

**BOARD OF WATER SUPPLY
KA 'OIHANA WAI
CITY AND COUNTY OF HONOLULU**

630 SOUTH BERETANIA STREET • HONOLULU, HAWAII 96843
Phone: (808) 748-5000 • www.boardofwatersupply.com

RICK BLANGIARDI
MAYOR
MEIA

ERNEST Y. W. LAU, P.E.
MANAGER AND CHIEF ENGINEER
MANAKIA A ME KAHU WILIKI

ERWIN KAWATA
DEPUTY MANAGER
HOPE MANAKIA



NĀ'ĀLEHU ANTHONY, Chair
JONATHAN KANESHIRO, Vice Chair
BRYAN P. ANDAYA
LANCE WILHELM
KĒHAULANI PU'U
EDWIN H. SNIFFEN, Ex-Officio
GENE C. ALBANO, P.E., Ex-Officio

January 21, 2025

NOTICE

The Board of Water Supply, City and County of Honolulu, Regular Meeting will be held on Monday, January 27, 2025, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

Limited seating will be available for in-person testifiers in the Boardroom. The public may also view the livestream of the meeting from the lobby of the Board of Water Supply, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

Public parking for this meeting is available in the Public Service Building customer parking lot.

TESTIMONY

Testimony may be submitted as follows:

- **Written testimony** should include the submitter's address, email address, and phone number. Testimony should be received by Monday, January 27, 2025, at noon. Submit written testimony by:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony
 - Mail to Board of Water Supply, 630 South Beretania Street, Honolulu, HI 96843
 - Fax to (808) 748-5079
- **Oral testimony** will be accepted remotely and in person during the meeting. Pre-registration is encouraged to facilitate as much remote and in-person testimony as reasonably possible during the time allotted. Testifiers should also consider submitting a written version of their oral testimony.

- To testify remotely by phone or video using the Zoom videoconferencing platform, please submit your request by:

- Email to board@hbws.org
- Online at boardofwatersupply.com/testimony

Zoom registration instructions, as well as participant guidelines, will be sent to the contact information provided. Once confirmed as registered, testifiers will receive an email containing the links and instructions to join the Zoom session. Submit your request to testify remotely by Friday, January 24, 2025, at noon.

- To testify in person at the Board of Water Supply, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843, please pre-register by submitting your request by Monday, January 27, 2025:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony

In-person testifiers should check in with building security and then with testimony staff located in the lobby. Testifiers will be escorted to and from the Board Room. On-site registration will be available for walk-in requests.

Testimony is limited to two (2) minutes and shall be presented by the registered speaker only. Testimony submitted in writing or orally, electronically or in person, for use in the meeting process is public information. All testimony will be included as part of the approved meeting minutes at boardofwatersupply.com/boardmeetings.

MATERIALS AVAILABLE FOR INSPECTION

Meeting materials ("board packet" under HRS §92-7.5) are accessible at www.boardofwatersupply.com/boardmeetings.

VIEWING THE MEETING

The meeting will be viewable via live streaming on the BWS website: www.boardofwatersupply.com/live. Video will appear on screen. You may have to click the arrow on video to start it. You may have to unmute audio, as muted audio tends to be the default setting.

SPECIAL REQUESTS AND ACCOMMODATIONS

If you require special assistance, an auxiliary aid or service, and/or an accommodation due to a disability to participate in this meeting (i.e., sign language interpreter, interpreter for language other than English, or wheelchair accessibility), please call Joy at (808) 748-5172 or email your request to board@hbws.org **at least three business days prior to the meeting date**. If a response is received after the requested three business days before the meeting date deadline, we will try to obtain the auxiliary aid/service or accommodation, but we cannot guarantee that the request will be filled.

Upon request, this notice is available in alternate formats such as large print, Braille, or electronic copy.

The agenda for January 27, 2025, Regular Meeting of the Board of Water Supply is as follows:

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on December 16, 2024

ITEMS FOR INFORMATION

1. Recruitment Status
2. Status Update of Groundwater Levels at All Index Stations
3. Water Main Repair Report for December 2024

EXECUTIVE SESSION

1. Approval of the Minutes of the Executive Session Meeting Held on December 16, 2024
2. To Consult with the Board's Attorney on Questions and Issues Pertaining To the Board of Water Supply's Proposed Settlement of Civil No. 1CCV-22-465, Drayko Construction Inc. v. Board of Water Supply [HRS §92-5(a)(4)]
3. To Consult with the Board's Attorney on Questions and Issue Pertaining to the Board's Powers, Duties, Privileges, Immunities, and Liabilities Pertaining to Matters Concerning the City Proposed Landfill Site [HRS §92-5(a)(4)]
4. To Consult with the Board's Attorney on Questions and Issues pertaining to the Board's Powers, Duties, Privileges, Immunities, and Liabilities Pertaining to Matters Concerning the Red Hill Bulk Fuel Storage Facility [HRS §92-5(a)(4)]

MINUTES

To watch the recording of this meeting, please click on the following link:
<https://vimeo.com/bwshonolulu/jan-27-2025>. Closed captioning is available.

THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

January 27, 2025

At 2:00 PM on January 27, 2025, in the Public Service Building Board Room at 630 South Beretania Street, Honolulu, Hawai'i, Board Chair Nā'ālehu Anthony called to order the Regular Meeting.

Present: Nā'ālehu Anthony, Chair
Jonathan Kaneshiro, Vice Chair
Bryan P. Andaya, Board Member via Zoom
Lance Wilhelm, Board Member
Kēhaulani Pu'u, Board Member via Zoom

Also Present: Ernest Lau, Manager and Chief Engineer
Erwin Kawata, Deputy Manager
Patrick Chun, Acting Program Administrator,
Capital Projects Division
Jennifer Elflein, Program Administrator,
Customer Care Division via Vimeo
Kathleen Elliott-Pahinui, Information Officer,
Communications Office
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office
Wayne Tello, Acting Program Administrator,
Field Operations Division
Kaliko Lum Kee, Acting Waterworks Controller,
Finance Division
Michele Thomas, Executive Assistant I,
Human Resources Office via Vimeo
Henderson Nuuhiwa, Program Administrator,
Information Technology Division
via Vimeo
Ronald Wada, Assistant Program Administrator,
Information Technology Division
Michael Matsuo, Land Administrator, Land Division
Kirk Iwamoto, Acting Water Quality Laboratory
Director, Water Quality Division
Barry Usagawa, Program Administrator,
Water Resources Division
Kevin Ihu, Program Administrator,
Water System Operations Division
Joyce Lin, Civil Engineer IV, Office of the Manager
and Chief Engineer

Kimberly Kuwaye, Manager Secretary
Joy Cruz-Achiu, Board Secretary
Kathy Mitchell, Administrative Services Officer
via Vimeo
Stella Bernardo, Information Specialist II,
Communications Office via Zoom
Wayne Maria, Information Specialist II,
Communications Office
Ella Foley Gannon, Morgan, Lewis, & Bockius, LLP
David Brown, Morgan, Lewis, & Bockius, LLP
Joseph Stewart, Kobayashi Sugita & Goda, LLP
Stephen Kaneshiro, Kobayashi Sugita & Goda, LLP

Others Present: Jeff Lau, Deputy Corporation Counsel
via Zoom
Jessica Wong, Deputy Corporation Counsel
via Zoom

Absent: Edwin H. Sniffen, Ex-Officio
Gene C. Albano, Ex-Officio

Chair Nā'ālehu Anthony opened the Board meeting with an 'olelo no'eau:

Aloha mai kākou e nā hoa makamaka mai ka lā hiki a ka lā kau. Welina nui me ke aloha!

Mahalo nui no kēia 'ākoako 'ana o kākou no ka pono o ka lāhui, no ka pono o ka 'āina, a no ka pono o ka wai nō ho'i. Eia he 'ōlelo no'eau e kālele ana i ke ko'iko'i o ka wai.

Chair Anthony translated the 'olelo no'eau: Aloha from the rising to the setting sun. Thank you all for coming together today for the people, the land, and the water. Here is a short Hawaiian Proverb that helps us remember the importance of fresh water and land.

'Ōlelo 1149: I 'aina no ka 'āina i ke ali'i, a i waiwai no ka 'aina i ke kanaka.

Chair Anthony translated 'ōlelo 1149: The land remains the land because of the chiefs, and prosperity comes to the land because of the common people. Chiefs are needed to hold the land, and commoners are needed to work the land.

Chair Anthony welcomed everyone to the January 27, 2025, Regular Meeting of the Board of Water Supply (BWS). He stated that the Board of Water Supply is dedicated to providing safe, dependable, and affordable supply of water now and into the future.

Before continuing the meeting, Chair Anthony stated that a recording would be played to share reminders for public participation and the virtual meeting regulations required by law.

The recording played: Goals for this meeting under Hawai'i Revised Statutes, Section 92-7.5 are accessible at www.boardofwatersupply.com/boardmeeting. The public may attend this meeting in person at the Public Service building located at 630 South Beretania Street. The public may also view a live stream of today's meeting on our website at www.boardofwatersupply.com/live. We have been accepting written or oral testimony for today's meeting. Instructions and an online submittal form are available at boardofwatersupply.com/testimony. The deadline to submit advance written testimony has passed. Testimony received by noon today has been distributed to the board members. We will continue to accept written testimony today through our online form. Oral testimony in person or remotely will be accepted during today's meeting. To facilitate as much in-person and remote testimony as reasonably possible during the time allotted, preregistration and submittal of a written version of testimony at boardofwatersupply.com/testimony is strongly encouraged. To testify in person, please register using our online form or come to the public service building at 630 South Beretania Street. We have a representative in the lobby to provide intake and further instructions. To request to testify remotely, please complete the online form at boardofwatersupply.com/testimony. Requestors will receive an email containing links and instructions on how to join the Zoom session. Testifiers will have two minutes to state their position. A timekeeper will alert testifiers when there is one minute remaining. Once the two minutes are up, please summarize to allow time for questions from the Board. Then, make room for the next testifier. Board members attending any board meeting remotely must be visible to the public to be considered, present, and meet quorum guidelines. Board members participating remotely must also disclose their location and anyone present at their location during roll call. Meeting participants who are calling or video conferencing in, please mute your microphone when you're not speaking. If you have a question, comment, or wish to enter or second a motion on an action item, please unmute your microphone and identify yourself before continuing to speak. If you encounter technical issues during today's meeting, please use the

Zoom chat to send a direct message to our support team. Their names are listed in the message to all participants. To open the chat window, please click the text Bubble icon on the Zoom Toolbar.

