WEST OLINDA TANK REPLACEMENT
DRAFT ENVIRONMENTAL ASSESSMENT

DWS JOB NO. 09-02A
OLINDA, MAUI, HAWAII
TMK: (2) 2-4-013:132

April 28, 2009

Prepared for:

County of Maui
Department of Water Supply

Wailuku, Maui, Hawaii

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TABLE OF CONTENTS

TABLE OF CONTENTS
Cont'd

TABLE OF CONTENTS
Cont'd

TABLE OF CONTENTS
Cont'd

TABLE OF CONTENTS
Cont'd

TABLE OF CONTENTS
Cont'd

EXHIBITS

APPENDICES

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WEST OLINDA TANK REPLACEMENT
DRAFT ENVIRONMENTAL ASSESSMENT
Olinda, Maui, Hawaii

EXECUTIVE SUMMARY

Applicant:	County of Maui Department of Water Supply
Type of Document:	Draft Environmental Assessment
Legal Authority:	Chapter 343, Hawaii Revised Statutes
Agency Determination:	Finding of No Significant Impact (FONSI)
Applicable Environmental Assessment review "trigger":	Use of County land and funds
Location	TMK: 2-4-13:132
Accepting Authority:	Department of Water Supply County of Maui 200 South High Street Wailuku, Maui, Hawaii 96793 Contact: Mr. Herbert Chang Phone: (808) 270-7835
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Project Summary	The County of Maui, Department of Water Supply (DWS) proposes constructing a new 300,000-gallon concrete tank within the fenced site of the existing 50,000-gallon steel West Olinda tank, which will be removed as part of the project. The capacity of the new tank will allow for lengthening of the period between activation of the existing booster pumps at this West Olinda Tank site, as well as the booster pumps at the Maluhia Tank site that pump water up to this West Olinda Tank. This would significantly improve the life efficiency of both booster pump systems. In addition, the new tank will provide storage capacity for another 30 to 50 years. The new tank will be of reinforced concrete, with a diameter of approximately 61 feet and a height of about 16 feet. Related site improvements, such as grading and asphalt paving around the tank are also proposed.

1. INTRODUCTION

1.1 PROJECT OVERVIEW

The project site is located in the Makawao region on the island of Maui on Olinda Road. (See Exhibit 1, Project Location, and Exhibit 2, Vicinity Map.) The Maui County Department of Water Supply (DWS) is proposing removal of the existing 50,000-gallon West Olinda water tank and construction of a new 300,000-gallon tank on the same property. The existing tank site, encompassing approximately half an acre, is on land identified as Tax Map Key 2-4-13:132. (See Exhibit 3, Tax Map.) The proposed replacement tank will be situated on this tax parcel.

The existing 50,000-gallon welded steel tank, which is approximately 50 years old, is part of DWS's Makawao water system, and services the West Olinda area. The project site is at an approximate elevation of 2460 feet mean sea level (msl). The site includes the 50,000-gallon tank, a duplex booster pump system, electrical equipment, a single cylinder chlorinator unit and associated piping, valves and appurtenances. The proposed 300,000-gallon concrete tank would be constructed within the existing fenced site. (See Exhibit 4, Site Plan.)

Electrical control similar to what is being used for the existing 50,000-gallon tank will be incorporated into the design of the new 300,000-gallon tank with minimal modifications to maintain the operational intent of the current system. No electrical or telemetry modifications will be required, other than connection of the control lines from the new transmitter for the new tank to the existing Motor Control Center.

The estimated cost of the proposed project is $2 million.

1.2 PURPOSE OF THE ENVIRONMENTAL ASSESSMENT

This Environmental Assessment (EA) has been prepared pursuant to Hawaii Revised Statutes (HRS), Section 343-5, which states that an EA shall be required for actions which "Propose the use of state or county lands or the use of state or county funds, other than funds to be used for feasibility or planning

studies for possible future programs or projects that the agency has not approved, adopted, or funded, or funds to be used for the acquisition of unimproved real property; provided that the agency shall consider environmental factors and available alternatives in its feasibility or planning studies." Since the project will be constructed on land owned by the county, and the construction will be paid for by county and/or state funds, an EA for this project is required.

1.3 PURPOSE AND NEED FOR THE PROJECT

The purpose of this project is to improve the current operation of DWS's Makawao water system in the West Olinda area. With the existing 50,000-gallon tank being approximately 50-years old, the tank is at the end of its useful life. Also, its limited capacity results in frequent cycling of the existing booster pumps at both the Maluhia Tank site and the West Olinda Tank site. Therefore, the capacity of the new 300,000-gallon tank will allow for lengthening of the period between activation of the existing booster pumps, which would significantly improve the life efficiency of both booster pump systems. In addition, the new tank will provide storage capacity for another 30 to 50 years.

2. DESCRIPTION OF THE EXISTING ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATION MEASURES

2.1 LAND USE

2.1.1 Existing Conditions

The project site is located on agricultural land in the Olinda area of Maui on land owned by the County. The subject property is surrounded by rural residential lots. (See Exhibits 5 through 8.) The Makawao Forest Reserve is approximately 6000 feet to the east of the property, and Makawao town is approximately two miles northwest of the property.

2.1.2 Potential Impacts and Mitigation Measures

The proposed action involves the installation of a water storage tank at the site of an existing County water storage tank site. Due to the project site being in a relatively remote agricultural area, the addition of a new water storage tank at an existing tank site is not anticipated to have an adverse effect on nearby land uses.

2.2 CLIMATE, TOPOGRAPHY AND SOILS

2.2.1 Existing Conditions

Like most areas of Hawaii, Maui's climate is relatively uniform year-round. The coolest months on Maui are December and January. August and September are the hottest and most humid summer months. The region's tropical latitude, its position relative to storm tracts and the surrounding ocean combine to produce a stable climate. Variation in climate among different regions on Maui is largely due to local terrain.

Average temperatures at Kahului Airport range from 60 degrees Fahrenheit in February to 80 degrees Fahrenheit in August. Rainfall

averages approximately 20 inches per year. Winds predominantly blow north to northeast.

Elevation at the project site is approximately 2460 feet above mean sea level. The property generally slopes upward at eleven (11) percent in a northwest to southeast direction.

According to information published by the U.S. Soils Conservation Service, underlying the project area are soils belonging to the Laumaia-Kaipoioi-Olinda Association. Characteristics of this association are deep, gently sloping to very steep, well-drained soils that have a moderately fine textured or medium-textured subsoil; on intermediate and high uplands. The soils developed in material weathered from volcanic ash. The natural vegetation is black wattle, eucalyptus, gosmore, kikuyugrass, pukiawe, sweet vernalgrass, white clover, and Yorkshire foggrass.

The soil type specific to the project area is Olinda loam, 12 to 20 percent slopes (OND). This soil is on smooth, intermediate to high mountain slopes. In a representative profile, the surface layer is dark reddish-brown loam about 6 inches thick. The subsoil, about 5 inches thick, is dark reddish-brown and yellowish-red silty clay loam that has subangular blocky structure. Below this is a yellowish-reddish brown silty clay loam and gravelly silty, clay loam. This is underlain by slightly weathered basic igneous rock. The soil is slightly acid in the surface layer and subsoil. Permeability is moderately slow. Runoff is slow to medium, and the erosion hazard is slight to moderate.

This soil is used for pasture, woodland, and water supply. Small acreages are used for truck crops and orchards. The natural vegetation consists of bermudagrass, brackenferm, eucalyptus, Natal redtop, puakeawe, sweet vernalgrass, and Yorkshire foggrass.

2.2.2 Potential Impacts and Mitigation Measures

The proposed project will not have an adverse effect on microclimates. Grading work will involve cut quantities of approximately 1100 cubic yards of soil and no fill. The topographic character of the site will not be substantially altered as a result, nor is there expected to by any change in the soil composition.

2.3 FLOOD AND TSUNAMI HAZARDS

2.3.1 Existing Conditions

The National Flood Insurance Program prints Flood Insurance Rate Maps (FIRMs) showing areas of flooding. The property is located within Panel 150003 0300 B, which is not a printed panel. However, a note on the Index Panel states that the entire Panel is designated as an area of "Minimal Tsunami Inundation".

2.3.2 Potential Impacts and Mitigation Measures

The proposed action involves the installation of a water storage tank within an area of minimal tsunami inundation. Appropriate drainage mitigation measures will be implemented as further discussed in Section K.1 in this chapter. No adverse impact to flood conditions is anticipated as a result of this project.

2.4 FLORA AND FAUNA

2.4.1 Existing Conditions

Due to the rural residential nature of the surrounding areas, animal life in the vicinity includes rodents and domestic and farm animals. There are no known species of rare or endangered wildlife or avian species in the project vicinity. The project area is currently vegetated with introduced grassed species. There are no known rare or endangered flora species in the project vicinity.

2.4.2 Potential Impacts and Mitigation Measures

There are no known rare, endangered, or threatened species of flora, fauna, or avifauna within the vicinity of the project. Consequently, the proposed project is not anticipated to impact flora and fauna in the vicinity.

2.5 STREAMS AND WETLANDS

2.5.1 Existing Conditions

According to the United States Department of the Interior, Fish and Wildlife Service, National Wetland Inventory Map, there is one wetland feature in the vicinity of the project site, which is a reservoir classified as a Lacustrine system. (Refer to Exhibit 2.) Lacustrine systems include wetlands and deepwater habitats with all of the following characteristics:

- Situated in a topographic depression or a dammed river channel.
- Lacking trees, shrubs, persistent emergents, emergent mosses or lichens with greater than 30% areal coverage;
- Total area exceeds 20 acres.

The project site is located approximately 7,000 feet west of the reservoir.

There is an unnamed gulch approximately 800 feet west of the tank site. During an April 21, 2009 site inspection, the gulch was dry.

2.5.2 Potential Impacts and Mitigation Measures

In light of the limited scope of the project and its distance away from the noted wetland feature, the proposed project is not anticipated to have any significant impacts on streams or reservoirs in the region. There will be no discharge of dredged material into the nearby gulch.

Best Management Practices will be employed to ensure that construction actions do not affect any water within the gulch. Moreover, there will be no stockpiling or staging areas for construction in or near the gulch.

2.6 AIR AND NOISE CHARACTERISTICS

2.6.1 Existing Conditions

There are no point sources of airborne emissions in the immediate vicinity of the project site. The air is of high quality with existing airborne pollutant attributable to automobile exhaust or agricultural activity. The relatively high quality of the air can also be attributed to the region's constant exposure to winds and rain which quickly disperse concentrations of emissions.

Existing noise at the project site is primarily attributed to the booster pump motor and traffic noise generated by vehicles traveling along Olinda Road.

2.6.2 Potential Impacts and Mitigation Measures

The proposed action is not expected to have a direct impact on air or noise quality. There may be a temporary impact on air and noise quality attributable to construction activities associated with site grading and tank installation. These would, however, be limited, given the small size and scope of improvements. Best management practices (BMP's) will be implemented to mitigate impacts associated with construction activities.

2.7 HISTORIC AND ARCHAEOLOGICAL RESOURCES

2.7.1 Existing Conditions

The subject property is located on a parcel that has been disturbed during construction of the existing tank and appurtenances. There are no known materials of archaeological significance on the property.

