LOWER PAIA TANK REPLACEMENT

DRAFT ENVIRONMENTAL ASSESSMENT

DWS JOB NUMBER 09-09 A

PAIA, MAUI, HAWAII

TMK: (2) 2-5-005:058

OCTOBER 2010

Prepared for:

County of Maui
Department of Water Supply
Wailuku, Maui, Hawaii

TABLE OF CONTENTS

EXECUTIVE SUMMARY 5
INTRODUCTION 7
PROJECT OVERVIEW 7
PURPOSE OF THE ENVIRONMENTAL ASSESSMENT 8
PURPOSE AND NEED FOR THE PROJECT 8
DESCRIPTION OF THE EXISTING ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATION MEASURES 9
LAND USE 9
Existing Conditions 9
Potential Impacts and Mitigation Measures 9
CLIMATE, TOPOGRAPHY, AND SOILS 10
Potential Impacts and Mitigation Measures 11
FLOOD AND TSUNAMI HAZARDS 11
Existing Conditions 11
Potential Impacts and Mitigation Measures 12
FLORA AND FAUNA 12
Exiting Conditions 12
Potential Impacts and Mitigation Measures 12
STREAMS AND WETLANDS 13
Existing Conditions 13
Potential Impacts and Mitigation Measures 13
HISTORIC AND ARCHAEOLOGICAL RESOURCES 13
Existing Conditions 13
Potential Impacts and Mitigation Measures 14
CULTURAL RESOURCES 14
Existing Conditions 14
Potential Impacts and Mitigation Measures 14
SCENIC AND OPEN SPACE RESOURCES 15
Existing Conditions 15
Potential Impact and Mitigation Measures 15
PUBLIC SERVICES 15
Existing Conditions 16
Potential Impacts and Mitigation Measures 17
SOCIO-ECONOMIC ENVIRONMENT 17
Existing Conditions 17
Potential Impacts and Mitigation Measures 18
INFRASTRUCTURE 18
Existing Conditions 18
Potential Impacts and Mitigation Measures 19
CUMULATIVE AND SECONDARY IMPACTS 20
RELATIONSHIP TO LAND USE PLANS, POLICIES, AND CONTROLS 21
STATE LAND USE DISTRICTS 21

MAUI COUNTY GENERAL PLAN 21
PAIA – HAIKU COMMUNITY PLAN 24
COUNTY ZONING 26
COSTAL ZONE MANAGEMENT AREA OBJECTIVES AND POLICIES 26
Recreational Resources 26
Historic Resources Objective 29
Scenic and Open Space Resources 30
Coastal Ecosystems 31
Economic Uses 32
Coastal Hazards 33
Managing Development 34
Public Participation 35
Beach Protection Objective 36
Marine Resources Objective 37
COMPLIANCE WITH THE STATE OF HAWAII'S DRINKING WATER STATE REVOLVING FUND PROGRAM 38
CROSS-CUTTING FEDERAL AUTHORITIES 38
Archaeological and Historic Preservation Act (16 USC 461) and National Historic Preservation Act (16 USC 470) 39
Clean Air Act (42 USC 7401) 39
Coastal Barriers Resources Act (16 USC 3501) 39
Coastal Zone Management Act (16 USC 1451) 40
Endangered Species Act (16 USC 1531) 40
Environmental Justice (Executive Order 12898) 41
Farmland Protection Policy Act (7 USC 4201) 41
Fish and Wildlife Coordination Act (16 USC 661) 42
Floodplain Management (Executive Order 11988, As Amended By Executive Order 12148) 43
National Historic Preservation Act (16 USC 470) 43
Protection of Wetlands (Executive Order 11990, As Amended by Executive Order 12608) 44
Safe Drinking Water Act (42 USC 330f) 44
Wild and Scenic Rivers Act (16 USC 1271) 45
Essential Fish Habitat Consultation Process Under the Magnuson-Stevens Fishery Conservation and Management Act (16 USC 1801) 45
SUMMARY OF ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED 45
ALTERNATIVES TO THE PROPOSED ACTION 47
PREFERRED ALTERNATIVE 47
NO ACTION ALTERNATIVE 47
OTHER ALTERNATIVES 47
IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES 49
SIGNIFICANCE CRITERIA ASSESSMENT 50
Involves an irrevocable commitment or loss of destruction of any natural or cultural resource 50
Curtails the range of beneficial uses of the environment 50

Conflicts with the State's long-term environmental policies of goals and guidelines as expressed in Chapter 344, HRS, and any revisions thereof and amendments thereto, court decisions, or executive orders 51
Substantially affects the economic welfare, social welfare, and cultural practices of the community of State 51
Substantially affects public health. 51
Involves substantial secondary impacts, such as population changes or effects on public facilities 52
Involves a substantial degradation of environmental quality 52
Is individually limited but cumulatively has considerable effect upon the environment of involves a commitment for larger actions 52
Detrimentally affects air or water quality or ambient noise levels 52
Affects or is likely to suffer damage by being locate 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 53
Substantially affects scenic vistas and view planes identified in county or state plans or studies 53
Requires substantial energy consumption 54
LIST OF PERMITS AND APPROVALS 55
AGENCIES AND ORGANIZATIONS CONSULTED DURING THE PREPARATION OF THE DRAFT ENVIRONMENTAL ASSESSMENT 56
EXHIBITS 58
APPENDICES 59
APPENDIX A 60

LOWER PAIA TANK REPLACEMENT

DRAFT ENVIRONMENTAL ASSESSMENT

PAIA, 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 Public Land and Funds.

Location: TMK: (2) 2-5-005:058

Accepting Authority: Department of Water Supply
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Project Summary: The County of Maui, Department of Water Supply (DWS) proposes to construct a new 300,000 gallon glass lined steel water tank within the fenced site of

the existing 100,000 gallon glass lined steel Lower Paia water tank (TK32.) The existing tank will be removed. The increased capacity, combined with the 300,000 gallon Paia Tank (TK33) will provide a combined volume of 600,000 gallons. The new tank will be constructed of glass lined steel. The dimensions of the new tank will be nearly the same height as the existing tank of 19.26-feet (plus an additional 7367-feet for the domed roof) and a diameter of 53.15-feet. The tank will be located at nearly the same location as the existing tank. Site improvements, such as grading and paving, will be minimal.

INTRODUCTION

PROJECT OVERVIEW

The project is located on Baldwin Avenue, across from the Skill Village subdivision and the Paia Gym. The Maui County Department of Water Supply (DWS) is proposing removal of the existing 100,000 gallon Lower Paia water and replacing it with a new 300,000 water tank. The exiting site has and area of 0.397 acres. The Tax Map Key (TMK) is (2) 2-5-005:058.

The existing 100,000 gallon tank is a glass lined steel tank. It is approximately 25-years old. The bottom elevation of the existing tank is 267-feet. Also located on the site are a pump station, pressure regulating valve, a concrete slap where an engine generator was, and a motor control center. None of these items will be replaced. However some improvements may be required.

To make room for the new tank, a temporary tank will be constructed and then removed after the new tank is put on-line. Electrical control will be similar to what is being used now. 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 time line for the project will be 9 months to a year.

The estimated cost of the proposed project is $700,000.

PURPOSE OF THE ENVIRONMENTAL ASSESSMENT

Hawaii Revised Statutes (HRS) section 343-5 requires an Environmental Assessment when a project will "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.

PURPOSE AND NEED FOR THE PROJECT

The purpose of this project is to improve the current capacity of the Paia water system. The existing 100,000 gallon tank does not provide the capacity for domestic and fire flow. Together with the Paia Tank (TK33) a total of 600,000 thousand gallons of capacity will be available.

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

LAND USE

Existing Conditions

The project is located in an agricultural area south-east of Paia on Baldwin Avenue. The property has an area of 0.397 acre and is owned by Maui County. The property is surrounded by an agricultural property on its north, east, and south sides. The west side of the property is bounded by Baldwin Avenue, with the Skill Village subdivision and Paia Gym on the west side of Baldwin Avenue.

The current land use designations are:

State Land Use: Agriculture

Paia-Haiku Community Plan: Single Family Residential

County Zone: Interim

Other: Located outside of the Special Management Areas.

Potential Impacts and Mitigation Measures

The proposed action involves removing an existing water storage tank and construction a new one in virtually the same place. The diameter of the new tank

is 22.38-feet larger than the existing tank; however, it will have the same height. It will be located on the site such that grading will be minimized while providing adequate access around the tank. With the construction of a new tank at the location of the existing tank in an area surrounded by agricultural use, it is not anticipated to have an adverse effect on nearby land uses.

CLIMATE, TOPOGRAPHY, AND SOILS

Like most areas of Hawaii, Maui's climate is relatively uniform year-round. The coolest months on Maui are December and January. The hottest and more humid months are August and September. The region's tropical latitude, its position relative to storm tracks, 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 (F) in February to 80 degrees in August. Rainfall averages approximately 20 inches per year. Winds predominantly blow north to northeast.

Elevation at the project site is approximately 267-feet. Prior to construction of the existing tank, the property sloped toward Paia at approximately 6-percent. To develop the site, removal of earth was required. Thus in the vicinity of the tank and 14-feet around the tank, the site is virtually flat. The cut slopes have a maximum slope of 50%, 2 horizontal to 1 vertical.

According to information published by the U.S Soils Conservation Service, the area soils belong to the Paia Silty Clay series. The Paia series formed from weathered basic igneous rock and some volcanic ash. The soil is well drained with slow to medium runoff and moderate permeability. The Paia series is naturally high in plant nutrients and is mildly alkaline.

Potential Impacts and Mitigation Measures

The proposed project will not have any adverse impacts on microclimates. Grading will be kept to a minimum. Less than 500 cubic yards of material will be removed. The topographic character of the site will not be substantially altered nor will there be any change is soil composition.

FLOOD AND TSUNAMI HAZARDS

Existing Conditions

The National Flood Insurance Program prints Flood Insurance Rate Maps (FIRMS) showing areas of flooding. The property is located within panel 1500030408E, revised September 25, 2009. The area is mapped in Flood Zone X, an area determined to be outside the 0.2% annual chance flood plain. Also, the elevation keeps the site safe of tsunamis.