Chair Anthony requested a roll call for the Regular Meeting. He asked those participating remotely to give the appropriate disclosures up responding.

Board Member Bryan Andaya joined via Zoom, responded Aloha, and disclosed that he was alone at his location; and Board Member Kēhaulani Pu'u responded Aloha and and disclosed that she was alone at her location. Vice Chair Jonathan Kaneshiro responded here and was present in the Board room; Chair Anthony was in the Boardroom. Board Members Gene Albano and Edwin Sniffen were absent.

Chair Anthony introduced those in the Boardroom: Manager Ernest Lau, Deputy Manager Erwin Kawata, Board Secretary Joy L. Cruz-Achiu, Manager Secretary Kimberly Kuwaye, and Information Specialist II Wayne Maria. Deputy Jeff Lau and Deputy Jessica Wong joined via Zoom from the City and County Corporation Counsel.

REGULAR MEETING

APPROVAL OF MINUTES

Approval of the Minutes of the Regular Meeting Held on December 16, 2024.

MOTION TO APPROVE

Jonathan Kaneshiro and Lance Wilhem motioned and seconded, respectively, to approve the Minutes of the Regular Meeting Held on December 16, 2024.

Board Member Pu'u stated that she was alone in her office.

Ms. Cruz-Achiu conducted a roll call vote: Vice Chair Jonathan Kaneshiro, aye; Board Member Bryan Andaya, aye; Board Member Lance Wilhelm, aye; Board Member Kēhaulani Pu'u, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achiu announced that the motion passed with five ayes. Board Members Gene Albano and Edwin Sniffen were absent.

THE MINUTES OF THE REGULAR MEETING HELD ON DECEMBER 16, 2024, WERE APPROVED AT THE JANUARY 27, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM	X		
KĒHAULANI PU'U	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO			ABSENT

ITEM FOR INFORMATION NO. 1

"January 27, 2025

RECRUITMENT
STATUS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843
Chair and Members:

Subject: Recruitment Status

Michele L. Thomas, Executive Assistant, Human Resources Office, will be presenting an update on the Recruitment Status for the period of October 2024 to December 2024.

Respectfully Submitted,

/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

Attachment"

The foregoing was for information only.

DISCUSSION:

Michele L. Thomas, Executive Assistant, Human Resources Office, gave the report.

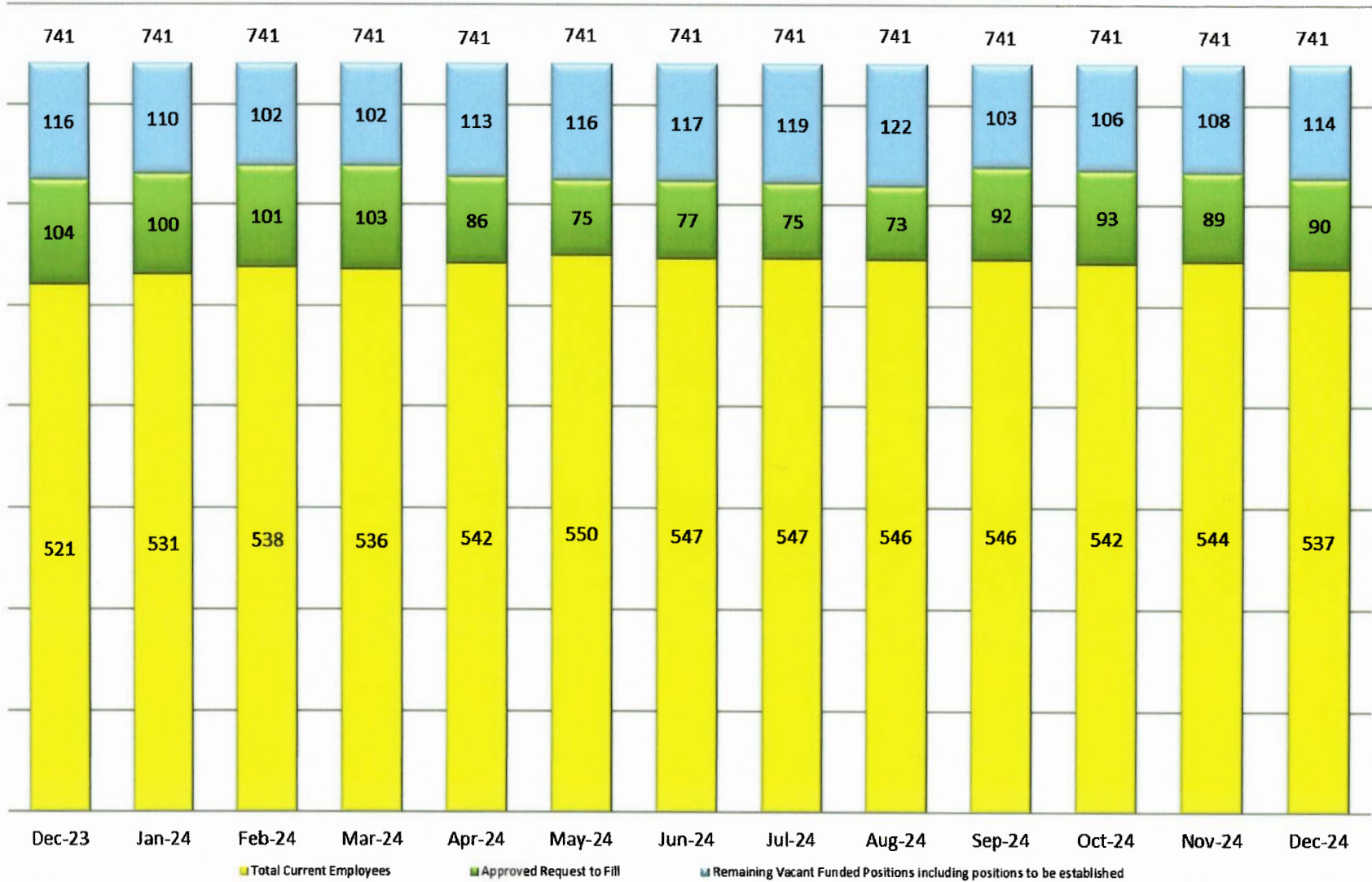
Chair Anthony asked, compared to other County Departments how the percentage of vacant positions for BWS compares.

Ms. Michele Thomas replied that the BWS's vacancies are the average norm. The BWS does well filling general vacant positions. However, the BWS struggles to fill highly specialized positions such as engineers and skilled trades. The BWS uses various strategies to attract potential candidates and to retain current employees, including promoting staff development training, allowing those with little to no experience to have opportunities in the long term.

Chair Anthony asked what strategy or type of advertisement has been most fruitful in gaining recruits.

Ms. Thomas stated that there are five generations in the workforce; therefore, different outreach is required. The younger generations are inclined to use social media, whereas the older generations prefer face-to-face contact.

Positions Filled December 1, 2023 through December 31, 2024



For the period Oct24-Dec24 Actions: 11 New Hires, 7 Promotions, 20 Separations, 2 Cancelled Requests.

BOARD OF WATER SUPPLY

City and County of Honolulu

RECRUITMENT AND SEPARATION STATUS For Period October 1, 2024 to December 31, 2024

Status of Positions Under Recruitment

	as of		
	10/31/2024	11/30/2024	12/31/2024
Pending DHR Open List (external recruitment)	30	26	30
Pending Internal recruitments	0	1	2
Pending Final Interview Questions	12	9	12
Pending Interviews with Division	34	38	28
Anticipated Starts (pre-employment clearances)	17	16	18
Cancelled Requests	1	1	0
Total Positions Under Recruitment	94	91	90

Filled Positions

Month	Oct-24	Nov-24	Dec-24
Open list	3	6	5
Internal Promotions	2	2	1
Internal Demotions/Transfers	0	0	0
Reallocations	8	3	1

Separations

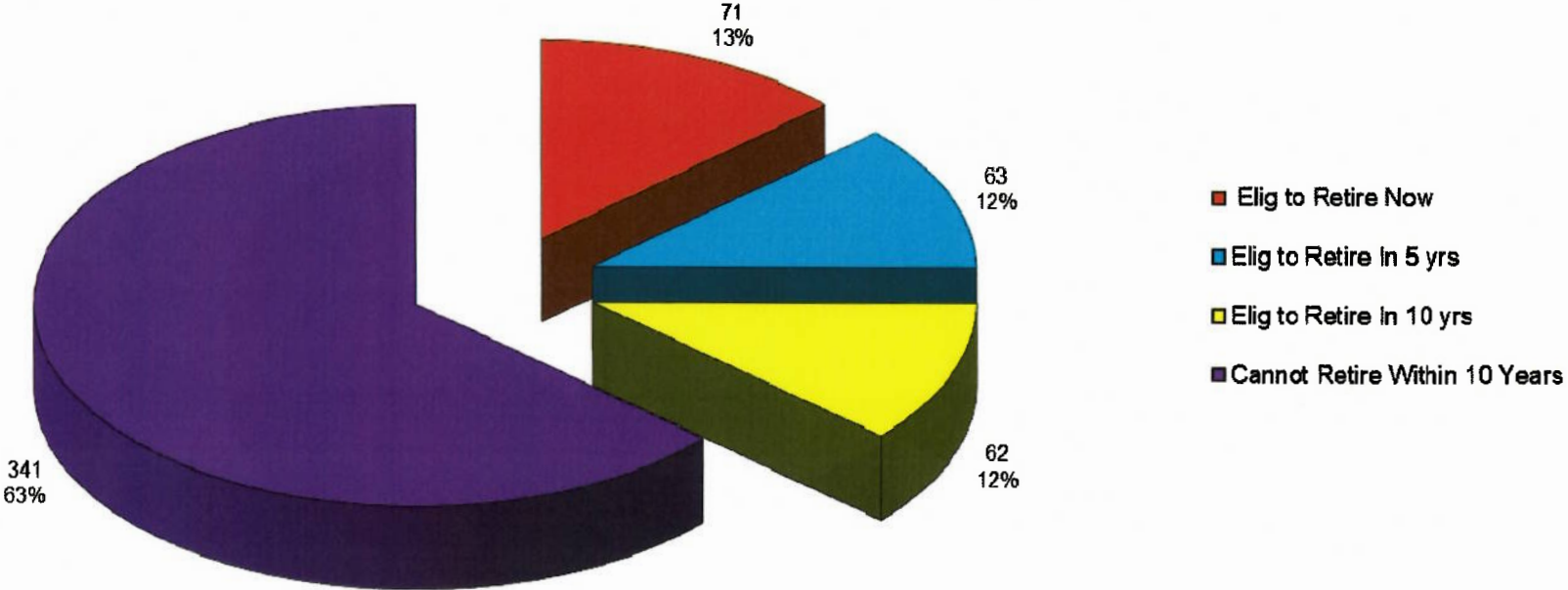
Month	Oct-24	Nov-24	Dec-24
Retire	1	1	6
Resign/Termination/Other	6	2	4

