#### MINUTES

## REGULAR MEETING OF THE BOARD OF WATER SUPPLY

November 24, 2014

At 2:01 PM on November 24, 2014 in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Miyashiro called to order the Regular Meeting.

Present:

Duane R. Miyashiro, Chair

Mahealani Cypher

Theresia C. McMurdo (arrived at 2:05 p.m.)

David C. Hulihee Ross S. Sasamura

Also Present:

Ernest Lau, Manager and Chief Engineer

Ellen Kitamura, Deputy Manager and Chief Engineer

Alex Ubiadas
Barry Usagawa
Daryl Hiromoto
Joe Cooper
Robert Morita
Karen Tom
Jason Takaki
Stuart Wong

Henderson Nuuhiwa

Marc Chun

Nancy Matsumoto
Jill Kuramoto

Others Present:

Krishna Jayaram, Deputy Corporation Counsel

Marilyn Ushijima, Deputy Corporation Counsel

Eric Iwamoto, Bowers + Kubota

Carl Lundin, CDM Smith

Tom Myers, Brown and Caldwell

Absent:

Adam C. Wong, Vice Chair

Ross M. Higashi

APPROVAL OF MINUTES

Approval of the Minutes of the Regular Meeting held on October 27, 2014

MOTION TO APPROVE Ross Sasamura and Mahealani Cypher motioned and seconded, respectively, to approve the Minutes of the Regular Session Meeting of

TOPICS FOR FUTURE BOARD MEETINGS Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject: Topics for Future Board Meetings

We would like to take this time to allow the members of the Board to inform us of any topic or concern pertaining to Board of Water Supply operations that the Board would want addressed at future Board Meetings.

There are two pending topics, as follows, that were requested by the Board:

- Update on the Request for Proposals for the Redevelopment of the Board of Water Supply Beretania Property, which will be presented at a future Board meeting.
- 2. Update on Cyber Security, after the Department completes its review.

Respectfully submitted,

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

DISCUSSION:

Manager Lau informed the Board about the two pending topics that will be presented to them at future Board meetings. Chair Miyashiro asked Mr. Lau if he had an idea when they will be ready to present an update on the first item. Mr. Lau replied that they are still in the procurement process and until that is completed and recommendations are done, he will not be able to share information with the Board. Board Member Cypher inquired about the procurement process. Mr. Lau explained that the Department will submit a recommendation to the Board and if the Board agrees, then they will proceed to seek the City Council's approval on the development agreement. Once the developer completes the work, the Department will finalize a lease agreement, which would go before the Board and the City Council for approval.

There were no other topics requested by the Board.

#### ITEM FOR INFORMATION NO. 1

"November 24, 2014

REVISION OF THE 2014-2015 CIP BUDGET -AMENDMENT 1 Chair and Members Board of Water Supply City and County of Honolulu Honolulu, Hawaii 96843

Chair and Members:

Subject:

Revision of the 2014-2015 Capital Improvement Program

Budget - Amendment No. 1

The current Capital Improvement Program (CIP) Budget shall be amended as described below:

<u>Appropriation</u>

<u>Present</u>

Proposed

1. Add the following CIP projects and appropriations:

Item No. 21A KALUANUI LINE BOOSTER RENOVATION

OPERATING FUND CONST

935,000

The project is ready for advertisement and will replace the deferred Diamond Head Line Booster pump replacement project.

Item No. 5A GROUND WATER QUALITY ASSESSMENT AND CHARACTERIZATION

OPERATING FUND P&E

800,000

On January 13, 2014, the Navy reported a 27,000 gallon leak of jet fuel from its Red Hill underground fuel facility. Navy studies show leaks dating back to 1949 and petroleum fuel contaminants are present in the ground water underneath the facility in amounts that exceed Department of Health environmental action levels. The purpose of this project is to characterize ground water quality to assess the long term impacts of fuel leaks on the Moanalua and Waimalu aquifers beyond the boundary of the Red Hill facility.

#### Appropriation

<u>Present</u> <u>Proposed</u>

Item No. 40A MAILIILII 20-INCH PIPELINE RE-LINING

OPERATING FUND P&E

250,000

The re-lining of the Mailiilii 20-inch pipeline will repair a large leak under the Mailiilii concrete drainage channel and allow the main to be placed back in service. Transmission capacity from the Lualualei Line Booster to the Waianae 242' Reservoir is significantly reduced until the pipeline is repaired.

Delete the following CIP projects and appropriations:

Item No. 10 KEANU LINE BOOSTER: REPLACE PUMPING UNITS

OPERATING FUND CONST

1,820,000

Additional items of work identified during the design phase will delay the completion of the plans and specifications. The project will not be ready for advertisement in the current fiscal year and will be deferred to the next fiscal year.

Item No. 12 DIAMOND HEAD LINE BOOSTER: REPLACE PUMPING UNITS

OPERATING FUND CONST

935,000

During pre-design investigation, six valves required to isolate the station were found to be leaking. The installation of new isolation valves is required before any work can be done on the rest of the pumps and piping. The additional topographic survey, soils investigation, research work, and design services will significantly impact the project schedule and the project will not be ready for advertisement in the current fiscal year. Construction will be deferred to the next fiscal year.

Item No. 39 FIRE HYDRANT INSTALLATIONS AT VARIOUS LOCATIONS

SPECIAL EXPENDABLE FUND P&E

100,000

--

Fire hydrant locations identified in the Kailua area will be included in a larger Kailua area fire hydrant upgrade project in FY 2016 instead

of being designed as a separate project to benefit from economies of scale.

**Appropriation** 

Present Proposed

Item No. 68 KALAWAHINE 180 2.0 MG RESERVOIR, PART II

OPERATING FUND P&E

350,000

---

The Kalawahine 180 Reservoir project was funded in fiscal year 2014 through a contract change order.

Increase the appropriation for the following CIP projects:

Item No. 6 PUMP RENEWAL AND REPLACEMENT

OPERATING FUND CONST

500,000

1,600,000

Additional funding is needed to address pump replacement needs at Waipio Heights Wells II, Ka`amilo Wells, and Honouliuli Wells II and a motor control upgrade for Manoa Wells II. These immediate needs were identified after the fiscal year 2015 CIP budget was finalized.

CONTRACT ADJUSTMENT ACCOUNT

OPERATING FUND

3,000,000

3,120,000

The remaining balance transferred to the Contract Adjustment Account to be available for other projects.

The appropriate pages of the current Capital Improvement Program budget will be revised for distribution.

Respectfully submitted,

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

The foregoing was for information only.

#### DISCUSSION:

Mr. Lau introduced Mr. Robert Morita, the new Executive Support Officer and informed the Board that Mr. Morita and Mr. Jason Takaki, Program Administrator of the Capital Projects Division will be available to answer questions on the amendments. Mr. Miyashiro welcomed Mr. Morita to the Department. Mr. Morita thanked Mr. Miyashiro. Mr. Lau shared that Mr. Morita came from the City's Department of Budget and Fiscal Services and worked on their operating budget for a number of years, so he is well experienced in the area of budget.

