

DEPARTMENT OF WATER SUPPLY

COUNTY OF MAU

P.C. SCX 1109

RECONNECTO

WAILUKU, MAUI, HAWAII 86783-7108

May 13, 1998

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Mr. Gary Gill, Director
Office of Environmental Quality Control
State of Hawaii
235 South Beretania Street, Room 702
Honolulu, Hawaii 96813-2437

GFC, OF THE COLUMN

Dear Mr. Gill:

Subject: WAIOHULI TANK REPLACEMENT

FINAL ENVIRONMENTAL ASSESSMENT/FINDING OF NO SIGNIFICANT IMPACT Tax Map Key: 2-2-17:portion of 6 Waiohuli, Maui, Hawaii

We are filing the Final Environmental Assessment (EA)/Finding of No Significant Impact (FONSI) for the Waiohuli Tank Replacement project in compliance with Chapter 343, Hawaii Revised Statutes, and Chapter 11-200 Hawaii Administrative Rules, State Department of Health. The County of Maui Department of Water Supply has reviewed the comment letters received during the public review period and has determined that the project qualifies as a FONSI.

Enclosed are four (4) copies of the Final EA/FONSI, a completed OEQC Publication Form and a disk file of the summary project description. We respectfully request that notice of this filing be published in the May 23, 1998. issue of your Environmental Notice.

Please contact me at 243-7816, or Barry Toyota of Wilson Okamoto & Associates, the EA consultant, at 946-2277 if you have any questions.

Thank you for your attention to this matter.

Sincerely,

David R. Craddick

Director

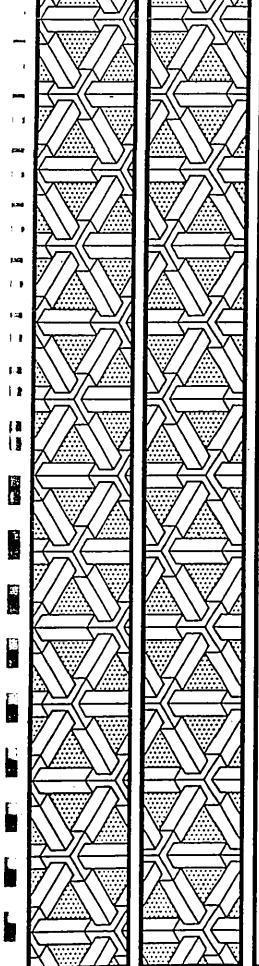
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Enclosures: Final EA/FONSI (4)

Publication Form

Disk file

cc: Barry Toyota, Wilson Okamoto & Associates, Inc. (w/o enclosures)



1998-05-23-MA-FEA-Waiohuli Water Tank

Final Environmental Assessment and Finding of No Significant Impact (FONSI) for Waiohuli Tank Replacement

Waiohuli, Maui, Hawaii

Prepared For:

County of Maui Department of Water Supply

Prepared By:

Wilson Okamoto & Associates, Inc.

May 1998

Final Environmental Assessment and Finding of No Significant Impact (FONSI) for Waiohuli Tank Replacement

Waiohuli, Maui, Hawaii

Prepared For:

County of Maui

Department of Water Supply

200 South High Street Wailuku, Hawaii 96793

Responsible Official:

David R. Craddick

Director

Department of Water Supply

County of Maui

Date

Prepared By:

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Planners & Engineers

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Honolulu, Hawaii 96826

May 1998

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PREFACE

This Final Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) is prepared pursuant to Chapter 343, Hawaii Revised Statutes, and Title 11, Chapter 200, Administrative Rules, State of Hawaii Department of Health, in order to document the environmental effects from the implementation of the proposed water system improvements on privately-owned land in Waiohuli, Island of Maui, Hawaii (Tax Map Key (TMK): 2-2-17: portion of 6). The proposed project is an agency action by the County of Maui, Department of Water Supply. The preparation of the EA arises from the use of county funds for project site acquisition and improvements. The proposed action is not anticipated to generate any significant adverse impacts on the environment.

Subsequent to the November 8, 1994 publication of the Draft EA in the State Office of Environmental Quality Control's (OEQC) Bulletin, the proposed water tank improvements were re-sited to a different location within the same parcel, approximately 360 feet to the south. Since the anticipated environmental impacts are unchanged with the new location, the Final EA and FONSI determination has been filed with the OEQC.

SUMMARY SHEET

Proposing Agency: County of Maui Department of Water Supply

Accepting Agency: County of Maui Department of Water Supply

2-2-17: portion 6 Tax Map Key:

Waiohuli, Maui, Hawaii Location:

Approximately 1.46 acres Affected Area:

(0.6-acre for water tank, 30,000 square feet (0.69-acre) access easement and 7,400 square feet (0.17-acre) utility easement)

The Estate of James Campbell (Fee) Landowner:

James Sakugawa (Lessee)

Pasture Existing Use:

State Land Use

Classification: Agricultural

Community Plan

Designation: Agriculture

Interim County Zoning:

Water system improvements, including a 0.5 MG water storage Proposed Action:

tank and perimeter road, access and utility easements, and

appurtenances.

No significant impacts are anticipated from the construction and Impacts:

operation of the proposed water tank system improvements.

Finding of No Significant Impact (FONSI) Determination:

Agencies Consulted in **Pre-Assessment**

Process:

State of Hawaii

Department of Agriculture

Department of Land and Natural Resources Historic Preservation

Division

County of Maui

Department of Water Supply

Planning Department

Agencies Consulted in Draft EA Process:

Federal

U.S. Department of Agriculture U.S. Army Corps of Engineers

U.S. Department of the Interior Fish and Wildlife Service

State of Hawaii

Department of Agriculture

Department of Business, Economic Development & Tourism Department of Land and Natural Resources Land Division Department of Land and Natural Resources Historic Preservation

Division

Department of Land and Natural Resources Commission on Water

Resource Management Department of Health

Department of Health Environmental Management Division

Department of Transportation

Office of Planning

Department of Hawaiian Home Lands

Office of Hawaiian Affairs

University of Hawaii Water Resources Research Center

University of Hawaii Environmental Center

County of Maui

Department of Water Supply
Planning Department
Department of Public Works & Waste Management
Department of Parks and Recreation
Economic Development Agency
Councilmember Alice L. Lee