Legend:

DHR = Department of Human Resources City and County of Honolulu

Reallocation = Employee has demonstrated competency in higher level position and position was adjusted

BWS Retirement Projections As of December 31, 2024



ITEM FOR INFORMATION NO. 2

“January 27, 2025

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Three aquifer index stations were in low groundwater condition for the production month of December 2024. Waialua and Punalu'u are in Caution Status. Kaimukī is in Alert Status. The monthly production average for December 2024 was 137.21 million gallons per day.

The Board of Water Supply rainfall index for the month of December 2024 was 17 percent of normal, with a 5-month moving average of 68 percent. As of January 7, 2025, the Hawai'i Drought Monitor shows drought conditions across the entire island of O'ahu, with moderate drought conditions over most of the island, grading to extreme drought conditions along the leeward coast.

The National Weather Service had been forecasting above-normal precipitation through March 2025; they are currently forecasting above-normal precipitation in January 2025, with no predictions further ahead in time. Their Precipitation Summary for December 2024 notes that “December is usually one of the wettest months of the year across the State of Hawai'i. Long range projections generated in early Fall 2024 favored above normal precipitation for the month. The end result painted a very different picture, with below average December totals at most locations across the main Hawaiian Islands. Drought areas increased in size and intensity instead of easing. Rather than low-pressure systems nearby producing episodes of heavy rain, many days in December featured stable conditions with a surface ridge of high pressure over or just north of the state.”

Monitoring wells exhibited an almost equal number of stable, slightly increasing, and slightly decreasing head levels for the month of December 2024. This likely reflects combined effects of increased production relative to the prior month but lower than summer maximums,

and significantly low rainfall following two months of higher/above normal rainfall. Average monthly production for December 2024 is higher than November 2024 and higher than the 5-year monthly average.

Respectfully Submitted,

/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

Attachment”

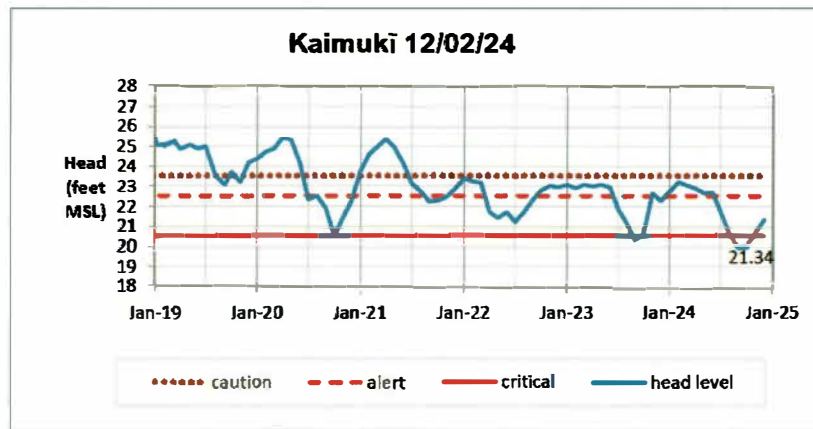
The foregoing was for information only.

DISCUSSION:

Barry Usagawa, Program Administrator, Water Resources Division, gave the report.

Chair Anthony stated that the BWS has closely watched Kaimuki since its head levels reached critical. He asked what the BWS must do to recover from being in critical. Chair Anthony also inquired if more water is being used than produced, what the BWS does to obtain the water to accommodate the demand.

Head Report

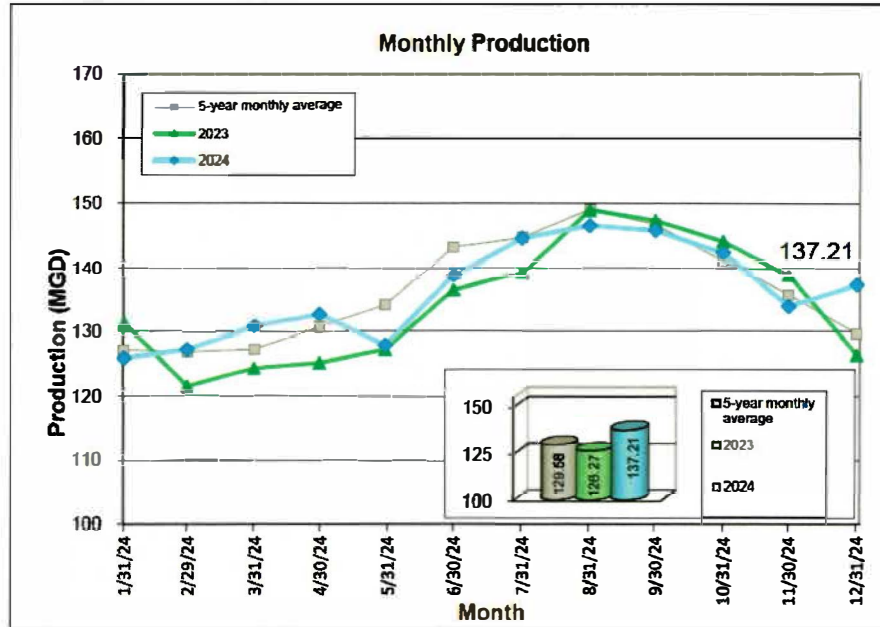


Mr. Barry Usagawa explained that the Kaimuki production was decreased to three million gallons per day (mgd) from a permitted used of 4.0 mgd, which helped raise the head levels. Kāimukī has since moved up into alert. During the summer, Kaimuki can produce up to five mgd.

Chair Anthony asked if the two mgd remaining are held in the reserves for use when necessary.

Mr. Usagawa replied yes. He mentioned that Halawa Shaft's shutdown has caused additional stress on Beretania and other low-service sources. However, the BWS has been able to keep up with demand and maintain its use to three mgd.

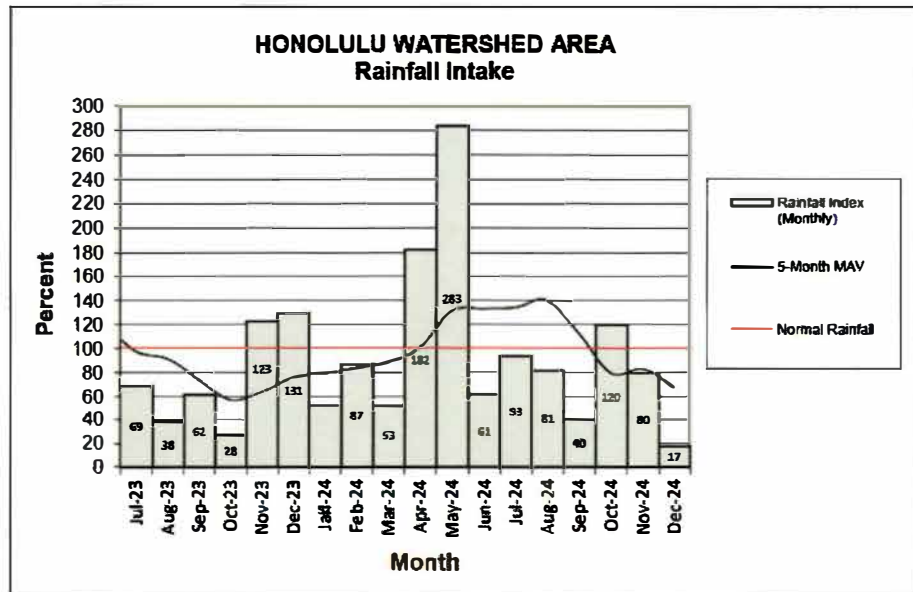
Chair Anthony referred to the monthly production graph and stated that the monthly average has been tracked to be relatively the same as in previous years; however, the monthly production was higher due to low rainfall in December 2024. He inquired when would it be necessary to issue a water shortage mandate.



Mr. Usagawa stated that the BWS rules allow the BWS to declare a low groundwater condition if three or more index stations are in alert or critical. He stated that the BWS could declare a low groundwater situation if it were facing the same situation as in 2003 when there were nine index stations in low groundwater, and Punalu'u was in critical. Mr. Usagawa shared that since then, the BWS has cut back its production at Punalu'u due to chloride levels. In 2008, the windward also experienced low groundwater levels due to its smaller dike storage.

Mr. Usagawa mentioned that the BWS Water Shortage Plan is available on its website. He stated that pumping units online will experience the highest levels during the summer months as they reach their maximum threshold of 20 to 22 hours a day of pumping. He explained that pumping up to 20 hours a day is considered alert status, and pumping up to 22 hours a day would be considered critical status; therefore, the BWS could declare a water shortage based on pump run times when demand rises. If a water shortage is declared, the BWS would implement progressively stricter conservation measures to reduce water demand and protect the aquifers.

Manager Lau shared that if conservation is needed, the BWS sends reminder letters to the top 200 water users, such as multi-family homes, high rises, and the Marine Corps base. He stated that as the Manager of the BWS for almost 13 years, he has never seen rainfall so low in December at 17% of normal.



