-conserving fixtures.
- The Planning Program Administrator served as a panelist and presented to the Maui Economic Recovery Commission on water governance and water system structures on August 9, 2024.
- Staff participated in an August 14 stakeholder meeting in Haiku consulting on stream restoration of Haiku streams.
- The West Maui and Upcountry Stage 1 Water Shortage notifications were published in the Maui News on: 8/01, 8/08, 8/15, 8/22 and 8/29/2024.
- The Unsafe Water Advisory was lifted for Lahaina effective 8/02/2024.
- Press releases, website updates, concerning public information are ongoing.
- Long-Term Monitoring lab results were released to the public published on: 8/23/2024.
- Notice of Intent to File Application for federal financial assistance with the U.S. Department of Agriculture, Rural Development, Rural Utilities Service, was published in the Molokai Dispatch on 8/28/2024 and the Maui News on 8/29/2024.

FISCAL DIVISION

- Electronic Bill Payment & Presentment System (EBPP) is going live on September 3, 2024. The new service provider, Point and Pay offers lower convenience fee, and same fee for both commercial and residential.
- Customer Service Data for the August 2024:

Transfer of Owner	116
Closing of Service	40
New Service	73
Meter Upgrade	4
Removal	0
Re-installation	0
Reservation	0
- Leak Adjustments Request (To Date):

Pending	126
Received	517
Completed	391

WATER RESOURCES AND PLANNING DIVISION

- The consultant Brown & Caldwell delivered the draft final report for desalination feasibility studies in South and West Maui and held a workshop for department staff.
- Xylem Vue team held their in-person Maui DWS – Digital Infrastructure Initiative: Digital Roadmap Proposed Initiatives Review Workshop on August 20, 2024.
- Xylem Vue CAD2GIS Solution workflow to and from the department's hydraulic model for the Engineering Division has been drafted for review.
- Staff developed preliminary analysis of water supply availability, shortage findings and recommendations for the Central Maui, Upcountry and West Maui water systems. Staff prepared a Stage 1 shortage declaration for the Central Maui system.
- Eight of ten Grantees for the Fiscal Year 2024 have posted their 2nd Quarter reports and request for payments. Auwahi Forest Restoration Project and the Maui Invasive Species Containment Project are facing delays in reporting.
- The US Bureau of Reclamation Grant R23AP00133 with the Department of Economic Development was closed-out after the approval of the Final Report and Financial Reporting for the department's Water Shortage and Conservation Plan.
- The department's popular county-wide grade school Water Conservation Poster and Source Protection Video Contests are scheduled to recommence with the start of the new 2024-2025 school year.

ENGINEERING DIVISION

Administration

- Working with internal staff and other County departments on infrastructure recovery efforts in response to wildfires. Work includes:
 - Infrastructure meetings.
 - Debris removal coordination meetings at ICS as necessary.
 - Domestic water sampling meetings with EPA and DOH staff.
 - Funding eligibility meetings with consultant team and FEMA staff.
- Development review process improvement.
 - Coordinating with DSA leadership to evaluate limitations to DWS review referrals in specific cases, including private water, Section 6409 exemption, certain zero usage situations, etc.
 - Carollo staff support contract amendment in process.
 - Remote remote desktop control for Carollo has been established and is being tested.
- Specific Tasks:
 - Minor Title 14 amendment to allow discretionary extension of meter reservation expiration dates, based on specific findings, has been approved to form and legality by Corporation Counsel and is now moving forward for transmittal to Council Chair via Mayor's Office.
 - Budget amendments for EMI due diligence and emergency portable generator purchase were reviewed by BFED and recommended for approval by Council. Taking next steps.
 - Kalialinui well offer. Meeting has been scheduled for 9/12 to visit well site with property owner and County personnel to review site conditions, access, compatibility with nearby system components, etc.
 - Evaluating potential acquisition/consolidation of Launiopoko and Olowalu water systems. Working with Stantec on possible public funding assistance for consolidation studies.
 - Reviewing possible purchase of 1.2 MGD well in Pi'iholo area as well as additional well sites to be explored.
 - Collaborating with Water Resources Planning Division to review proposed amendment language for 14.01.040 .
- Program Management:
 - Continuing text development for overall Title 14 amendment. Working with staff and corporation counsel for review and feedback as editing progresses.
 - Continuing overall review/revision of position descriptions for the Division. Last PD review was for CEIV, but have not updated PD text yet.
 - LUPC scanning of permit files continues.
 - Coordinating with DPS staff for Engineering Division reorg design for administration section. The purpose of this potential reorg is to compile administrative staff into a single section that supports the entire division, to establish position compatibility to allow opportunity for upward movement of staff, and to get permit clerks involved in elements of non-residential permit review.