Mr. Lau explained the amendments to the budget. There were no comments or discussion.

#### **ITEM FOR INFORMATION NO. 2**

## QUARTERLY CAPITAL IMPROVEMENT PROGRAM STATUS REPORT ALL DIVISIONS

Quarter Awarded		JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN	Awarded to Date	Total Budgeted	
Design Contracts Awarded (#/\$)	1	\$1,350,000.00		\$0.00		\$0.00		\$0.00			
Construction Contracts Awarded (#/\$)	3	\$174,286.35		\$0.00		\$0.00		\$0.00			
Project Totals	4	\$1,524,286.35	0	\$0.00	0	\$0.00	0	\$0.00	\$1,524,385.35	\$68,105,000.00	

Quarter Completed	JUL-SEP			OCT - DEC		JAN - MAR		APR - JUN	Totals	
Design Contracts Completed (#/\$)	3	\$357,005.20		\$0.00		\$0.00		\$0.00	\$1,135,774.78	
Construction Contracts Completed (#/\$)	2	\$2,106,110.00		\$0.00		\$0.00		\$0.00	\$2,106,110.00	
Totals	8	\$2,463,115.20	0	\$0.00	0	\$0.00	0	\$0.00	\$3,241,884.78	

Ongoing Projects	
Ongoing Design Projects (#)	163
Ongoing Design Projects (\$)	\$72,772,477.03
Ongoing Construction Projects (#)	82
Ongoing Construction Projects (\$)	\$199,299,897.83

## CAPITAL IMPROVEMENT PROGRAM QUARTERLY UPDATE ALL DIVISIONS

### DESIGN AND CONSTRUCTION PROJECTS AWARDED - FIRST QUARTER FY 2015

		Expend	Budget	
Item#	Project Title	Type	Amount	Awarded
2	BWS Water Master Plan Program Management, Phases II and III	P&E	\$1,350,000.00	\$1,350,000.00
43A	Beretania Employee Parking Lot Fencing	CONST	\$15,000.00	\$12,100.00
43B	Waialae lki Booster No. 1 and Wailupe Line Booster Repainting	CONST	\$75,000.00	\$62,186.35
73	Wireless & Security Camera System Upgrades	CONST	\$200,000.00	\$100,000.00
	1st Quarter totals		\$1,640,000.00	\$1,524,286.35

### **DESIGN AND CONSTRUCTION PROJECTS COMPLETED - FIRST QUARTER FY 2015**

Job#	Project Title	Completion Date	Contract Amount
12-008	Ward Avenue: 12-Inch and 8-Inch Mains	7/7/2014	\$1,572,487.00
11-006	Kaiolohia Place and Way: 8-Inch Water Main	7/14/2014	<b>\$5</b> 33,623.00
2000-026	Ward Avenue: 12-Inch and 8-Inch Mains	7/17/2014	\$231,500.00
2011-030C	Kailua lwi Kupuna Reinterment Topographic Survey	8/1/2014	\$8,115.00
2012-013B	Nunu Street 8-Inch Main	9/19/2014	\$117,390.20
	1st Quarter totals		\$2,463,115.20

#### DISCUSSION:

Mr. Takaki gave the update on the capital improvement program. Mr. Lau added that they are trying to show each quarter's activity and working very hard to get more activity in the first quarter. He mentioned how the Department was able to award \$1.5 million of projects in the first quarter and that the ongoing projects are up to almost \$200 million, so as the capital improvement program is rolled out each year, it builds the dollar value number of ongoing projects.

There were no comments or discussion.

#### ITEM FOR INFORMATION NO. 3

"November 24, 2014

CAPITAL
PROJECTS
PROGRAM AND
CONSTRUCTION
MANAGEMENT
UPDATE

Chair and Members Board of Water Supply City and County of Honolulu Honolulu, Hawaii 96843

Chair and Members:

Subject:

Capital Projects Program and Construction Management Quarterly Update

Jason Takaki, Program Administrator of our Capital Projects Division, will provide an update on Program Management projects in the Capital Projects Division.

Respectfully submitted,

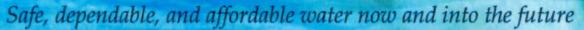
/s/ ERNEST Y. W. LAU, P.E. Manager and Chief Engineer

Attachment"

The foregoing was for information only.

DISCUSSION:

Mr. Takaki gave the presentation. There were no comments or discussion.





# Capital Projects Program and Construction Management

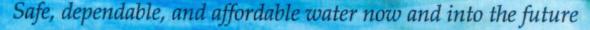








Board of Water Supply November 24, 2014

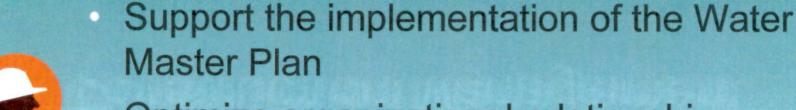




## **Program Management**

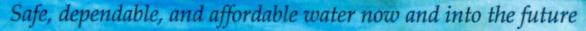


- Streamline project execution
- Align business processes to best support the increased number and scale of projects





- Optimize organizational relationships
- Formulate staff succession plans for organizational sustainability





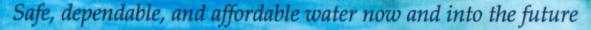
## **Construction Management**



- Improve quality control/quality assurance
- Standardize operating procedures & training



- Streamline organization and staff succession plans for organizational sustainability
- Improve communications
- Support the implementation of the Water Master Plan





## Progress to date



 Core teams incrementally developing collaborative solutions to improve operations and crafting action plans for implementation



Communicating with stakeholders



Implementing improvements in a variety of areas

Safe, dependable, and affordable water now and into the future



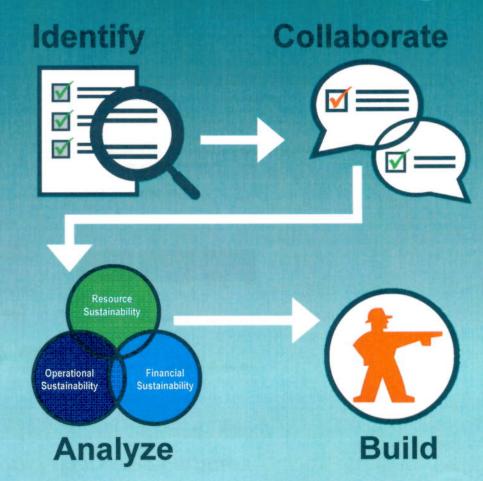
## **Project Identification and Scoping**