I. INTRODUCTION

A. Project Location

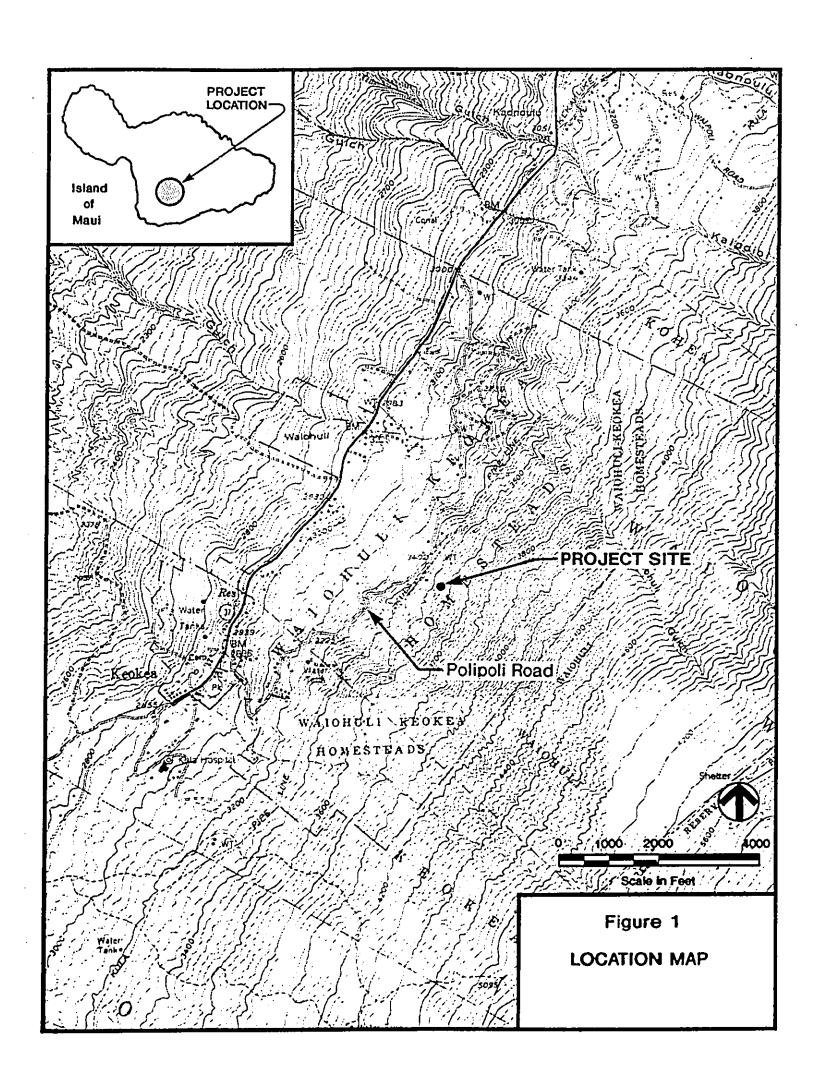
The County of Maui Department of Water Supply (DWS) is proposing to construct a new 0.5 million gallon (MG) water tank, perimeter road and appurtenances on 0.6 acre of land in the community of Waiohuli, East Maui. The project site lies mauka of the community of Waiohuli along the western slopes of Haleakala. It is located adjacent to and southeast of the intersection of Polipoli Road and Middle Road, approximately 0.4 miles east of Kula Highway within the Waiohuli-Keokea Homesteads (see Figure 1). The site for the new water tank is located 450 feet east of Polipoli Road, at an elevation of approximately 3,573 feet mean sea level. The project site lies approximately 360 feet south of an existing leaking 70,000-gallon water storage tank.

B. Land Ownership

The project site occupies a portion of TMK: 2-2-17:6 which is currently owned in fee by James Campbell Trust Estate and leased by James Sakugawa for cattle grazing. The County of Maui plans to acquire approximately 0.6-acre of the parcel to construct the water tank, a 32-foot wide easement (approximately 0.69-acre) for a new roadway to the water tank site, and a 20-foot wide utility easement (approximately 0.17-acre).

C. Existing and Surrounding Uses

The project site is currently pasture land underlain by rocky outcrops. Vegetation on the project site consists of grasses typical of pasture lands. The project site is primarily surrounded by pasture land and forest areas within the rural and sparsely populated Waiohuli-Keokea Homesteads.



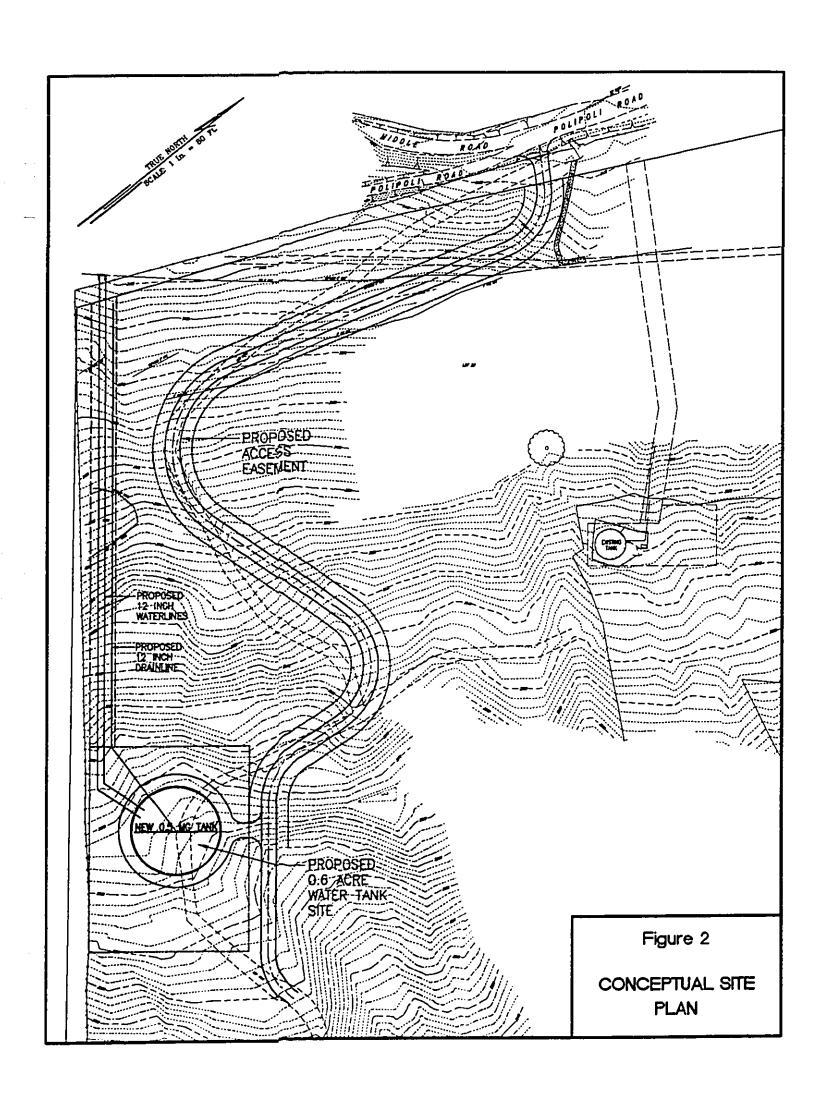
II. PROJECT DESCRIPTION

A. Project Need

The proposed 0.5 MG water storage tank is intended to provide sufficient storage of water to meet the needs of the existing residential and agricultural uses in Waiohuli-Keokea Homesteads and the Kamaole water system. This project is especially necessary since drought conditions periodically afflict Upcountry Maui. Because of past water shortage problems, the DWS has limited development in the area by restricting the issuance and size of water meters. To compound the problem, the nearby existing 70,000-gallon water tank is corroded and leaking and is unable to adequately supply the area during periods of peak flow. In the event of shut-down or demolition of the existing tank, the proposed 0.5 MG water tank will continue to provide the area with a supply of water.