2.7.2 Potential Impacts and Mitigation Measures

No impact to archaeological resources is anticipated as a result of the proposed project. In a letter dated March 15, 2009 the State of Hawaii, Department of Land and Natural Resources, State Historic Preservation Division (SHPD), stated that, "Given the amount of previous disturbance within the subject parcel, we believe that no historic properties will be affected by the proposed actions and should be allowed to proceed." (See Appendix A.) However, in the event anything of cultural and/or historic significance is found during construction, all work in the area will cease and the appropriate authorities will be contacted for determination of appropriate mitigation.

2.8 CULTURAL RESOURCES

2.8.1 Existing Conditions

Current tax maps show no record of Land Commission Awards (LCAs) on the project site, which is one indicator of native Hawaiian activities or presence in the mid to later half of the nineteenth century. There are also no trails, streams, caves, native plants, or other cultural resources on the site.

2.8.2 Potential Impacts and Mitigation Measures

No impact to cultural resources is anticipated as a result of the proposed project. The site has been under control of the Department

of Water Supply from 1970 to present, and is secured by perimeter fencing. The new tank will not alter the use of the site and will continue to be under the control of the Department of Water Supply.

2.9 SCENIC AND OPEN SPACE RESOURCES

2.9.1 Existing Conditions

The existing tank site is located on the lower slopes of Haleakala surrounded by rural residential lots. From the project site, residences separated by intermittent groves of trees and grassland are visible. Surrounding land consists of rolling hills which define the scenic character of the area.

2.9.2 Potential Impacts and Mitigation Measures

The new tank is not anticipated to affect the scenic character of the region. The height of the 300,000-gallon tank will closely match the height of the existing tank.

2.10 PUBLIC SERVICES

2.10.1 Existing Conditions

The County of Maui's Police Department headquarters is located in Wailuku. There are four patrol districts on the island of Maui – the Wailuku, Lahaina, Hana and Kihei districts. The project site is within the Wailuku district.

Fire prevention, suppression and protections services for the island of Maui are provided by the County Department of Fire and Public Safety. The Department provides fire and emergency services to the islands of Maui, Lanai and Molokai from 14 fire stations and a fire prevention office. The project area is serviced by the Makawao Fire Station, located near Pukalani.

Maui Memorial Medical Center is currently the only major medical facility on the island. Acute, general, and emergency care services are provided by the facility. In addition, there are private medical and dental clinics to service residents of Paia, Makawao and Pukalani.

Single-family solid waste collection service is provided once weekly by the County of Maui. Residential solid waste is disposed of at the County's Central Maui landfill, located in the Puunene region, adjacent to Ameron Hawaii's rock quarry site. Commercial waste collected by private collection companies is also disposed at the County landfill.

The main recreational facility found in the project vicinity is the Eddie Tam Memorial Center in Makawao, which consists of a community center, gymnasium, baseball fields, soccer field, tennis and basketball courts, picnic pavilions and a playground..

State of Hawaii, Department of Education schools located in the surrounding communities include Makawao Elementary School (grades K to 5), Samuel E. Kalama Intermediate School (grades 6 to 8), Pukalani Elementary School (grades K to 5) and King Kekaulike High School (grades 9 to 12).

Private schools in the area include Montessori School (grades pre-K to 8), St. Joseph School (grades pre-K to 5), Clearview Christian Girls School (grades 6 to 8), Carden Academy of Maui (grades K to 8), Haleakala Waldorf School (grades pre-K to 8) and Kamehameha Schools (grades pre-K to 12).

Maui Community College in Kahului, which is a branch of the University of Hawaii system, offers higher education programs.

2.10.2 Potential Impacts and Mitigation Measures

The proposed action will not impact public services since there would be no demand for police, fire, recreational or educational services.

2.11 SOCIO-ECONOMIC ENVIRONMENT

2.11.1 Existing Conditions

Maui County has experienced considerable growth in recent years. Between 2000 and 2005, the U.S. Census estimates that Maui's resident population increased from 177,644 to 129,471 – a growth of 10%. The population is expected to increase approximately 42% over the 25 year period from 2005 to 2030. (Draft Maui Island Plan, March 2008.)

Population in the Makawao-Pukalani-Kula area has also increased. The U.S. Census estimates that the population increased from 21,571 in 2000 to 23,176 in 2005 – a gain of 7.4%. The population of this area is estimated to be 30,880 in 2030, which is a growth of 33.2%. (Draft Maui Island Plan, March 2008.)

The area around the project site is a community of mixed residential and agricultural uses. The residential and commercial communities of Makawao and Pukalani lie to the north and west of the project site, respectively. The Makawao Forest Reserve lies to the east of the project, and the Kula area is located south of the project site.

2.11.2 Potential Impacts and Mitigation Measures

The project will not have a significant impact on population or economy due to the project's limited size, scope and use.

2.12 INFRASTRUCTURE

2.12.1 Existing Conditions

The project is accessed from Olinda Road, a two-lane, two-way County road. The speed limit on Olinda Road, in the vicinity of the project site, is 20 miles per hour.

There are no County wastewater collection and transmission facilities in the project area. Residences in the area utilize individual wastewater systems for treatment and disposal of their wastewater. There are no wastewater generating facilities on the project site.

The existing 50,000-galllon water tank at the project site serves the Olinda area of Maui via a 6-inch transmission line in Olinda Road. The new 300,000-gallon tank will replace the existing tank and will service the same area.

The existing drainage pattern at the project site is sheet flow from east to west across the site towards Olinda road. A peripheral road around the new tank will be of asphalt concrete pavement. The cut slope and drainage swale will be grassed to minimize erosion and runoff. The proposed grading around the new tank will be designed to direct runoff to on-site drain inlets via drainage swales. Overflow, underdrain and washout water from the new tank will also discharge into the on-site drain inlets. A new 24-inch drainline will convey the drainage water approximately 500 feet north along Olinda Road to a connection with an existing 24-inch drain line that discharges into a nearby gulch.

Electrical service to the tank site is provided by Maui Electric Company. There is no telephone service at the site.

2.12.2 Potential Impacts and Mitigation Measures

The proposed tank will not impact traffic flow on local roadways in the vicinity of the project site. Currently, DWS personnel conduct monitoring and maintenance operations at the site twice daily. The new tank will not result in any increase in this requirement, and thus, there should be no increase in traffic volume related to this project.

The proposed water tank will enhance the existing water system by preventing undesirable cycling of the pumps at both the project site and at the Lower Maluhia Tank site. In addition, the new tank will provide storage capacity for another 30 to 50 years.

The proposed action will not have a negative impact on any wastewater systems since there is no wastewater generated at the project site. There should also not be any impact on the drainage downstream or to adjacent properties.

2.13 CUMULATIVE AND SECONDARY IMPACTS

A cumulative impact is defined as an impact to the environment which results from the incremental impact of an action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions. Actions such as those that involve the construction of public facilities or infrastructure stimulate secondary impacts, such as population growth and increased demands for public services and infrastructure.

This proposed tank replacement project is intended to meet existing water system needs. The proposed project is not part of a larger water system development proposal.

3. CHAPTER 3 – RELATIONSHIP TO LAND USE PLANS, POLICIES AND CONTROLS

3.1 STATE LAND USE DISTRICTS

Chapter 205, Hawaii Revised Statutes, relating to the Land Use Commission, establishes four (4) major use districts in which all lands in the State are placed. These districts are designated as "Urban", "Rural", "Agricultural", and "Conservation". The subject property is located within the "Agricultural" district. The proposed water storage tank is a permitted use in the "Agricultural" district.

3.2 MAUI COUNTY GENERAL PLAN

The Maui County General Plan (1990 Update) sets forth broad objectives and policies to help guide the long-range development of the County. As stated in the Maui County Charter, the General Plan:

> "... shall indicate desired population and physical development patterns for each island and region within the county; shall address the unique problems and needs of each island and region; shall explain the opportunities and the social, economic, and environmental consequences related to the potential developments; and shall set forth the desired sequence, patterns and characteristics of future developments. The general plan shall identify objectives to be achieved, and priorities, policies, and implementing actions to be pursued with respect to population density, land use maps, land use regulations, transportation systems, public and community facility locations, water and sewage systems, visitor destinations, urban design, and other matters related to development."

The proposed action is in keeping with the following General Plan Water objectives and policies:

> Objective:
>
> To provide an adequate supply of potable and irrigation water to meet the needs of Maui County's residents.

Policies:

(A) Support the improvement of water transmission systems to those areas which historically experience critical water supply problems provided the improvements are consistence with the water priorities and the County's Water Use Development Plan provisions for the applicable community plan area.

(B) Support the Board of Water Supply in its determination of future water needs consistent with the General Plan, Community Plans and the growth management strategy.

Objective:

To make more efficient use of our ground, surface, and recycled water sources.

Policy:

(A) Maximize use of existing water sources by expanding storage capabilities.

The proposed action is in keeping with the following General Plan Public Utilities and Facilities objectives and policies:

Objective:

To improve the quality and availability of public facilities throughout Maui County.

Policy:

(A) Seek improvement in the maintenance and operation of public facilities.

The proposed action is in keeping with the following General Plan Government objectives and policies:

Objective:

Improve the delivery of services by government agencies to all community plan areas.

Policy:

(A) Insure that necessary services not provided by the private sector are made available by government.

3.3 MAKAWAO-PUKALANI-KULA COMMUNITY PLAN

Within Maui County there are nine Community Plan regions. From a General Plan implementation standpoint, each region is governed by a Community Plan which sets forth desired land use patterns, as well as goals, objectives, policies, and implementing actions for a number of functional areas including infrastructure-related parameters. The subject property is located within the Makawao-Pukalani-Kula Community Plan region.

The subject parcel is located on lands currently designated as “Agricultural” in the Community Plan. The proposed action is a permitted in the “Agricultural” land use category. The proposed land use action is in keeping with the existing water storage facilities on the subject property.

Applicable goals, objects and policies of the Makawao-Pukalani-Kula Community Plan are cited below.

Goal:

The timely and environmentally sensitive development and maintenance of infrastructure systems which protect and enhance the safety and health of Upcountry’s residents and visitors, including the provision of domestic water, utility and waste disposal services and effective transportation systems which meet the needs of residents and visitors while maintaining the region’s rural character.

Objectives and Policies:

(A) The Department of Water Supply shall expand water supply and distribution systems, including catchment systems, in accordance with the directions set forth in the Makawao-Pukalani-Kula Community Plan.

(B) Encourage the construction of additional storage capacity by the Department of Water Supply, commercial developers, and individual farmers to help alleviate the inadequate water supply.

3.4 COUNTY ZONING

The subject parcel is zoned “Agricultural” by the County. The proposed tank is a permitted use within this zoning district.

3.5 COASTAL ZONE MANAGEMENT AREA OBJECTIVES AND POLICIES

Pursuant to Chapter 205A, Hawaii Revised Statutes, projects are evaluated with respect to Coastal Zone Management (CZM) objectives, policies, and guidelines. It should be noted that although the subject property is not located within the County of Maui's Special Management Area (SMA), the project's relationship to applicable coastal zone management considerations has been reviewed and assessed.

3.5.1 Recreational Resources

Objective:

Provide coastal recreational opportunities accessible to the public.

Policies:

(A) Improve coordination and funding of coastal recreational planning and management; and

(B) Provide adequate, accessible, and diverse recreational opportunities in the coastal zone management area by:

(i) Protecting coastal resources uniquely suited for recreational activities that cannot be provided in other areas;

(ii) Requiring replacement of coastal resources having significant recreational value including, but not limited to, surfing sites, fishponds, and sand beaches, when such resources will be unavoidably damaged by development; or requiring reasonable monetary compensation to the state for recreation when replacement is not feasible or desirable;

(iii) Providing and managing adequate public access, consistent with conservation of natural resources, to and along shorelines with recreational value;

(iv) Providing an adequate supply of shoreline parks and other recreational facilities suitable for public recreation.

