

CAPITAL IMPROVEMENT PROJECTS

PRESENTED BY:
DEPARTMENT OF WATER SUPPLY

MAUI COUNTY COUNCIL
WATER AND INFRASTRUCTURE COMMITTEE
February 25, 2019

RECEIVED AT WAI MEETING ON 2/25/19
Wendy Tao moto, Water Supply 1

CIP PRIORITY PROJECTS

- ◆ West Maui Well #2 – New Source
- ◆ Waiehu Heights Well #1 Replacement - Compliance
- ◆ Pookela Well B – Reliability
- ◆ Lower Kula Transmission Line Tree Clearing - Reliability
- ◆ Kamole WTP 2MG Clearwell Structural Repairs – Reliability

West Maui Well #2 (Source)

Project Description: Develop new groundwater source for the West Maui Water System to provide additional potable water source and increase system reliability.

Exploratory Well Drilling - Completed: August 2017

Well Development

- Design: 61% complete
- Construction Cost : \$14,000,000 (estimated)
- Bid Advertisement: August 2019 (estimated)
- Well On-line: April 2021 (estimated)

Waiehu Heights Well #1 Replacement (Compliance)

Project Description: Develop new groundwater source for the Central Maui Water System to replace existing groundwater source taken out of service due to high chlorides. The existing Waiehu Heights Well #1 that was taken out of service is situated on the same site as the existing Waiehu Heights Well #2. The new replacement well may be situated on the same site pending final site evaluation.

Exploratory Well Drilling

- Design: 17% complete
- Construction Cost : \$800,000 (estimated)
- Bid Advertisement: July 2019 (estimated)
- Well Drilling Completion: May 2020 (estimated)

Well Development

- Construction Cost: \$2,500,000 (estimated)
- Well On-line: January 2022 (estimated)

Pookela Well B (Reliability)

Project Description: Develop new groundwater source for the Upcountry Water System to provide increase system reliability. Pookela Well B is situated on the same site as the existing Pookela Well A and will be a backup well.

Exploratory Well Drilling - Completed: January 2019

Well Development

- Design: 9% complete
- Construction Cost : \$4,500,000 (estimated)
- Bid advertisement: June 2019 (estimated)
- Well On-line: January 2021 (estimated)

Lower Kula Transmission Line Tree Clearing (Reliability)

Project Description: Remove existing trees along the waterline that transmits surface water to the Piiholo Water Treatment Plant. The existing trees have been known to fall on the raw waterline due to the saturated soils, heavy winds, and the premature death of tall eucalyptus trees growing along the waterline. The existing 12" to 24" waterline transmits raw surface water to the Piiholo Water Treatment Plant.

- Phase 1 – Construction Completed
- Phase 2 – 0% Complete
- Phase 3 – Construction Cost : \$1,000,000 (estimated)
Bid advertisement: August 2019 (estimated)
Completion date: August 2020 (estimated)

Kamole WTP 2 MG Clearwell Structural Repairs (Reliability)

Project Description: Perform structural repairs of the existing 2 million gallon clearwell that holds finish potable water at the Kamole Water Treatment Plant. The clearwell is critical to providing potable water for the Upcountry Water System.

- Structural Assessment: 0% complete
- Consultant: John Ritchie Structural Engineering
- Construction Cost: \$100,000 (estimated)
- Bid advertisement: September 2019 (estimated)