B. Project Features

The water system improvements consist of constructing a 0.5 MG water storage tank, a perimeter road around the new tank, and appurtenances including gates, fencing and waterline and drainline connections (see Figure 2). The approximately 0.6-acre project site which will be acquired by the County of Maui DWS includes the area for the proposed 0.5 MG water tank and perimeter road. Two 12-inch waterlines and a 12-inch drainline will be constructed along the southern side of TMK: 2-2-17: 6 from Polipoli Road to the new water tank within an approximately 7,400-square foot (0.17-acre) utility easement to be acquired by the County of Maui DWS. An approximately 30,000-square foot (0.69-acre) access easement between Polipoli Road and the new water tank will also be acquired. The existing 70,000-gallon water tank will be demolished once the new 0.5 MG tank is constructed and operational.



C. Estimated Project Schedule/Cost

Construction will begin upon approval of all required governmental construction permits. The estimated time for construction of the water tank, roadway and appurtenances is approximately 1 year. Total development costs are estimated at \$1,000,000 and will be appropriated through County of Maui funds.

III. DESCRIPTION OF THE EXISTING ENVIRONMENT

A. Geology

The island of Maui is composed of two volcanic mountains; the older West Maui Volcano, and the younger Haleakala Volcano. These two dormant shield volcanoes are linked by a broad plain which formed when lava flows from Haleakala Volcano joined the West Maui Mountains landmass. The project site is situated on the western slope of Haleakala on lavas of the Kula volcanic series.

B. Hydrology

There are no surface water sources on the project site. The nearest surface water source is Waiohuli Gulch, an intermittent stream located about 2,500 feet to the north. Basal groundwater resources are assumed to underlay the Waiohuli area at a depth of several thousand feet below the project site.

The Waiohuli area is supplied surface water from the Upper Kula System, one of four systems which comprise the Makawao and Kula System. The entire Makawao-Pukalani-Kula area is currently served by the Makawao and Kula System through four water sources; the Upper Kula, Lower Kula, Kamole Forebay and Kailiili Intake, and Hamakua Ditch Intake (Kula Agricultural Park) Systems.

The Upper Kula System is located along the 4,000-foot elevation and collects surface water from Haipuaena, Puohakamoa and Waiakamoi Streams. The surface water is treated at the Olinda water treatment plant which has a capacity of 1.7 MGD. Water from the Olinda water treatment plant is transferred to the Waiohuli tank via 8- and 12-inch transmission lines.

C. Topography

The site of the proposed water tank is situated at an elevation of approximately 3,573 feet mean sea level. The topography of the site is fairly uniform, and slopes from the proposed water tank area in the east down to Polipoli Road to the west. Slopes range between 25 and 30 percent. Rock outcrops are present in places within the proposed access and utility easements and water tank site, and in the surrounding area.

D. Soils and Agricultural Productivity

The U.S. Department of Agriculture Soil Conservation Service's Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai identifies the soil on the property as Kaipoioi very rocky loam (KDVE). Soil of this type consists of land on smooth to rolling high mountain slopes with rock outcrops which cover 10 to 25 percent of the surface. Slope on these soils is generally 7 to 40 percent. Surface layer of the soil is black loam about 10 inches thick. The subsoil, about 51 inches thick, is black and very dark brown silt loam or silty clay loam that has a subangular blocky structure. The substratum is ash and cinders. The soil is neutral in the surface layer and mildly alkaline to neutral in the subsoil. Permeability is moderately rapid. Runoff is slow to medium, and the erosion hazard is slight to moderate. The available water capacity is about 2.6 inches per foot in the surface layer and about 1.6 inches per foot in the subsoil. This type of soil is commonly used for pasture and wildlife habitat.

This soil classification is corroborated by the University of Hawaii Land Study Bureau's Detailed Land Classification--Island of Maui. The Land Study Bureau classifies soil on the property as E90, or soil which is excessively-drained, rocky, and unsuitable for agricultural tilling.

E. Climate

Maui's climate varies according to altitude and is influenced by leeward/windward locations. Lowland areas tend to have a semi-tropical climate, while higher elevations are characterized by temperate climates. The climate of the Waiohuli area is typically partly cloudy. Mean annual rainfall ranges between 30 and 40 inches. Prevailing winds are the northeasterly tradewinds which generally blow between 13 to 24 miles per hour. Temperatures average about 65°F in the coolest month and 78°F in the warmest month.

F. Flora and Fauna

The entire project site is used as pasture land and is entirely covered by grassland typical of grazing.

The fauna of the area consists of introduced species common throughout the Hawaiian Islands. Although domesticated cattle are apparent, other fauna such as rats, mice, mongoose and dogs may also appear on the project site. There are no Federal or State of Hawaii listed or candidate threatened or endangered species of flora or fauna on the project site.

G. Archaeological and Historical Resources

The project site consists of pasture land and is entirely covered by grassland. Consultation was conducted with the State Department of Land and Natural Resources (DLNR) Historic Preservation Division on April 22, 1998 (see Appendix A, Draft EA Consultation Correspondence, State DLNR Historic Preservation Division consultation letter dated May 1, 1998). The project site may once have been the location of pre- or post-Contact farming, perhaps with scattered houses. However, the subject property has

been subjected to considerable alteration due to historic ranching and agriculture, so it is unlikely that significant historic sites will be encountered today.

H. Air and Noise Quality

The ambient noise and air quality in the region is excellent due to the distance from highway traffic and industrial uses, and due to the prevailing northeasterly tradewinds.

I. Population

The island of Maui is the third most populous in the State with a population of 106,100 in July 1995, an increase of 16 percent from 1990. According to the Hawaii Department of Business, Economic Development & Tourism (DBED&T) economic and demographic projections, the County of Maui's resident population is expected to increase by 50 percent to 145,200 by the year 2010, twice as fast as Oahu's 26 percent for the same period.

The Makawao District of the County of Maui has experienced substantial growth since 1970, when the resident population was 9,979. The population increased by 90.4 percent to 19,005 in 1980, another 53.7 percent to 29,207 in 1990, and another 16.7 percent to 34,087 in 1995.

J. Economy

The County of Maui's economy is based on tourism and the construction and agricultural industries. In 1990, the County of Maui began planning infrastructure developments in response to increased urbanization and population growth which has occurred over the past several years. In real estate, Maui has the second tightest condominium and the

third tightest single-family home markets in the state. The County also had a persistent labor shortage in 1990.

Through 1994, total visitors to the State were 6,430,300 persons, 5 percent above 1993. Maui experienced an increase of 4.2 percent during the same period. Maui's westbound visitor count increased 6.1 percent for a total of 1,852,710 visitors for the same period. Eastbound visitors numbered 449,980, a decrease of 3 percent during the same period. Through 1995, Maui's hotel occupancy rate was 7.7 percent higher than in 1993.

The construction industry has declined on Maui in the last several years. Construction put-in-place declined 10 percent to \$187 million in 1995. Private permits authorized through the same period increased by 10.4 percent to \$215.1 million, and public contracts awarded through the same period also increased by 3.1 percent to \$22.2 million.

Maui pineapple, diversified crops and livestock have experienced an approximately 3.4 percent decline from 1994 to 1995. For the same period, Maui's sugar industry experienced an approximately 3 percent decline in production. A major contributor to the economy of the Waiohuli area is agriculture, particularly diversified crops and livestock which were factors contributing to the 3.4 percent decline in agriculture on the island of Maui between 1994 to 1995.