(v) Ensuring public recreational uses of county, state, and federally owned or controlled shoreline lands and waters having recreational value consistent with public safety standards and conservation of natural resources;

(vi) Adopting water quality standards and regulating point and non-point sources of pollution to protect, and where feasible, restore the recreational value of coastal waters;

(vii) Developing new shoreline recreational opportunities, where appropriate, such as artificial lagoons, artificial beaches, and artificial reefs for surfing and fishing; and

(viii) Encouraging reasonable dedication of shoreline areas with recreational value for public use as part of discretionary approvals or permits by the Land Use Commission, Board of Land and Natural Resources, and county authorities; and crediting such dedication against the requirements of Section 46-6, HRS.

Response:

The subject property is located inland, away from the coastline. The proposed action is not, therefore, anticipated to adversely impact existing coastal recreational resources.

3.5.2 Historic Resources Objective:

Objective:

Protect, preserve and, where desirable, restore those natural and manmade historic and prehistoric resources in the coastal zone management area that are significant in Hawaiian and American history and culture.

Policies:

(A) Identify and analyze significant archeological resources;

(B) Maximize information retention through preservation of remains and artifacts or salvage operations; and

(C) Support state goals for protection, restoration, interpretation, and display of historic resources.

Response:

There are no known historic deposits or any items of cultural significance which would be affected by the proposed project. In accordance with Section 6E-43.6, Hawaii Revised Statutes and Chapter 13-300, Hawaii Administrative Rules, if any significant cultural deposits or human skeletal remains are encountered, work will stop in the immediate vicinity and the State Historic Preservation Division (SHPD/DLNR) will be contacted.

3.5.3 Scenic and Open Space Resources

Objective:

Protect, preserve and, where desirable, restore or improve the quality of coastal scenic and open space resources.

Policies:

(A) Identify valued scenic resources in the coastal zone management area;

(B) Ensure that new developments are compatible with their visual environment by designing and locating such developments to minimize the alteration of natural landforms and existing public views to and along the shoreline;

(C) Preserve, maintain, and, where desirable, improve and restore shoreline open space and scenic resources; and

(D) Encourage those developments that are not coastal dependent to locate in inland areas.

Response:

The project site is not located within a significant coastal view corridor. The proposed action is not anticipated to have an adverse impact on shoreline views or open space resources.

3.5.4 Coastal Ecosystems

Objective:

Protect valuable coastal ecosystems, including reefs, from disruption and minimize adverse impacts on all coastal ecosystems.

Policies:

(A) Exercise an overall conservation ethic, and practice stewardship in the protection, use, and development of marine and coastal resources;

(B) Improve the technical basis for natural resource management;

(C) Preserve valuable coastal ecosystems, including reefs, of significant biological or economic importance;

(D) Minimize disruption or degradation of coastal water ecosystems by effective regulation of stream diversions, channelization, and similar land and water uses, recognizing competing water needs; and

(E) Promote water quantity and quality planning and management practices that reflect the tolerance of fresh water and marine ecosystems and maintain and enhance water quality through the development and implementation of point and nonpoint source water pollution control measures.

Response:

Appropriate soil erosion and drainage control measures will be implemented during construction, in order to minimize disruption to downstream coastal water ecosystems. In light of the location of the project, and limited scope and scale of the proposed action, adverse impact on coastal ecosystems is not anticipated.

3.5.5 Economic Uses

Objective:

Provide public or private facilities and improvements important to the State's economy in suitable locations.

Policies:

(A) Concentrate coastal dependent development in appropriate areas;

(B) Ensure that coastal dependent development such as harbors and ports, and coastal related development such as visitor facilities and energy generating facilities, are located, designed, and constructed to minimize adverse social, visual, and environmental impacts in the coastal zone management area; and

(C) Direct the location and expansion of coastal dependent developments to areas presently designated and used for such developments and permit reasonable long-term growth in such areas, and permit coastal dependent development outside of presently designated areas when:

(i) Use of presently designated locations is not feasible;

(ii) Adverse environmental effects are minimized; and

(iii) The development is important to the State's economy.

Response:

While short-term employment opportunities during project construction will be generated, there should be no significant adverse economic impacts associated with the proposed project. The proposed action is not contrary to the objective and policies for economic use.

3.5.6 Coastal Hazards

Objective:

Reduce hazard to life and property from tsunami, storm waves, stream flooding, erosion, subsidence, and pollution.

Policies:

(A) Develop and communicate adequate information about storm wave, tsunami, flood, erosion, subsidence, and point and nonpoint source pollution hazards;

(B) Control development in areas subject to storm wave, tsunami, flood, erosion, hurricane, wind, subsidence, and point and nonpoint pollution hazards;

(C) Ensure that developments comply with requirements of the Federal Flood Insurance Program; and

(D) Prevent coastal flooding from inland projects.

Response:

According to the Flood Insurance Rate Map for the area, the project site is located in an area of minimal tsunami inundation. In addition, the project site is not located within environmentally sensitive areas

that are subject to natural hazards. The proposed project is not anticipated to affect the region's susceptibility to coastal hazards.

3.5.7 Managing Development

Objective:

Improve the development review process, communication, and public participation in the management of coastal resources and hazards.

Policies:

(A) Use, implement, and enforce existing law effectively to the maximum extent possible in managing present and future coastal zone development;

(B) Facilitate timely processing of applications for development permits and resolve overlapping of conflicting permit requirements; and

(C) Communicate the potential short and long-term impacts of proposed significant coastal developments early in their life cycle and in terms understandable to the public to facilitate public participation in the planning and review process.

Response:

Opportunities for public understanding of the proposed project are provided for during processing of the Environmental Assessment (EA) in accordance with Chapter 343, HRS, notice and public review provisions. All aspects of development will be conducted in accordance with applicable Federal, State, and County standards.

3.5.8 Public Participation

Objective:

Stimulate public awareness, education, and participation in coastal management.

Policies:

(A) Promote public involvement in coastal zone management processes;

(B) Disseminate information on coastal management issues by means of educational materials, published reports, staff contact, and public workshops for persons and organizations concerned with coastal issues, developments, and government activities; and

(C) Organize workshops, policy dialogues, and site-specific mediations to respond to coastal issues and conflicts.

Response:

As noted above, the applicant conducted consultation in accordance with the Environmental Assessment requirements, Chapter 343, HRS. The proposed project does not contradict the objectives of public awareness, education, and participation.

3.5.9 Beach Protection Objective:

Objective:

Protect beaches for public use and recreation.

Policies:

(A) Locate new structures inland from the shoreline setback to conserve open space, minimize interference with natural shoreline processes, and minimize loss of improvements due to erosion;

(B) Prohibit construction of private erosion-protection structures seaward of the shoreline, except when they result in improved aesthetic and engineering solutions to erosion at the sites and do not interfere with existing recreational and waterline activities; and

(C) Minimize the construction of public erosion-protection structures seaward of the shoreline.

Response:

The proposed project will not involve construction near shoreline areas, and is, therefore, not anticipated to have an adverse effect on the local beach environment.

3.5.10 Marine Resources Objective:

Objective:

Promote the protection, use, and development of marine and coastal resources to assure their sustainability.

Policies:

(A) Ensure that the use and development of marine and coastal resources are ecologically and environmentally sound and economically beneficial;

(B) Coordinate the management of marine and coastal resources and activities to improve effectiveness and efficiency;

(C) Assert and articulate the interests of the State as a partner with federal agencies in the sound management of ocean resources within the United States exclusive economic zone;

(D) Promote research, study, and understanding of ocean processes, marine life, and other ocean resources in order to acquire and inventory information necessary to understand how ocean development activities relate to and impact upon ocean and coastal resources; and

(E) Encourage research and development of new, innovative technologies for exploring, using, or protecting marine and coastal resources.

Response:

The proposed will not have an adverse impact on coastal marine resources.

3.6 COMPLIANCE WITH THE STATE OF HAWAII'S DRINKING WATER STATE REVOLVING FUND PROGRAM

This project may be funded by Federal funds through the State of Hawaii's Drinking Water State Revolving Fund (DWSRF) program. The U.S. Congress established the DWSRF program as a new Section 1452 of the Safe Drinking Water Act (SDWA), 33 U.S.C. 300j-12, by the SWDA Amendments of 1996, Public Law 104-182. The DWSRF was established to help prevent contamination through source water protection and enhanced water system management. The proposed project is consistent with the overall program intent to prevent potential contamination. This document includes all of the environmental information required for compliance with the DWSRF program

3.7 CROSS-CUTTING FEDERAL AUTHORITIES

The following subsections address the proposed project's relationship to other Federal "cross-cutting" authorities

3.7.1 Archaeological and Historic Preservation Act (16 USC 461) and National Historic Preservation Act (16 USC 470)

As discussed in Chapter 2, Sections F and G, there are no known archaeological or cultural deposits on the project site.

A copy of this Draft Environmental Assessment (EA) will be provided to the Department of Land and Natural Resources, State Historic Preservation Division for review and comment.

3.7.2 Clean Air Act (42 USC 7401)

As discussed in Chapter 2, Section E, air quality at the project site is good. The only anticipated impacts are short-term impacts associated with construction activities. There are no long-term impacts associated with the operation of the proposed 300,000-gallon West Olinda Tank.

A copy of this Draft EA will be provided to the State Department of Health for review and comment.

3.7.3 Coastal Barriers Resources Act (16 USC 3501)

According to the State Department of Health, this act does not apply to the State of Hawaii at this time. Nonetheless, the proposed water storage tank will be located approximately eight miles inland from the coastline and is not anticipated to adversely impact coastal resources.

3.7.4 Coastal Zone Management Act (16 USC 1451)

Chapter 3, Section E addresses the project's relationship to the Hawaii Coastal Zone Management Program. The proposed project is not located within the County of Maui's Special Management Area and is not anticipated to have any adverse impact upon coastal resources.

A copy of this Draft Environmental Assessment (EA) will be provided to the State Department of Business, Economic Development, and Tourism, which oversees the Office of Coastal Zone Management, for review and comment.

3.7.5 Endangered Species Act (16 USC 1531)

The Endangered Species Act, as amended, provides broad protection for species of flora and fauna that are listed as rare, endangered, or threatened. This Act mandates that federal agencies seek to conserve such species and use their authorities in furtherance of the Act's purpose.

As discussed in Chapter 2, Section D, there are no known rare, endangered, or threatened species of flora or fauna in the vicinity of the project site. Further, no known rare, endangered, or threatened species of flora or fauna are anticipated to be impacted by the project.

A copy of this Draft Environmental Assessment (EA) will be provided to the U.S. Fish and Wildlife Service and the State Department of Land and Natural Resources for review and comment.

3.7.6 Environmental Justice (Executive Order 12898)

Executive Order 12898 calls upon federal agencies to attempt to identify and address disproportionately high and adverse human health or environmental effects of programs, policies, or actions upon minority and low-income populations.

Chapter 3 discusses the anticipated impacts of the proposed project. No human health or environmental effects are anticipated for all segments of the population. The project will improve human health by replacing the existing aging tank with a new tank that will meet all federal drinking water safety standards.