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. No adverse impact to flood conditions is anticipated.

FLORA AND FAUNA

Exiting Conditions

Due to the agricultural and residential nature of the surrounding areas, animal life in the vicinity consists of domesticated and stray dogs and cats. Wild life consists of mongooses and occasional deer.

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 grass species and weeds. There are no known rare or endangered flora species in the project vicinity.

Potential Impacts and Mitigation Measures

The project will not impact flora and fauna in the vicinity.

STREAMS AND WETLANDS

Existing Conditions

According to the United States Department of the Interior, Fish and Wildlife Service, National Wetland Inventory Map, there are a couple of wetland features in the vicinity of the project site. They are classified as Fresh Water Ponds.

Potential Impacts and Mitigation Measures

The size and scope of the project will not affect any of the surrounding wetland features. All drainage will be captured and conveyed in its current patterns. Any increase to runoff created from the increased impervious area will be conveyed in the existing piping to the existing storm drainage system in Baldwin Avenue.

HISTORIC AND ARCHAEOLOGICAL RESOURCES

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.

Potential Impacts and Mitigation Measures

No impact to archaeological resources is anticipated. However, in the event anything of cultural and/or historic significance is found during construction, all work will cease and the appropriate authorities will be contacted for determination of appropriate mitigation.

CULTURAL RESOURCES

Existing Conditions

Current tax maps shows that this area was deeded to the Oahu College on January 30, 1860. The same tax map shows a Land Grant Award 11216:27. This LCA is located south-west of Skill Village, and that the south-west boundary of Skill Village is a portion of the boundary of the LCA. An LCA is an indicator of native Hawaiian activities or presence in the mid to later half of the nineteenth century. There are no trails, streams, caves, native plants, or other cultural resources on the site.

Potential Impacts and Mitigation Measures

No impact of cultural resources is anticipated as a result of the proposed project. The site has been under control of the Department of Water Supply for at least

25 years when the existing tank was built and will stay under control of the Department.

SCENIC AND OPEN SPACE RESOURCES

Existing Conditions

The existing tank is located approximately 1.33 miles south-east of the center of Paia on Baldwin Avenue. The site is surrounded by vacant agricultural lands on 3 sides and Baldwin Avenue on the west. The Skill Village subdivision is on the west side of Baldwin Avenue. The proposed tank will be the same height as the existing tank and only 22.38-feet larger in diameter. The existing views will remain the same for the residences in Skill Village and the view from Baldwin Avenue will remain since a person would be in a moving vehicle.

Potential Impact and Mitigation Measures

The new tank will not affect the scenic character of the region. As mentioned before, the height will be the same as the existing tank and the width will be slightly increased.

PUBLIC SERVICES

Existing Conditions

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

Fire protection services 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 Paia Fire Station located at 179 Hana Highway, in Paia.

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 twice 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 of at the County landfill.

The main recreation facility found in the vicinity is the Pacific Ocean. Baldwin Beach and Hookipa Beach provide excellent recreational opportunities.

The site is located within the State of Hawaii, Department of Education schools Kekaulike complex. Schools within this complex are Haiku Elementary, Kalama Intermediate, Kekaulike High, Kula Elementary, Makawao Elementary, Paia Elementary, and Pukalani Elementary. There are also various private schools in the area.

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

Potential Impacts and Mitigation Measures

The proposal will not impact public services. The proposed use will be the same as the existing.

SOCIO-ECONOMIC ENVIRONMENT

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 117,644 to 129,471; and projects a population of 135,838 in 2010, and 176,687 in 2030. In the Paia-Haiku Community Plan area, the population and population estimates are 11,866 in the year 2000, 12,210 in 2005, 12,128 in 2010, and 13,151 in 2030. (Draft Maui Island Plan, December 2009).

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.

INFRASTRUCTURE

Existing Conditions

The project is accessed from Baldwin Avenue, a two-lane, two way State road way. The speed limit on Baldwin Avenue is 30 miles per hour and 20 miles per hour during school hours.

A sanitary sewer line extends up Baldwin Avenue from Paia to the Skill Village subdivision. However, the line does not front the site. Wastewater generating facilities do not exist on the project site.

The existing 100,000 gallon tank serves Paia excluding Skill Village, east to Hookipa Park, and west to Baldwin Park. The new tank will replace the existing tank and serve the same area.

The existing drainage pattern from the site includes an interceptor ditch on the south side of the parcel that conveys offsite runoff around the tank. The tank and paved access drainage is captured in a concrete swale surrounding the access road. This water is conveyed to a catch basin on site and then piped to the existing storm line in Baldwin Avenue. This drainage concept will be maintained and modified as needed to accommodate the larger tank.

Electrical service is provided by Maui Electric Company. There is no telephone service on site.

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. There will not be any increase in traffic due to this project.

The proposed water tank will enhance the existing water system by increasing the water available for domestic and fire flow. Also on site are booster pumps

that lift water up to the Upper Paia Tank. The proposal will reduce the cycle time for these pumps.

The proposed action will not have a negative impact on the waste water system since wastewater service is not available on site and that there will not be wastewater generated on site.

The increase of runoff to the Baldwin Avenue drainage system will be negligible. The runoff to the adjacent property will remain the same.

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 of 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.

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

RELATIONSHIP TO LAND USE PLANS, POLICIES, AND CONTROLS

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 site is located in the Agricultural district. Water tanks are permitted in Agricultural districts.

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, 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 consistent 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:

Improve the quality and availability of public facilities throughout Maui County.

Policy:

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:

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

PAIA – HAIKU 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 Paia – Haiku Community Plan region.

The Community plan in which the site is located currently designates the site as Agricultural. The proposed project is permitted in this designation and is consistent with the current use.

Applicable goals, objects, and actions for water in the Paia – Haiku Community Plan are:

Goal:

1. Increase water storage capacity with a reserve for drought periods.
2. Ensure that adequate water capacity is available for domestic and agricultural needs of the region.
3. Ensure that the development of new water sources does not adversely affect in-stream flows.
4. Continue the conversion to drip irrigation in sugar cane fields, provided that the practice complies with soil conservation standards.
5. Improve the existing potable water distribution system and develop new potable water sources prior to further expansion of the State Urban District Boundary or major subdivision of land in the State Agricultural or Rural Districts.
6. Ensure adequate supply of groundwater to residents of the region before water is transported to other regions of the island.

Implementing Actions

1. Prepare or update a water improvement master plan for the Paia - Haiku region to be incorporated as a functional component of the Community Plan.
2. Update the County's Water Use and Development Plan and estimated water use for the Paia – Haiku region based on the adopted Community Plan. And include a reserve capacity for drought conditions.

3. Develop a comprehensive agricultural water system, including the use of recycled water and a dual water system for domestic and irrigation uses.
4. Provide incentives for water conservation practices.

COUNTY ZONING

The site is zoned Agricultural by the County. The proposed tank use is permitted in this zone.

COSTAL ZONE MANAGEMENT AREA OBJECTIVES AND POLICIES

Pursuant to Chapter 205A, Hawaii Revised Statutes, projects are evaluated with respect to Costal Zone Management (CMZ) 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.

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) Protection coastal resources uniquely suited for recreational activities that cannot be provided in other area;

(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 shore lines 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.

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 of 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/DNLR) will be contacted.

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.

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 preactices 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.

Economic Uses

Objective:

Provide 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 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.

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.

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 confliction 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.

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.

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.

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 proposal will not have an adverse impact on coastal marine resources.

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

This project will 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.

CROSS-CUTTING FEDERAL AUTHORITIES

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

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 (ES) will be provided to the Department of Land and Natural Resources, State Historic Preservation Division for review and comment.

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 the construction activities. There are no long-term impacts associated with the operation of the proposed 300,000-gallon Lower Paia Tank.

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 one and one-third miles inland from the coastline and is not anticipated to adversely impact coastal resources.

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.

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.

Environmental Justice (Executive Order 12898)

Executive Order 12898 call 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.

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 fences site for the existing tank of less than half an acre in 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.

Fish and Wildlife Coordination Act (16 USC 661)

The Fish and Wildlife Coordination Act, as amended, authorizes the Secretaries of Agriculture and Commerce of 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.

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.

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 ore encountered, work will

stop in the immediate vicinity and the State Historic Preservation Division (SHPD/DLNR) will be contacted. **OR WAS IT?**

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.

Safe Drinking Water Act (42 USC 330f)

The Safe Drinking Water 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 previously discussed, the purpose of the new water storage tank is to provide adequate water for both domestic and fire flow purposes. The proposed improvements will be implemented in accordance with Federal water quality standards.

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, at this time, this act does not apply to the State of Hawaii.

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 one and a half miles inland form the coastline and is not anticipated to adversely impact any essential fish habitat situated near the coastline.

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 proposed storage tank will redevelop an existing tank site. The commitment of fuel, labor, funding, and material resources will be justified given the benefits.

In the long term, the construction of the new water tank will not result in any long term adverse environmental effects that would not have occurred by leaving the existing tank.

ALTERNATIVES TO THE PROPOSED ACTION

A variety of alternatives were looked at. These alternatives were to construct larger tanks, or a pair of smaller tanks.

PREFERRED ALTERNATIVE

The preferred alternative is to construct a temporary tank, remove the existing 100,000 gallon tank and constructing the 300,000 tank in nearly the same location as the existing tank. The width of the proposed footprint will be less than 25-feet larger than the existing however it will fit on the site without problems.

NO ACTION ALTERNATIVE

The existing tank is approximately 25 years old and is showing signs of corrosion. The tank would eventually fail, creating the need for a new tank. Also, and of more immediate concern, is that the existing water system would continue to be inadequate for current needs.

OTHER ALTERNATIVES

Other alternatives included (1) constructing a permanent 100,000 gallon tank, removing the existing 100,000 gallon tank and then construction an additional 200,000 tank. This configuration would fit on the site. (2) Constructing a 400,000

gallon tank. This tank would fit on the site and would be constructed in the same manner as the preferred alternative. (3) Constructing a 500,000 gallon tank. This tank would fit on the site provided a couple of retaining walls were constructed to provide access around the tank. It could be constructed in the same manner as the preferred alternative.