Manager Lau referred back to the monthly production graph and stated that the BWS will have to monitor very closely. In December 2024, the blue indicates that the monthly production was much higher than what was measured at the same time in 2023, as shown in green.

Chair Anthony commented that the December 2023 and 2024 comparison is quite significant.

Mr. Usagawa also commented, hopefully, January will bring more consistent rainfall.

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF DECEMBER 2024**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.06
WAILUPE	0.00
AINA KOA	0.00
AINA KOA II	0.65
MANOA II	0.95
PALOLO	1.43
KAIMUKI HIGH	2.51
KAIMUKI LOW	0.84
WILDER	8.89
BERETANIA HIGH	1.03
BERETANIA LOW	2.25
KALIHI HIGH	3.79
KALIHI LOW	5.04
KAPALAMA	0.23
KALIHI SHAFT	7.62
MOANALUA	0.00
HALAWA SHAFT	0.00
KAAMILO	0.26
KALAUAO	9.31
PUNANANI	9.27
KAAHUMANU	0.25
HECO WAIU	2.72
MANANA	0.18
WAIALAE IKI	0.56
WELLS SUBTOTAL:	57.84
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	58.01

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.18
WAIMANALO III	0.00
KUOU I	1.56
KUOU II	0.00
KUOU III	0.73
LULUKU	0.62
HAIKU	0.41
IOLEKAA	0.00
KAHALUU	0.57
KAHANA	0.46
PUNALUU I	0.00
PUNALUU II	2.03
PUNALUU III	1.21
KALUANUI	1.23
MAAKUA	0.25
HAUULA	0.25
WELLS SUBTOTAL:	9.51
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.39
WAIHEE TUNNEL	4.17
LULUKU TUNNEL	0.38
HAIKU TUNNEL	0.29
KAHALUU TUNNEL	1.75
GRAVITY SUBTOTAL:	7.18
WIND. SUBTOTAL:	16.68

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.33
OPANA	0.99
WAIALEE I	0.35
WAIALEE II	0.13
HALEIWA	0.00
WAIALUA	1.52
N.SHORE SUBTOTAL:	3.34

STATION	MGD
MILILANI (4)	
MILILANI I	3.12
MILILANI II	0.00
MILILANI III	0.65
MILILANI IV	0.54
MILILANI SUBTOTAL:	4.31

STATION	MGD
WAHIAWA (5)	
WAHIAWA	0.70
WAHIAWA II	2.37
WAHIAWA SUBTOTAL:	3.08

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	0.84
AIEA GULCH 550	0.20
KAONOHI I	1.95
WAIMALU I	0.00
NEWTOWN	1.85
WAIU	1.87
PEARL CITY I	0.79
PEARL CITY II	1.03
PEARL CITY III	0.19
PEARL CITY SHAFT	0.94
PEARL CITY-HALAWA SUBTOTAL:	9.67

STATION	MGD
WAIPAHAU-EWA (7)	
WAIPIO HTS.	1.90
WAIPIO HTS. I	0.46
WAIPIO HTS. II	0.35
WAIPIO HTS. III	1.41
WAIPAHAU	6.74
WAIPAHAU II	1.57
WAIPAHAU III	3.37
WAIPAHAU IV	2.55
KUNIA I	4.73
KUNIA II	1.91
KUNIA III	1.46
HOAEAE	5.88
HONOULIULI I	0.00
HONOULIULI II	5.57
MAKAKILO	0.14
WAIPAHAU-EWA SUBTOTAL:	38.04

STATION	MGD
WAIANA E (8)	
MAKAHA I	0.94
MAKAHA II	0.00
MAKAHA III	0.66
MAKAHA V	0.44
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.06
WAIANA E I	0.00
WAIANA E II	0.33
WAIANA E III	0.22
WELLS SUBTOTAL:	2.65
WAIANA C&C TUNNEL	1.40
WAIANA PLANT. TUNNELS	0.04
GRAVITY SUBTOTAL:	1.44
WAIANA E SUBTOTAL:	4.09

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.39
BARBERS POINT WELL	0.96
GLOVER TUNNEL NP	0.30
NONPOTABLE TOTAL:	1.65

RECYCLED WATER (NOVEMBER 2024)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	5.92
HONOULIULI WRF RO	1.57
RECYCLED TOTAL:	7.49

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF DECEMBER 2024**

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	128.43
GRAVITY	8.78
POTABLE TOTAL:	137.21
NONPOTABLE	1.65
RECYCLED WATER	7.49
TOTAL WATER:	146.36

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	DEC 2024	DIFF. A-B
1	HONOLULU	83.32	57.84	25.48
2	WINDWARD	25.02	16.68	8.34
3	NORTH SHORE	4.70	3.34	1.36
4	MILILANI	7.53	4.31	3.22
5	WAHIAWA	4.27	3.08	1.19
6	PEARL CITY-HALAWA	12.25	9.67	2.58
7	WAIPAHU-EWA	50.63	38.04	12.59
8	WAIANAE	4.34	4.09	0.25
TOTAL:		192.06	137.04	55.01

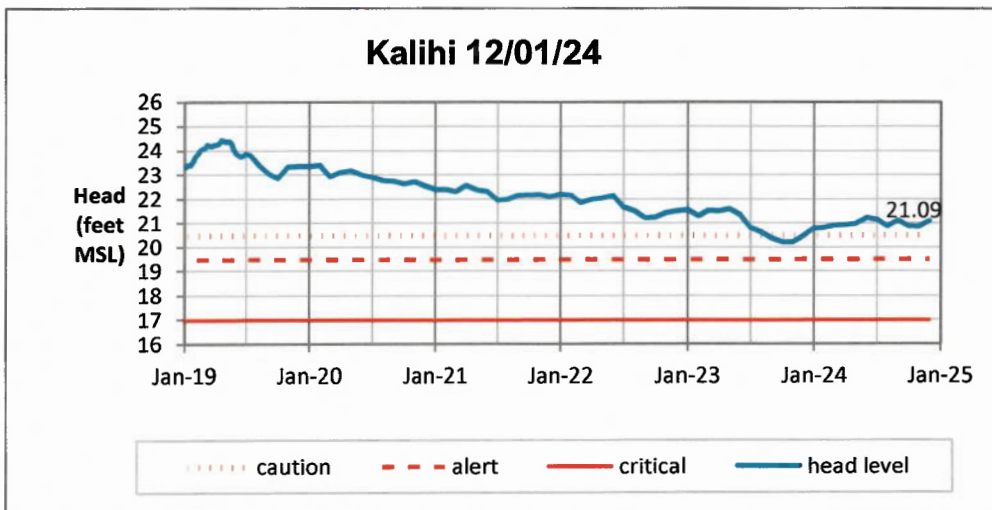
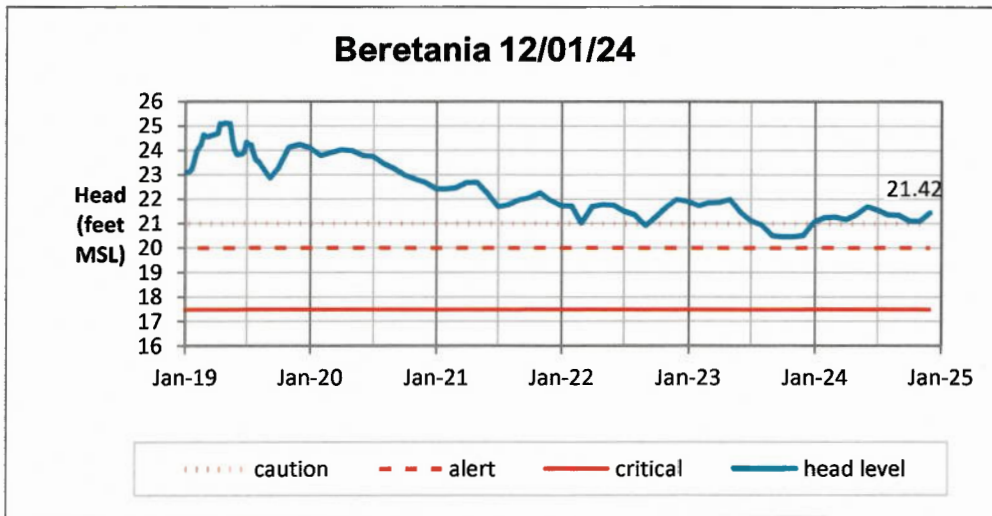
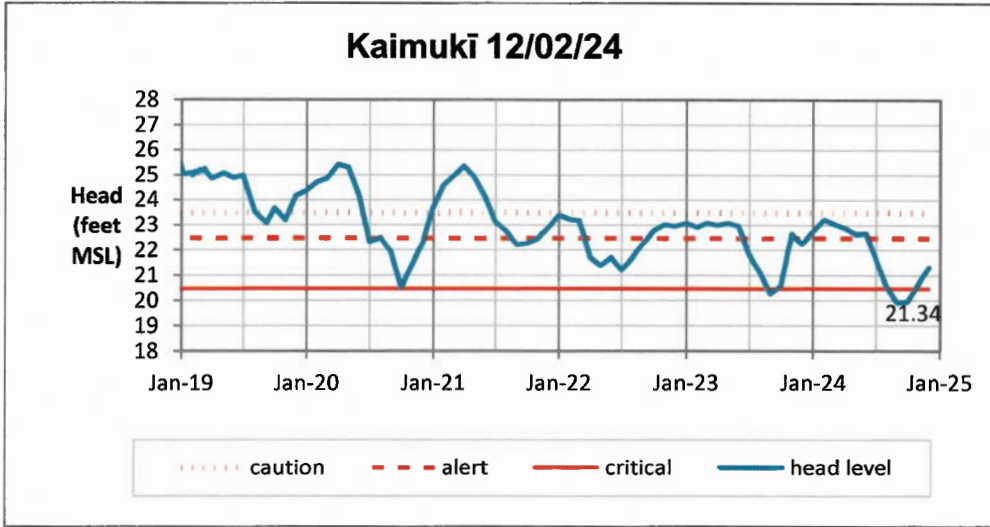
CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	DEC 2024	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	0.96	0.04
TOTAL:		1.00	0.96	0.04