Development Review

- Review volumes for August 2024 are as follows:

• PERMIT TYPE	TOTAL # OF PERMITS IN REVIEW	TOTAL # OF PERMITS NOT YET REVIEWED	TOTAL # OF PERMITS APPROVED IN JULY
Residential Building from Jan. 2022	240	1	88
Residential Plumbing from Jan. 2022	18	0	2

PERMIT TYPE	TOTAL # OF PERMITS IN REVIEW	TOTAL # OF PERMITS APPROVED IN JULY
Commercial, Residential Over Meter Capacity, and Residential Fire Protection Review from Jan. 2022 (applied date)	735	44
Roadway and WTP from Jan. 2022 (applied date)	70	5
Construction Plan Review	24	1
Plumbing from Jan. 2022 (applied date)	33	3
Certificate of Occupancy from Jan. 2022 (applied date)	220	4
Subdivision	9	2

Water System Improvement Projects Currently in Construction/Closeout = 30

General District Work

- Public Interactions:
 - For the month of August, the total amount of public complaints was 8. No public compliments were logged.
- Engineering:
 - Working and coordinating with consultants Stantec, Xylem, and Carollo regarding FEMA reimbursements, data management, the hydraulic model, fire damage assessments, and Miscellaneous Engineering Services assistance. Carollo Engineers continues to assist with permit and plan review work under Miscellaneous Engineering Services.
 - Two of the larger temporary housing project, Kala'iola (HHFDC) and Kilohana (USACE), continue under various stages of design and

- construction. Review of RFI's and material submittals continue for both projects.
- Continuing to work through reducing the backlog of building permit applications.

Capital Improvement Program

General:

- Participated in Tele-conf. and meetings:
 - FEMA Coordination Meeting with Stantec, Brown & Caldwell & Carollo Engineers;
 - Monthly Status meetings with Dept. of Public Works (roads);
 - Bi-Monthly Status meetings with Dept. of Agriculture (related to Kula Ag. Park Booster Pump Building relocation and the development of the new Upcountry Maui Ag. Park);
 - COM & Federal Partner Infrastructure weekly Coordination Mtgs.
 - Desal Study Draft Report Workshop (presented by Brown & Caldwell);
 - Xylem Workshop in Data Management;
 - EPA meeting on Haiku Tank – BABA Waiver request;
- Continued to strategize and identify CIP projects for Federal grant funding (FEMA-HMGP, USBR, USACE, EPA, USDA);
- Continued coordination with consultant (Kim Pugel – Stantec) on developing federal funding strategies for CIP projects and applications.

Construction Projects in Progress:

- West Maui Source Dev. - Kahana Well Development – Construction (60% complete)
 - RFIs on-going, Submittals nearly complete.
 - 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)
 - 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)
 - Pookela BP Station – 95%
 - Physical connection of new pump and waterline improvements scheduled for August.
 - Maluhia BP Station – 95%
 - Construction of new MCC building near completion
 - Contractor to chlorinate and tie-in new piping to existing connections.
 - West Olinda BP Station – 85%
 - Contractor to chlorinate and tie-in new piping to existing connections.