Division Submits Project Request

Develop and Verify Project Requirements

Analyze Business Case

Submit to CIP for Prioritization

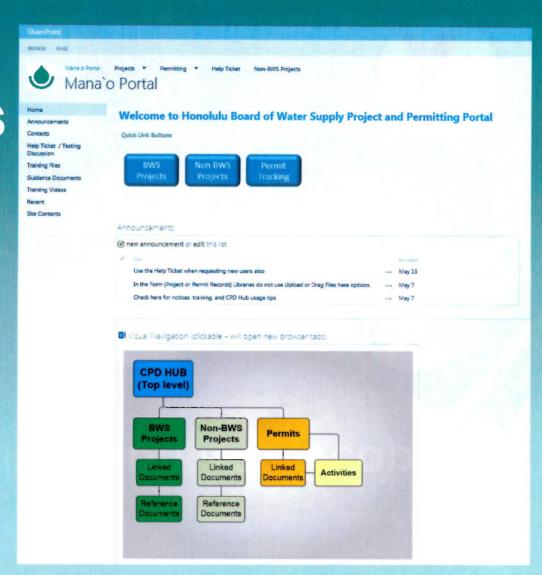


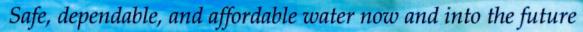




## MANA'O PMIS

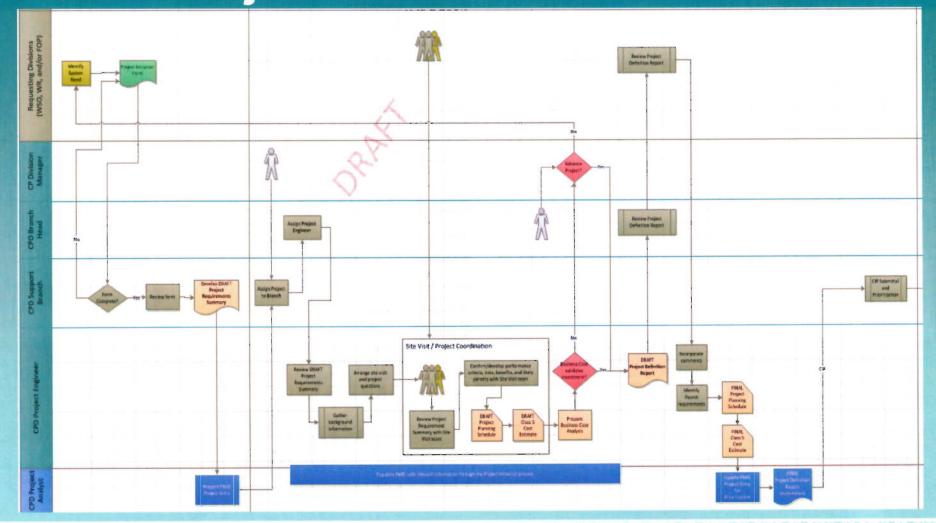
- Management
- Administration
- Notification
- Accountability
- Organization







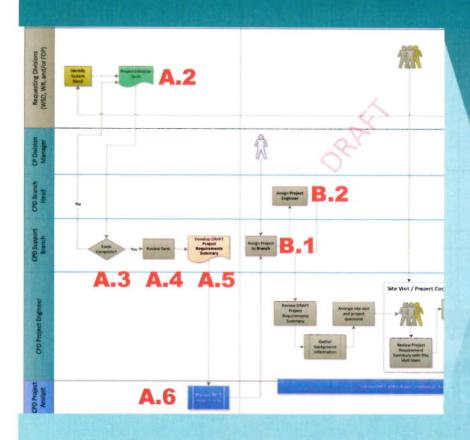
## **Project Initiation Workflow**



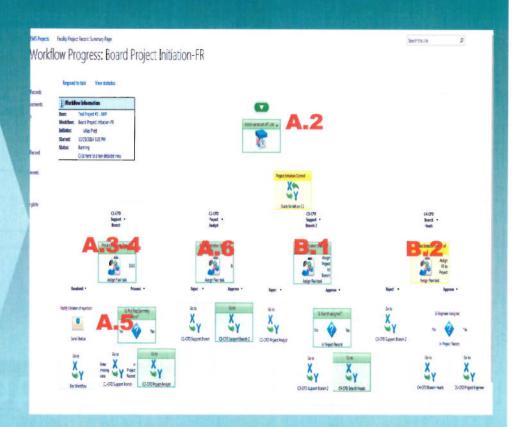
Safe, dependable, and affordable water now and into the future



## **Workflow Guides PMIS Structure**



**Project Initiation Workflow** 



MANA'O 'Smart' System Guides Staff
Through Process, Know Status, and
Improves Access to Information for All BWS





# Project Definition Report: Identifies objectives and sets scope

#### 3.0 Additional Project Information

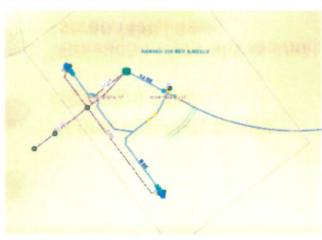


Figure 0-5: HOM2 Figure of Kalsako Wells

#### Rolated Information, studies, or reports:

As-builts for previous projects include:

- Job 30-030R Kahuku Wells: Repair of Pump No. 1
- Job 09-030L Kahuku Wells: Repair of Pump No. 1 and No. 2
- Job 02-002D Kahuku Deep Monitor Well: Drilling and Casing One Monitor Well
- Job 00-057 Kahuku Wells I: Replace Pumping Units and Appurtenances
- Job 80-041 Kahuku Water Development: Installation of Two Pumps, Control Building, Piping, Electrical Equipment, 0.5 MG Reservoir, Transmission Main, and Access Road
- Job 79-006A Kahuku Water Development: Drilling, Casing, and Testing Two Wells

#### On-going construction project:

Job 11-016 Waialua Wells and Kahuku Wells Renovation

#### Recently completed Well Drilling Project:

 Job 12-001 Kahulu Wells Unit No. 3. Documents include Project Solicitation, Environmental Notice, Final EA Background Summany, Final Progress and Payment Report, and CWRM Well Construction Permit application.