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. These commitments, however, are also considered appropriate in the context of significantly improving the adequacy of the Paia water system.

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.

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

There are no known archaeological features on the project site. In accordance with Section 6E43.6, HRS and Chapter 13-300, Hawaii Administrative Rules, if any significant cultural deposits of human skeletal remains are encountered, work will stop in the immediate vicinity and the SHPD will be contacted.

The project entails the use of less than 0.5 acre of land that is currently being use for a water storage tank.

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, where would be no consequent curtailment of the range of beneficial uses of the environment.

Conflicts with the State's long-term environmental policies of 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.

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

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

Substantially affects public health.

No adverse impact to public health is anticipated. The tank will be operated as the current tank is.

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

There will be no adverse effect on public services.

Involves a substantial degradation of environmental quality.

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

Is individually limited but cumulatively has considerable effect upon the environment of 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. BMPs will be used to minimize and avoid environmental impacts.

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. The site is fenced. Thus there should be no impact to wildlife.

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 from construction equipment.

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 Chapter 46 rules. No long-term air or water quality or ambient noise level impacts are anticipated.

Affects or is likely to suffer damage by being locate 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 site is not located in any environmentally sensitive area, near wetlands, or in a flood / tsunami inundation area. No other environment effects to environmentally sensitive areas are anticipated.

Substantially affects scenic vistas and view planes identified in county or state plans or studies.

The new tank will be placed in nearly the same location as the existing tank. It will be the same height and less than 25-feet wider. It will not impinge on view corridors or adversely impact the visual character of the project area.

Requires substantial energy consumption.

Once the tank is constructed, no additional energy will be required over what is currently used.

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).

LIST OF PERMITS AND APPROVALS

The proposal will require the following governmental approvals.

County of Maui:

1. Grading permit
2. Building permit

State of Hawaii:

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

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 Environmental Assessment. Agency comments and responses to substantive comments are included in Appendix A.

1. State of Hawaii
   Office of Hawaiian Affairs
   Clude W. Nāmuʻo, CEO
   711 Kapiʻolani Boulevard, Suite 500
   Honolulu, HI 96813

2. Maui Electric Company, Ltd.
   Kyle Tamori, Staff Engineer
   210 West Kamehameha Avenue
   P. O. Box 398
   Kahului, Maui, HI 96733-6898
   808-871-8461

3. Department of Transportation
   Don Medeiros, Director
   200 South High Street
   Wailuku, HI 96793-2155
   808-270-7511

4. Department of Public Works
   Milton M. Arakawa, A.I.C.P.
   200 South High Street
   Wailuku, HI 96793
   808-270-7845

5. County of Maui Police Department
   Gary A. Yabuta, Chief of Police
   55 Mahalani Street
   Wailuku, HI 96793
   808-244-6411

6. Fire Prevention Bureau
   Paul Haake, Captain
   313 Manea Place
   Wailuku, HI 96793
   808-244-9061

7. Office of Environmental Quality Control
   Department of Health
   235 South Beretania Street
   Liopapa A Kamehameha
   Suite 702
   Honolulu HI 96813
   808-586-4185

8. Department of Planning
   Kathleen Ross Aoki, Director
   250 South High Street
   Wailuku, HI 96793
   808-270-7634

9. Department of Health
   Stuart Yamada, P. E., Chief
   P. O. Box 3378
   Honolulu, HI 96801-3378
   808-586-4258

10. Department of Environmental Management
    Cheryl K Okuma, Director
    2200 Main Street, Suite 100
    Wailuku, Maui, HI 96793