EFFECTIVE WATER DEMAND PER DISTRICT

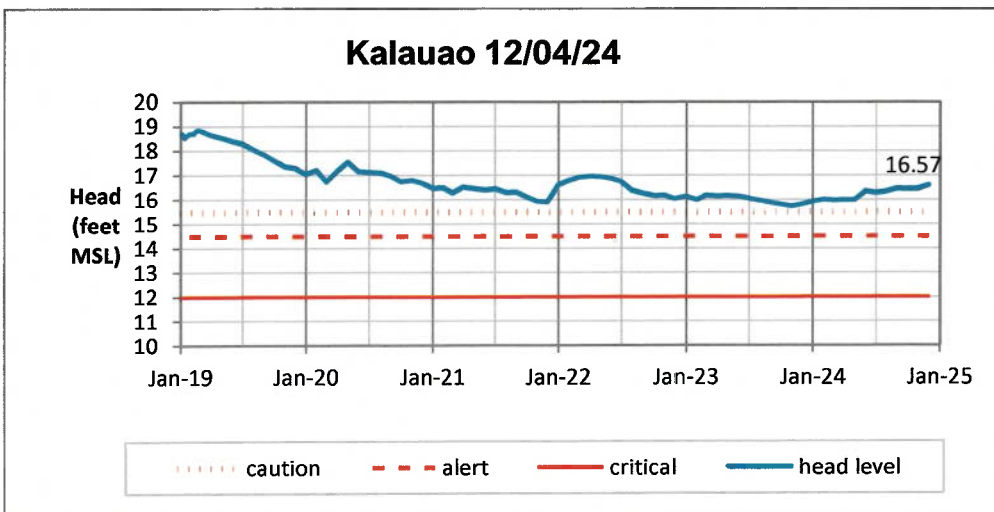
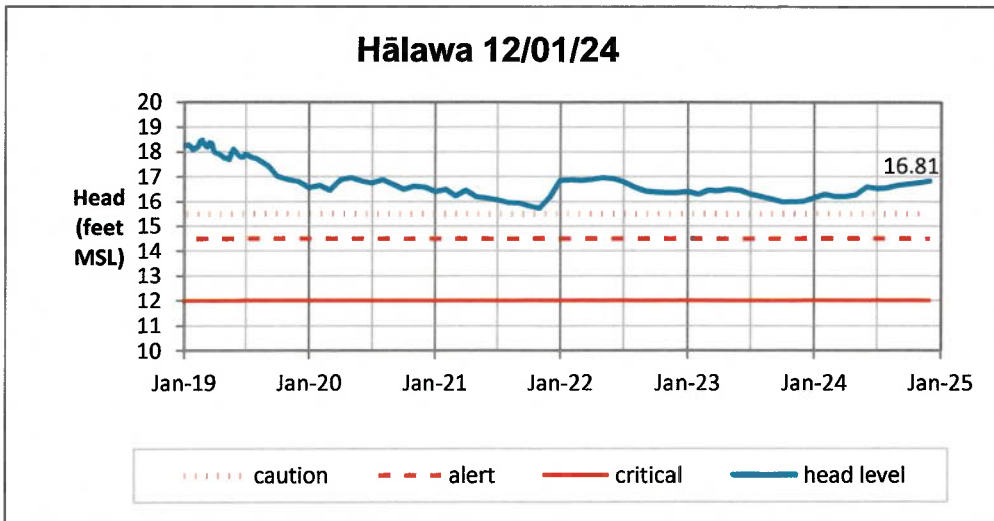
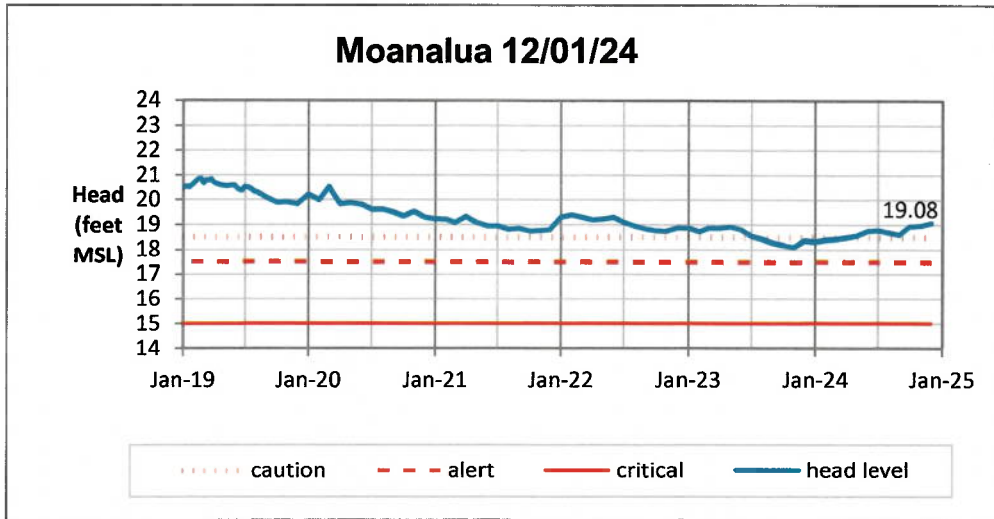
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.10
7	8	BARBERS PT LB	5.92

WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	58.01	0.10	-	58.11
2	WINDWARD	16.68	-	0.10	16.58
3	NORTH SHORE	3.34	-	-	3.34
4	MILILANI	4.31	-	-	4.31
5	WAHIAWA	3.08	-	-	3.08
6	PEARL CITY-HALAWA	9.67	-	-	9.67
7	WAIPAHU-EWA	38.04	-	5.92	32.11
8	WAIANAE	4.09	5.92	-	10.01
TOTAL:		137.21	6.02	6.02	137.21

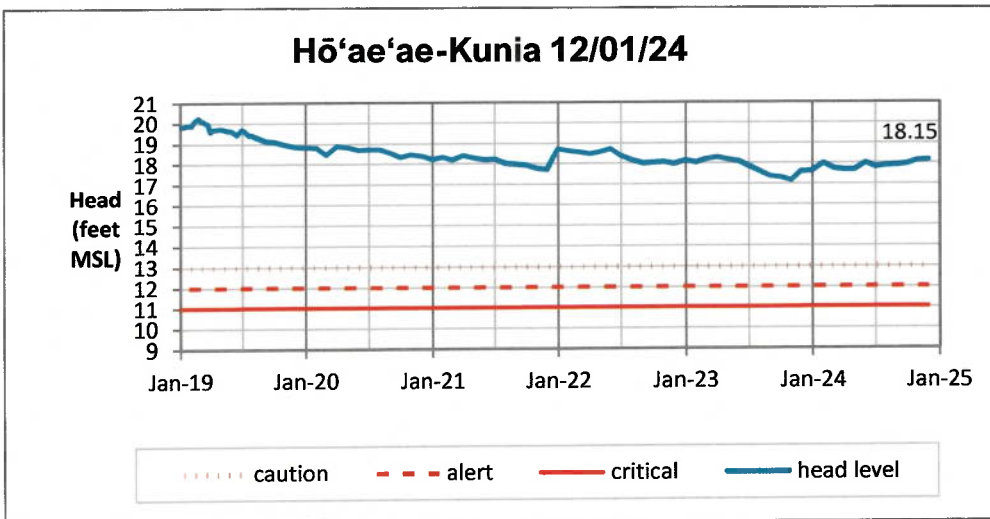
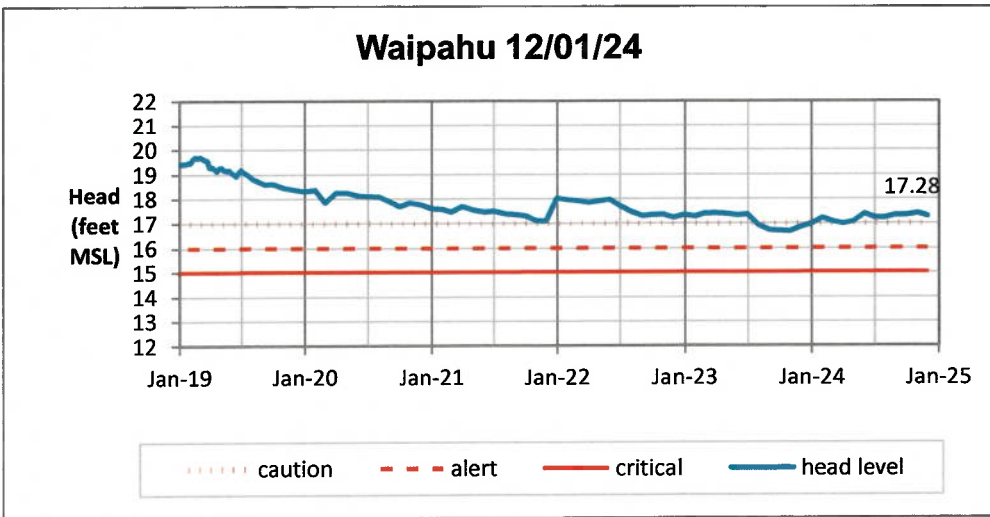
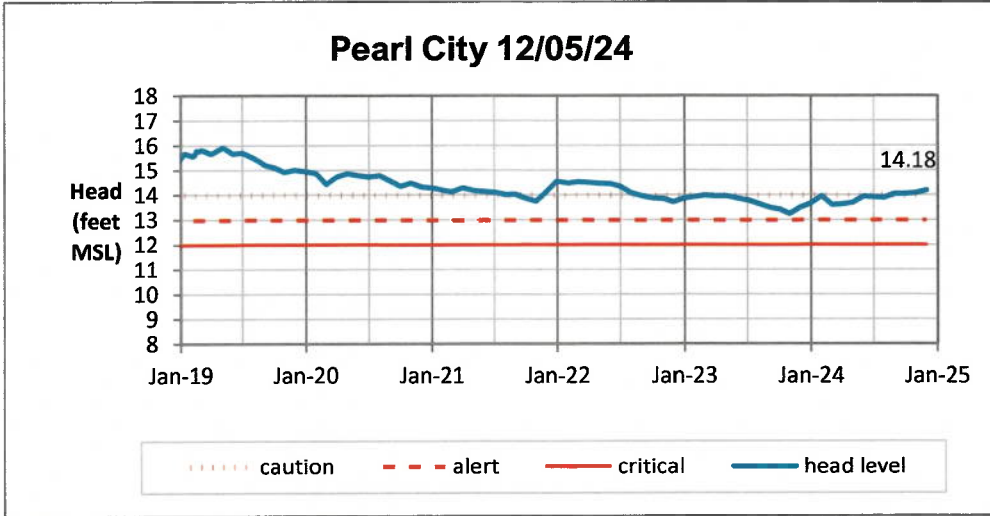
Head Report



