

HAWAII DRINKING WATER STATE REVOLVING FUND (DWSRF) ACTIVE PROJECTS IN STATE FISCAL YEAR (SFY) 2020 (JULY 1, 2019 – JUNE 30, 2020)

HANA WATER SYSTEMS

P-DW243-0001 KAELEKU TANK REPLACEMENT

LOAN AMOUNT: \$ 1,000,000.00
PRINCIPAL FORGIVENESS: \$ 1,000,000.00 (100.0%)
AMOUNT DISBURSED IN SFY 2020: \$ 988,424.30
PUBLIC WATER SYSTEM (PWS) 243 SERVICE
POPULATION: 160

Project Description: Decommission old 50,000-gallon water tank and construct two replacement 50,000-gallon water tanks to protect public health and update aging infrastructure.



▲ New 50,000-gallon tanks

HAWAII DEPARTMENT OF WATER SUPPLY

DW101-0003 PIIHONUA-KUKUAU RESERVOIR AND TRANSMISSION IMPROVEMENTS



▲ New 2.0 MG tank

LOAN AMOUNT: \$ 9,429,173.00
PRINCIPAL FORGIVENESS: \$ 1,757,400.00 (18.64%)
AMOUNT DISBURSED IN SFY 2020: \$ 389,642.22
PWS 101 SERVICE POPULATION: 39,477

Project Description: Replace the undersized and deteriorating 0.08 MG in ground reservoir with a new 2.0 MG concrete water tank and install a 16" transmission waterline to supplement existing waterlines that are inadequate to supply portions of the Hilo water system during peak usage.

DW130-0003 WAIMEA WATER TREATMENT PLANT MICROFILTRATION

LOAN AMOUNT: \$12,896,000.00

AMOUNT DISBURSED IN SFY 2018: \$1,139,122.83

PWS 130 SERVICE POPULATION: 9,480

Project Description: Construct a microfiltration plant to increase reliability and better turbidity removal performance to meet the Long Term 2 Surface Water Treatment Rule. The new treatment plant will also reduce the need to pump wells to supplement the water system's demands.



▲ New treatment building

◀ Microfiltration basin (1 of 4)

DW133-0004 KAPULENA WELL DEVELOPMENT PH 2 (PRODUCTION WELL AND 0.3 MG RESERVOIR)

LOAN AMOUNT: \$ 4,388,782.00

AMOUNT DISBURSED IN SFY 2020: \$ 135,041.09

PWS 133 SERVICE POPULATION: 456

Project Description: Outfit the exploratory well into a production well to replace Waiulili Springs (a GWUDI source) and the existing Kukuihaele Well (low sustainable yield ~50 gpm and high total chloride levels) with a new groundwater source and related electrical controls. Project includes a new 0.3 MG reservoir and new waterlines to connect the Kapulena Well with the existing Kukuihaele reservoir (0.1 MG) and provide fire protection.



▲ New 0.3 MG tank

◀ Newly-outfitted well

MAUI DEPARTMENT OF WATER SUPPLY

DW212-0015 IAO SURFACE WATER TREATMENT PLANTS UPGRADES



LOAN AMOUNT: \$ 21,479,524.55

AMOUNT DISBURSED IN SFY 2020: \$ 541,988.11

PWS 212 SERVICE POPULATION: 74,511

Project Description: Replace the temporary 1.2 MGD Iao Surface Water Treatment Plant that lacked shelter and was exposed to the elements. Install new microfiltration units and related filter backwash facilities (for a 1.2 MGD capacity) and high efficiency pumps.

▲ *New treatment building (green, foreground) and chlorine contact tank (background)*

◀ *Membrane filtration units*

DW212-0018 WAILUKU HEIGHTS TANK 30 BOOSTER REPLACEMENT

LOAN AMOUNT: \$ 1,804,849.00

AMOUNT DISBURSED IN SFY 2020:
\$ 57,408.48

PWS 212 SERVICE POPULATION:
74,511

Project Description: Replace booster pumps and motors, and related piping. Replace the Motor Control Center (MCC) and related electrical controls.



▲ *One of the new booster pumps*



▲ *MCC in new control building*

DW247-0008 OMAOPIO 2.1 MG TANK REPLACEMENT

LOAN AMOUNT: \$ 4,183,000.00

PRINCIPAL FORGIVENESS: \$ 45,000.00 (1.08%)

AMOUNT DISBURSED IN SFY 2020: \$ 33,445.50

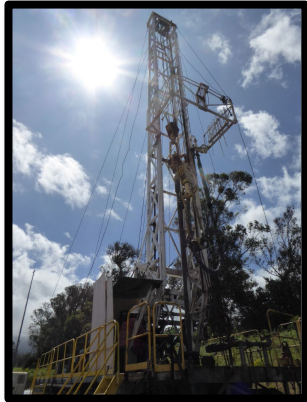
PWS 247 SERVICE POPULATION: 3,522

Project Description: Construct a new 2.1 MG concrete water tank to replace the existing Omaopio Tank, which is at the end of its useful life.