3.7.7 Farmland Protection Policy Act (7 USC 4201)

The Farmland Protection Policy Act is intended to minimize the extent to which federal programs contribute to the unnecessary and irreversible conversion of farmland to nonagricultural uses, while assuring that federal programs are administered in such a way as to be compatible with other programs and policies concerning farmland protection.

As discussed in Chapter 1, the subject property lies within the State Agricultural district. However, the new tank will be located within the already fenced site for the existing tank of less than half an acre is size, which represents less than one tenth of one percent of the approximately 245,000 acres of State Agricultural district lands on the island of Maui. Therefore, adverse impacts to agricultural productivity are not anticipated as a result of the proposed action.

A copy of this Draft Environmental Assessment (EA) will be provided to the Natural Resources Conservation Service, which has the leadership in administering the Farmland Protection Policy Act, for review and comment.

3.7.8 Fish and Wildlife Coordination Act (16 USC 661)

The Fish and Wildlife Coordination Act, as amended, authorizes the Secretaries of Agriculture and Commerce to require consultation with the U.S. Fish and Wildlife Service and the State agency responsible for fish and wildlife, when any body of water is proposed to be impacted by any agency under a federal permit or license. Consultation is to be undertaken to prevent any adverse impact to wildlife resources.

As discussed in Chapter 2, Section D, there are no known rare, endangered, or threatened species of flora or fauna in the vicinity of the project site. Further, no known rare, endangered, or threatened

species of flora or fauna are anticipated to be impacted by the project. The proposed water storage tank will not result in any impacts to any bodies of water or fish or wildlife populations.

A copy of this Draft Environmental Assessment (EA) will be provided to the U.S. Fish and Wildlife Service and the State Department of Land and Natural Resources for review and comment.

3.7.9 Floodplain Management (Executive Order 11988, As Amended By Executive Order 12148)

As discussed in Chapter 2, Section C, the subject property lies well outside of any floodplain, on lands designated as “minimal tsunami inundation” by the Flood Insurance Rate Map. The project is consistent with all applicable regulations and guidance relating to floodplain management.

3.7.10 National Historic Preservation Act (16 USC 470)

As discussed in Chapter 2, Section F and H, archaeological and cultural field inspections were conducted for the proposed project. No cultural deposits were discovered in the project site. In accordance with Section 6E-43.6, Hawaii Revised Statutes and Chapter 13-300, Hawaii Administrative Rules, if any significant cultural deposits or human skeletal remains are encountered, work will stop in the immediate vicinity and the State Historic Preservation Division (SHPD/DLNR) will be contacted.

3.7.11 Protection of Wetlands (Executive Order 11990, As Amended by Executive Order 12608)

There are no wetlands on or near to the project site. Neither are there any resources on the site vital to the wildlife that uses wetlands elsewhere on the island.

A copy of this Draft Environmental Assessment (EA) will be provided to the U.S. Fish and Wildlife Service and the State Department of Land and Natural Resources for review and comment.

3.7.12 Safe Drinking Water Act (42 USC 300f)

The Safe Water Drinking Act (SDWA) is the principal, federal law that ensures the quality of drinking water. Under this act, the Environmental Protection Agency (EPA) sets standards for drinking water quality and oversees those who implement said standards. All public water systems are required to meet these water quality standards. According to the EPA, there are no sole source aquifers on the island of Maui.

As discussed in Chapter 1, the purpose of the new water storage tank is to allow for lengthening of the period between activation of the existing booster pumps at the West Olinda Tank site, as well as the booster pumps at the Maluhia Tank site that pump water up to this West Olinda Tank. This would significantly improve the life efficiency of both booster pump systems. The proposed improvements will be implemented in accordance with Federal water quality standards.

3.7.13 Wild and Scenic Rivers Act (16 USC 1271)

According to the National Wild and Scenic Rivers System, there are no wild and scenic rivers in Hawaii. As a result, the State Department of Health noted that this act does not apply to the State of Hawaii at this time.

3.7.14 Essential Fish Habitat Consultation Process Under the Magnuson-Stevens Fishery Conservation and Management Act (16 USC 1801)

The proposed water storage tank will be located approximately eight miles inland from the coastline and is not anticipated to adversely

impact any essential fish habitat situated near the coastline. Further, there are no other bodies of water in proximity to the project site.

4. SUMMARY OF ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED

The proposed project will result in certain unavoidable construction-related environmental impacts as outlined in Chapter 2.

In the short term, construction associated with the project will generate noise impacts. These impacts will be limited to the immediate vicinity of the project construction areas. Sound attenuating construction equipment will be used, where practicable, to mitigate noise impacts caused by construction.

Unavoidable air quality impacts will also arise as a result of construction activities, such as the generation of dust and other airborne pollutants. Appropriate best management practices (BMPs) will be incorporated in the construction process to mitigate adverse impacts, such as frequent watering of exposed surfaces and regular maintenance of construction equipment to minimize construction-related impacts.

The development of the proposed storage tank will involve the commitment of vacant land, resulting in the use approximately 0.5 acre of agricultural land. In addition, the proposed action would involve a commitment of fuel, labor, funding, and material resources; however, the commitment of resources will be justified, given the eventual benefits to be realized through the completion of this water system component.

In the long term, the construction of the new water tank is not anticipated to result in any significant, long-term adverse environmental effects.

5. CHAPTER 5 – ALTERNATIVES TO THE PROPOSED ACTION

The applicant has looked at a variety of options in accommodating the proposed project.

5.1 PREFERRED ALTERNATIVE

The proposed action, outlined in Chapter 1, Section A, represents the preferred alternative. The capacity of the new 300,000-gallon tank will allow for lengthening of the period between activation of the existing booster pumps at this West Olinda Tank site, as well as the booster pumps at the Maluhia Tank site that pump water up to this West Olinda Tank. This would significantly improve the life efficiency of both booster pump systems. In addition, the new tank will provide storage capacity for another 30 to 50 years.

5.2 NO ACTION ALTERNATIVE

As previously mentioned the existing 50,000-gallon steel tank is approximately 50 years old and is at the end of its useful life. In addition, the storage volume in the existing tank is inadequate, which leads to frequent cycling of the booster pumps at the tank site as well as the booster pumps at the Maluhia Tank. The no action alternative would not address either of these two issues. The water system infrastructure upgrades represented by the proposed action are needed to ensure public health, safety, and welfare.

Similar to the no action alternative, the postponed action alternative does not address the water system issues.

5.3 ALTERNATIVE LOCATIONS

Alternative locations were not extensively considered due primarily to cost considerations. Expansion of water services are generally concentrated at existing facilities due to the capital costs related to the installation of redundant systems elsewhere. The existing tank site is already equipped with the necessary pumps and lines. Constructing a tank at an alternative location would require installation of additional waterlines, a new booster pump system, and revisions to the existing pump system at the Maluhia Tank. This methodology is

consistent with Hawaii State Plan and the DWS objectives to provide public resource capacities at reasonable costs to the general public.

6. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

The development of the proposed project would involve the commitment of funds. In addition, labor and material resources would be expended as part of the project's construction phase. Commitments of these resources are considered irreversible and irretrievable. These commitments, however, are also considered appropriate in the context of significantly improving the life efficiency of the booster pump systems at the West Olinda and Maluhia tank sites. In addition, the new tank will provide storage capacity for another 30 to 50 years.

7. SIGNIFICANCE CRITERIA ASSESSMENT

The "Significance Criteria", Section 12 of the HAR, Title 11, Chapter 200, "Environmental Impact Statement Rules", were reviewed and analyzed to determine whether the proposed action will have significant impacts on the environment. The following criteria and preliminary analysis are provided.

7.1 Involves an irrevocable commitment to loss or destruction of any natural or cultural resource.

There are no known archaeological features on the project site. In accordance with Section 6E-43.6, HRS and Chapter 13-300, Hawaii Administrative Rules, if any significant cultural deposits or human skeletal remains are encountered, work will stop in the immediate vicinity and the SHPD will be contacted.

The project entails the use of approximately 0.5 acre of agricultural land.

7.1.1 Curtails the range of beneficial uses of the environment.

The subject property contains existing water storage and appurtenant facilities. The proposed action involves removal of the existing tank and construction of a new storage tank at the site. Given the limited size and scope of the proposed action, there would be no consequent curtailment of the range of beneficial uses of the environment.

7.1.2 Conflicts with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS, and any revisions thereof and amendments thereto, court decisions, or executive orders.

The State's Environmental Policy and Guidelines are set forth in Chapter 344, HRS. The proposed action is consistent with the policies and guidelines of Chapter 344, HRS.

7.1.3 Substantially affects the economic welfare, social welfare, and cultural practices of the community or State.

The construction of the new storage tank will not have a significant impact on community economic or social welfare parameters.

7.1.4 Substantially affects public health.

No adverse impact to public health is anticipated to result from the proposed new water storage facility.

7.1.5 Involves substantial secondary impacts, such as population changes or effects on public facilities.

There will be no adverse effect on public services, such as police, fire, medical, educational, or waste collection services. Moreover, the proposed water tank will not impact population parameters. The proposed action is a needed improve the operation and extend the life of the County's water system.

7.1.6 Involves a substantial degradation of environmental quality.

The new storage tank will not have a substantial impact on environmental quality.

7.1.7 Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions.

The proposed action does not involve a commitment to larger actions nor will it have a significant cumulative impact on the environment. Best management practices will be employed to minimize and avoid environmental impacts.

7.1.8 Detrimentally affects air or water quality or ambient noise levels.

There are no known rare, endangered, or threatened species on or near the project vicinity and, therefore, there should be no impact to wildlife by the proposed action.

Construction activities will result in short-term air quality and noise impacts. Dust control measures, such as regular watering and sprinkling, and installation of dust screens, will be implemented to minimize wind-blown emissions. Noise impacts will occur primarily from construction equipment. Equipment mufflers or other noise attenuating equipment, as well as proper equipment and vehicle maintenance, will be used during construction activities.

Construction noise impacts will be mitigated through compliance with the provisions of the State of Hawaii, Department of Health Administrative Rules Title 11, Chapter 46, “Community Noise Control". These rules require a noise permit if the noise levels from construction activities are expected to exceed the allowable levels set forth in the Chapter 46 rules. No long-term air or water quality or ambient noise level impacts are anticipated.

7.1.9 Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters.

The subject property is not located in an environmentally sensitive area. There are no wetlands or other environmentally sensitive areas in close proximity and the project lands are wholly within an area of minimal tsunami inundation. No other foreseeable environmental effects attributed to environmentally sensitive areas are anticipated in conjunction with the project.

7.1.10 Substantially affects scenic vistas and viewplanes identified in county or state plans or studies.

The site for the new storage tank is located on the same parcel as the existing storage facility. The new tank will be approximately the same height at the existing tank and will not impinge upon view corridors or adversely impact the visual character of the project area.

7.1.11 Requires substantial energy consumption.

The proposed action will not involve a significant commitment of energy resources. In the context of regional energy consumption, no adverse impact to energy is anticipated.

In addition, coordination with Maui Electric Company (MECO) will be undertaken during the electrical plans preparation phase of work to ensure all operational parameters are addressed for the proposed project.

Based on the foregoing analysis, the Department of Water Supply concludes that the proposed action will result in a Finding of No Significant Impact (FONSI).

8. LIST OF PERMITS AND APPROVALS

The proposed action calls for the following governmental approvals:

County of Maui

1. Grading permit; and

2. Building permit

State of Hawaii

1. National Pollutant Discharge Elimination System Permit (as applicable)

9. AGENCIES AND ORGANIZATIONS CONSULTED DURING THE PREPARATION OF THE DRAFT ENVIRONMENTAL ASSESSMENT

The following agencies and organizations were consulted during the preparation of the Draft Environment Assessment. Agency comments and responses to substantive comments are included in Appendix A.