See Attachment D for additional Project Background/History

#### 4.0 Photos









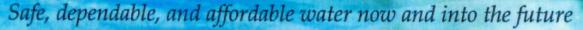
Figure 3 (Top Left): General site and control buildin Figure 2 (Top Right): Hydro-programic tank Figure 3 (Bottom Left): Well No. 1 Figure 4 (Buttom Bight): Well No. 2

#### 5.0 Budget Information

Project Cost Estimate Notes:
Total Project Cost (incl Eng and CM):
Range (-50% to +300%):
Construction Cost:
Range (-50% to +300%):

\$\text{W}\_0 \cdot \text{W}\_1 \cdot \text{W}\_2 \cdot \text{W}\_3 \cdot \text

\$2,529,000 (AACE Class 5 Cost Estimate) \$1,259,500 to \$5,038,000 \$1,737,000 (AACE Class 5 Cost Estimate) \$658,500 to \$3,474,000





## Business case validates BWS capital investments

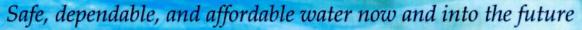
- 1
- Aligns Decisions with Strategic Plan
- Brainstorm alternatives and screen fatal flaws
- Account for Future Risk
- Standardize the basis of the Decision Process
- 6

Identify Preferred

Alternative

Assemble

**Expert Team** 





## **Key Project "Phases"**

**Every project follows same path** 



**Procurement** 

Setup Project Record

Obtain Approvals & Establish Funding



**Negotiation** 

Complete Contract

Obtain Approvals



**Execution** 

Perform Work

Control Costs & Change

Engage Team



Closeout

Work Completed

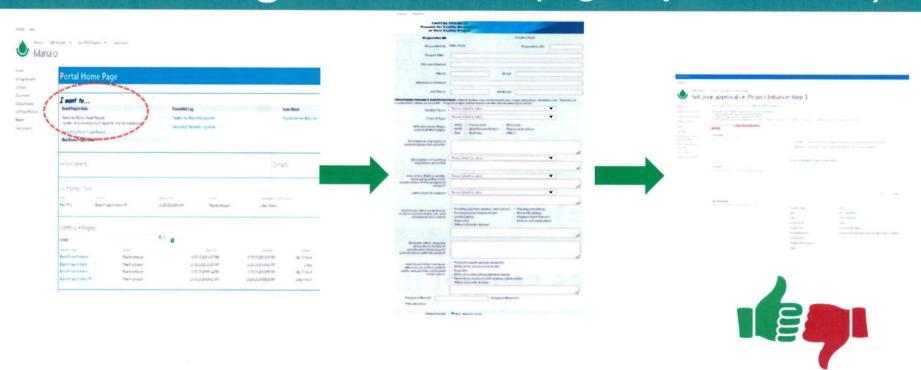
Final "Paperwork" (no more paper)

Safe, dependable, and affordable water now and into the future





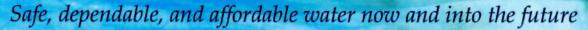
## 'Smart' System Guides User through MANA'O (e.g.steps A.2 – A.4)



Navigate to the empty form from the Home Page

Complete form and save (starts workflow)

Form reviewed and deemed complete or sent back for more info





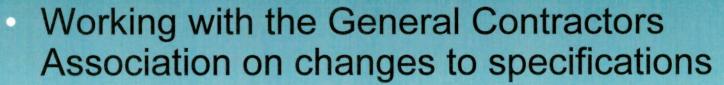
## Progress to date



 Finalized contract specifications enhancements to improve project controls

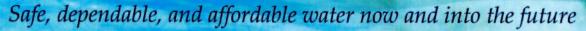


Collaborating with other Divisions on internal processes to improve performance





Collaborating with City Department of Design and Construction on an improved Contractor Evaluation Program





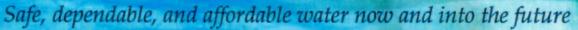
## **Current Focus**



- Draft standard operating procedures (SOPs)
- Construction Inspector training program to launch in January 2015



 Working with system designers on Construction Module in MANA'O to include mobile connectivity and realtime reporting





## **CPD Optimization Overview**



- Internal gap analysis
- Summarize findings
- Develop initial Action Plan

Implement

- Execute Action Plan
- External outreach to contractors/consultants

We are here

Optimize

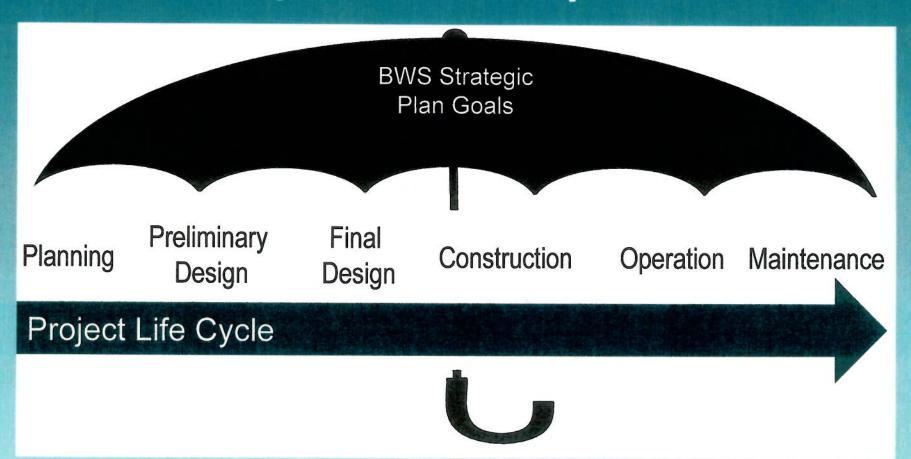
- Continued optimization
- · On-call staff support
- Facilitate internal knowledge transfer

Begin 2015





# Strategic Goals Guide Asset Development and Operations



Safe, dependable, and affordable water now and into the future



## Mahalo for your support









#### **ITEM FOR INFORMATION NO. 4**

"November 24, 2014

2015 BOARD MEETING SCHEDULE Chair and Members Board of Water Supply City and County of Honolulu Honolulu, Hawaii 96843

Chair and Members:

Subject: Schedule of Monthly Board Meetings for Calendar Year 2015

Attached for your information is the schedule of Board Meetings for the calendar year 2015.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Mr. Lau stated that the Board meeting schedule for 2015 is attached. He asked the Board to let him know if there are any concerns with the schedule, and if not, this is what they will be following. Mr. Miyashiro stated that the time generally works for everyone.

## BOARD OF WATER SUPPLY CITY AND COUNTY OF HONOLULU

#### 2015 BOARD MEETING SCHEDULE

Board Meetings are scheduled for the fourth Monday of each month at 2:00 p.m., in the Public Service Building (PSB) Board Room, unless otherwise noted.

January 26

February 23

March 23

April 27

May 26 (Tuesday) (Monday, May 25 is a Holiday)

June 22

July 27

August 24

September 28

October 26

November 23

December 21 (3<sup>rd</sup> Monday in December)

"November 24, 2014

GROUNDWATER LEVELS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject:

Status Update of Groundwater Levels at All Index

Stations

There is one aquifer index well within low groundwater status for the production week that ended on November 8, 2014. Kaimuki is under an alert status. The weekly production average for the period was 134.61 million gallons per day.

The Board of Water Supply rainfall index for the month of October 2014 was 147 percent of normal, with a 5-month moving average of 106 percent. The Hawaii Drought Monitor shows no abnormally dry conditions for Oahu, as of November 4, 2014. The National Weather Service is forecasting below normal rainfall through April 2015, associated with El Niño. Most index monitor wells are exhibiting level to slightly increasing trends, reflecting seasonal reductions in pumpage combined with recent rainfall events.

Respectfully submitted,

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

Attachments"

The foregoing was for information only.