New Omaopio Tank ➤



MDWS-0002 MAUI DWS WATER SYSTEM IMPROVEMENTS 1



LOAN AMOUNT: \$ 4,500,000.00
PRINCIPAL FORGIVENESS: \$ 1,000,000.00 (22.22%)
AMOUNT DISBURSED IN SFY 2020: \$ 1,906,556.94
PWS SERVICE POPULATION: 11,851

Project Description: Combined water system improvements for the Pookela Well B exploratory well (\$2.5M) and the Omaopio Tank - Booster Pump Replacement (\$2M)

➤ *Drilling of Pookela Well B*

HONOLULU BOARD OF WATER SUPPLY

DW331-0043 DIAMOND HEAD WATER SYSTEM IMPROVEMENTS, PART II

LOAN AMOUNT: \$ 4,970,145.00
PRINCIPAL FORGIVENESS: \$ 490,000.00 (9.86%)
AMOUNT DISBURSED IN SFY 2020: \$ 3,835,746.55
PWS 331 SERVICE POPULATION: 631,389

Project Description: Install mains and appurtenances along 22nd Avenue from Kilauea Avenue to Diamond Head Road, along Diamond Head Road from 22nd Avenue to Kahala Avenue, and along Kulamanu Street from Kahala Avenue to Kulamanu Place - approx. 5,235 lin. ft. Install 8-inch mains and appurtenances along Kulamanu Place from Kulamanu Street to end, along Malapua Place from 22nd Avenue to end, along Ulupua Place from 22nd Avenue to end, along Huanui Street from 22nd Avenue to Huanui Place, along Kaalawai Place from Diamond Head Road to easement, and along Kuine Place from Kulamanu Street to end - approx. 2,270 lin. ft.



➤ *22nd St + Puu Panini St intersection*

DW331-0068 ENERGY SAVINGS PERFORMANCE CONTRACTING – BWS FACILITIES



➤ *PV panels installed in the parking lot of the Beretania Station*

LOAN AMOUNT: \$ 32,881,833.00
PRINCIPAL FORGIVENESS: \$ 1,662,400.00 (5.06%)
AMOUNT DISBURSED IN SFY 2020: \$ 4,147,277.29
ISLANDWIDE SERVICE POPULATION: 986,999

Project Description: Implement an Energy Savings Performance Contract (ESPC) project on Honolulu Board of Water Supply (BWS) facilities, island wide, with a goal of reducing energy demand by 20%. Energy saving measures include installation of LED lighting, photovoltaic (PV) panels, hybrid vehicles and charging stations, etc.

HBWS-0003 HONOLULU BWS WATER SYSTEM IMPROVEMENTS 2

LOAN AMOUNT: \$ 11,652,948.03

AMOUNT DISBURSED IN SFY 2020: \$ 173,473.68

PWS 331 SERVICE POPULATION: 631,389

Project Description: This project combines three (3) BWS waterline improvement projects to reduce the chance of water main breaks (approx. 5,600 lin. ft. with the Liliha Water System Improvements, Part V; approx. 6,520 lin. ft. for the Pensacola Street Water System Improvements; and approx. 8,400 lin. ft. for the Kapahulu Water System Improvements, Part I).



↗ *Kauai Street*
↖ *Olu Street*

HBWS-PF20 HONOLULU BWS PRO-FI SFY 2020



↗ *Repainting at the Kalihi Pump Station*

LOAN AMOUNT: \$ 15,000,000.00

AMOUNT DISBURSED IN SFY 2020: \$ 15,000,000.00

ISLANDWIDE SERVICE POPULATION: 986,999

Project Description: Water system improvements on the Island of Oahu. Sub-projects include construction for the replacement/renovations of the Kalihi Pump Station and the Diamond Head Line Booster; construction management for the Kapiolani Boulevard 12-Inch Main; and professional engineering services for the Kalihi Pump Station Renovation; Pump Renewal and Replacement for Keanu Line Booster, Maunawili Booster, Mariner's Ridge Booster I, and Aina Koa Booster I; and the Pump Renewal and Replacement of Kaluanui Line Booster, Diamond Head Line Booster, Kaonohi Booster I, Waihee Line Booster, and Punaluu Wells II.

OVERALL TOTALS

Number of active loans: 12

Disbursed amount: \$ 28,348,126.99