1. Ms. Nancy McMahon, Deputy SHPO/State Archaeologist
   State of Hawaii
   Department of Land and Natural Resources
   State Historic Preservation Division
   601 Kamokila Boulevard, Room 555
   Kapolei, Hawaii 96707

2. Mr. Thomas Phillips, Chief
   County of Maui
   Police Department
   55 Mahalani Street
   Wailuku, Hawaii 96793

3. Mr. Jeffrey Hunt, Director
   County of Maui
   Department of Planning
   200 South High Street
   Wailuku, Hawaii 96793

4. Ms. Tamara Horcajo, Director
   County of Maui
   Department of Parks and Recreation
   700 Hali‘a Nakoa Street, Unit 2
   Wailuku, Hawaii 96793

5. Mr. Clyde Namu‘o Administrator
   Office of Hawaiian Affairs
   711 Kapiolani Boulevard, Suite 500
   Honolulu, Hawaii 96813

6. Ms. Ranae Ganske-Cerizo, Acting District Conservationist
   Natural Resources Conservation Service
   U.S. Department of Agriculture
   700 Hookele Street, Suite 202
   Kahului, Hawaii 96732

7. Mr. Ed Reinhardt, President
Maui Electric Company, Ltd.
P.O. Box 398
Kahului, Hawaii 96733

8. Mr. Patrick Leonard
Pacific Islands Manager
U.S. Fish and Wildlife Service
300 Ala Moana Blvd., Room 3-122,
Box 50088
Honolulu, Hawaii 96813

9. Mr. Jeffrey A. Murray, Fire Chief
County of Maui
Department of Fire and Public Safety
200 Dairy Road
Kahului, Hawaii 96732

10. Ms. Cheryl Okuma, Director
County of Maui
Department of Environmental Management
One Main Plaza
2200 Main Street, Suite 175
Wailuku, Hawaii 96793

11. Mr. Milton Arakawa, Director
County of Maui
Department of Public Works
200 South High Street
Wailuku, Hawaii 96793

12. Ms. Patti Kitkowski
District Environmental Health Acting Program Chief
State of Hawai‘i
Department of Health
54 High Street
Wailuku, Hawaii 96793

13. Dr. Chiyome L. Fukino, M.D., Director
State of Hawai‘i
Department of Health
P.O. Box 3378
Honolulu, Hawaii 96814

14. Ms. Laura H. Thielen, Chairperson
State of Hawaii
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

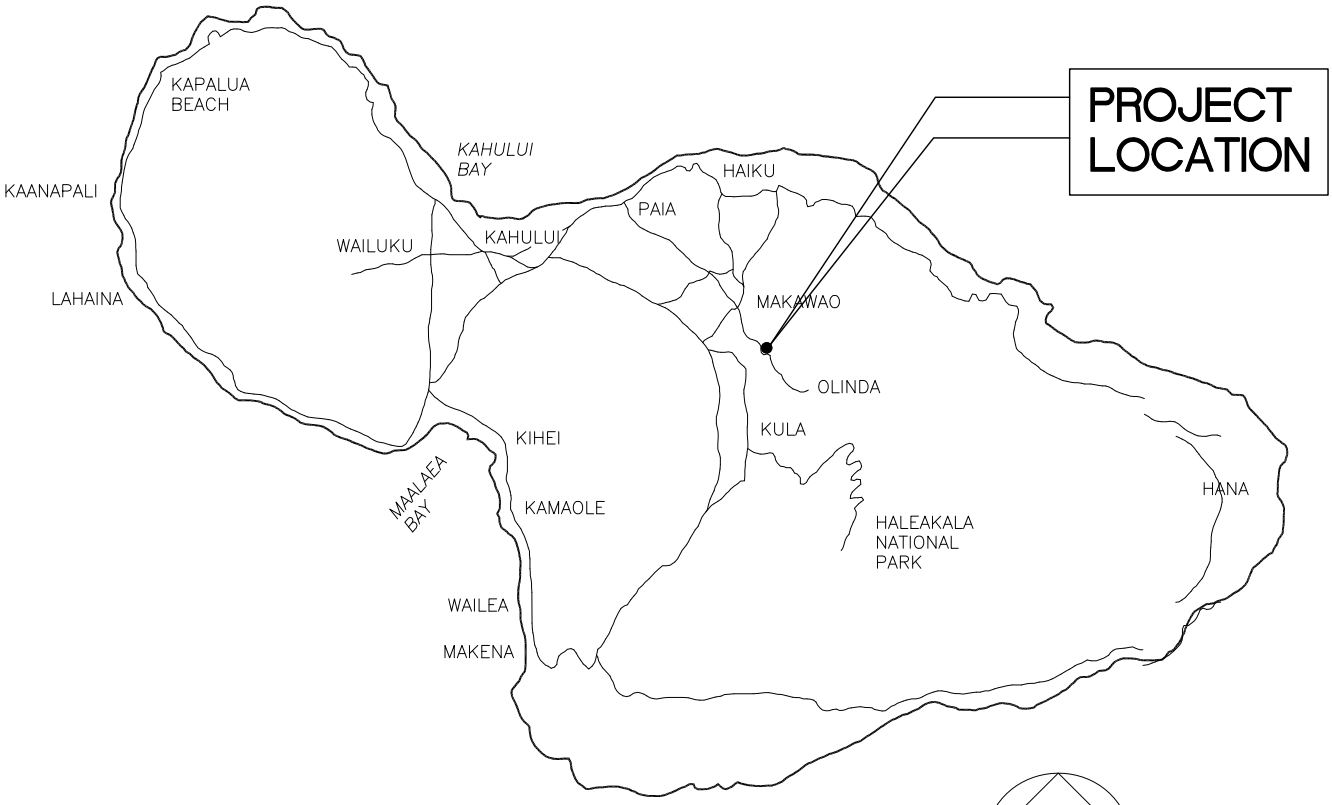
15. Mr. George Young, Chief
Regulatory Branch
U.S. Department of the Army
U.S. Army Engineer District, Honolulu
Building 230
Fort Shafter, Hawaii 96858-5440

16. Mr. Don Medeiros, Director
County of Maui
Department of Transportation
200 South High Street
Wailuku, Hawaii 96793

17. Mr. Alec Wong, Chief
State of Hawaii
Department of Health
Environmental Management Division
Clean Water Branch
919 Ala Moana Blvd., Room 301
Honolulu, Hawaii 96814

18. Mr. Stuart Yamada, Chief
State of Hawaii
Department of Health
Environmental Management Division
Safe Drinking Water Branch
919 Ala Moana Blvd., Room 308
Honolulu, Hawaii 96814

EXHIBITS



DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

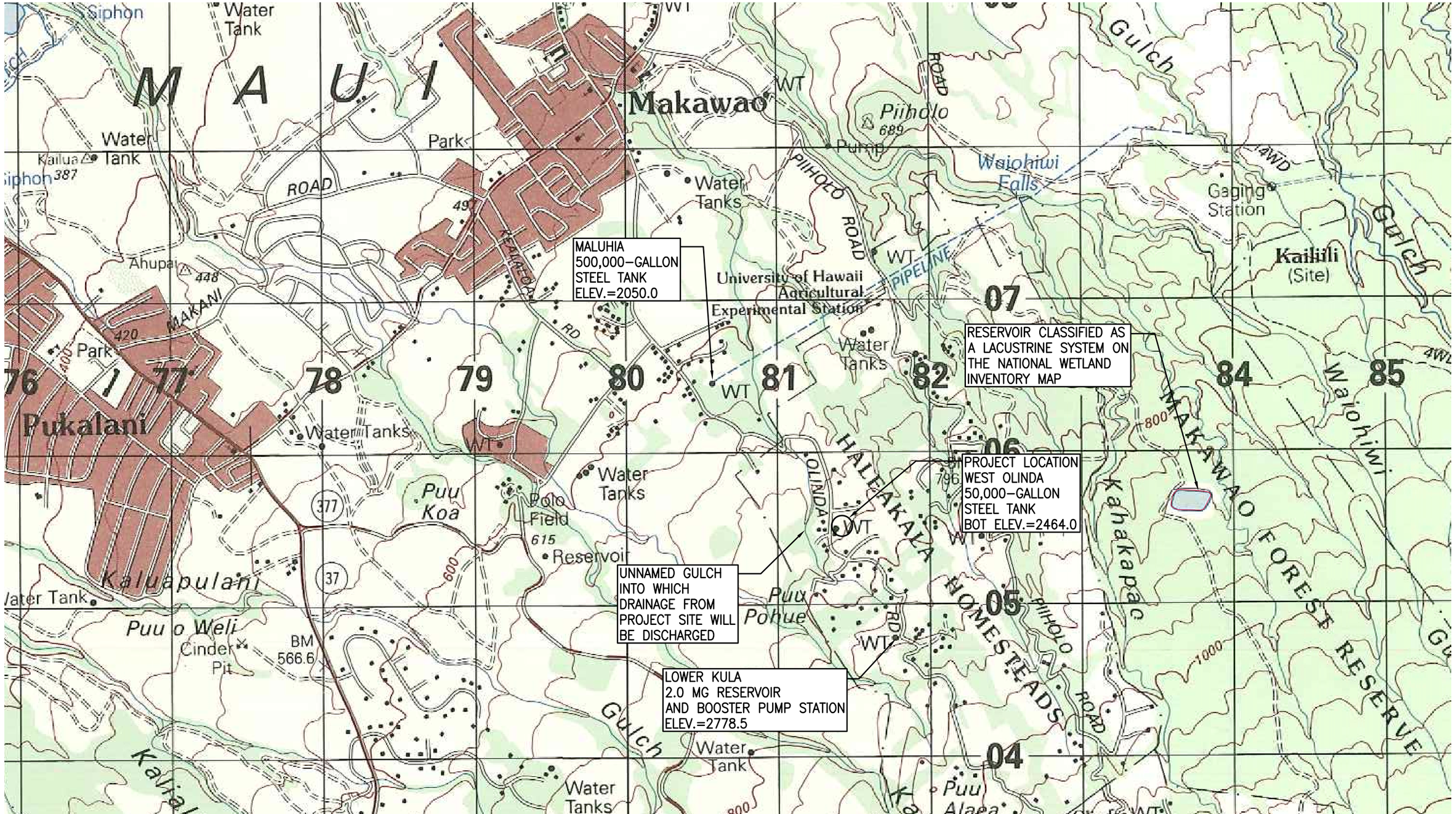
WEST OLINDA TANK REPLACEMENT
DRAFT ENVIRONMENTAL ASSESSMENT
MAKAWAO, MAUI, HAWAII

AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS, SURVEYORS • HONOLULU • WAILUKU • HILO, HAWAII

PROJECT LOCATION

EXHIBIT 1

FN: 09-014\Draft EA\Exhibits\Exh 1 – Project Location.dwg



NORTH

SCALE: 1" = 2000'