DISCUSSION:

Water Resources Program Administrator Barry Usagawa gave the report.

There were no comments or discussion.

#### PUMPAGE, HEAD, AND RAINFALL REPORT Week of 11/02/14 to 11/08/14

STATION		MGD	HEAD	STAT	ION	MGD	HEAD	STATI	ON	MGD	HEAD			MGD	HEAD
METR	0			WINDWAI				EWA-WAIANA				PH (Co	ONT)		
KULIOUOU		0.00		77.1.1.2.1.1.1.1				MAKAHA IV		0.00		PEARL CITY		1.33	
WAILUPE		0.00		WAIMANALO	) II	0.36		MAKAHA V		0.00		PEARL CITY	2070	0.00	
WAIALAE-IKI		0.00		WAIMANALO	500000	0.48		MAKAHA VI		0.64		WAIAU		0.78	
AINA KOA		0.48		KUOU I		0.82		MAKAHA SHAI	-T	0.00	12.54	NEWTOWN		2.10	
AINA KOA II		1.01		KUOU II		0.09		KAMAILE		0.33		KAONOHI I		0.74	
WAIALAE SHAFT		0.00		KUOU III		0.76		WAIANAE I		0.11		WAIMALU I		0.00	
MANOA II		0.76		LULUKU		0.89		WAIANAE II		0.78		AIEA		0.00	
PALOLO		0.87		HAIKU		0.37		WAIANAE III		0.33		AIEA GULCH	497	0.45	
KAIMUKI HIGH		3.28		IOLEKAA		0.23		MAKAKILO		0.55		AIEA GULCH	550	0.22	
KAIMUKI LOW		0.04	22.41	KAHALUU		0.49		HONOULIULI I		3.28		HALAWA 277	7	0.89	
WILDER	***********	4.59		WAIHEE	10	0.00		HONOULIULI I		6.94		HALAWA 550		0.00	
BERETANIA HIGH	1	4.12		KAHANA		0.73			SUBTOTAL:	14.38		KAAHUM	ANU MTR(-)	0.00	
BERETANIA LOW		2.77	22.79	PUNALUU I		0.00	18.34	IMPORT F				KAAMILO F	LO MTR (-)	0.00	
KALIHI HIGH		1.62		PUNALUU II		0.07		KAPOLEI LINE	BSTR	14.14		KUNIA I		4.53	18.96
KALIHI LOW		3.26	22.21	PUNALUU II		1.10		HONOULIULI L	and the second	16.14		KUNIA II		1.61	
KAPALAMA		0.58		KALUANUI		0.27		EWA BEACH F		4.20		KUNIA III		1.40	
KALIHI SHAFT	***	8.43		MAAKUA		0.20			OULIULI I (-)	-3.28		HOAEAE		6.18	
MOANALUA		0.58	19 19	HAUULA		0.00			OULIULI II (-)	-6.94		EWA SHAFT		0.00	
INO AND LEGAT	SUBTOTAL:	32.39	10010					1	SUBTOTAL:	24.26		WAIPAHU	INTCON. (-)	0.00	
				KAHUKU		0.31						EWA-V	VAIANAE (-)	-24.26	
IMPORT FF	ROM PH			OPANA		0.14		PEARL H	ARBOR			PH L	OCAL USE:	14.52	
HALAWA SHAFT		6.51	16.74			0.96		WAHIAWA		1.72		TOTAL S	SUBURBAN:	63.59	
KAAMILO		0.00		WAIALEE II		0.53	_	WAHIAWA II		1.67					
KALAUAO		8.55	17.26	SUNSET BE	ACH	0.00		MILILANI		3.29		KALAUAO S	PRINGS	0.55	
PUNANANI		11.61		S	UBTOTAL:	8.80		MILILANI II		0.00		BARBERS P	OINT (NP)	4.34	
KAONOHI II		0.00						MILILANI III		0.67		GLOVER TU	NNEL (NP)	0.48	
WAIMALU II		0.00	15.23	WIND. E.	XPORT	0.14		MILILANI IV		0.72					
KAAHUMANU		0.86						WAIPIO HTS.	10-32	0.29		Н	EAD CONDI	LION	
HECO WAIAU		2.75		HALEIWA-W	/AIALUA			WAIPIO HTS.		0.13		CAUTION	ALERT	CRIT	ΓICAL
MANANA		0.48		HALEIWA		0.00		WAIPIO HTS.	II	0.27			Kaimuki		
KAAHUMA	NU FLOW MT	0.00		WAIALUA		1.76		WAIPIO HTS.	III	1.16					
KAAMIL	O FLOW MTR	0.00		S	UBTOTAL:	1.76		WAIPAHU		3.12	18.67				
TOTAL IMP/EX	KP WAIP. INT:	0.00			117-02-02-02-02-02-02-02-02-02-02-02-02-02-			WAIPAHU II		0.70					
IMPOR	T FRM WIND:	0.14		EWA-WA	AIANAE	2		WAIPAHU III		1.51					
	SUBTOTAL:	30.92		MAKAHA I		0.89	)	WAIPAHU IV		2.10					
				MAKAHA II		0.31		PEARL CITY S	SHAFT	0.94	14.83				
TC	TAL METRO:	63.31		MAKAHA III		0.25	5	PEARL CITY		0.25					
CIA	DM DEDMITT	ED LICE	FORE	NAIC DOTABL	E COLIBOR			PUMPAGE	2014	20	013	GRAVITY	2014	20	013
CV	RM PERMITTI			C	D		E	SUBURB.	63.59	1000	0.88	SUBURB.	7.26		.13
MATER	A		В	DIFF.	YEAR/	-	DIFF.	METRO	63.31		3.92	METRO	0.45		.23
WATER DISTRICTS	PERMITTED USE	20	014	B-A	DATE		D-A	TOTAL:	126.89		9.80	TOTAL:	7.71	_	.36
	45.27		2.84	-12.42	DATE	<del>-</del>	D-A	TOTAL	120.00	<u> </u>	0.00	Manoa	0.17		
HONOLULU			20.000	-12.42		_		NUUANU #5		1		Palolo	0.28		
WINDWARD NORTH SHORE	25.21 4.08		2.57 .70	-0.38		<del>                                     </del>		(rainfall)	1.66"	7	15"	Waim. I&II	0.08		
CONTROL OF THE PROPERTY OF	1000000		.39	-0.88		_		(rainan)	.,00	<del>  '</del>		Waim. III&IV	0.19		
WAHIAWA WAIANAE	4.27		.93	0.59								Waihee incl.	0.99		
	15.88		0.76	-5.12		<del>                                     </del>						Waihee tun.	1.94		
PEARL HARBOR	92.66		5.17	-26.50						_		Luluku	0.17		
TOTAL:	191.71		4.36	-57.35								Haiku	0.06		
TOTAL.	191.71	13	1.00	-01.00		$\vdash$						Kahaluu	2.28		
												Waia. C&C	1.40		