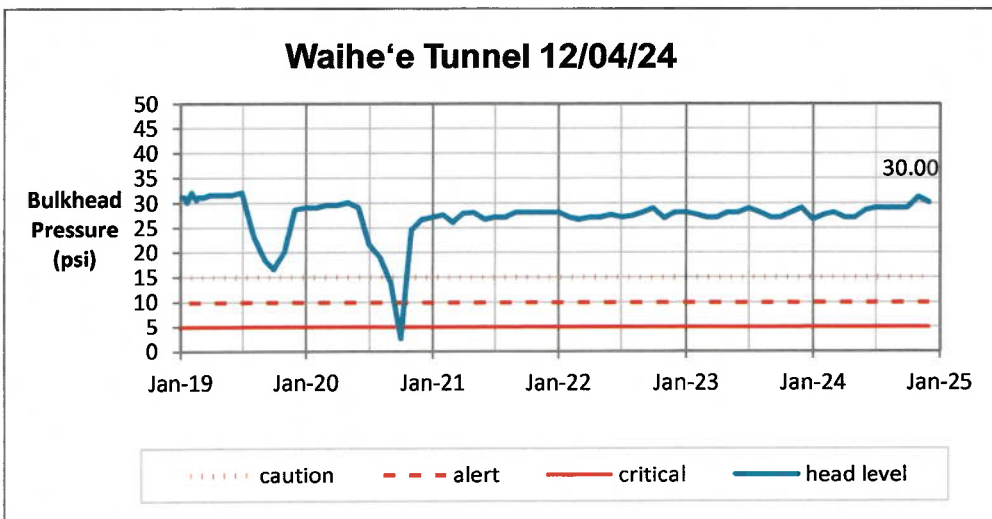
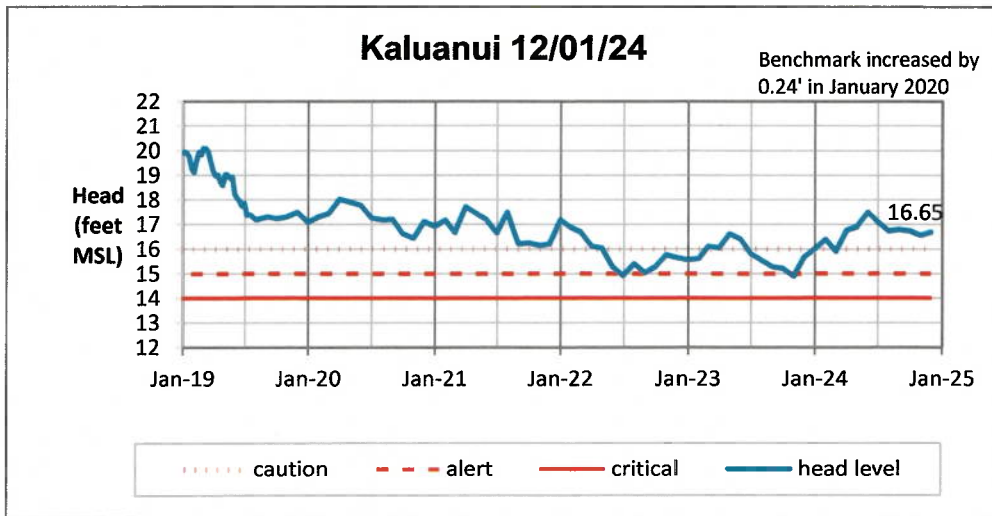
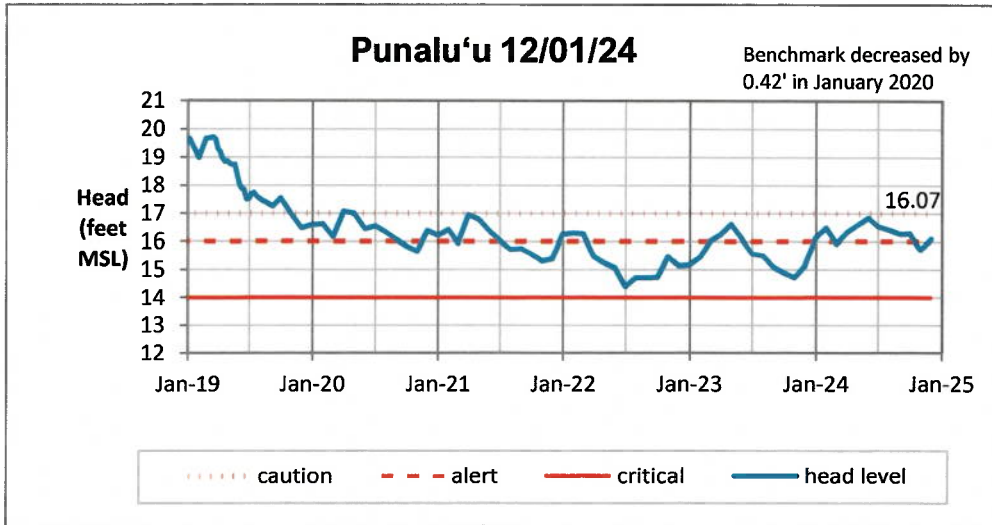
Head Report



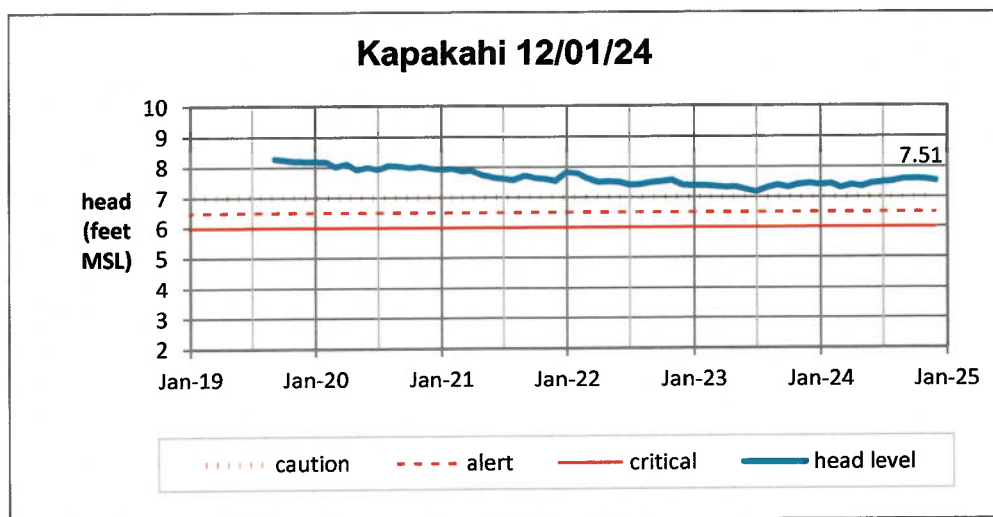
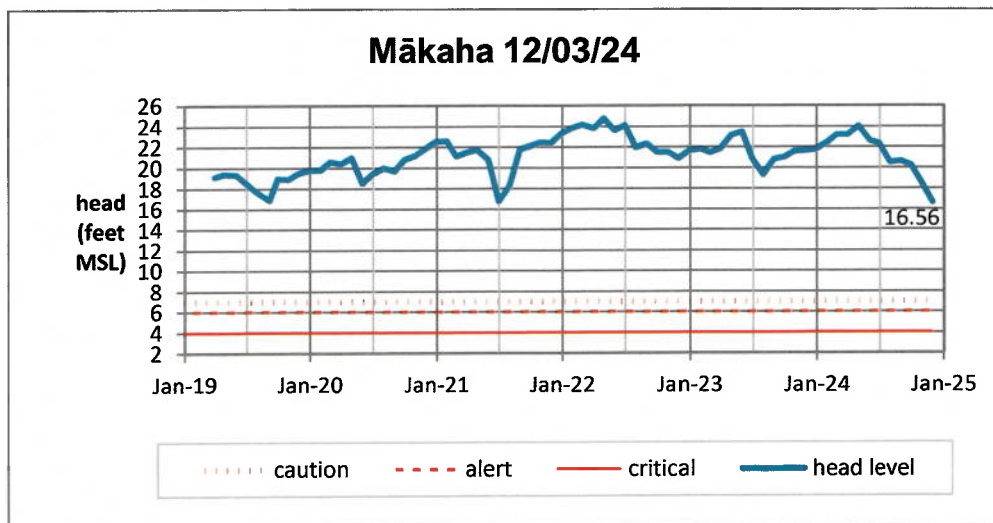
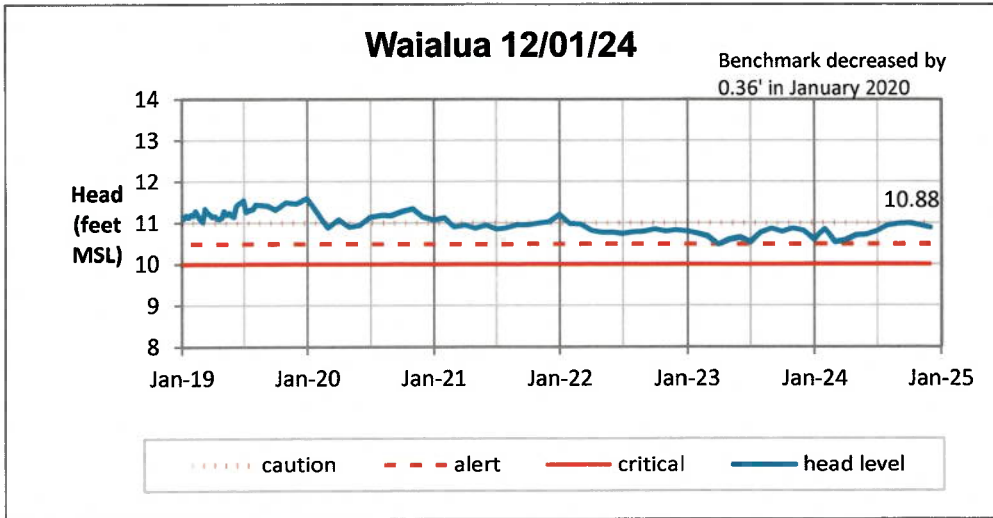
Head Report