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

WEST OLINDA TANK REPLACEMENT
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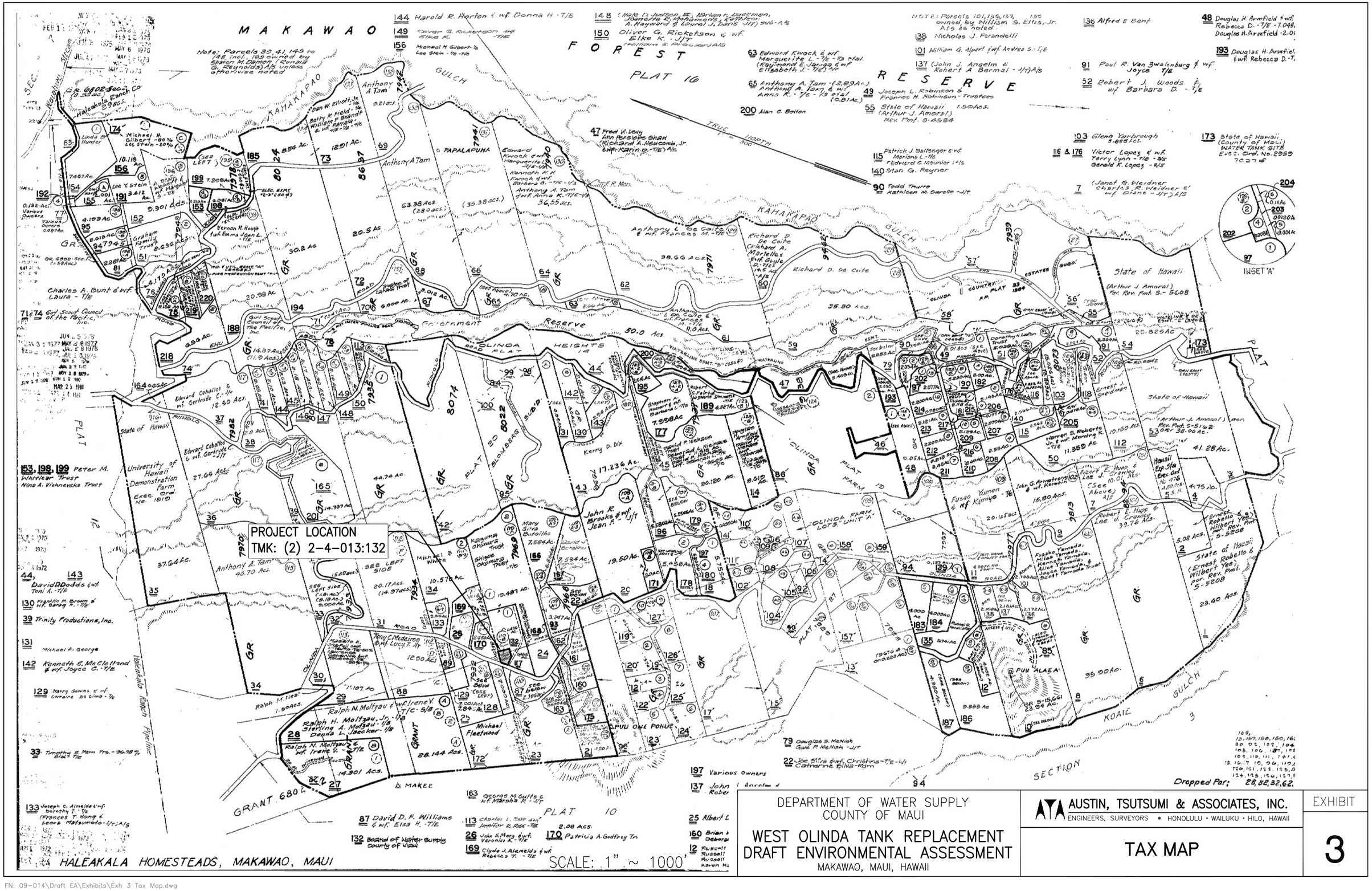
VICINITY MAP

EXHIBIT **2**

FN: 09-014\Draft EA\Exhibits\Exh 2 - Vicinity Map.dwg



DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

WEST OLINDA TANK REPLACEMENT
DRAFT ENVIRONMENTAL ASSESSMENT

MAKAWAO, MAUI, HAWAII

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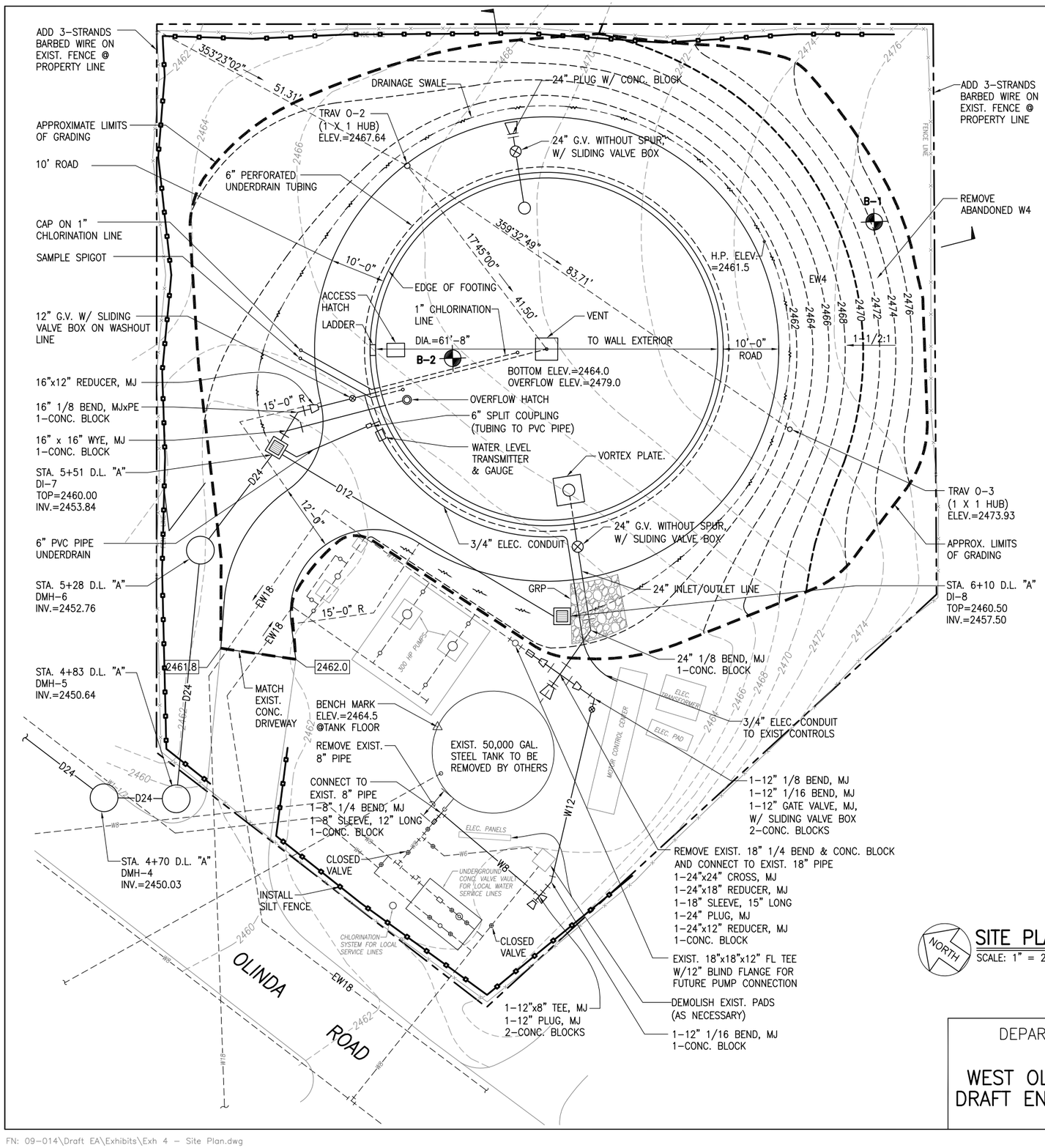
TAX MAP

EXHIBIT 3

FN: 09-014\Draft EA\Exhibits\Exh 3 Tax Map.dwg



BEST MANAGEMENT PRACTICES (BMP):

1. INSTALL TEMPORARY SILT FENCE DOWNHILL AT THE CONSTRUCTION SITE TO CONTAIN ANY SILT RUNOFF AND DECREASE THE VELOCITY OF THE SURFACE RUNOFF.
2. INSTALL TEMPORARY SILT FENCE AS SHOWN ON PLAN.
3. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS GENERATED FROM HIS CONSTRUCTION PRACTICES.
4. EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO START OF PROJECT AND BE MAINTAINED UNTIL COMPLETION OF PROJECT.
5. CONTRACTOR TO PERIODICALLY INSPECT SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE, CATCH BASIN AND INLET FILTERS ESPECIALLY DURING HEAVY RAINFALL. CONTRACTOR SHALL ALSO ENSURE DRAINAGE THROUGH FILTER MATERIAL IS MAINTAINED.
6. GOOD HOUSEKEEPING SHALL BE UTILIZED TO ENSURE PROTECTION OF ROADWAYS FROM MUD, DIRT, AND DEBRIS.
7. THE CONTRACTOR SHALL ENSURE THAT ALL TIRES OF CONSTRUCTION VEHICLES ARE SUFFICIENTLY CLEANED OFF SO THAT DIRT OR DEBRIS IS NOT TRACKED OFF THE CONSTRUCTION SITE. WASHING OF TIRES WITH WATER WILL NOT BE ACCEPTABLE UNLESS THE RUNOFF IS CONTAINED AND DOES NOT ENTER THE STORM DRAIN SYSTEM OR ONTO THE STATE'S ROW.

NORTH

SITE PLAN

SCALE: 1" = 20'

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

WEST OLINDA TANK REPLACEMENT
DRAFT ENVIRONMENTAL ASSESSMENT

MAKAWAO, MAUI, HAWAII

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SITE PLAN

EXHIBIT 4

FN: 09-014\Draft EA\Exhibits\Exh 4 – Site Plan.dwg

NORTH

SCALE: 1" = 200'

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

WEST OLINDA TANK REPLACEMENT
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AERIAL MAP

EXHIBIT 5

FN: 09-014\Draft EA\Exhibits\Exh 5 – Aerial Map.dwg

NORTH

SCALE: 1" = 100'