11. State of Hawaii Department of Health
    Patti Kitkowski
    54 High Street
    Wailuku, Maui, Hawaii 96793

EXHIBITS

Exhibit 1 . . . . . Vicinity Map

Exhibit 2 . . . . . TMK Map

Exhibit 3 . . . . . Flood Rate Insurance Map

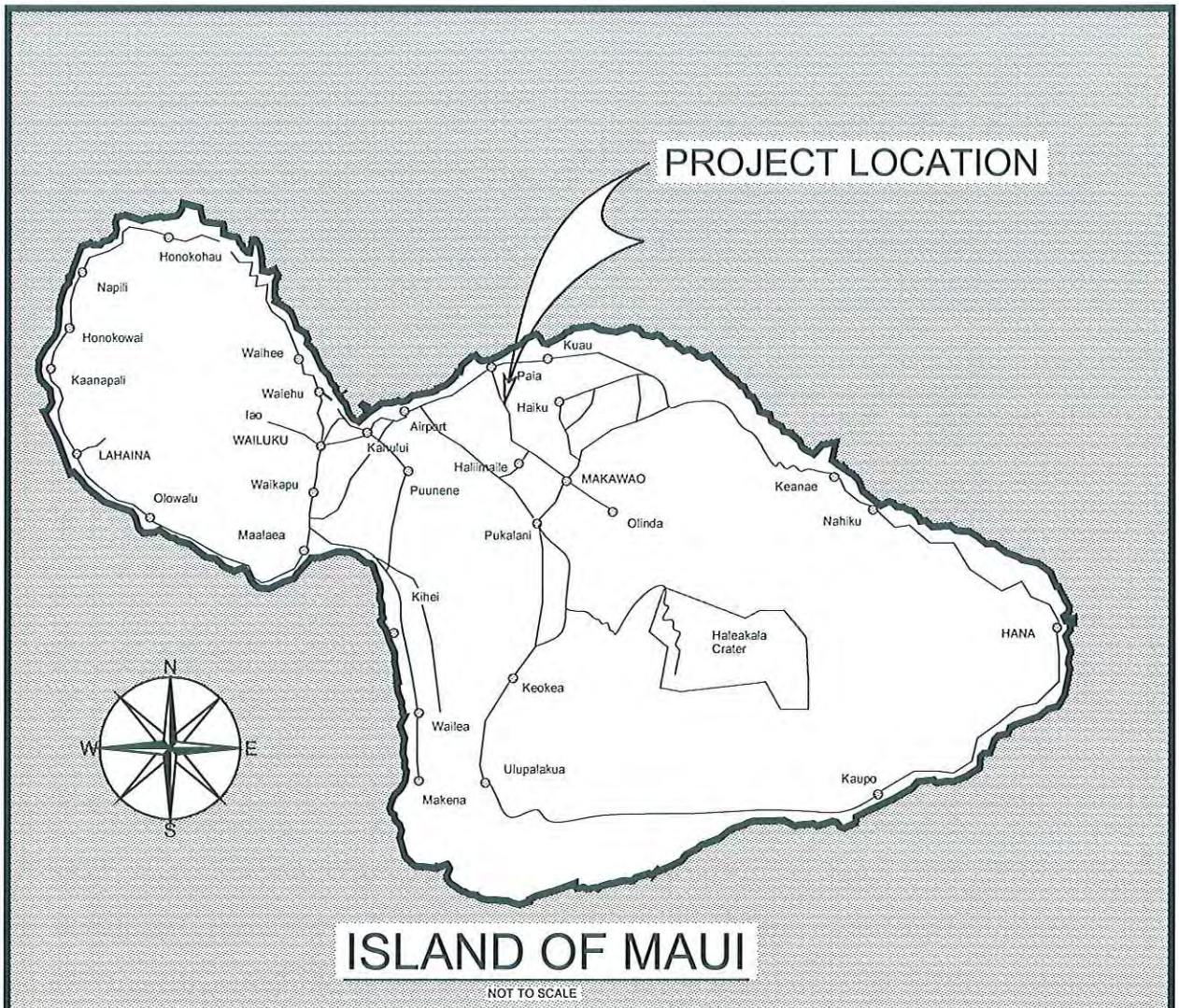
Exhibit 4 . . . . . Flood Zone Map

Exhibit 5 . . . . . Soil Map

Exhibit 6 . . . . . Wetland Inventory

Exhibit 7 . . . . . Wetland Aerial Photo

Exhibit 8 . . . . . Sewer Service Map



ISLAND OF MAUI

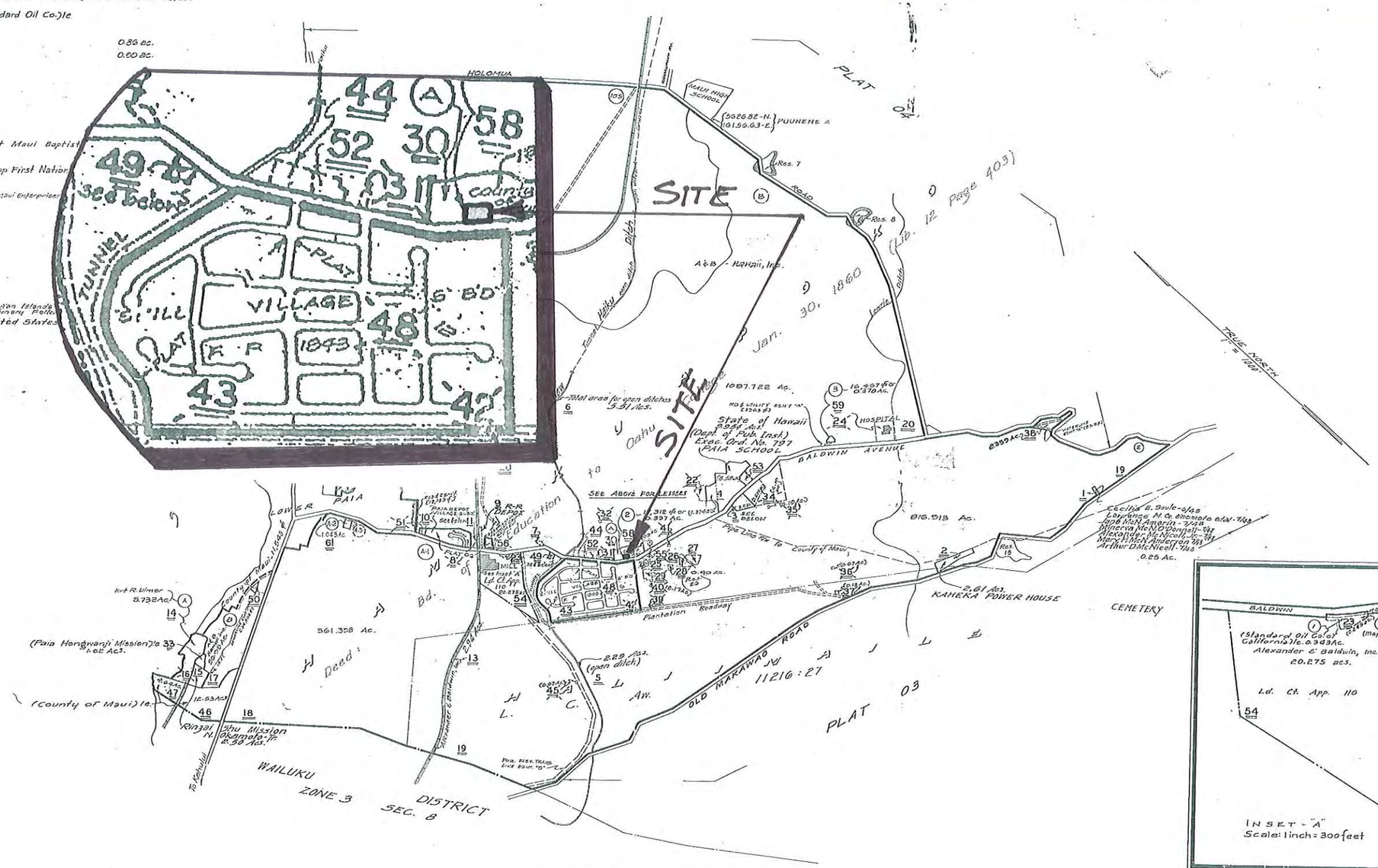
NOT TO SCALE

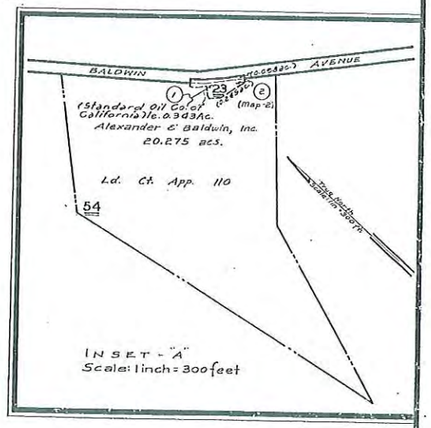
DEPARTMENT OF WATER SUPPLY COUNTY OF MAUI LOWER PAIA WATER TANK REPLACEMENT PAIA, MAUI, HAWAII	VICINITY MAP

Exhibit 1 Vicinity Map

All parcels listed below owned by Alexander & Baldwin, Inc. & leased, unless otherwise noted.

23 (Standard Oil Co.) le
26 0.86 ac.
27 0.00 ac.
44 (East Maui Baptist
7 (Bishop First Nation
9 (West Maui Enterprises
30
52 (Hawaiian Islands Missionary Fdtn.
53 (United States





3 Roman Catholic Church in the State of Hawaii - 2.00 Acs.
11 Alexander & Baldwin, Inc. - 0.51 ac.
49 Hawn. Telephone Co. - 6,037 ft or 0.198 ac.

Parcels dropped: 35, 45, 8, 10, 51, 50, 37, 40, 26, 34, 28, 29, 32, 39, 41, 55, 62, 3, 12, 13, 42, 48

Note: All parcels owned by Alexander & Baldwin, Inc. unless otherwise noted.

ADVANCE SHEET SUBJECT TO CHANGE

TAXATION MAPS BUREAU
TERRITORY OF HAWAII
TAX MAP

SECOND DIVISION		
ZONE	SEC.	PLAT
2	5	05

CONTAINING PARCELS
SCALE: 1 in. = 1000 ft.

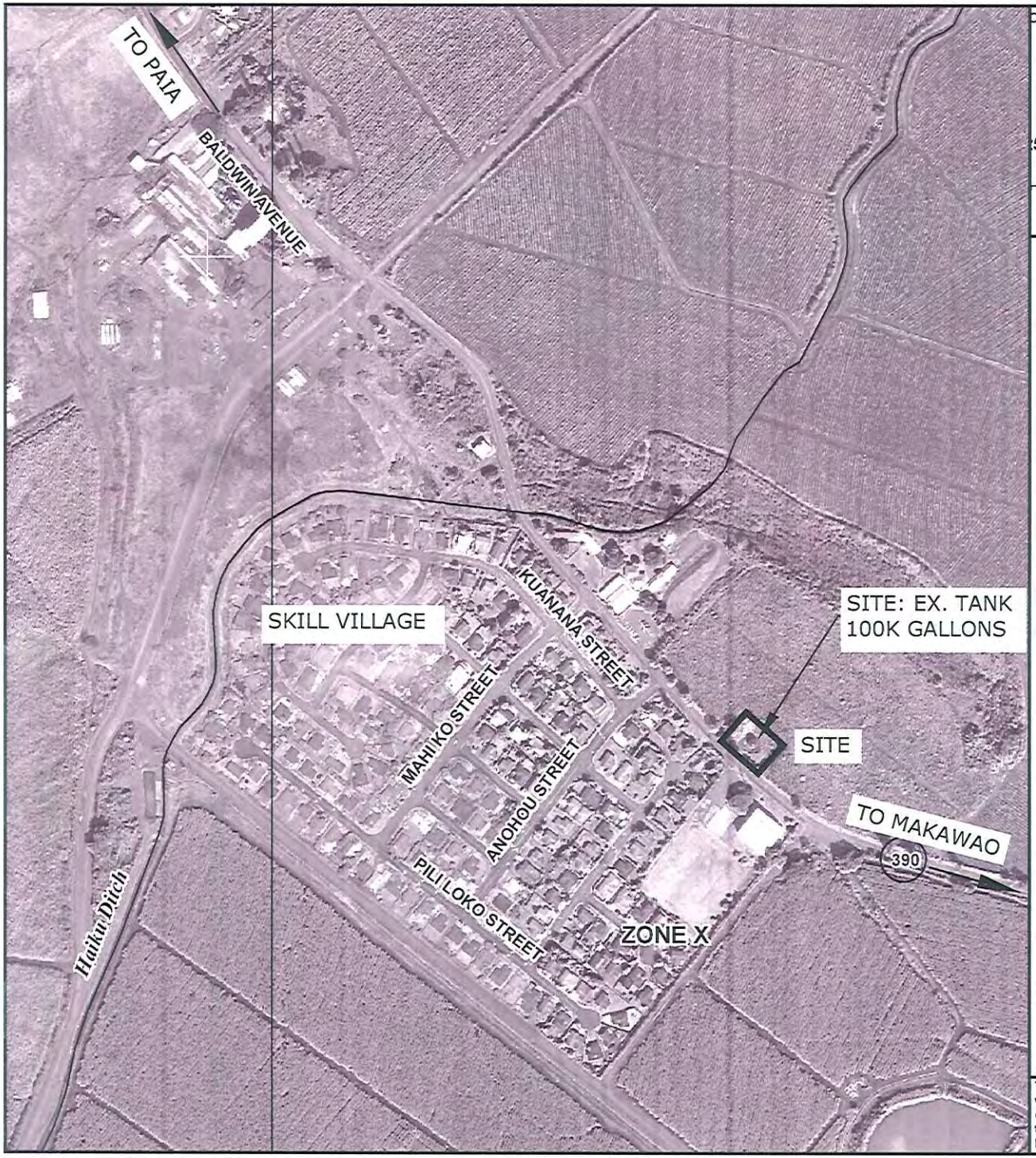
Dwg. No.: 5821
Source: Tax Maps Bureau
By: D.S.C. on 11 May 1979

POR. HAMAKUAPOKO, MAKAWAO MAUI

60

LOWER PAIA WATER TANK REPLACEMENT. TMK MAP

Exhibit 2 TMK Map



od Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

50 0 500 1000 FEET

METER

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0408E

FIRM

FLOOD INSURANCE RATE MAP

MAUI COUNTY,
HAWAII

PANEL 408 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MAUI COUNTY	150003	0408	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
1500030408E