- Wailuku Waterline Replacement (90% complete)
 - Pipeline installation work is continuing with little disruption.
 - Contractor (Hawaiian Dredging) ahead of schedule.
 - DWS & DPW in collaboration on the street paving and cost share
- Waiehu Heights Well 1 Replacement - Exploratory Drilling (99% complete)
 - Capping the well head and construct a concrete pad around the wellhead is completed.
 - Engineering Consultant preparing "Well Completion Report" for 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
 - EPM is investigating/revising modular cubicle systems with a vendor.
 - tentative Bid Advertise Date: Sept 2024.
- Koali Motor Control Center and Electrical Upgrades (no change)
 - Reviewing Change Order for cost escalation and arch. Monitoring requirement.
- Olinda Water Treatment Plant Sludge Basin Underdrain Replacement *In-House Design* (no change)
 - Field Opts has been busy with higher priority work/repairs (Lahaina Recovery Efforts).
 - work on hold – TBD.
- Haiku-Kauhikoa Well Tank Replacement (received \$1.5 M EPA Earmark Funding)
 - GC & DWS had video conference with EPA Region 9 on BABA waiver criteria and requirements and turn-around time on EPA decision (AIS, BABA, & DB wages).
- Olinda Water Treatment Plant 3-MG Steel Clearwell Tank Roof Refurbishment (40% complete)
 - Temporary Tank erection near completion and will be ready for filling & chlorination – early Sept.
 - Contractor has prepped for tie-in tank bypass waterline. (scheduled for early Sept).
 - Project may 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 steel tank vendor on IFB (Invitation For Bid) Bid Documents.
 - Tentative Bid advertisement Date: Mid-Sept 2024

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

- Kaupakalua Well & Booster Pump Motor Control Center and Electrical Upgrades

Design Projects in Process:

- 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.
 - Request For Proposal (RFP) sent to consultant – due 9/16/2024.
- Makawao Aquifer Source Development (Well Siting & EA) CIP No. 24-21
 - Consultant (Fukunaga & Assoc.) contract being prepared.
- Launiupoko Aquifer Source Development – Exploratory Drilling (no change)
 - Draft EA Submittal – Updated Deadline: September 2024
 - Subconsultants (Cultural & Archeological) inspection well site L-3 and performing “Cultural Impact Assessments” was performed – Waiting report to be included in Draft EA.
 - Based in the CIA site inspection, the L-3 well hole location has moved 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 being processed.
- Waihee Aquifer Source Development – Exploratory Drilling (no change)
 - DWS informed Land owner on preferred well site (6/6/2023) – well site may have potential to impact owner’s existing wells (2) nearby.
 - Director and Deputy Director to meet with Hydro-Geologist Consultant (for both parties) and Land Owner Representative to determine next “Course of Action”.
 - EPM will assist in setting up meeting.
- 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 till Sept 2024.
 - 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 90% complete
 - Bid Advertise postponed till Sept 2024.
 - 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 (no change)
 - 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 – 8/30/2024
 - Government Review – 9/2/2024 to 10/11/2024
 - 90% Construction Document Submittal – 12/16/2024
 - Government Review – 12/17/2024 to 1/27/2024
 - Bid Document Submittal - 4/4/2025
 - Submitted Project for Federal Funding Grant (FEMA-HMGP).
- Lead and Copper Rule Revisions
 - Consultant (HDR) started physical inventory of waterline service laterals. – with training and coordination with DWS Field Operation Division.
 - Molokai Baseyard training to be scheduled in August.
- Kawaipuna Place (Lower Main–Wailuku) Waterline Replacement (in-house design – no change)
 - Project ready to be bid out in early Sept 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 Sept 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.
 - DWS to assist in bidding - Kula Ag Park Booster Pump Station Relocation (Funding from Dept. of Ag)
 - Bid advertisement Date: August 15, 2024
 - Pre-bid conference: August 28th
 - Pre-bid Site Visit: August 29th
 - Next meeting: Sept 10th & 24h, 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
 - Met with B+K design team to assist DWS with the 5th Floor Renovation Bid documents.
 - Need to meet with EPM & Consultant to delegate CIP projects to B+K.
- NEW CIP PROJECT – County-Wide Steel Tank Repairs
 - Working with steel tank vendor on IFB (Invitation For Bid) Bid Documents.
 - Tentative Bid advertisement Date: Mid-Sept 2024