K. Scenic Views

The project site is located along the slope of Haleakala and provides views of this slope and of the central Maui plain below. Other than natural formations and tree cover, there are no obstructions to views in any direction. From Polipoli Road, the project site appears as open pasture land.

L. Roadways

Haleakala Highway and Kula Highway, both 2-lane highways, provide the major transit route through the Makawao District. The project site is accessible from Kula Highway via Polipoli Road, a 2-lane roadway.

M. Drainage System

There is no drainage infrastructure in the vicinity of the project site. According to the Detailed Land Classification--Island of Maui, soils on the project site are excessively-drained. According to the Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, soil found in this area consists of land on smooth to rolling high mountain slopes with rock outcrops which cover 10 to 25 percent of the surface. The slope is generally 7 to 40 percent. According to the Flood Insurance Rate Map prepared for the area by the Federal Emergency Management Agency, the project site is located in Zone C, an area of minimal flooding.

N. Water System

Water for the proposed 0.5 MG water tank will come from the Upper Kula System, one of four systems in the Makawao and Kula Aquifer System (see Table below). Water is presently stored in a 70,000-gallon steel tank located approximately 360 feet north of the project site. This water originates from stream flow approximately 5.2 miles northeast of the project site which is transported to the nearby Olinda Water Treatment Plant. After treatment, the water is transferred to the Omaopio tank, then is transmitted southwest to the 70,000-gallon Waiohuli tank through an 8-inch gravity-flow line. The Waiohuli tank provides water to the Waiohuli-Keokea Homesteads and the Kamaole water system located south of the project site.

MAKAWAO AND KULA WATER SYSTEM SOURCES				
Surface Sources	1990 Total Withdrawals (MGD)*			
Upper Kula System	0.85			
Lower Kula System	2.13			
Kamole Forebay and Kailiili Intake	2.40			
Hamakua Ditch Intake (Kula Agricultural Park)	0.13			
Total	5.51			
* Where 1990-1991 data was not available, the latest data (usually 1987) is shown. Source: Maui Community Plan UpdateInfrastructure Assessment, County of Maui, September 1992.				

The Department of Water Supply recognizes a projected shortage of water source and limits allocation and issuance of water meters.

IV. RELATIONSHIP TO PLANS, POLICIES AND CONTROLS

A. State Land Use Districts

Pursuant to Chapter 205, Hawaii Revised Statutes (HRS), all lands in the State of Hawaii are classified into one of four land use designations: Urban, Rural, Agricultural, and Conservation. The proposed water system improvements, including the water tank, access and utility easements, and perimeter road, are located within land designated Agricultural. The proposed development is compatible with this designation.

B. County of Maui General Plan

The County of Maui General Plan is a narrative document which sets forth strategies to shape the County's physical, social and economic environments. These strategies are expressed as statements of objectives and policies which are used by the County in decision-making and in developing and implementing plans and programs.

The following objectives and policies concern water supply within the County:

OBJECTIVE:

(1) To provide an adequate supply of domestic and irrigation water to meet the needs of our people.

POLICIES:

- (1) Support water supply services to those areas which historically experience critical water problems.
- (9) Maintain the right to manage our transmission and deliverance systems at the County level.

(10) Develop sufficient water supply during drought seasons so as to keep agricultural activities viable.

The proposed Waiohuli water system improvements will serve the domestic and agricultural needs of the Waiohuli area. Current shortages experienced during times of drought will be mitigated through the water system improvements. Funds for the proposed improvements and land acquisition will be provided by the County of Maui.

OBJECTIVE:

(2) To make more efficient use of existing supplies of water.

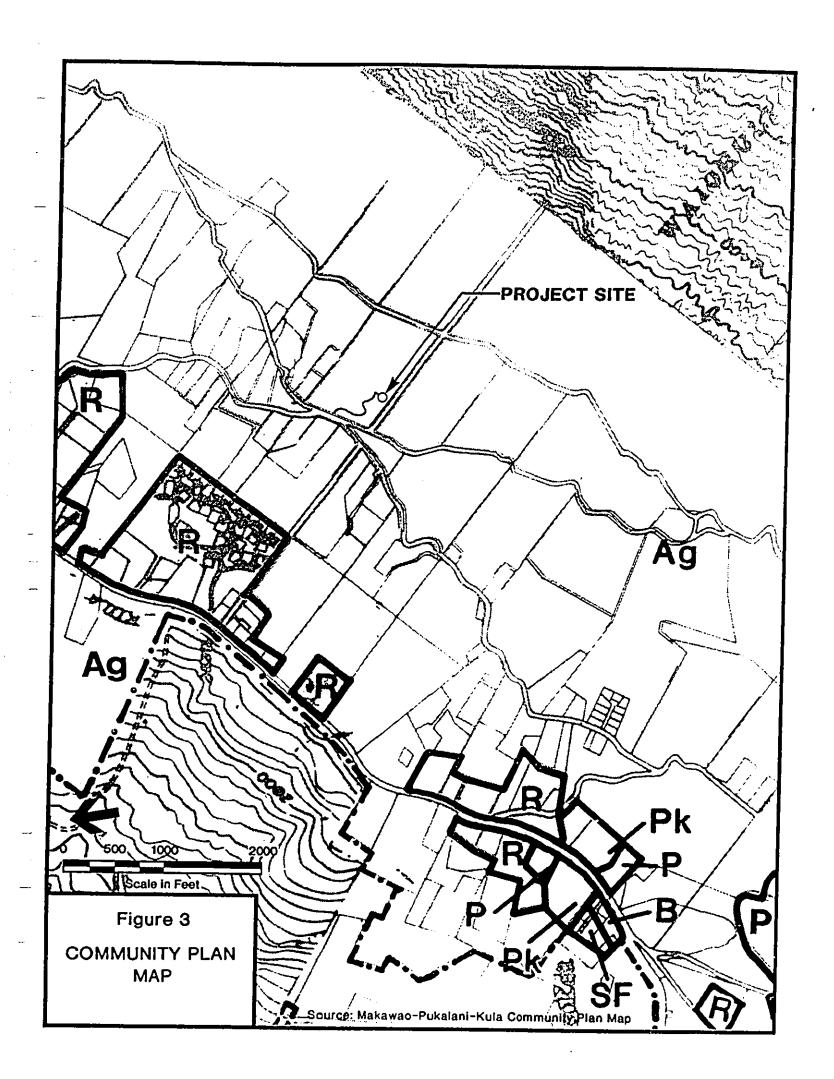
POLICIES:

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

The proposed Waiohuli water system project includes expansion of water storage capabilities at the nearby existing Waiohuli water tank site by construction of a replacement 0.5 MG water storage tank.

C. Makawao-Pukalani-Kula Community Plan

The Makawao-Pukalani-Kula Community Plan is the primary decision making tool used by the County for implementing the County General Plan. The Makawao-Pukalani-Kula Community Plan land use map designates the project site as Agriculture (see Figure 3). The use of the site for water storage would be in accord with the Makawao-Pukalani-Kula Community Plan's Agriculture designation. The proposed 0.5 MG water tank will provide additional storage of water for residential and agricultural uses in the area.



D. County of Maui Zoning

The County of Maui zoning designation of the project site is Interim. As a public utility use, the proposed water tank improvements are a permitted use in the Interim zoning designation.