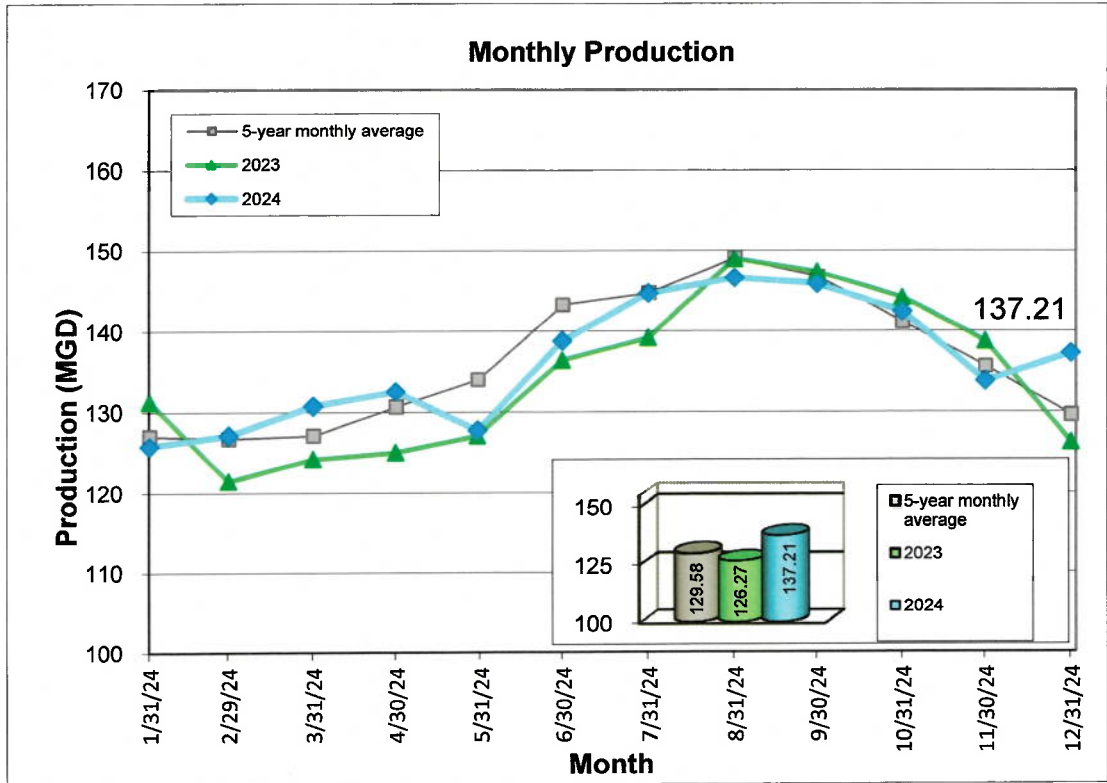
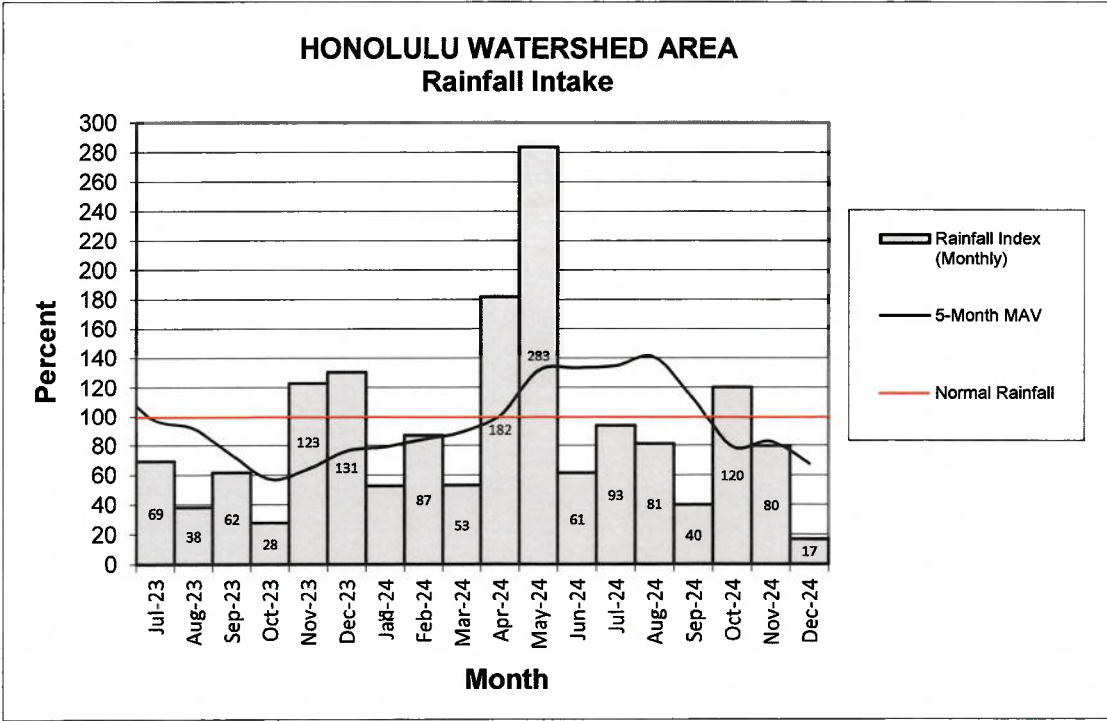


Head Report



Head Report





ITEM FOR INFORMATION NO. 3

“January 27, 2025

WATER MAIN
REPAIR
REPORT FOR
DECEMBER 2024

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Water Main Repair Report for December 2024

Wayne Tello, Acting Program Administrator, Field Operations Division,
will report on water main repair work for the month of December 2024.

Respectfully submitted,

/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

Attachment”

The foregoing was for information only.

DISCUSSION: Wayne Tello, Acting Program Administrator, Field Operations Division,
gave the report. There were no comments or discussion.

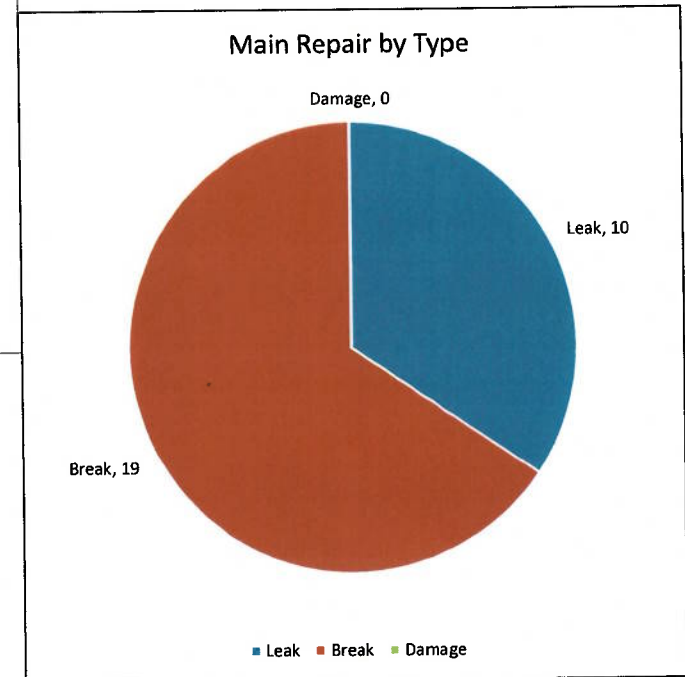
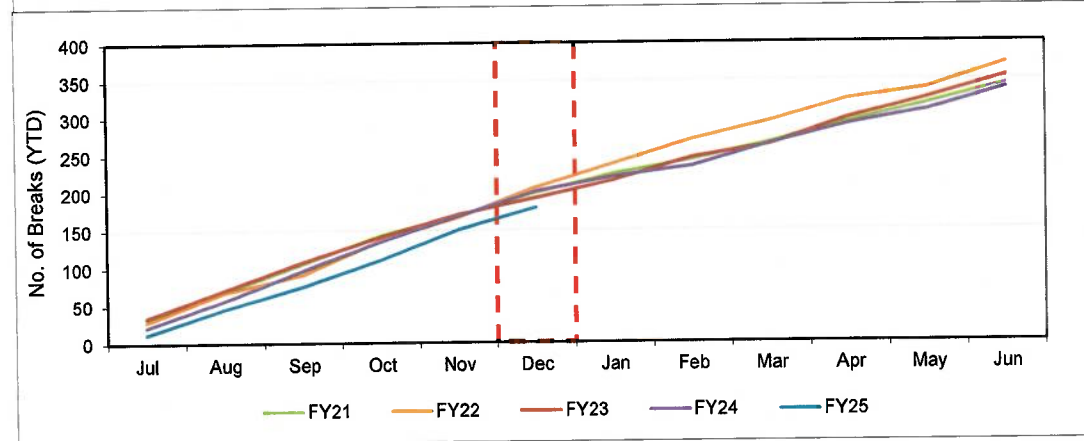
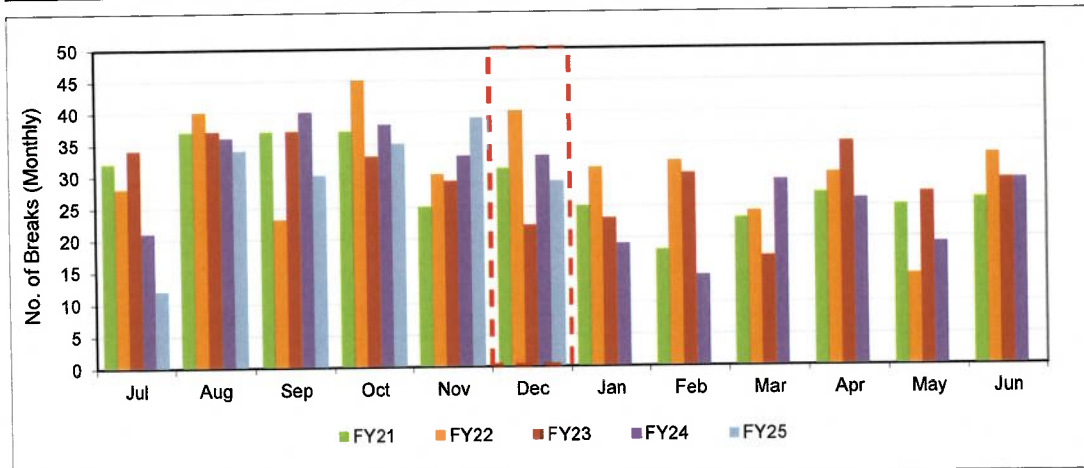
**WATER MAIN REPAIR REPORT
for December 2024**