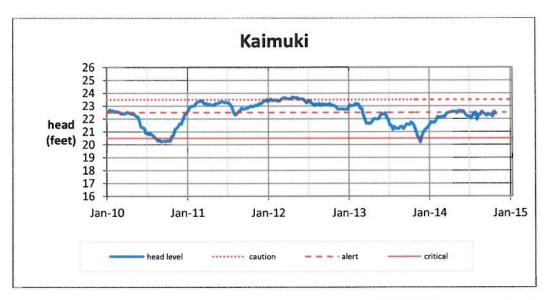
### DROUGHT STATUS REPORT DRAFT IN MGD

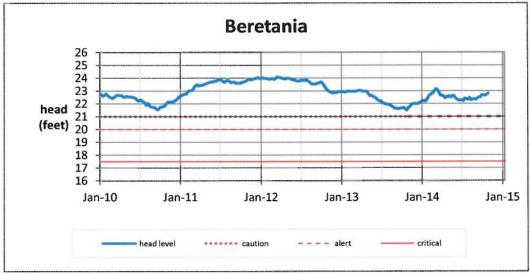
WATER USE DISTRICT	AUTHORIZED USE	2013	11/02- 11/08 2014			
HONOLULU	45.27	39.21	32.98			
WINDWARD	25.21	12.03	12.43			
NORTH SHORE	4.08	4.31	3.70			
WAHIAWA	4.27	3.67	3.39			
EWA-WAIANAE	20.22	22.73	40.20			
PEARL HARBOR	92.66	54.21	41.91			
TOTAL	. 191.71	136.16	134.61			

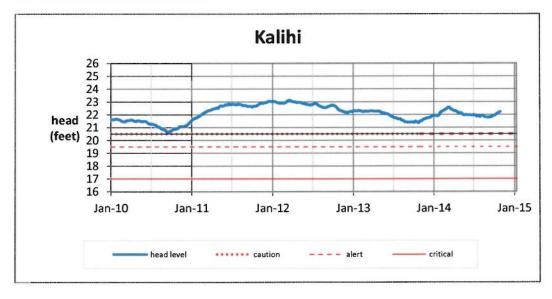
Accounts for in-district pumpage and transfers

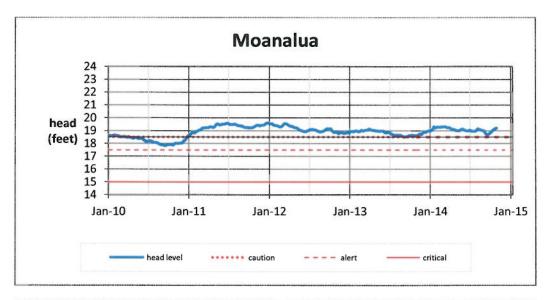
#### HEAD IN FEET

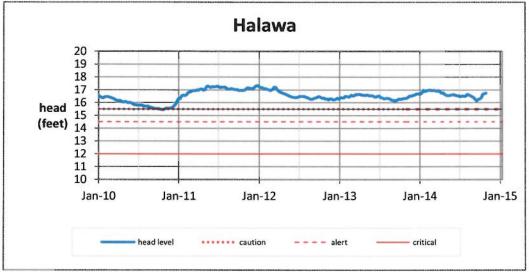
	2013	11/02- 11/08 2014				
HONOLULU						
KAIMUKI	21.12	22.41				
BERETANIA	21.70	22.79				
KALIHI	21.50	22.21				
MOANALUA	18.59	19.19				
PEARL HARBOR				ì		
HALAWA	16.33	16.74				
KALAUAO	16.84	17.26	70.00-00-00 og			
PEARL CITY	14.46	14.83				
WAIPAHU	18.04	18.67	1-7:			
KUNIA	18.31	18.96				
EWA-WAIANAE						
макана	10.44	12.54				
WINDWARD						
PUNALUU	16.06	18.34				
KALUANUI	15.93	18.36				
NORTH SHORE						
WAIALUA	11.26	11.22				