MAP REVISED
SEPTEMBER 25, 2009

Federal Emergency Management Agency

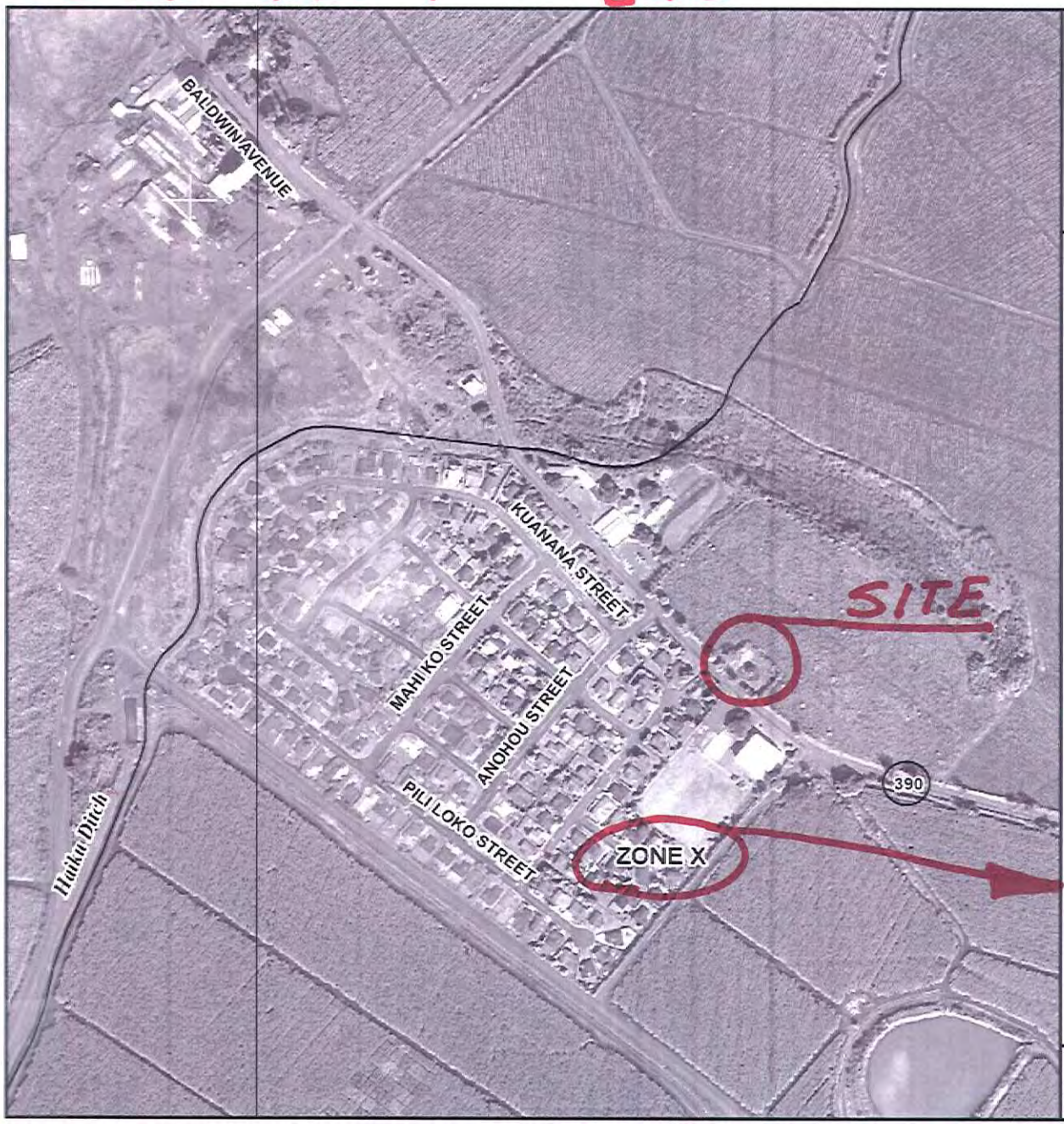
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

FLOOD RATE INSURANCE MAP

LOWER PAIA WATER TANK REPLACEMENT

Exhibit 3 Flood Rate Insurance Map

LOWER PAIA TANK FLOOD ZONE



MAP NUMBER
1500030408E

MAP REVISED

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

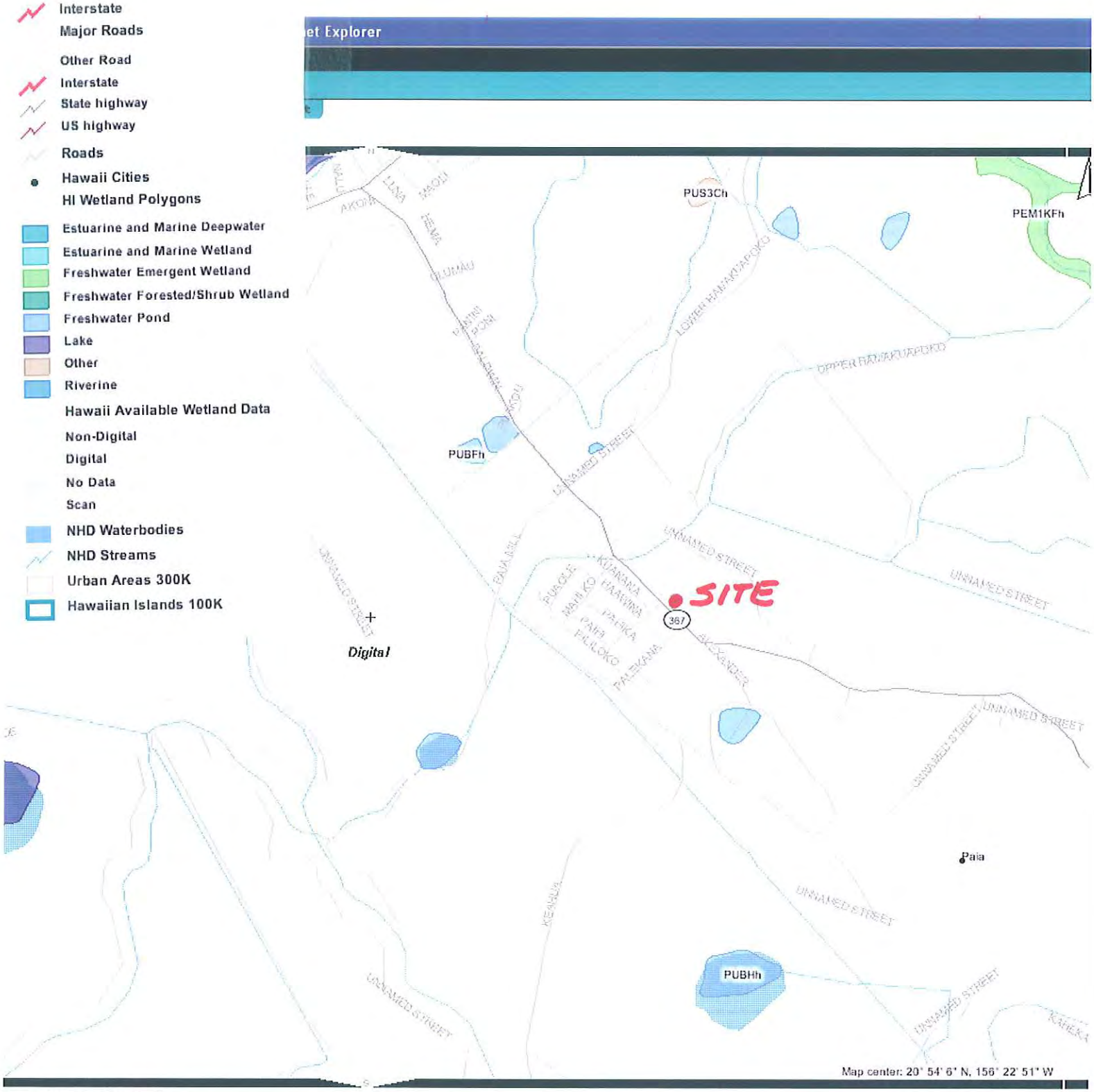
Exhibit 4 Flood Zone Map

PAIA TANK SITE
Soils MAP.
SITE Soils PcB
PAIA SILTY CLAY
3-7% SLOPES

63

Map Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Hawaii Cities
- HI Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Hawaii Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Waterbodies
- NHD Streams
- Urban Areas 300K
- Hawaiian Islands 100K



Layer: **Wetland Polygons**

:622648

d Wildlife ... | Wetlands Mapper - Mi... | http://wetlandsfws.e... | Windows

PAIA TANK WETLANDS

Exhibit 6 Wetland Inventory

paia hawaii

LOWER
PAIA TANK
WETLAND INVENTORY

FRESH WATER PONDS
(TYPICAL)

LAKE

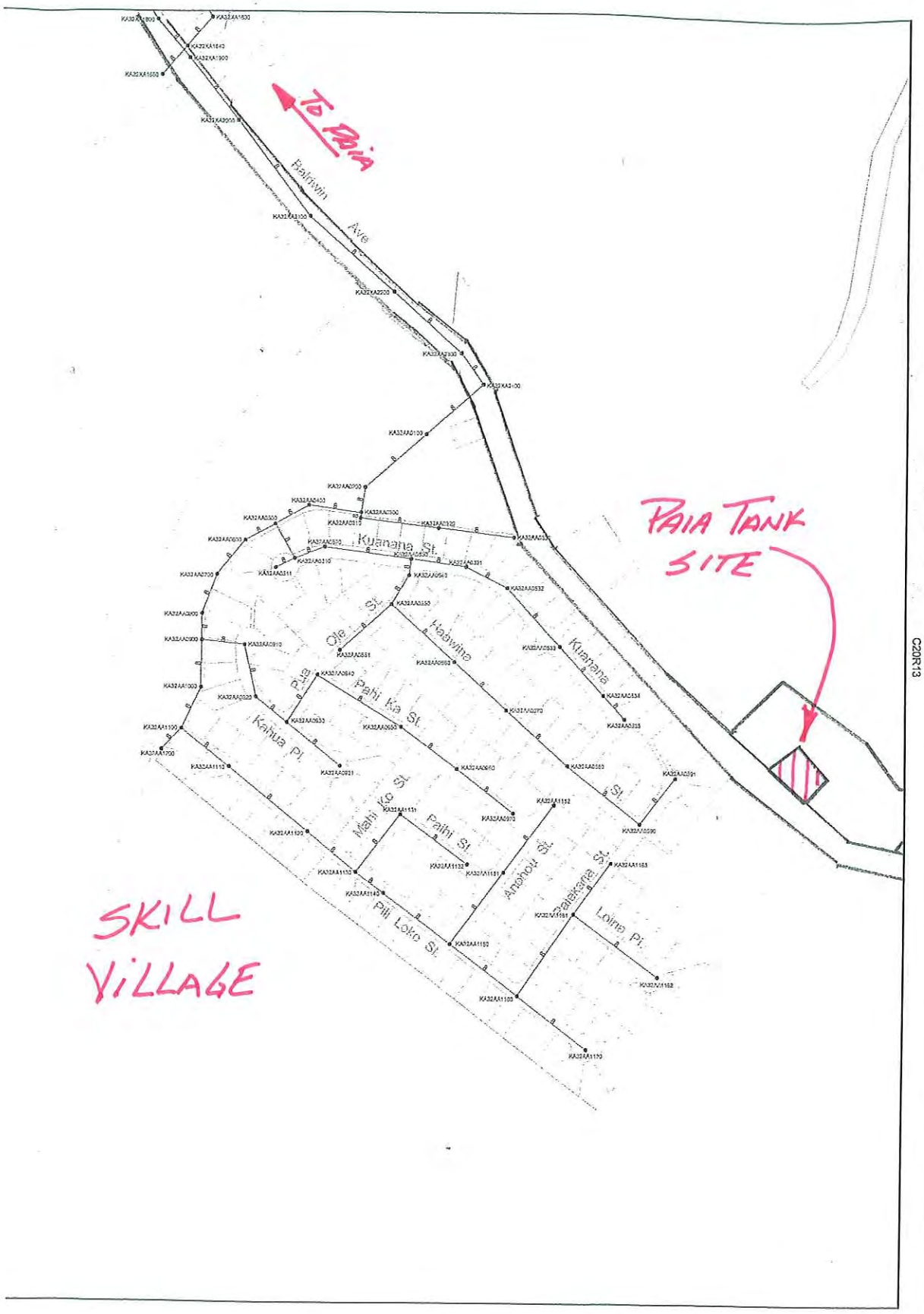
65

Google Earth:Directions

8/3/2010

Exhibit 7 Wetland Aerial Photo

SEWER SERVICE MAP

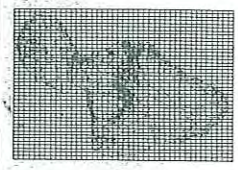


County of Maui
Department of Public Works and Waste Management

Sewer System Inventory and Problem Assessment

LEGEND:

- Existing Parcels
- Existing Sewer Manhole
- Existing Sewer Line
- Existing Sewer Force Main
- KA20KA3100 Manhole ID Number



Island of Maui

200 0 200 Feet

PANEL C19R13
Kahului-Wailuku
Maui

FUKUNAGA & ASSOCIATES, INC.
Consulting Engineers
1388 Kapiolani Boulevard Honolulu, Hawaii 96814

66

Exhibit 8 Sewer Service Map

APPENDICES

APPENDIX A

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

09.22.10
0910050

RECEIVED
2010 SEP 21 PM 9:08
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

PHONE (808) 594-1888

FAX (808) 594-1865

STATE OF HAWAI'I
OFFICE OF HAWAIIAN AFFAIRS
711 KAPI'OLANI BOULEVARD, SUITE 500
HONOLULU, HAWAI'I 96813

HRD10/5242

September 13, 2010

Jeffrey K. Eng, Director
County of Maui-Department of Water Supply
200 South High Street
Wailuku, Hawai'i 96793

RE: Pre-draft Environmental Assessment consultation
Water Storage Tank Replacement
Paia, Island of Maui

Aloha e Jeffrey K. Eng,

The Office of Hawaiian Affairs (OHA) is in receipt of your September 2, 2010 letter initiating consultation ahead of a draft environmental assessment (DEA) for the proposed replacement of an existing 100,000 gallon water storage tank (tank) with a new 300,000 gallon tank.

We have no specific comments at this time. We look forward to the opportunity to review the DEA. Should you have any questions, please contact Keola Lindsey at 594-0244 or keolal@oha.org.

'O wau iho nō me ka 'oia'i'o,

Clyde W. Nāmu'o
Chief Executive Officer

C: Maui Community Resource Coordinator

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

RECEIVED
2010 SEP 14 AM 11: 12
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

09 1410
09EL0023

September 9, 2010

Mr. Jeffrey K. Eng, Director
County of Maui - Department of Water Supply
200 South High Street
Wailuku, Hawaii 96793

Subject: Early Consultation Request for the Proposed Lower Paia Tank Replacement Project and Related Improvements
Baldwin Avenue
Paia, Maui, Hawaii
Tax Map Keys: (2) 2-5-005:058

Dear Mr. Eng,

Thank you for allowing us to comment on the Early Consultation Request for the subject project.

In reviewing our records and the information received, Maui Electric Company has no objections to the subject project at this time.

Should you have any questions or concerns, please call me at 871-2341.

Sincerely,

Kyle Tamori
Staff Engineer

CHARMAINE TAVARES
MAYOR

09 1410
09100034

RECEIVED
2010 SEP 14 AM 11:08
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

DON A. MEDEIROS
Director
WAYNE A. BOTEILHO
Deputy Director
Telephone (808) 270-7511
Facsimile (808) 270-7505

DEPARTMENT OF TRANSPORTATION

COUNTY OF MAUI
200 South High Street
Wailuku, Hawaii, USA 96793-2155

September 9, 2010

RECEIVED
2010 SEP 15 AM 9:30
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

Mr. Jeffrey Eng
County of Maui
Department of Water Supply
200 South High Street
Wailuku, Hawaii 96793

Subject: Proposed Lower Paia Tank Replacement Project

Dear Mr. Eng,

Thank you for the opportunity to comment on this project. We have no comments to make at this time.

Please feel free to contact me if you have any questions.

Sincerely,

Don Medeiros

Don Medeiros
Director

CHARMAINE TAVARES
Mayor

MILTON M. ARAKAWA, A.I.C.P.
Director

MICHAEL M. MIYAMOTO
Deputy Director

Telephone: (808) 270-7845
Fax: (808) 270-7955

09-27-10
0910058

RALPH NAGAMINE, L.S., P.E.
Development Services Administration

CARY YAMASHITA, P.E.
Engineering Division

BRIAN HASHIRO, P.E.
Highways Division

RECEIVED
2010 SEP 27 AM 10: 42
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
200 SOUTH HIGH STREET, ROOM NO. 434
WAILUKU, MAUI, HAWAII 96793

September 23, 2010

Mr. Jeffrey K. Eng, Director
Department of Water Supply
200 South High Street
Wailuku, Maui, Hawaii 96793

Dear Mr. Eng:

SUBJECT: EARLY CONSULTATION REQUEST FOR THE PROPOSED LOWER PAIA TANK REPLACEMENT PROJECT AND RELATED IMPROVEMENTS TMK: (2) 2-5-005:058

We reviewed your early consultation request and have no comments.

Please call Michael Miyamoto at 270-7845 if you have any questions regarding this letter.

Sincerely,

MILTON M. ARAKAWA, A.I.C.P.
Director of Public Works

MMA:MMM:ls
xc: Highways Division
Engineering Division
S:\LUCA\CZM\prop_lower_paia_tank_replace_ec_25005058_ls.wpd

CHARMAINE TAVARES
MAYOR

OUR REFERENCE
YOUR REFERENCE

POLICE DEPARTMENT
COUNTY OF MAUI

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

GARY A. YABUTA
CHIEF OF POLICE

CLAYTON N.Y.W. TOM
DEPUTY CHIEF OF POLICE

09 2010
RECEIVED
2010 SEP 20 AM 10: 57
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

September 16, 2010

MEMORANDUM

TO: JEFFREY K. ENG, DIRECTOR
DEPARTMENT OF WATER SUPPLY

FROM : GARY A. YABUTA, CHIEF OF POLICE

SUBJECT : EARLY CONSULTATION REQUEST FOR THE PROPOSED LOWER PAIA TANK REPLACEMENT PROJECT AND RELATED IMPROVEMENTS
TMK: (2) 2-5-005:058

_x_ No recommendation or comment to offer.

____ Refer to enclosed comments and/or recommendations.

Thank you for giving us the opportunity to comment on this project.

Assistant Chief Danny Matsuura
For: GARY A. YABUTA
Chief of Police

c: Kathleen Ross Aoki, Maui County Planning Department

From: Jeffrey Eng
To: Haake, Paul
CC: Chang, Herb
Date: 9/16/2010 1:08 PM
Subject: Re: Proposed Lower Paia Tank Replacement

Thank you, Paul

>>> Paul Haake 9/16/2010 12:58 PM >>>
Date : September 16, 2010

To : Jeffrey K. Eng
Director, Dept. of Water Supply

Project : Proposed Lower Paia Tank Replacement Project and Related Improvements.
Early Consultation Request
TMK (2) 2-5-005: 058

Dear Jeffrey,

Thank you for allowing our office the opportunity to comment on this proposed project. At this time the Fire Prevention Bureau has no specific comments. If you do encounter any problems with the new installation and foresee a shut down of water supply for fire protection, please notify the fire stations that service that district; in this case Paia and Makawao Fire Stations.

If there are any questions or comments, please feel free to contact me by mail or at 244-9161 ext. 23.

Sincerely,

Paul Haake
Captain, Fire Prevention Bureau
313 Manea Place Wailuku, HI 96793
244-9161 ext. 23
244-1363 fax

CHARMAINE TAVARES
Mayor

JEFFREY K. ENG
Director

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

October 13, 2010

Fire Prevention Bureau
Captain Paul Haake
313 Manea Place
Wailuku, HI 96793

RE: Lower Paia Water Tank Replacement
Pre-Assessment Consultation for Draft Environmental Assessment
DWS Job #09-09 A
TMK: (2) 2-5-005:058

Dear Mr. Haake,

Thank you for your letter dated September 16, 2010, commenting on the proposed action. A note will be placed on the plans that will require the contractor to contact the Bureau if they encounter any problems with the new installation and/or foresee a shut down of water supply for fire protection.

A copy of the DEA will be provided to your office for review and comment. In the meantime, please do not hesitate to call Curt Eaton, P. E., at 808-270-7835.

Sincerely

JEFFREY K. ENG
Director

CE

"By Water All Things Find Life"

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LINDA LINGLE
Governor of Hawai'i

KATHERINE PUANA KEALOHA
Director

091610
091002
RECEIVED
2010 SEP 15 PM 3:25
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

Telephone (808) 586-4185
Facsimile (808) 586-4186
Electronic Mail: oeqc@doh.hawaii.gov

STATE OF HAWAI'I
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

Department of Health
235 South Beretania Street
Leiopapa A Kamehameha, Suite 702
Honolulu, Hawai'i 96813

September 13, 2010

Jeffrey K. Eng, Director
Department of Water Supply
County of Maui
200 South High Street
Wailuku, Hawai'i 96793

Subject: Early Consultation Request for the Proposed Lower Paia Tank Replacement Project and Related Improvements
TMK: (2) 2-5-005:058

Dear Mr. Eng:

Thank you for the early consultation on the environmental assessment for the proposed water storage system. Your September 2, 2010, letter states that Maui County Department of Water Supply will be the determining agency for the proposed project.