Land Acquisition and Easements in Process:

- Upcountry Maui Well - Kealaloa 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: Sept. 12th & 26th

- 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)
 - Requesting quotes for appraisal services.
 - Next: Set-up meeting with DLNR on status of easements on State lands in August.

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 “Cancellation 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.
 - Requesting quotes for appraisal services.

OPERATIONS

WATER TREATMENT PLANTS

Olinda Water Treatment Facility

2.44 Million Gallons / 0.08 MGD (as of 8/29)

- Plant offline – Phase 6 pumping.
- Staff conducting water sampling in coordination with UCF for organics removal study with new nanofiltration membrane modules.
- Waikomoii flume intake box modifications in progress 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 Waikamoi reservoirs – no issues observed, filled after rain event. Kahakapao PLC issue not updating reservoir height – electronic techs addressing.

Piiholo Water Treatment Facility

83.42 Million Gallons / 2.88 MGD (as of 8/29)

- Effluent flowmeter direct OEM replacement ordered – awaiting shipment to schedule removal of temporary and installation of new.
- Sludge lagoons #2 & #3 drained and cleaned by crew.
- Power failure during storm event – plant operating on generator power without issue 3 days before power restored.
- Staff conducted monthly dam/reservoir inspection of 50 MG raw water reservoir – no issues observed.

Kamole Water Treatment Facility

80.8 Million Gallons / 2.79 MGD (as of 8/29)

- Staff performed routine reactive maintenance on filtration units – membrane module removal and “pinning” repairs to restore performance throughout the month.
- Pilot plant featuring upgraded membrane modules arrived and installed (8/20-22) – software/controls issue delay startup as manufacturer (Dupont) technician scheduled to address early September.
- Process interruption during tropical storm Hone due to high turbidity levels in raw water.

Iao Water Treatment Facility

62.18 Million Gallons / 2.14 MGD (as of 8/29)

- Plant production increased to target 3.2 MGD – coordinated with WWC to increase available supply for diversion.
- 3 process interruptions/shutdowns due to raw influent turbidity events – researching possible solutions for pretreatment to mitigate intermittent turbidity events and maintain maximum reliable process flow.
- 2 facility tours: AWWA (8/7) and Rotary Club (8/21)