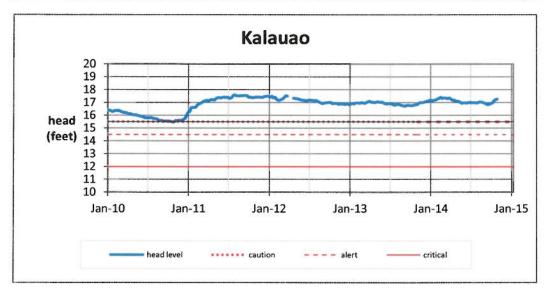


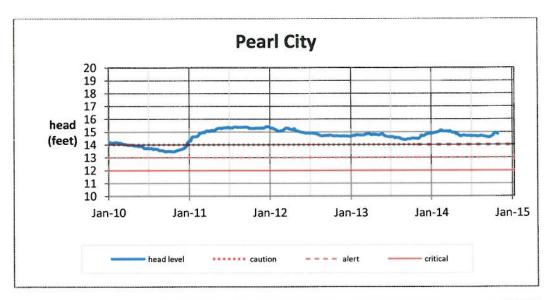


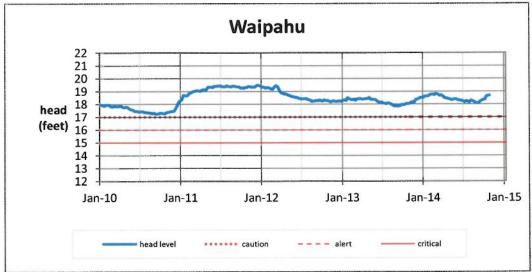


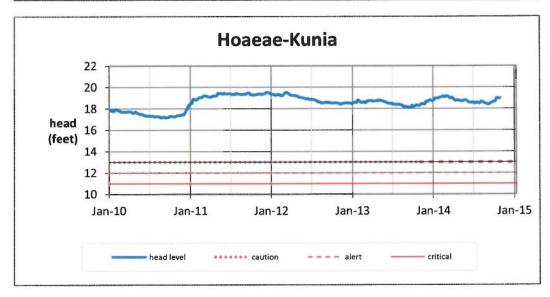


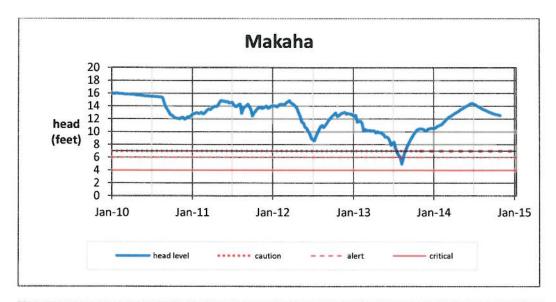


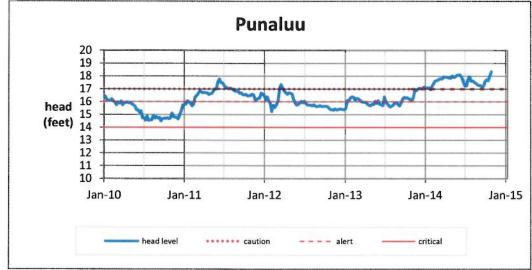


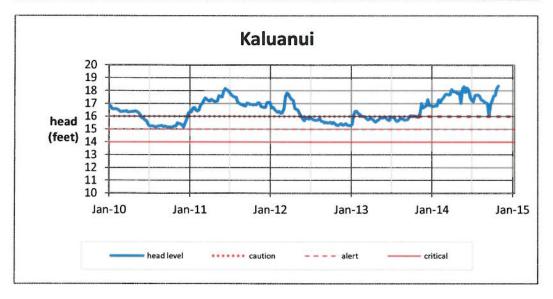


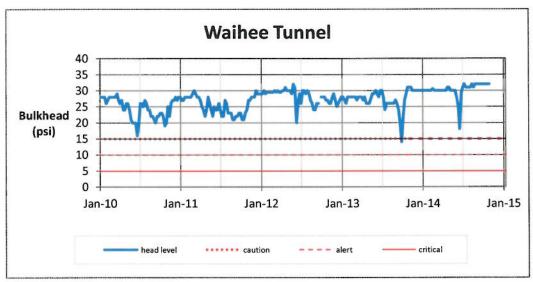


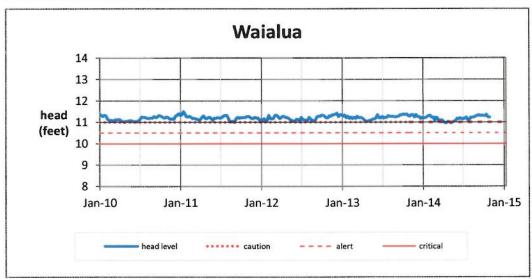


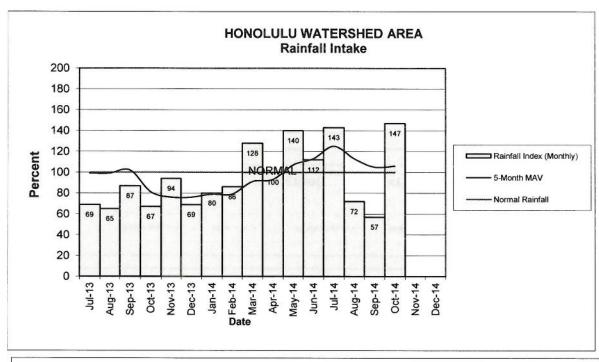


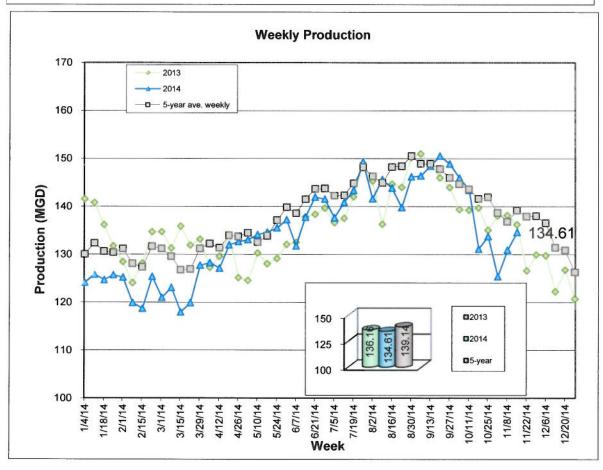


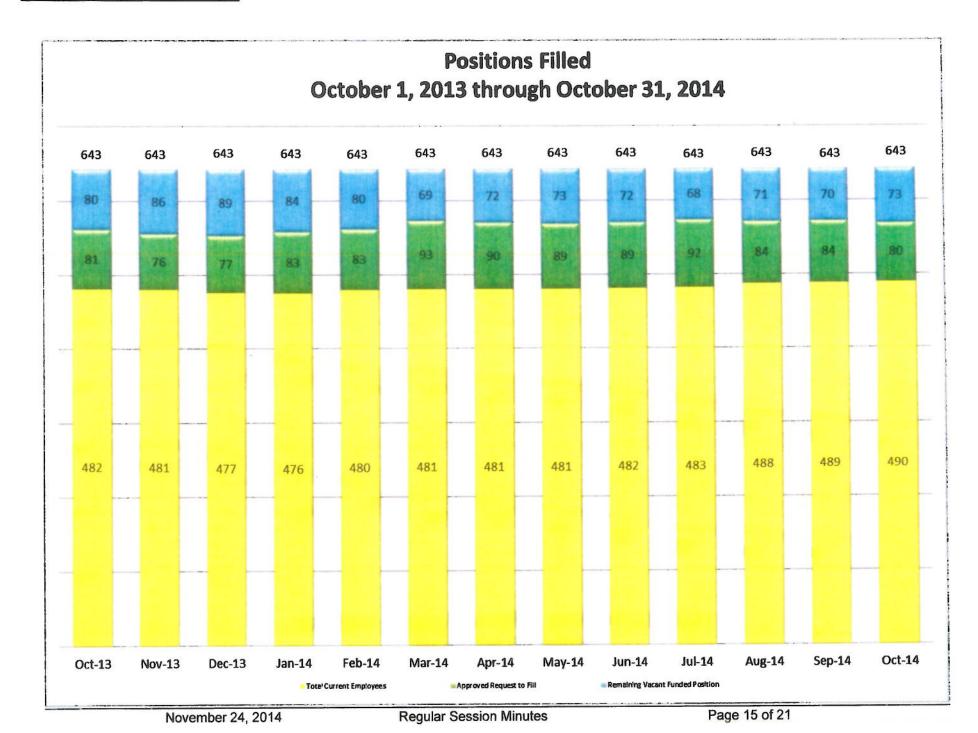




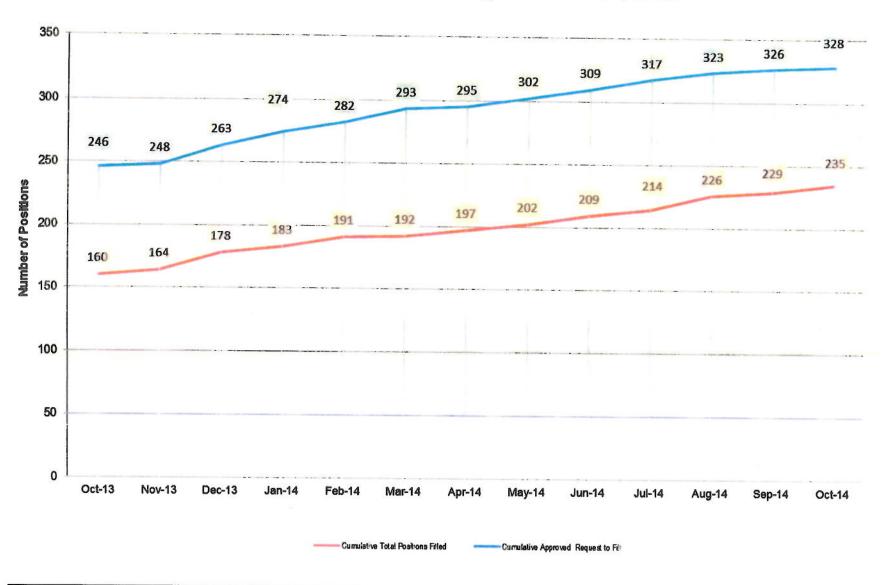








Cumulative Totals
October 1, 2013 through October 31, 2014



#### DISCUSSION:

Karen Tom of the Human Resources Office gave the report. Ms. Tom shared that on November 14, 2014, the State approved the Department's Plant Electrical/Electronic Equipment Repairer (PEER) trades apprentice program. Ms. Tom foresees the first class to be in the fall at the Honolulu Community College. In the meantime, the apprentices may begin working to start attaining their work process hours. Once the Water System Operations (WSO) Division has completed filling the upper level positions, they will know which positions they can downgrade to trades apprentice positions. Mr. Lau added that the whole process for this program to get approved took about two years.

Ms. Tom also informed the Board that WSO has hired eight personal service contract employees to do the water treatment work, allowing the mechanics to focus on their normal repair and maintenance work. Ms. Tom explained that this is a pilot program, and the pilot will determine the class of work and the positions.

Mr. Lau stated that there will be a number of employees retiring at the end of the year. Ms. Tom said that it would be about 8-10 employees retiring. Ms. Cypher commented that the Department is losing a lot of institutional knowledge as employees retire and hopes that the knowledge is being passed on to other people on their work teams. Ms. Tom stated that usually when the division chief knows that someone is retiring, they put in a request to fill the position in advance. Mr. Lau added that as Mr. Takaki described in his presentation, the creation of standards, procedures and tracking systems will help memorialize the process, so as employees retire and the next generation comes in, they'll have the documentation and tools to help them get up to speed faster. This is part of the Department's transition plan that would really prepare for the future. Ms. Tom replied to Ms. Cypher's inquiry by stating that this plan is for the whole department, blue and white collar, and not just for the engineering department. Ms. Cypher stated that the Department should always be training and preparing employees and not wait until people retire, so that they can be ready to step in at any time.