E. Required Permits and Approvals

The following is a summary of the major permits and approvals which may be required prior to construction of the proposed project.

State of Hawaii

Department of Land and Natural Resources, Historic Preservation Division

• Chapter 6E, HRS Historic Preservation

Office of Environmental Quality Control

• Environmental Assessment

County of Maui

Department of Public Works & Waste Management

- Grading Permit
- Excavation Permit
- Grubbing Permit
- Drainage Plan Approval
- Subdivision

V. POTENTIAL IMPACTS AND PROPOSED MITIGATION MEASURES

A. Short-Term Impacts

Short-term impacts are those associated with construction activities such as removing vegetation, grading and excavating, and actual construction. Short-term impacts associated with these construction activities include potential impacts on water quality, soils, flora and fauna, archaeological resources, noise, air quality, and traffic.

1. Water Quality and Soils

The project site is located on the slopes of Haleakala and contains rock outcrops which cover 10 to 25 percent of the surface. The slope is generally between 25 and 30 percent. Because of this steep gradient, excavation of a level building pad in the slope will be necessary to a depth of approximately 15 feet.

No significant impacts on water quality are anticipated during development of the project site from erosion or surface runoff. Clearing and grading operations at the project site will temporarily expose the underlying soil to rain until the water tank is built and landscaping is planted. Groundcover will be planted for erosion control as soon as possible after grading. The required County grading standards will be complied with to minimize erosion potential during construction of the proposed water tank project.

2. Flora and Fauna

Earthwork operations will remove vegetative cover on the water tank site and within the access and utility easements which consists entirely of grassland typical

of grazing. There are no Federal or State of Hawaii listed or candidate threatened or endangered species of flora or fauna on the project site. No significant impacts to flora or fauna will result from project construction.

3. Archaeological Resources

Based on consultation with the State DLNR Historic Preservation Division, construction of the proposed water tank system improvements will have "no effect" on significant historic sites (see Appendix A, Draft EA Consultation Correspondence, State DLNR Historic Preservation Division consultation letter dated May 1, 1998). However, if in the event that any unrecorded historic sites are encountered, construction will be halted and immediate archaeological consultation shall be sought from the State DLNR Historic Preservation Division.

4. Noise

A temporary increase in local noise levels can be anticipated during construction of the facilities. Sources of noise will include construction vehicles and equipment operating to, from and on site. Noise impacts will be mitigated to the extent possible through the use of mufflers on construction equipment and daytime construction periods.

The area is thinly populated and adequate distance separates the proposed water tank from the nearest noise sensitive neighbors. The nearest resident is located approximately 300 feet south of the proposed water tank.

5. Air Quality

Ambient air quality is expected to temporarily decline in the immediate vicinity during construction due to dust and emissions from construction vehicles and equipment. Due to the distance of the project site from the nearest residences, there should be no adverse air quality impacts from the project. Dust control measures such as water sprinkling and spraying will be implemented when necessary.

6. Traffic

Due to the ingress of construction workers and materials, there will be a slight temporary increase in local traffic on Polipoli Road during the construction period. Based on the light level-of-service traffic conditions on this rural road, there should be no significant impacts to traffic from construction of the project.

B. Long-Term Impacts

Long-term impacts are those associated with the operation and maintenance of the new water tank. They include potential impacts on drainage, flora and fauna, noise, scenic resources, traffic, and the local economy.

1. Drainage System

The proposed water system improvements are anticipated to increase rainfall runoff very slightly by increasing the tank pavement area. Runoff from the site will be accommodated by existing sheetflow patterns.

2. Flora and Fauna

The water system improvements will displace existing flora and fauna, but landscaping will restore some of the vegetative cover and naturally occurring flora and fauna will rejuvenate. There are no Federal or State of Hawaii listed or candidate threatened or endangered species in the area.

3. Noise

Long-term noise quality will not be significantly altered by the proposed water tank improvements. No adverse impacts are anticipated on any current or future noise-sensitive uses.

4. Air Quality

Other than emissions from maintenance vehicles which will make periodic visits to the project site, there will be no adverse long-term air quality conditions generated by the project. Due to the distance of the project site from sensitive sources, the long-term air quality impacts from vehicle emissions on the project site will be insignificant.

5. Visual Resources

No significant visual impacts to neighboring parcels will result from the construction of the 0.5 MG water tank. The proposed water tank will be approximately 75 feet in diameter and 20 feet in height. Mitigative measures will include cutting approximately 15 feet into the hillside prior to construction of the

0.5 MG water tank. Views over and through the site will not be significantly altered from any vantage point in the surrounding area.

6. Traffic

Traffic will not be significantly affected by the proposed improvements. The water tank should largely be self-sustaining, with the exception of the need for personnel to make periodic checks of water levels and water quality and to perform routine groundskeeping and maintenance work.

7. Economy

The existing tank is leaking and its capacity is inadequate for the area's agricultural demands. Increased water supply from the new 0.5 MG tank will provide adequate water to allow farmers and ranchers to maximize their output and increase production to supply the local market. Thus, the State's dependence on imported produce will be reduced which will result in a boost to the local economy.

VI. ALTERNATIVES TO THE PROPOSED ACTION

The potential alternatives to the proposed action include locating an alternative site for the proposed water tank project and the "no action" alternative.

There will be no major adverse environmental impacts from construction of the 0.5 MG water tank at the proposed location. The proposed location for the new water tank is at the appropriate elevation to provide sufficient water pressure for the Waiohuli-Keokea Homesteads and Kamaole water system. Therefore, use of an alternative site for the proposed 0.5 MG water tank is not a feasible alternative.

The "no action" alternative would result in no new water tank. The existing water tank is unable to adequately supply the area during periods of peak flow and needs repair. In the event of shut-down or demolition of the existing tank, water would only be provided to the Waiohuli-Keokea Homesteads and Kamaole water system service areas by the 8-inch gravity flow line. Stored water will not be available during drought or periods of peak demand. Under the "no action" alternative, the objective of supplying adequate domestic water and water for agricultural uses would not be achieved. The "no action" alternative is not a feasible option to the development of the proposed project.

VII. NOTICE OF DETERMINATION

A. Proposing Agency

County of Maui Department of Water Supply

B. Accepting Agency

County of Maui Department of Water Supply

C. Description of Proposed Action

The County of Maui DWS is proposing to construct a new 0.5 MG water tank, perimeter road and appurtenances on 0.6 acre of land in the community of Waiohuli, East Maui (TMK: 2-2-17: portion 6). The proposed 0.5 MG water storage tank is intended to provide sufficient storage of water to meet the needs of the existing residential and agricultural uses in Waiohuli-Keokea Homesteads and the Kamaole water system. The water system improvements consist of constructing the 0.5 MG water storage tank, a perimeter road around the new tank, and appurtenances including gates, fencing and waterline and drainline connections. The approximately 0.6-acre project site which will be acquired by the County of Maui DWS includes the area for the proposed 0.5 MG water tank and perimeter road. Two 12-inch waterlines and a 12-inch drainline will be constructed along the southern side of TMK: 2-2-17: 6 within an approximately 7,400square foot (0.17-acre) utility easement to be acquired by the County of Maui DWS. An approximately 30,000-square foot (0.69-acre) access easement between Polipoli Road and the new water tank will also be acquired. The nearby existing leaking and corroded 70,000-gallon water tank will be demolished once the new 0.5 MG tank is constructed and operational.