Lahaina Water Treatment Facility

31.42 Million Gallons / 1.08 MGD

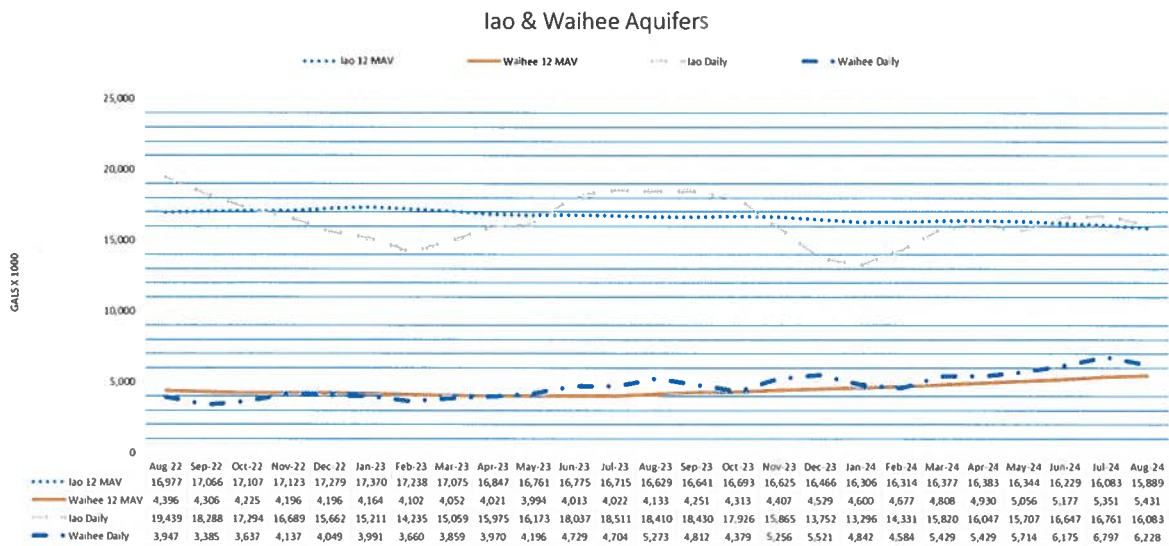
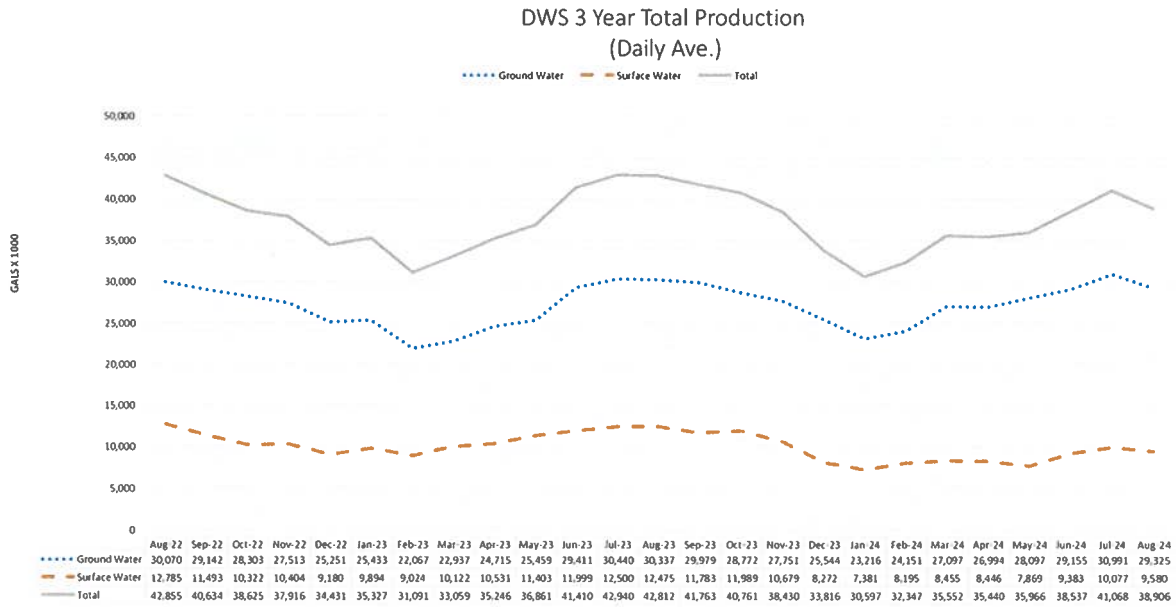
- Continued operation below capacity due to reduced demand.
- Routine operation and preventative maintenance – misc. small valve replacements and electrical fixes.
- Raw intake flow significantly reduced after storm – staff inspected intake and cleared debris causing blockage, restoring flow to normal.