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

WEST OLINDA TANK REPLACEMENT
DRAFT ENVIRONMENTAL ASSESSMENT

MAKAWAO, MAUI, HAWAII

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PHOTO KEY

EXHIBIT

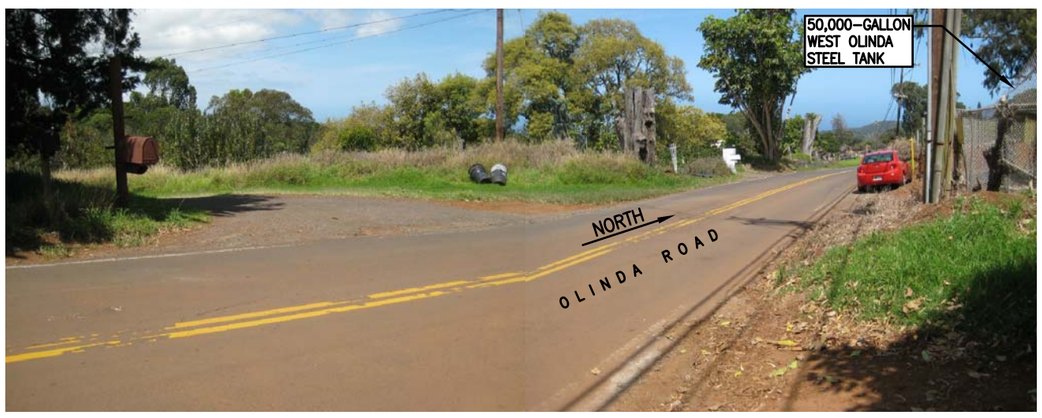
6

FN: 09-014\Draft EA\Exhibits\Exh 6,7,8 - photos.dwg

TAKEN FROM POINT A, LOOKING NORTH AND SOUTH ALONG OLINDA ROAD

TAKEN FROM POINT A, LOOKING WEST

TAKEN FROM POINT A, LOOKING NORTHWEST



TAKEN FROM POINT B, LOOKING NORTH ALONG OLINDA ROAD

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

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PHOTOGRAPHS - 1

EXHIBIT 7

FN: 09-014\Draft EA\Exhibits\Exh 6,7,8 - photos.dwg

TAKEN FROM POINT C LOOKING AT OLINDA TANK AND ADJACENT PROPERTY TO THE SOUTH

TAKEN FROM POINT D, LOOKING NORTH AND SOUTH ALONG OLINDA ROAD

TAKEN FROM POINT E, LOOKING ACROSS OLINDA ROAD

TAKEN FROM POINT E, LOOKING ACROSS OLINDA ROAD

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

WEST OLINDA TANK REPLACEMENT
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PHOTOGRAPHS-2

EXHIBIT 8

FN: 09-014\Draft EA\Exhibits\Exh 6,7,8 – photos.dwg

APPENDICES

APPENDIX A

LETTERS RECEIVED FROM AGENCIES AND ORGANIZATIONS CONSULTED DURING THE PREPARATION OF THE DRAFT ENVIRONMENTAL ASSESSMENT AND RESPONSES TO SUBSTANTIVE COMMENTS

CHARMAINE TAVARES
Mayor

JEFFREY K. ENG
Director

ERIC H. YAMASHIGE, P.E., L.S.
Deputy Director

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793-2155
www.mauiwater.org

April 27, 2009

Ms. Genevieve Salmonson, Director
State of Hawaii
Department of Health
Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813

Dear Ms. Salmonson:

SUBJECT: Draft Environmental Assessment for West Olinda Tank Replacement
DWS Job No. 09-02A
TMK: (2) 2-4-013:132, Makawao, Maui, Hawaii

The County of Maui, Department of Water Supply has reviewed the Draft Environmental Assessment for the subject project, and anticipates a Finding of No Significant Impact (FONSI) determination. Please publish notice of availability for this project in the next available OEQC Environmental Notice.

We have enclosed a completed OEQC Publication Form, one copy of the document in pdf format, two copies of the Draft EA, and the project summary on disk. Please call Ms. Wendy Taomoto at (808) 270-7835 if you have any questions.

Sincerely,

Jeffrey K. Eng

cc: Ivan K. Nakatsuka - ATA

"By Water All Things Find Life"

CHARMAINE TAVARES
Mayor

TAMARA HORCAJO
Director

ZACHARY Z. HELM
Deputy Director

(808) 270-7230
FAX (808) 270-7934

DEPARTMENT OF PARKS & RECREATION

700 Hali'a Nakoa Street, Unit 2, Wailuku, Hawaii 96793

April 22, 2009

Austin, Tsutsumi & Associates, Inc.
Ivan K. Nakatsuka, PE
501 Sumner Street, Suite 521
Honolulu, Hawaii 96817

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment West Olinda Tank Replacement DWS Job No. 09-02A, TMK: 2-4-013:132, Makawao, Maui, Hawaii

Dear Mr. Nakatsuka:

We have reviewed the proposed project and have no comments or objections to submit at this time.

Thank you for the opportunity to review and comment on this matter. Please feel free to contact me or Mr. Patrick Matsui, Chief of Parks Planning and Development at 270-7387 should you have any other questions.

Sincerely,

TAMARA HORCAJO
For Director of Parks & Recreation

xc: Patrick T. Matsui, Chief of Parks Planning and Development

TH:PTM:do

CHARMAINE TAVARES
MAYOR

JEFFREY A. MURRAY
CHIEF

ROBERT M. SHIMADA
DEPUTY CHIEF

COUNTY OF MAUI
DEPARTMENT OF FIRE AND PUBLIC SAFETY
FIRE PREVENTION BUREAU

780 ALUA STREET
WAILUKU, HAWAII 96793
(808) 244-9161
FAX (808) 244-1363

April 15, 2009

Mr. Ivan K. Nakatsuka, P.E.
Austin, Tsutsumi & Associates, Inc
501 Sumner street, Suite 521
Honolulu, HI 96817-5031

Subject: Draft Environmental Assessment for West Olinda Tank Replacement
Olinda, Maui TMK: (2)2-4-013:132

Dear Mr. Nakatsuka,

I have had the opportunity to review the subjection application dated April 10, 2009. We do not have any specific concerns at this time regarding the proposed improvements. We appreciate the upgrade to help strengthen the existing capacity in the area.

Please feel free to contact our office if there are any questions or concerns.

Sincerely,

Valeriano F. Martin
Captain
Fire Prevention Bureau

CHARMAINE TAVARES
Mayor

JEFFREY S. HUNT
Director

KATHLEEN ROSS AOKI
Deputy Director

COUNTY OF MAUI
DEPARTMENT OF PLANNING

April 20, 2009

Mr. Ivan K. Nakatsuka, P.E.
Austin, Tsutsumi & Associates, Inc.
501 Sumner Street, Suite 521
Honolulu, Hawaii 96817-5031

Dear Mr. Nakatsuka:

SUBJECT: PRE-ASSESSMENT CONSULTATION FOR A DRAFT ENVIRONMENTAL ASSESSMENT (EA) WEST OLINDA TANK REPLACMENT, DWS JOB No. 09-02A, LOCATED AT MAKAWAO, MAUI, HAWAII; TMK: (2) 2-4-013:132 (EAC 2009/0021)

The Department of Planning (Department) has reviewed your letter dated April 10, 2009, requesting pre-consultation comments in preparation of the Draft EA.

The Department has no substantive comment at this time. The Department assumes that all County procedural requirements will be met, and completed in a timely manner.

Thank you for your cooperation. Should you require further clarification, please contact Staff Planner Paul Fasi at paul.fasi@mauicounty.gov or at 270-7814.

Sincerely,

CLAYTON I. YOSHIDA, AICP
Planning Program Administrator

For: JEFFREY S. HUNT, AICP
Planning Director

xc: Paul F. Fasi, Staff Planner
Michael Miyamoto, Deputy Director, Department of Public Works
EAC File
General File

JSH CIY:PFF:vb
K:\WP_DOCS\PLANNING\EAC\2009\0021_WestOlindaTank\LTR1.doc

Maui Electric Company, Ltd. • 210 West Kamehameha Avenue • PO Box 398 • Kahului, Maui, HI 96733-6898 • (808) 871-8461

April 15, 2009

Mr. Ivan K. Nakatsuka, Vice President
Austin, Tsutsumi & Associates, Inc.
501 Sumner Street, Suite 521
Honolulu, Oahu, Hawaii, 96817

Dear Mr. Nakatsuka,

Subject: Pre-Assessment Consultation for Draft Environmental Assessment for the West Olinda Tank Replacement
Makawao, Maui, Hawaii
Tax Map Key: (2) 2-4-013:132

Thank you for allowing us to comment on the Pre-Assessment Consultation for Draft Environmental Assessment for the subject project.

In reviewing our records and the information received, Maui Electric Company (MECO) has no objection to the subject project at this time. If the customer seeks an electric service upgrade, we highly encourage the customer to submit an electrical service request so that service can be provided on a timely basis.

Should you have any questions or concerns, please call me at 871-2340.

Sincerely,

Ray Okazaki
Staff Engineer

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, HONOLULU DISTRICT
FORT SHAFTER, HAWAII 96858-5440

REPLY TO
ATTENTION OF:

April 16, 2009

Regulatory Branch

File No.: POH-2009-134

Ivan K. Nakatsuka, P.E.
Austin, Tsutsumi & Associates, INC.
501 Sumner St., Suite 521
Honolulu, Hawai'i 96817-5031

Dear Mr. Nakatsuka,

This letter is in response to your request dated April 10, 2009, for early consultation comments on the preparation of the Draft Environmental Assessment (DEA) for the **West Olinda Tank Project**, located in TMK 224013132, Makawao, Maui, Hawai'i.

The U.S. Army Corps of Engineers (Corps) asserts jurisdiction over traditional navigable waters (TNWs) (e.g., Pacific Ocean), under Section 10 of the Rivers and Harbors Act (RHA) of 1899 (33 U.S.C. 403); wetlands adjacent to TNWs, non-navigable tributaries that have perennial flow or continuous seasonal flow, and wetlands directly abutting such tributaries. For other types of waters, including those that do not have relatively permanent flows, as well as any wetlands adjacent to such tributaries, we must determine jurisdiction on a case-by-case basis using a fact-specific analysis to assess the flow characteristics and functions of the tributary and its adjacent wetlands to determine if in combination they significantly affect the chemical, physical, and biological integrity of downstream navigable waters, particular emphasis being given to hydrological and ecological factors.

We recommend your DEA identify all streams (perennial, intermittent, or ephemeral) and wetlands on and in the immediate vicinity of the land parcel subject to development, characterize the hydrology and ecology of those features, and provide a description of all ground-disturbing activities associated with the project construction occurring on the project site. Please consider the aforementioned and that under Section 404 of the Clean Water Act of 1972 (33 U.S.C. 1344), Department of Army (DA) authorization is required for activities that result in the discharge (placement) of dredge and/ or fill material into waters of the U.S.

Thank you for the opportunity to comment. If you have any questions, please contact Ms. Meris Bantilan-Smith, of my Regulatory staff at 808-438-7701 (FAX: 808-438-4060) or by electronic mail at Meris.Bantilan-Smith@usace.army.mil. Please include File No. POH-2009-134 in any future correspondence regarding this project. Please be advised you can provide comments on your experience with the Corps' Honolulu District Regulatory Branch by accessing our web-based customer survey form at http://per2.nwp.usace.army.mil/survey.html.

Sincerely,

George P. Young, P.E.
Chief, Regulatory Branch

AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS • SURVEYORS
CONTINUING THE ENGINEERING PRACTICE FOUNDED BY H. A. R. AUSTIN IN 1934

KENNETH K. KUROKAWA, P.E.
TERRANCE S. ARASHIRO, P.E.
DONOHUE M. FUJII, P.E.
STANLEY T. WATANABE
IVAN K. NAKATSUKA, P.E.

09-014

April 22, 2009

Mr. George Young, Chief
Regulatory Branch
U.S. Department of the Army
U.S. Army Engineer District, Honolulu
Building 230
Fort Shafter, Hawaii 96858-5440

Dear Mr. Young:

SUBJECT: File No. POH-2009-134
Pre-Assessment Consultation for Draft Environmental Assessment – West Olinda Tank Replacement
DWS Job No. 09-02A
TMK: (2) 2-4-013:132, Makawao, Maui, Hawaii

Thank you for your letter dated April 16, 2009, commenting on the proposed action. There is an unnamed gulch in the vicinity of the project site that will be indentified in the Draft Environmental Assessment (DEA). There are no other streams or wetlands on or in the immediate vicinity of the project site.

We confirm that there will be no discharge of dredged material into the nearby gulch. Best Management Practices will be employed to ensure that construction actions do not affect any water within the gulch. Moreover, there will be no stockpiling or staging areas for construction in or near the gulch.