D. <u>Determination and Reasons Supporting Determination</u>

The Waiohuli Tank Replacement Draft EA was filed with the State OEQC and published in the November 8, 1994 publication of the OEQC Bulletin. A total of 8 comment letters were received during the 30-day public review period. Based on the significance criteria set forth in Section 11-200-12 of Title 11, Chapter 200, Administrative Rules, State of Hawaii Department of Health, the County of Maui Department of Water Supply has determined that the proposed project will have no significant adverse impact on the environment, and that an Environmental Impact Statement is not required. The reasons supporting this determination are described below according to these significant criteria.

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

Development of the proposed water tank and access and utility easement improvements will require an irrevocable commitment of approximately 0.6 acres of pasture land. The proposed improvements will not involve a loss or destruction of any cultural resource.

2. Curtails the range of beneficial uses of the environment.

The intention of the proposed facility improvements is to commit the affected project site to the proposed use over the long-term. This will preclude use of approximately 0.6 acres for pasture land purposes. In the context of the surrounding vicinity, however, the decrease of 0.6 acres for pasture land use is relatively negligible.

3. 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 proposed action is consistent with the environmental policies, goals and guidelines set forth in Chapter 344, HRS.

4. Substantially affects the economic or social welfare of the community or State.

The proposed Waiohuli water system improvements will serve the domestic and agricultural needs of the Waiohuli area. Current shortages experienced during times of drought will be mitigated through the water system improvements. Increased water supply from the new tank will provide adequate water to allow farmers and ranchers to maximize their output and increase production to supply the local market. Thus, the State's dependence on imported produce will be reduced which will result in a boost to the local economy.

5. Substantially affects public health.

Implementation of the proposed project will not affect public health.

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

The proposed project is not expected to induce population growth or influence the future distribution of the island's population. Rather, the proposed Waiohuli water tank system improvements will serve the domestic and agricultural needs of the Waiohuli area by providing additional storage of water.

7. Involves a substantial degradation of environmental quality.

The proposed project is not expected to involve a substantial degradation of environmental quality as it is not anticipated to have any environmental affect on air or water quality, noise or environmentally sensitive areas.

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

The project considers all of the improvements necessary for the proposed water tank system. No additional impacts beyond the project site are anticipated.

9. Substantially affects a rare, threatened, or endangered species, or its habitat.

As the project site consists entirely of grassland typical of grazing, there is anticipated to be no adverse affect on rare, threatened or endangered species or its habitat from the construction or operation of the proposed project.

10. Detrimentally affects dir or water quality or ambient noise levels.

Operation of the new water tank is not anticipated to detrimentally affect air or water quality or ambient noise levels. Due to the distance of the project site from sensitive sources, air quality impacts from periodical maintenance vehicle emissions will be insignificant.

11. 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 project site does not contain environmentally sensitive areas and implementation of this project will not have significant effects on such areas.

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

The proposed project will not affect any scenic vistas and viewplanes identified in county or state plans or studies.

13. Requires substantial energy consumption.

Construction and operation of the proposed project will not require substantial energy consumption.

E. Name, Address and Phone Number of Contact Person

County of Maui Department of Water Supply 200 South High Street
Wailuku, Maui, Hawaii 96793
Contact: Herbert Kogasaka

Phone:

(808) 243-7835

VIII. CONSULTATION

A. Pre-Assessment Consultation

The following agencies and organization were consulted during the pre-assessment phase of the Draft EA.

State of Hawaii

Department of Agriculture Department of Land and Natural Resources Historic Preservation Division

County of Maui

Department of Water Supply Planning Department

Organizations

Estate of James Campbell

B. Draft EA Consultation

The agencies and individuals listed below were sent copies of the Draft EA with a request for their comments on the project. Of those who formally replied, some had no comments while others provided comments as indicated by the * and **, respectively. All written comments and responses are reproduced in Appendix A.

Federal

- U.S. Department of Agriculture
- ** U.S. Army Corps of Engineers
- ** U.S. Department of the Interior Fish and Wildlife Service

State of Hawaii

Department of Agriculture
Department of Business, Economic Development & Tourism
Department of Land and Natural Resources Land Division

** Department of Land and Natural Resources Historic Preservation Division

- * Department of Land and Natural Resources Commission on Water Resource Management
 - Department of Health
 - Department of Health Environmental Management Division
- ** Department of Transportation
 - Office of Planning
 - Department of Hawaiian Home Lands
 - Office of Hawaiian Affairs
- * University of Hawaii Water Resources Research Center University of Hawaii Environmental Center

County of Maui

- Department of Water Supply
- ** Planning Department
- ** Department of Public Works & Waste Management
 Department of Parks and Recreation
 Economic Development Agency
 Councilmember Alice L. Lee

REFERENCES

Armstrong, Warwick R. ed. Atlas of Hawaii. Second Edition. University of Hawaii Press. 1983.

Belt, Collins & Associates, Ltd. Study of Surface Water Development for Maui Up-Country Water Systems. Prepared for County of Maui Department of Water Supply. January 1985.

County of Maui. The General Plan of the County of Maui. Ordinance 1052 - Ordinance adopting the General Plan and providing for community plans for the County of Maui, June 1980.

County of Maui Department of Water Supply and State of Hawaii Department of Land and Natural Resources. Maui County Water Use and Development Plan. March 1990.

County of Maui Department of Water Supply. Technical Report - Water Use and Development Plan - County of Maui. 1989.

Federal Emergency Management Agency. Flood Insurance Rate Map Index, County of Maui, Hawaii. September 6, 1989.

First Hawaiian Bank, Research Department. Supplement to Economic Indicators--Maui County Profiles. July/August 1993.

George A. L. Yuen & Associates, Inc. Water Resources Protection Plan. Volumes I & II. Prepared for State Commission on Water Resources Management. Department of Land and Natural Resources. Honolulu, Hawaii. June 1990.

Hasting, Martin, Chew, & Associates, Ltd. Makawao-Pukalani-Kula Community Plan. Prepared for the County of Maui.

Land Study Bureau, University of Hawaii. Detailed Land Classification -Island of Maui. L.S.B. Bulletin No. 7. May 1967.

Michael T. Munekiyo Consulting. The General Plan of the County of Maui - 1990 Update. Prepared for County of Maui Planning Department. September 1990.

State of Hawaii Department of Business and Economic Development & Tourism. County of Maui Facts and Figures 1994.

State of Hawaii Department of Business and Economic Development & Tourism. The State of Hawaii Data Book. November 1995.

Stearns, Harold T. Geology of the State of Hawaii. Second Edition. Pacific Books, Publishers. Palo Alto, California. 1966.

United States Department of Agriculture Forest Service, Soil Conservation Service. Water Resources Study for Upcountry Maui, Island of Maui, Hawaii - Final Report. Prepared for County of Maui. April 1989.

United States Department of Agriculture, Soil Conservation Service. Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii. University of Hawaii Agricultural Experiment Station, 1972.