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	12	34	30	35	39	29	--	--	--	--	--	--	179
2024	21	36	40	38	33	33	19	14	29	26	19	29	337
2023	34	37	37	33	29	22	23	30	17	35	27	29	353
2022	28	40	23	45	30	40	31	32	24	30	14	33	370
2021	32	37	37	37	25	31	25	18	23	27	25	26	343

Main Repair by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Leak	4	27	14	24	20	10	--	--	--	--	--	--	99
Break	7	7	15	10	19	19	--	--	--	--	--	--	77
Damage	1	0	1	1	0	0	--	--	--	--	--	--	3
Total	12	34	30	35	39	29	0	0	0	0	0	0	179



Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
12/2/2024	562 Kiholo St, Honolulu	4	CI	12/29/2024	709 Kihapai St, Kailua	8	CI
12/2/2024	120 Rose St, Wahiawa	6	CI	12/29/2024	2338 Anini Pl, Pearl City	8	CI
12/3/2024	1992 Saint Louis Dr, Honolulu	8	CI	12/30/2024	41-530 Poalima St, Waimanalo	8	CI
12/3/2024	98-452 Kilinoe St, Aiea	16	CI	12/31/2024	99-105 Mikalemi St, Aiea	8	CI
12/3/2024	99-44 Kauhale St, Aiea	8	CI	12/31/2024	1326 Nanakai St, Pearl City	8	PVC
12/4/2024	700 Alakea St, Honolulu	8	CI				
12/4/2024	700 Alakea St, Honolulu	8	CI				
12/4/2024	99-41 Kauhale St, Aiea	8	CI				
12/5/2024	45-780 Nanihoku Wy, Kaneohe	8	DI				
12/5/2024	45-780 Nanihoku Wy, Kaneohe	8	DI				
12/6/2024	445 Wanaao Rd, Kailua	8	CI				
12/7/2024	44-372 Kaneohe Bay Dr, Kaneohe	12	CI				
12/8/2024	3123 Alika Ave, Honolulu	8	PVC				
12/10/2024	67-364 Haona St, Waialua	8	CI				
12/11/2024	615 Pohukaina St, Honolulu	8	DI				
12/12/2024	87-180 Manuliilii Pl, Waianae	8	PVC				
12/12/2024	94-1018 Lumiaina St, Waipahu	12	CI				
12/13/2024	480 Hoomalu St, Pearl City	8	CI				
12/15/2024	98-04 Kihale St, Aiea	8	CI				
12/17/2024	759 Alakea St, Honolulu	8	CI				
12/20/2024	66-1128 Kaukonahua Rd, Waialua	12	AC				
12/20/2024	759 Hahaione St, Honolulu	8	DI				
12/22/2024	2304 Metcalf St, Honolulu	8	PVC				
12/24/2024	86-325 Kuwale Rd, Waianae	8	CI				

LEAK DETECTION for December 2024

POIs Investigated

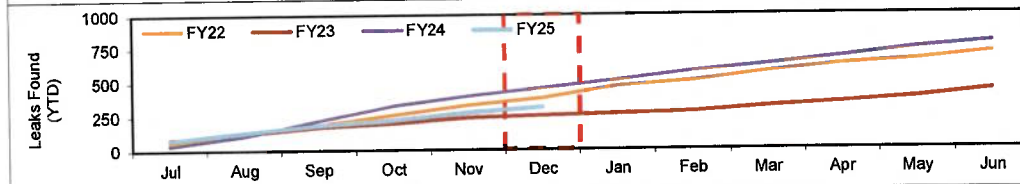
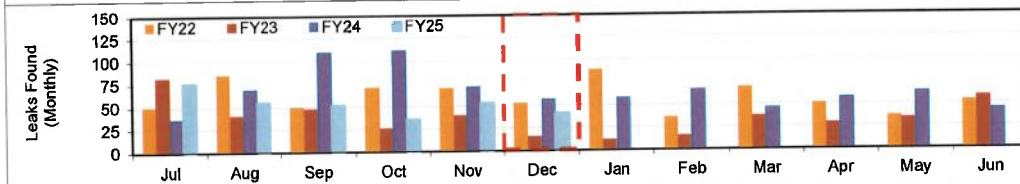
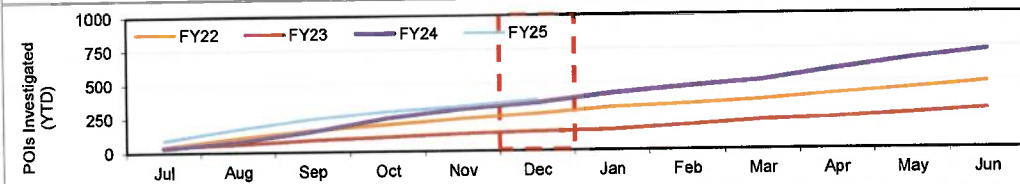
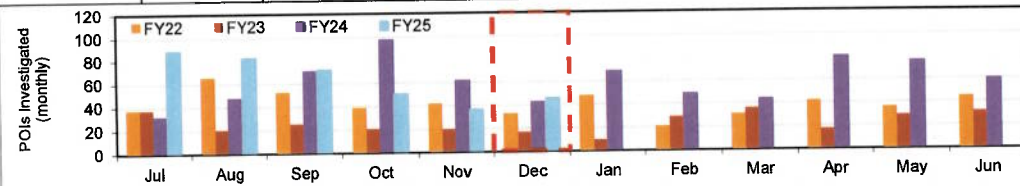
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	88	82	71	50	36	45	--	--	--	--	--	--	372
2024	31	47	70	97	61	42	68	48	43	79	75	59	720
2023	37	20	25	20	19	16	9	28	35	17	28	31	285
2022	37	65	52	38	41	32	47	20	30	41	35	44	482

Leaks Found

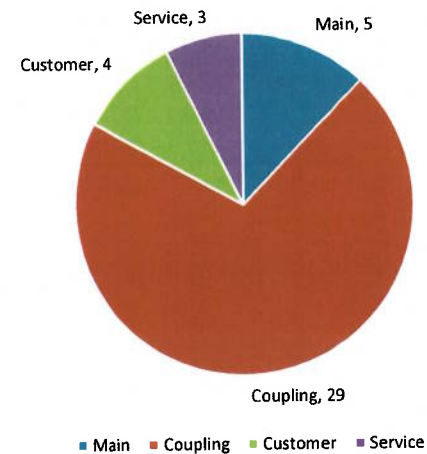
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2025	76	55	51	35	53	41	--	--	--	--	--	--	311
2024	36	69	109	111	70	56	57	66	45	56	62	43	780
2023	82	40	47	25	39	15	11	15	36	28	33	57	428
2022	50	85	49	70	69	52	88	35	68	50	35	52	703

Satellite Leak by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Main	8	6	2	3	2	5	--	--	--	--	--	--	26
Coupling	62	41	43	24	41	29	--	--	--	--	--	--	240
Customer	3	4	1	5	3	4	--	--	--	--	--	--	20
Service	3	4	5	3	7	3	--	--	--	--	--	--	25
Total	76	55	51	35	53	41	0	0	0	0	0	0	311



Satellite Leak by Type



MOTION TO RECESS INTO EXECUTIVE SESSION

There being no further business, Chair Anthony, at 2:24 PM, called for a motion to adjourn the Open Session. Jonathan Kaneshiro so moved; seconded by Lance Wilhelm and unanimously carried.

Upon unanimous approved motion, the Board recessed into Executive Session Pursuant to [HRS § 92-5 (a)(4)] at 2:25 PM to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.

OPEN SESSION

The Board reconvened in Open Session at 5:39 PM.

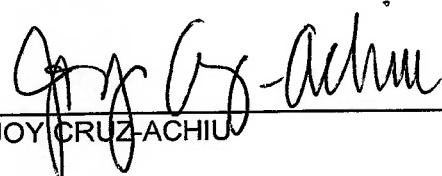
Chair Anthony disclosed that the Board authorized the BWS to proceed in the proposed settlement of Civil No. 1CCV-22-456, Drayko Construction Inc., V. BWS.

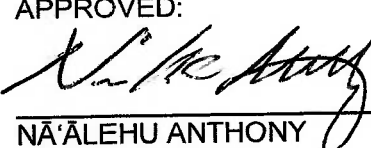
MOTION TO ADJOURN

There being no further business, Chair Anthony, at 5:44 PM, called for a motion to adjourn the Regular Session. Lance Wilhelm so moved, seconded by Kēhaulani Pu'u, and unanimously carried.

The minutes of the Regular Meeting held on January 27, 2025, are respectfully submitted,

THE MINUTES OF THE REGULAR MEETING HELD ON JANUARY 27, 2025, WERE APPROVED AT THE FEBRUARY 24, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA			ABSENT
LANCE WILHELM	X		
KĒHAULANI PU'U			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		


 JOY CRUZ-ACHIU

APPROVED:

 NĀ'ĀLEHU ANTHONY
 Chair of the Board
 FEB 24 2025

Date