Board Member McMurdo asked how many people are in the apprenticeship program. Field Operations Program Administrator Daryl Hiromoto replied that they have about 12 right now and a couple that are just graduating. Ms. Tom stated that WSO will hire four PEEER apprentices. Ms. Cypher asked how many people are needed for WSO to be at full strength. Mr. Hiromoto replied that WSO has enough room for about four people and Field Operations has room for about 12 people.

Ms. McMurdo inquired how the apprentices are recruited. Ms. Tom explained that the City Department of Human Resources announces an open recruitment and there is a written exam. Ms. McMurdo asked if this applies to engineers also. Mr. Lau stated that the apprenticeship program is for Unit 1 employees. For engineers, the Department has an engineering intern program, where engineering college students may be hired to work at BWS. Ms. Tom added that after an intern graduates, they may be converted to a civil service Engineer I position. Ms. McMurdo asked how many engineer interns the Department currently has, and

Ms. Tom replied none at this time, as the interns have been converted to an Engineer I and the division habeen hiring graduates as Engineer I.	s

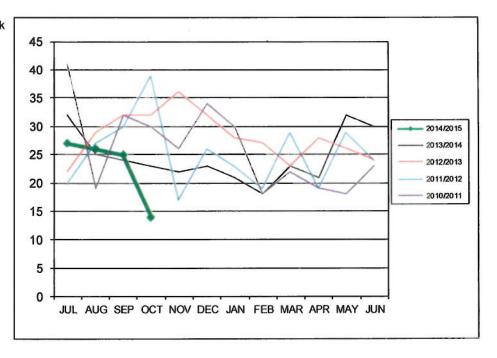
#### **ITEM FOR INFORMATION NO. 7**

#### WATER MAIN REPAIR REPORT

#### for October 2014

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2014/2015	27	26	25	14									92
2013/2014	32	25	24	23	22	23	21	18	23	21	32	30	294
2012/2013	22	29	32	32	36	32	28	27	23	28	26	24	339
2011/2012	20	27	30	39	17	26	23	19	29	19	29	24	302
2010/2011	41	19	32	30	26	34	30	18	22	19	18	23	312

Date	Address	Size	<u>Cause</u>
10/1	70 Puiwa Rd.	12" P.V.C.	Bear on rock
10/2	839 Kaluanui Rd.	12" C.I.	Corrosion
10/3	94-587 Kipou St.	8" C.I.	Corrosion
10/5	3349 Woodlawn Dr.	8" C.I.	Corrosion
10/7	1128 Alewa Dr.	8" P.V.C.	Unknown
10/7	1011 Kaloaloa St.	8" C.I.	Corrosion
10/10	91-787 Makule Rd.	8" C.I.	Corrosion
10/13	91-017 Amio St.	8" C.I.	Corrosion
10/21	3633 Waialae Ave.	12" C.I.	Corrosion
10/22	86-785 Paheehee Rd. (2 breaks)	8" C.I.	Corrosion
10/24	85-1031 Waianae Valley Rd.	12" C.I.	Corrosion
10/29	85-298 McArthur St.	8" P.V.C.	Corrosion
10/30	94-941 Awamoku PI.	6" C.I.	Corrosion



**Bold \* - Pro-active Leak Repair** 

39.71 miles of pipelines were surveyed by the Leak Detection Team in the month of October

0	10	100	10		
30	.1	ISS	16 )	N	

Field Operations Program Administrator Daryl Hiromoto gave the report. There were no comments or discussion.

#### MOTION TO ADJOURN

There being no further business Chair Miyashiro at 2:32 PM called for a motion to adjourn the Open Session. Theresia McMurdo so moved; seconded by Mahealani Cypher and unanimously carried.

THE MINUTES OF THE REGULAR SESSION BOARD MEETING ON NOVEMBER 24, 2014 WERE APPROVED, AS AMENDED, AT THE DECEMBER 15, 2014 BOARD MEETING

2014 BOARD MEETING			
	AYE	NO	COMMENT
DUANE R. MIYASHIRO	Х		
ADAM C. WONG			ABSENT
MAHEALANI CYPHER	X		
THERESIA C. MCMURDO			ABSENT
DAVID C. HULIHEE	X		
ROSS S. SASAMURA	Х		
FORD N. FUCHIGAMI	x		

Respectfully submitted,

Lin & Kim

LISA K. KIM

APPROVED:

DUANE R. MIYASHIRO Chair of the Board

DEC 1 5 2014

Date