United States Department of Commerce. 1990 Census of Population and Housing Characteristics, Census Tracts - Hawaii. 1990.

Wilson Okamoto & Associates, Inc. Maui Community Plan Update - Infrastructure Assessment. Prepared for County of Maui Planning Department. September 1992.

APPENDIX A

Consultation Comments Received

Consultation Comments

Pre-Assessment Consultation Correspondence



STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES STATE INSTORIC PRESENVATION DAYSION
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1994

LOG NO: 11814 DOC NO: 9406KD02

Ms. Lauren Nagata Wilson, Okamoto & Associates P.O. Box 3530 Honolulu, Hawaii 95811 Nagata: Dean Ma.

Chapter 6E (HRS) Historic Preservation Review of Proposed Water Tank Improvement Project Waterwao, Haul TM: 2-2-17: por. 6 SUBJECT

Thank you for providing additional information regarding the scope of the proposed water tank replacement project, and regarding the stone enclosure located adjacent to the proposed project area. The information was requested by our office (letter dated May 17, 1994) in order to aid in our assessment of potential impacts the project might have on his order aften.

The project site is located on the east side of Polipoli Road, at its intersection with Middle Road, in Walohuli. During a field visit to the site, State Historic Preservation Division staff observed a stone walled enclosure and two areas of stacked stones on rock outcropn within the area nhwan an the "project" area. Project request, you submitted a more detailed plan of the proposed work, and information regarding the history and origin of the stone enclosure.

According to your informant, Mr. Henry Rice, the enclosure dates to circa 1955, when the walls of a pro-existing cattle corral were rebuilt in their entirety. The original structure was built as a cattle corral by the Kaonoulu Ranch circa 1920. According to the detailed construction plans, the proposed access road will follow an existing roadway from Polipoli Road in the area of the enclosure, resulting in no direct impacts to the structure.

areas of stacked stones located on rock outcrops are beyond a of tank and road construction, and will likewise not be by the proposed work.

Ms. Lauren Nagata Page 2

BILLING LAND AND MATURAL MILANTES

AGUACULTURE DEVILORMENT PROGRAM

JOHN P. REPRESEN

Based on your recently provided information, we believe that this project will have "no effect" on historic sites.

Please contact Ms. Theresa K. Donham at 243.5169 if you have any questions.

Sincerely

DON HIBBARD, Administrator State Historic Preservation Division

KD: jen

Draft EA Consultation Correspondence



United States Department of the Interior

PACIFIC ISLANDS OFFICE 500 ALA MOANA BLVD, SUITE 3:510 HONLULU, HI 96813 FISH AND WILDLIFE SERVICE

> fax:(\$08) \$41-5470 In Reply Refer To: CAW 111 (208) 541-3441 . W. P. P. B. J. T. B. T. B.

Barry Toyota

ode Schileson or og MAY 1 2 1995

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Wilson Okamoto & Associates, Inc. P.O. Box 3530 Honolulu, Hawaii 96811

Re. Review of draft Environmental Assessment for the proposed Waiobuli Tank Replacement, Waiohuli, Maur. Hawaii

Dear Mr. Toyota

The U.S. Fish and Wildlife Service (Service) has reviewed the draft Environmental Assessment for the proposed Waiohuli Tank Replacement, Waiohuli, Maui. Hawaii. The project applicant is the County of Maui, Department of Water Supply. The proposed project involves the construction of a new 0.5 million gallon (MG) water tank; perimeter road, and appurtenances to replace the existing leaking 70,000 gallon water storage tank, which lies mauka of the community of Waiohuli along the western slopes of Haleakata. The Service offers the following comments for your consideration

through the use of effective erosion control measures and the curtailment of grading activities during adverse weather conditions. Provided that the final Environmental Assessment reflects the foregoing requirements, the Service will concur with a finding of no significant impact. the proposed project. However, the Service recommends that the following measures to minimize the degradation of water quality be incorporated into the design and construction of the proposed does not anticipate direct adverse impacts to fish and wildlife resources to result from project: (1) all construction-related materials should be free of pollutants and (2) erosion from grading activities should be minimized and contained to the immediate vicinity of construction all construction-related materials should be free of pollutants and (2) erusion from The Service

The Service appreciates the opportunity to provide these comments on the proposed project. If you have questions regarding these comments, please contact Fish and Wildlife Biologist Christine Willis at 808/541-3441.

Sincerely,

Brooks Hayer

Field Supervisor Ecological Services Brooks Harper

> DAR, Hawaii 9



DEPARTMENT OF WATER BUPPLY P.C. ECX 11CE WALLKU, MAIL HAWAN BEYES-71CE COUNTY OF MAU!

April 28, 1998

United States Department of the Interior 500 Ala Moana Boulevard, Suite 3-580 Field Supervisor, Ecological Services Fish and Wildlife Service Honolulu, Hawaii 96813 Mr. Brooks Harper

Dear Mr. Harper:

Draft Environmental Assessment (EA) Waiohuli Tank Replacement TMK: 2-2-17: Portion 6 Waiohuli, Maui, Hawaii Subject:

Thank you for your letter dated May 12, 1995 (Ref. CAW) indicating that the Service does not anticipate direct adverse impacts to fish and wildlife resources as a result of the proposed project. A copy of the letter is attached for your reference. Subsequent to the November 8, 1994 publication of the subject Draft EA, the proposed water tank improvements were re-sited to a different location within the same parcel, approximately 360 feet to the south. Since the anticipated environmental impacts are unchanged with the new location, we are proceeding to file the Final EA and Finding of No Significant Impact determination with the State Office of Environmental Quality Control, During design and construction of the proposed project, measures will be taken to ensure that all construction-related materials are free of pollutants to the extent possible. As indicated in Section V.A.1. of the Draft EA, the required County of Maui grading standards will be complied with to minimize crossion potential during project construction,

Mr. Brooks Harper
Fish and Wildlife Service
United States Department of the Interior
April 28, 1998
Page 2

Your letter, along with this response, will be reproduced in the forthcoming Final EA.
We appreciate your interest and participation in the consultation phase of the environmental review process.

Sincerely.

Sincerely.

Milk:36

Attachment: Lit did 5/12/95

Ge: Mr. Barry Toyota, Wilson Okamoto & Axvocines, Irc.

January 20, 1995

Planning Division

County of Maul
Department of Water Supply
200 South High Street
Walluku, Haui, Hawaii 96793
Dear Sir/Hadam:
Thank you for the opportunity to review and comment on the Draft Environmental Assessment for the Waiohuli Tank
Replacement Project, Waiohuli, Haui (THK 2-2-17: por. 6). The Collowing comments are provided pursant to Corps of Engineers authorities to dissaminate flood hazard information under the following comments are provided pursant to Corps of Engineers authorities to dissaminate flood hazard information under the Flood Control Act of 1899; and the Marine Protection, Research and Act of 1899; and the Marine Protection, Research and Sanctuaries Act.

a. Based on the information provided on page III-6 of the environmental assessment is correct.

b. The flood hazard information provided on page III-6 of the environmental assessment is correct.