Under Section 343-5(b), Hawai'i Revised Statutes, the proposing agency determines whether the document meets the requirements under Chapter 343, HRS. If the proposing agency determines that the draft environmental assessment meets the requirements set forth under the Chapter 11-200, Hawai'i Administrative Rules (HAR), then the proposing agency writes and notifies OEQC of its determination that it anticipates a finding of no significant impact (FONSI) for the proposed project.

Please visit the following website address to review the checklist for draft and final environmental assessments:
http://oeqc.doh.hawaii.gov/Shared%20Documents/Environmental_Assessment_PrepKit/DEA-FEA-Checklist-2010.pdf

The proposing and determining agency also requests publication of the availability of the draft environmental document on the Environmental Notice for public comment. Please visit the OEQC the following website to access the publication calendar which lists the submittal due dates for document publication:
http://oeqc.doh.hawaii.gov/Shared%20Documents/Environmental_Notice/2010_Deadline_Calendar.pdf.

There is also an OEQC publication form which must be completed and accompany the determination agency's letter; please find the OEQC_Publication_Form_2010 on the OEQC website.

If you have any questions, please call Herman Tuiolosega at 586-4185.

Sincerely,

KATHERINE PUANA KEALOHA
Director

CHARMAINE TAVARES
Mayor
KATHLEEN ROSS AOKI
Director
ANN T. CUA
Deputy Director

0310064
092810
RECEIVED
2010 SEP 27 PM 3:55
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

COUNTY OF MAUI

DEPARTMENT OF PLANNING

September 23, 2010

Mr. Jeffrey K. Eng, Director
Department of Water Supply
County of Maui
200 South High Street
Wailuku, Hawaii 96793

Dear Mr. Eng:

SUBJECT: EARLY CONSULTATION IN PREPARATION OF A DRAFT ENVIRONMENTAL ASSESSMENT (EA) FOR THE PROPOSED LOWER PAIA TANK REPLACEMENT PROJECT AND RELATED IMPROVEMENTS, LOCATED AT PAIA, ISLAND OF MAUI, HAWAI'I; TMKS: (2) 2-5-005:058 (RFC 2010/0134)

The Department of Planning (Department) is in receipt of your letter, dated September 2, 2010, requesting comments for the above-referenced project. The Department understands the proposed action includes the following:

- Replace an existing 100,000 gallon water storage tank with a 300,000 gallon water storage tank; and
- Construction of a temporary tank to maintain service during installation of the new 300,000 gallon water storage tank.

Based on the foregoing, the Department provides the following comments in preparation of the Draft EA:

1. The land use designations for TMK: (2) 2-5-005:058 are as follows:

   a. State Land Use - Agricultural
   b. Paia-Haiku Community Plan - Single-Family Residential
   c. County Zoning - Interim
   d. Other - Located outside of the Special Management Area

2. Provide an aerial map of where the project is located;

3. Include photographs of the project area, existing water tank, immediate surrounding area, and if possible, a rendering of how the new tank will look once it is installed;

4. The Draft EA should include a brief discussion of how the proposed project implements the County General Plan as well as the Paia-Haiku Community Plan;

5. Discuss construction activities and timelines for the removal of the existing tank, installation and removal of the temporary tank, and construction of the new tank; and

6. Discuss impacts to the surrounding neighborhood or nearby residences (if any).

Thank you for the opportunity to comment. Please include the Department on the distribution list for the Draft. Should you require further clarification, please contact Staff Planner Danny Dias at danny.dias@mauicounty.gov or at 270-7557.

Sincerely,

CLAYTON I. YOSHIDA, AICP
Planning Program Administrator

for KATHLEEN ROSS AOKI
Planning Director

xc: Danny A. Dias, Staff Planner
Department of Planning, Long Range
Project File
General File

KRA:CIY:DAD:sa
K:\WP_DOCS\PLANNING\RFC\2010\0134_DWS Tank Replacement\PreConcultation.doc

CHARMAINE TAVARES
Mayor

JEFFREY K. ENG
Director

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

October 13, 2010

Department of Planning
Kathleen Ross Aoki, Director
250 South High Street
Wailuku, HI 96793

RE: Lower Paia Water Tank Replacement
Pre-Assessment Consultation for Draft Environmental Assessment
DWS Job #09-09 A
TMK: (2) 2-5-005:058

Dear Ms. Aoki,

Thank you for your letter dated September 23, 2010, commenting on the proposed action. We believe the Draft Environmental Assessment provides all the requested information.

A copy of the DEA will be provided to your office for review and comment. In the meantime, please do not hesitate to call Curt Eaton, P. E., at 808-270-7835.

Sincerely

JEFFREY K. ENG
Director

CE

The Department of Water Supply is an Equal Opportunity provider and employer. To file a complaint of discrimination, write: USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington DC 20250-9410. Or call (202) 720-5964 (voice or TDD)

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LINDA LINGLE
GOVERNOR OF HAWAII

091510
RECEIVED
2010 SEP 14 PM 4:30
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

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

September 10, 2010

Mr. Jeffrey K. Eng, Director
Department of Water Supply
County of Maui
200 South High Street
Wailuku, Hawaii 96793

Dear Mr. Eng:

SUBJECT: EARLY CONSULTATION REQUEST FOR THE PROPOSED LOWER PAIA TANK REPLACEMENT PROJECT AND RELATED IMPROVEMENTS AT TMK (2) 2-5-005:058

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 of.

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. The following statement should be included in the cost information section of the environmental assessment: *This project may be funded by federal funds through the state of Hawaii's Drinking Water State Revolving Fund (DWSRF), which would constitute a federal action, and will require the project to meet all NEPA and Hawaii DWSRF program requirements.*

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

Please refer to the enclosed documents for the specific criteria and crosscutters that are expected to be addressed in the environmental assessment. Written documentation of consultation with the applicable state or federal agency for each environmental crosscutter is required to be included in the environmental assessment. The documentation shall also include the specific crosscutter being addressed.

For additional information please visit the DWSRF website at http://hawaii.gov/health/about/admin/health/environmental/water/sdwb/dwsrf/dwsrf.html.

Should you have any questions, please contact Alain Carey of the Safe Drinking Water Branch, Engineering Section, at (808)586-4258.

Sincerely,

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

AC:slm

Enclosures

(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

DWSRF Environmental Crosscutters

Environmental Authorities	Procedure	Responsible Agency
Archaeological and Historical Preservation Act of 1974, Pub. L. 86-523, as amended	Obtain review for all projects	State Historic Preservation Office
Clean Air Act, Pub. L. 84-159, as amended	Coordinate to assure project conforms with state implementation plan (SIP)	State Department of Health, Clean Air Branch
Coastal Barrier Resources Act, Pub. L. 92-348	Obtain review if project is located on a coastal barrier island	State Coastal Zone Management Agency
Coastal Zone Management Act, Pub. L. 92-583, as amended	Obtain review if project is located in coastal zone	State Coastal Zone Management Agency
Endangered Species Act, Pub. L. 93-205, as amended	Obtain review by U.S. Fish and Wildlife Service for all projects	U.S. Fish and Wildlife Service
Environmental Justice, Executive Order (EO) 12898	Are low income and minority groups affected?	U.S. Environmental Protection Agency
Floodplain Management, Executive Order 11988 as amended by EO 12148	Obtain review if project is located in or affects 100-year flood plain	Federal Emergency Management Agency
Protection of Wetlands, Executive Order 11990	Obtain review if project area contains wetlands	U.S. Army Corps of Engineers
Farmland Protection Policy Act, Pub. L. 97-98	Obtain review if project area contains prime farmland	Natural Resources Conservation Service- State Conservationist
Fish and Wildlife Coordination Act, Pub. L. 85-624, as amended	Obtain review for all projects	U.S. Fish and Wildlife Service
National Historic Preservation Act of 1966, PL 89-665, as amended	Obtain review for all projects	State Historic Preservation Office
Safe Drinking Water Act, Pub. L. 93-523, as amended	Obtain review if project could affect sole source aquifer	State Department of Health, Safe Drinking Water Branch
Wild and Scenic Rivers Act, Pub. L. 90-542, as amended	Obtain review if project is located in area with Wild and Scenic Rivers	National Park Service
Essential Fish Habitat consultation process under the Magnuson-Stevens Fishery Conservation and Management Act	Obtain review if it will affect essential fish habitat	National Marine Fisheries Service (NMFS)

CHARMAINE TAVARES
Mayor

JEFFREY K. ENG
Director

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

October 13, 2010

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

RE: Lower Paia Water Tank Replacement
Pre-Assessment Consultation for Draft Environmental Assessment
DWS Job #09-09 A
TMK: (2) 2-5-005:058

Dear Mr. Yamada,

Thank you for your letter dated September 10, 2010, commenting on the proposed action. We believe the Draft Environmental Assessment provides all the requested information, as well as the specific criteria listed in the "Environmental Assessment Checklist and Certification."

A copy of the DEA will be provided to your office for review and comment. In the meantime, please do not hesitate to call Curt Eaton, P. E., at 808-270-7835.

Sincerely

JEFFREY K. ENG
Director

CE

"By Water All Things Find Life"

The Department of Water Supply is an Equal Opportunity provider and employer. To file a complaint of discrimination, write: USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington DC 20250-9410. Or call (202) 720-5964 (voice or TDD)

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CHARMAINE TAVARES
Mayor

CHERYL K. OKUMA, Esq.
Director

GREGG KRESGE
Deputy Director

10-20-10
1010038

TRACY TAKAMINE, P.E.
Solid Waste Division

DAVID TAYLOR, P.E.
Wastewater Reclamation Division

RECEIVED
2010 OCT 19 PM 4:04
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

COUNTY OF MAUI
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
2200 MAIN STREET, SUITE 100
WAILUKU, MAUI, HAWAII 96793

October 15, 2010

Mr. Jeffrey K. Eng, Director
Department of Water Supply
County of Maui
200 South High Street
Wailuku, Hawaii 96793

Dear Mr. Eng:

SUBJECT: **LOWER PAIA TANK REPLACEMENT**
EARLY CONSULTATION
TMK (2) 2-5-005:058, PAIA

We reviewed the subject application and have the following comments:

1. Solid Waste Division comments:

   a. None.