Mahinahina Water Treatment Facility

30.72 Million Gallons / 1.06 MGD

- Installation of upgraded uninterruptable power supply units.
- Ultraviolet disinfection reactor bulbs replaced on Filters 1 & 3, Filters 2 & 4 on standby for correct bulbs to be sent by manufacturer. Existing bulbs continue to meet compliance requirements - monthly calibration verification performed 8/28.
- Staff conducted monthly dam/reservoir inspection – no issues observed, valve closed after storm to mitigate dirty water entering reservoir.

PLANT OPERATIONS



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
- Completed booster pump replacement at Hawaiian Homes Booster Station #2
- DOH approval for Napili Well B and Waihee Well's pump 578 to resume service
- Site visit for portable emergency generator rental contract for the Phase 6 booster pumps
- Assist with pilot treatment plant at Kamole
- Assist CWRM with water quality probe recovery at North Waihee monitoring well.

Acronyms

CIP - Capital Improvement Project

CWRM – State of Hawaii, Department of Land and Natural Resources, Commission on Water Resource Management

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

Water Quality Monthly Status Report-August 2024

- Collected 1240 samples in August 2024
 - Analyzed in-house
 - Compliance Bacti-219
 - Non-Compliance Bacti-52
 - Chlorine Residual-697
 - Chlorides-55
 - pH/Conductivity-110
 - NTU (Turbidity)-11
 - Sent out for analysis
 - EDB (1,2-dibromoethane)/DBCP (1,2-dibromo-3-chloropropane)/TCP (1,2,3-trichloropropane)-13
 - NPDES (National Pollutant Discharge Elimination System) Chemistry-4
 - TOC (Total Organic Carbon)-7
 - Annual and Monthly Anion samples-2
 - UCMR5 (Unregulated Contaminant Monitoring Rule)-1 set

- Continued post wildfire long term monitoring of Upcountry and Lahaina systems
 - VOC (volatile organic compounds) samples collected-69
- Prepared and submitted July 2024 Drinking Water reports to Hawaii State DOH SDWB for
 - Bacteriological parameters within MCL (Maximum Contaminant Level)
 - RTCR (Revised Total Coliform Rule) summary
 - HPCs (Heterotrophic Plate Counts) for filtered systems
 - Ualapue Wells
 - Chemistry
 - Ualapue Wells
 - Haiku Well
- Corrective actions submitted to Utah for TNI audit findings were accepted, and accreditation was granted to Maui DWS
- Conducted internal audits reviewed/updated SOPs (Standard Operating Procedures) as needed, initiated corrective action reports for findings
- Sent samples out for analysis for reduced Pb/Cu (Lead and Copper) monitoring for 3 Maui DWS systems
 - Nahiku-7
 - Lahaina-41
 - Wailuku-39

Backflow & Cross-Connection Section

Final Inspections (Backflow tests Completed) : 36 completed

- Test RPBP (Reduced Pressure Backflow Preventer) at 676 Mililani Pl., Kihei
- Test RPBP at 215 Kamakoi Lp., Kihei
- Test RPBP at 371 Lono Ave., Kahului
- Test RPBP (2) at 143 Hookele St., Kahului
- Test DCDA (2) at 143 Hookele St., Kahului

Annual Test Notices

Test due notices sent: 282 letters mailed

Delinquent test due notices: 287 letters mailed

Ongoing Projects

Field surveys: 115

Safety meetings: 1

Monitoring of Temporary Construction Meters:

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

1-Hana, 4-Central, 5-Upcountry, 7- Lahaina

Electronics, Mechanical, and Electrical Sections

	Electronics	Mechanical	Electrical
Central	23	10	6
Upcountry	13	6	3
Lahaina-Napili	7	3	1
Molokai	1	3	0
Hana	13	1	1
Surface Water Treatment Plants	4	n/a	1
Preventive Maintenance	13	13	0
Safety Meetings	1	1	1

JS:JAL:ikk

cc: Board of Water Supply, Attn: Sherilyn Otsubo