Thank you again for your input. Please do not hesitate to call me or Lisa Appelgate at (808) 533-3646 if you have any questions.

Sincerely,

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

By
IVAN K. NAKATSUKA, P.E.
Vice President and Chief Environmental Engineer

cc: Wendy Taomoto – Maui DWS

REPLY TO:
501 SUMNER STREET, SUITE 521 • HONOLULU, HAWAII 96817-5031
PHONE (808) 533-3646 • FAX (808) 526-1267
EMAIL : atahnl@atahawaii.com

OFFICES IN:
HONOLULU, HAWAII
WAILUKU, MAUI, HAWAII
HILO, HAWAII

POLICE DEPARTMENT
COUNTY OF MAUI

CHARMAINE TAVARES
MAYOR

OUR REFERENCE

YOUR REFERENCE
tj

55 MAHALANI STREET
WAILUKU, HAWAII 96793
(808) 244-6400
FAX (808) 244-6411

THOMAS M. PHILLIPS
CHIEF OF POLICE

GARY A. YABUTA
DEPUTY CHIEF OF POLICE

April 17, 2009

Mr. Ivan K. Nakatsuka, P.E.
Vice President and Chief Environmental Engineer
Austin, Tsutsumi & Associates, Inc.
501 Sumner Street, Suite 521
Honolulu, HI 96817-5031

Dear Mr. Nakatsuka:

SUBJECT: Pre-Assessment Consultation for D.E.A. West Olinda Tank Replacement; DWS Job No. 09-02A
TMK: (2) 2-4-013:132, Makawao, Hawaii

Thank you for your letter of April 10, 2009, requesting comments on the above subject.

We have reviewed the documents which were submitted for our review and have enclosed our comments and/or recommendations. Thank you for giving us the opportunity to comment on the proposed project.

Very truly yours,

Assistant Chief Wayne T. Ribao
for: Thomas M. Phillips
Chief of Police

Enclosure

c: Jeffrey Hunt, Maui County Planning Department

COPY

CONCUR.
AC Wayne Ritts
4/15/09

TO : THOMAS PHILLIPS, CHIEF OF POLICE, COUNTY OF MAUI

VIA : CHANNELS

FROM : STEPHEN ORIKASA, ADMINISTRATIVE SERGEANT, WAILUKU PATROL DIVISION

SUBJECT : RESPONSE TO A REQUEST FOR COMMENTS REGARDING THE PRE-ASSESSMENT CONSULTATION FOR DRAFT ENVIRONMENTAL ASSESSMENT - WEST OLINDA TANK REPLACEMENT

This communication is submitted as a response to a request for comments by Austin, Tsutsumi & Associates, Inc., Vice President and Chief Environmental Engineer, Ivan K. Nakatsuka, P.E., regarding the following subject;

SUBJECT : Pre-Assessment Consultation for Draft Environmental Assessment
West Olinda Tank Replacement
DWS Job No. 09-02A
TMK: (2) 2-4-013:132, Makawao, Maui, Hawaii

RESPONSE:

In review of the submitted documents, the focus from the police perspective would be upon the safety of vehicular & pedestrian movement.

The remoteness of this project would likely not have a significant long term impact upon vehicular and pedestrian movement. Although during the construction phases of this project this may become and issue which will need to be addressed and mitigated.

At the project site, proper and adequate traffic control personnel and devices must be utilized to mitigate the ingress and egress of heavy equipment, vehicles and materials from the area.

CONCLUSION:

There are no objections to the progression of this project at this time. Although, it is of utmost importance to be cognizant of any health and safety impacts, directly and indirectly, which may arise from this project.

Respectfully submitted for your review and approval.

Stephen T. Orikasa E#716
Administrative Sergeant/Wailuku Patrol Division
04/15/09 @ 0830 Hours

NO NUMBER FOR 4 YEARS
APPROVED PAGES
04/15/09 @ 0840

AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS • SURVEYORS
CONTINUING THE ENGINEERING PRACTICE FOUNDED BY H. A. R. AUSTIN IN 1934

KENNETH K. KUROKAWA, P.E.
TERRANCE S. ARASHIRO, P.E.
DONOHUE M. FUJII, P.E.
STANLEY T. WATANABE
IVAN K. NAKATSUKA, P.E.

09-014

April 23, 2009

Mr. Thomas Phillips, Chief
County of Maui
Police Department
55 Mahalani Street
Wailuku, Hawaii 96793

Dear Mr. Phillips:

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment
West Olinda Tank Replacement
DWS Job No. 09-02A
TMK: (2) 2-4-013:132, Makawao, Maui, Hawaii

Thank you for your letter dated April 17, 2009, commenting on the proposed action. In response to your comments, we note that the project contractor will implement necessary traffic control measures to ensure the safety of vehicular and pedestrian movement in the vicinity of the project site. Appropriate measures will be taken to minimize the impact of ingress and egress of heavy equipment, vehicles and materials during construction.

In addition, the project site has secured fencing to deter unlawful entry into the tank facility site.

Thank you again for your input. Please do not hesitate to call me or Lisa Appelgate at (808) 533-3646 if you have any questions.

Sincerely,

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

By
IVAN K. NAKATSUKA, P.E.
Vice President and Chief Environmental Engineer

cc: Wendy Taomoto – Maui DWS

REPLY TO:
501 SUMNER STREET, SUITE 521 • HONOLULU, HAWAII 96817-5031
PHONE (808) 533-3646 • FAX (808) 526-1267
EMAIL : atahnl@atahawaii.com

OFFICES IN:
HONOLULU, HAWAII
WAILUKU, MAUI, HAWAII
HILO, HAWAII

LINDA LINGLE
GOVERNOR OF HAWAII

CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O.BOX 3378
HONOLULU, HAWAII 96801-3378

In reply, please refer to:
EMD/SDWB/

April 20, 2009

Mr. Ivan Nakatsuka, P.E.
Austin, Tsutsumi & Associates, Inc.
501 Sumner Street, Suite 521
Honolulu, HI 96817-5031

Dear Mr. Nakatsuka:

SUBJECT: PREASSESSMENT CONSULTATION FOR DRAFT ENVIRONMENTAL ASSESSMENT, WEST OLINDA TANK REPLACEMENT (DWS JOB NO. 09-02A) TMK: (2) 2-4-013:132, MAKAWAO, MAUI, HAWAII

We are in receipt of the above referenced document and offer the following comments:

In the draft environmental assessment, please provide the following information:

a. A statement of project needs and benefits, including a discussion of the drinking water quality benefits of the project and/or the public health/water quality problems to be corrected.

b. A description of the proposed project and the public water system of which it is a part.

c. An evaluation of the alternatives considered to address the project needs.

d. A description of the selected alternative and the relevant design criteria used.

e. Cost information on the estimated total capital costs and annual operation and maintenance costs for the project.

f. An evaluation of the impact of the project on the water supply (if applicable).

Please refer to the enclosed document for the specific criteria and cross-cutters in sections A, B, and C that are expected to be addressed in the environmental assessment.

Should you have any questions, please contact Alain Carey of the Safe Drinking Water Branch, Engineering Section, at 586-4258.

Sincerely,

STUART YAMADA, P.E., CHIEF
Safe Drinking Water Branch
Environmental Management Division

AC:cb

Enclosure

c: Wendy Taomoto, Maui DWS (via email)

(Rev. Jul 25/07)

SAFE DRINKING WATER BRANCH
HAWAII DEPARTMENT OF HEALTH

ENVIRONMENTAL ASSESSMENT
CHECKLIST AND CERTIFICATION

PROJECT NAME: _____

PROJECT NUMBER: _____ _____
(Applicant) (State)

	YES	NO
ENVIR. ASSESSMENT SUBMITTED:	-----	-----
PRIOR DECISION DOC'T SUBMITTED:	-----	-----
A. OEQC CRITERIA ADDRESSED:		
(1) ID of applicant:	-----	-----
(2) ID of approv agency:	-----	-----
(3) Agencies consulted:	-----	-----
(4) Descrip. of proj. char:	-----	-----
(5) Descrip. of envir:	-----	-----
(6) Impacts and alternatives:	-----	-----
(7) Mitigation measures:	-----	-----
(8) Determination:	-----	-----
(9) Findings and reasons:	-----	-----
B. SERP CRITERIA ADDRESSED:		
1. Population projections current:	-----	-----
2. "No-action" alternative:	-----	-----
3. Impacts analysis addresses: a. prim & sec impacts:	-----	-----

b. social parameters: ----- -----

c. cumulative impacts: ----- -----

d. other projects: ----- -----

e. sensitive issues: ----- -----

C. CROSS CUTTERS ADDRESSED:

1. Arch & Hist Pres Act: ----- -----

2. Clean Air Act: ----- -----

3. Coastal Zone Mang. Act: ----- -----

4. Endangered Spec Act: ----- -----

5. Environmental Justice Act: ----- -----

6. Farmland Prot Act: ----- -----

7. Fish & Wildlife Act: ----- -----

8. Floodplain Mang EO: ----- -----

9. Nat Hist Pres Act: ----- -----

10. Prot of Wetlands EO ----- -----

11. Safe Drink Water Act: ----- -----

12. Wild & Scenic Rivers Act: ----- -----

13. Essential Fish Habitat Act: ----- -----

CERTIFICATION: (County certifies that it has conducted a current assessment of the environmental impacts of the proposed project, and has disclosed, in the Environmental Assessment Documents referred to in this checklist, all known significant environmental impacts of the proposed project.)

Signature	Title	Date

AUSTIN, TSUTSUMI & ASSOCIATES, INC. CIVIL ENGINEERS • SURVEYORS
CONTINUING THE ENGINEERING PRACTICE FOUNDED BY H. A. R. AUSTIN IN 1934

KENNETH K. KUROKAWA, P.E.
TERRANCE S. ARASHIRO, P.E.
DONOHUE M. FUJII, P.E.
STANLEY T. WATANABE
IVAN K. NAKATSUKA, P.E.

09-014

April 23, 2009

Mr. Stuart Yamada, Chief
State of Hawaii
Department of Health
Environmental Management Division
Safe Drinking Water Branch
919 Ala Moana Blvd., Room 308
Honolulu, Hawaii 96814

Dear Mr. Yamada:

SUBJECT: Pre-Assessment Consultation for Draft Environmental Assessment – West Olinda Tank Replacement
DWS Job No. 09-02A
TMK: (2) 2-4-013:132, Makawao, Maui, Hawaii

Thank you for your letter dated April 20, 2009, commenting on the proposed action. We believe that the Draft Environmental Assessment (DEA) provides all the requested information, as well as the specific criteria listed in the "Environmental Assessment Checklist and Certification".

Thank you again for your input. A copy of the DEA will be provided to your office for review and comment. In the meantime, please do not hesitate to call me or Lisa Appelgate at (808) 533-3646 if you have any questions.

Sincerely,

AUSTIN, TSUTSUMI & ASSOCIATES, INC.

By
IVAN K. NAKATSUKA, P.E.
Vice President and Chief Environmental Engineer

cc: Wendy Taomoto – Maui DWS

REPLY TO:
501 SUMNER STREET, SUITE 521 • HONOLULU, HAWAII 96817-5031
PHONE (808) 533-3646 • FAX (808) 526-1267
EMAIL : atahnl@atahawaii.com

OFFICES IN:
HONOLULU, HAWAII
WAILUKU, MAUI, HAWAII
HILO, HAWAII