2. Wastewater Reclamation Division (WWRD) comments:

   a. None.

If you have any questions regarding this memorandum, please contact Gregg Kresge at 270-8230.

Sincerely,

for CHERYL K. OKUMA
Director of Environmental Management

CE

2010007
10 1110

LINDA LINGLE
GOVERNOR OF HAWAII

RECEIVED
2010 OCT -4 PM 3: 47
DEPT. OF WATER SUPPLY
COUNTY OF MAUI

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

LORRIN W. PANG, M. D., M. P. H.
DISTRICT HEALTH OFFICER

STATE OF HAWAII
DEPARTMENT OF HEALTH
MAUI DISTRICT HEALTH OFFICE
54 HIGH STREET
WAILUKU, MAUI, HAWAII 96793-2102

October 4, 2010

Mr. Jeffrey K. Eng
Director
Department of Water Supply
County of Maui
200 South High Street
Wailuku, Hawai`i 96793

Dear Mr. Eng:

Subject: Early Consultation Request for the Proposed Lower Paia Tank Replacement Project and Related Improvements
TMK: (2) 2-5-005:058

Thank you for the opportunity to review this project. We have the following comments:

1. National Pollutant Discharge Elimination System (NPDES) permit coverage may be required for this project. The Clean Water Branch should be contacted at 808 586-4309.

2. The noise created during the construction phase of the project may exceed the maximum allowable levels as set forth in Hawaii Administrative Rules (HAR), Chapter 11-46, "Community Noise Control." A noise permit may be required and should be obtained before the commencement of work.

It is strongly recommended that the Standard Comments found at the Department's website: http://hawaii.gov/health/environmental/env-planning/landuse/landuse.html be reviewed, and any comments specifically applicable to this project should be adhered to.

Should you have any questions, please call me at 808 984-8230.

Sincerely,

Patti Kitkowski

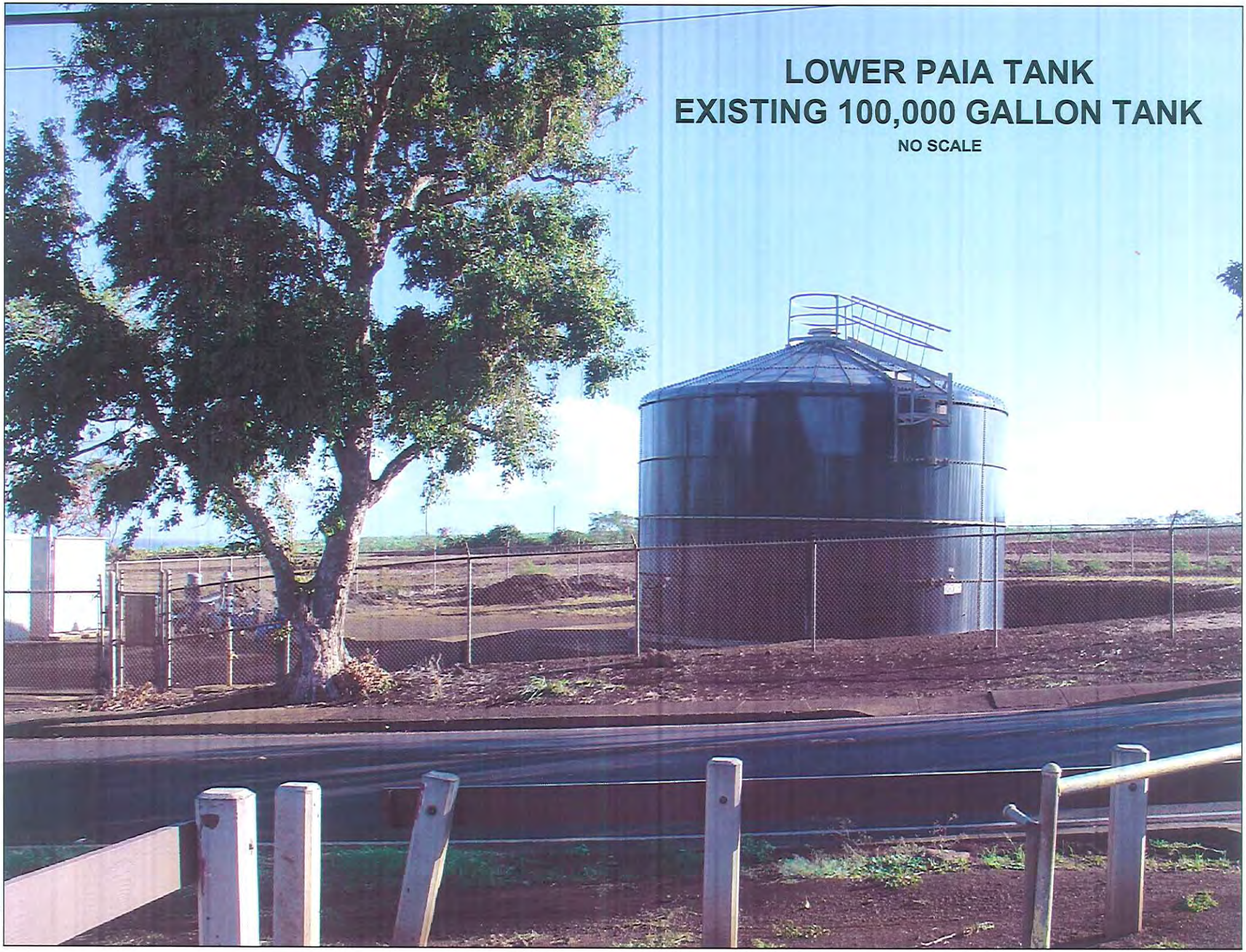
Patti Kitkowski
Acting District Environmental Health Program Chief

c EPO

APPENDIX B

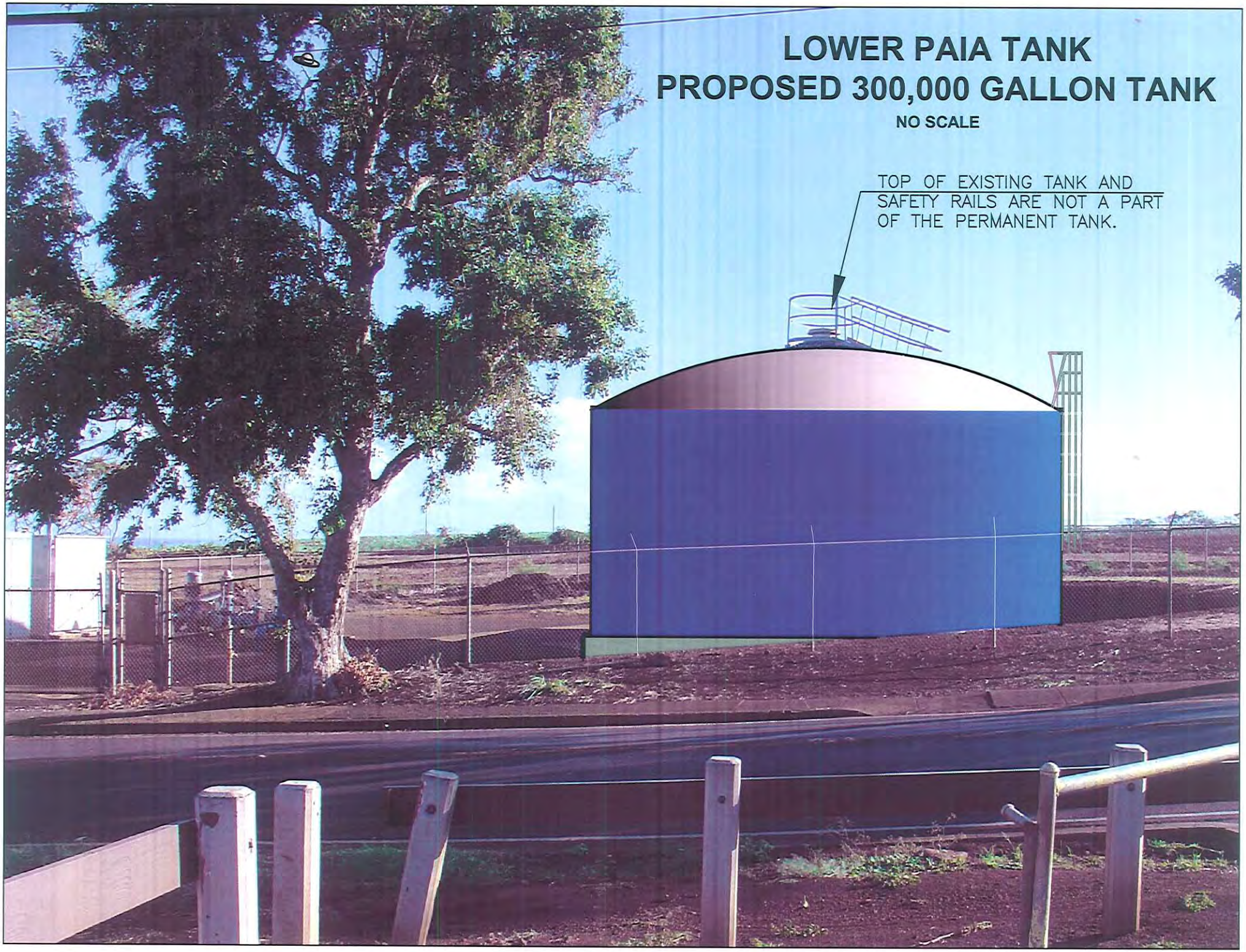
PHOTOGRAPHS

AND RENDERINGS


LOWER PAIA TANK
EXISTING 100,000 GALLON TANK
NO SCALE

LOWER PAIA TANK
PROPOSED TANK OVERLAYED ONTO EXISTING TANK

NO SCALE

LOWER PAIA TANK
PROPOSED 300,000 GALLON TANK

NO SCALE