Copies Furnished:

Hr. Gary Gill
Street, 4th Floor
Honolulu, Hawaii 96813
Hr. Barry Toyota, Project Engineer
Holodulu, Hawaii 96813
Hr. Barry Toyota, Project Engineer
Hilson Okamoto 6 Assuciates, Inc.
PO Box 3530
Innolulu, Hawaii 96311



DEPARTMENT OF WATER BUPPLY R.C. BOX 1108 WALLKU, MALI, PAWAII 88783-7108 COUNTY OF MAU!

April 28, 1998

U.S. Army Engineering District, Honolulu Fort Shafter, Hawaii 95858-5440 Director of Engineering Mr. Ray H. Jyo, P.E.

Dear Mr. Jyo:

Draft Environmental Assessment (EA) Waiohuli Tank Replacement TMK: 2-2-17: Portion 6 Waiohuli, Maui, Hawaii Subject:

Thank you for your letter dated January 20, 1995 commenting on the subject Draft EA. A copy of the letter is attached for your reference. Subsequent to the November 8, 1994 publication of the subject Draft EA, the proposed water tank improvements were re-sited to a different location within the same parcel, approximately 360 feet to the south. Since the anticipated environmental impacts are unchanged with the new location, we are proceeding to file the Final EA and Finding of No Significant Impact determination with the State Office of Environmental Quality

We acknowledge your confirmations that a Department of Army permit will not be required for the subject project and that the flood hazard information provided in the EA is correct.

Mr. Ray H. Jyo, P.E. Director of Engineering U. S. Army Engineering District, Honolulu February 28, 1998 Page 2

Your letter, along with this response, will be reproduced in the forthcoming Final EA.

We appreciate your interest and participation in the consultation phase of the environmental review process.

Sincerely,

David R. Craddick

Director

// HK:sc

Attachment: Lir did 1/20/95

cc: Mr. Barry Toyota, Wilson Okamoto & Associates, Inc.



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DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE OF HAWAII

STATE HISTORIC PRESENTATION DIVISION 23 SOUTH EAG STREET, ETH FLOOR HONOLULU, NAWAR 18813

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h Boretania Street, Suite 400 Mi Harry Towas.
Wilson Okamoto & Associates, Inc
1907 South Beretania Street, Suite 400
Honolulu, Hawaii 96826

DECEMBER

MAY U 7 1998

MUSON DESENÇITOR (\$50), INDOC NO 9804BD21

Dear Mr. Toyota

Chapter 6E-42 Historic Preservation Review of the Newly Proposed Waiohuli Water Tank Replacement Environmental Assessment Waiohuli Ahupua'a, Makawao District, Island of Maui SUBJECT:

This letter is a Historic Preservation review of the newly proposed Waiohili Water Tank Replacement I invitionmental Assessment Incated in Waiohili Alaipus a. Our review is based on reports included acreal physiographs maintained at the State Historic Preservation Dission. No field clock was syndicited of the subject property, although staff archaeologist Boyd Disson was shown photographs of the nextly proposed tank location and access road by Mr. Toyota on April 22, 1998.

Our office reviewed a previous location proposed for this water tank (SHPI) DOC NO. 9406KD02 and 93411X(03) in which the undertaking was found to have, no effect, ou significant fishing sites. The navity proposed that site may be considerable alteration in performance bourses. However, the subject property has been subjected to considerable alteration due to historic anching and agriculture, so it is unlikely that significant instours away we see encountered today. We therefore find the newly proposed undertaking to have "no effect" on significant historic sites. As a contingency, should any unrecorded historic sites (i.e. subsurface paivings, artifacts, or human skeletal remains) be madvertently uncovered during construction, we recommend that all work should crave in the vicinity and the contractor should immediately contact the State Historic Preservation Division.

If you have any questions please contact Boy d Divon at 243-5169

Alaby

DON HIBBARD. Administrator
State Historic Preservation Division

cc Ralph Nagamine, Maui County Department of Public Works (fax. 243-7972)
David Blane, Maui County Department of Planning (fax. 243-7634)

BENJAMM J. CATETAM BOVINGE OF NAMES

BOARD OF LAND AND HAILAND FEEDWALES

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STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL NESOUNCES STATE HISTORIC PASSENATION DIVISION 33 SOUTH KING STREET, 6TH FLOOR HOHOLUKU, HAWAE 18813

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FOR THE AGENCY

January 20, 1995

Department of Water Supply Mr. David Craddick County of Maui

RECEIVED AND SANDED

DOC NO OSDICE

LOG NO: 13644

WILSON DEAMOTO & A.771 Dear Mr. Craddick:

Wailuku, Hawaii 96793 200 South High Street

SUBJECT: Waiohuli Tank Replacement, Draft Environmental Assessment (Draft EA) Waiohuli, Island of Maui, Hawaii TMK: 2-2-17: por. 6

conducted a field inspection of the subject parcel on May 6, 1994. She recorded three historic sites: a former cattle corral which dates to ca 1920, and two areas of stacked stone. Given the detailed construction plans provided, neither the proposed access road nor the construction of the tank replacement will have an impact on these sites. Therefore, we believe that this project will Thank you for the opportunity to comment on the Draft EA for the Waiohuli Tank Replacement. According to our records, Ms. Theresa Donham of the Maui State Historic Preservation Division have "no effect" on historic sites. Please contact Ms. Theresa K. Donham at 243-5169 or Ms. Sara Collins at 587-0013 if you have any questions

Sincerely

State Historic Preservation Division **DON HIBBARD, Administrator**

SC ab

Mr. Gary Gill, Office of Environmental Quality Control Mr. Barry Toyota, Wilson Okamoto & Associates ö



BOARD OF WATER SUPPLY

GOUNTY OF MAUI P.O. BOX 1109 WAILLIKU, MAUI, HAWAII 06703-7109 Telephone (808) 243-7818 • Fax (808) 243-7833

May 12, 1998

Mr. Don Hibbard, Administrator
Historic Prezervation Division
Department of Land and Natural Resources
State of Hawaii
31 South King Street, 6* Floor
Honolulu, Hill 96813

Dear Mr. Hibbard:

Walohuli, Maul, Hawaii

Thank you for your letters dated January 20, 1995 (LOG No.: 13644, DOC No.: 9501SC03) and
Walohuli, Maul, Hawaii

Thank you for your letters are attached for your reference.

Subsequent to the November 8, 1994 publication of the subject Draft EA.

Subsequent to the November 8, 1994 publication of the subject Draft EA, the proposed water tark improvement have been resided to a different location within the same parcel, approximately 360 feet to the south. Pursuant to consultation within the same parcel, approximately 360 feet to the south. Pursuant to consultation within the same parcel, approximately 360 feet to the south. Pursuant to consultation within the same parcel, approximately 360 feet to the south. Pursuant to consultation within the same parcel, approximately 360 feet to the south. Pursuant to consultation with Mr. In998 Diven of your staff on April 22, 1998, a determination of "no effect" on significant historic sites for the new location was issued by your Department by the letter dated May 1, 1998. This information will be State Historic Preservation Division.

Since the anticipated environmental impacts are unchanged with the new location, we are proceeding to file the Final EA and Finding of No Significant Impact of termination with the Proceeding to file the Final EA and Finding of No Significant Impact determination with the State Office of Environmental Quality Control.

"By Water All Things Find Life"

appreviate your interest and participation in the consultation phase of the environmental review

Sincerely. D. O. L.

David R. Craddick

Attachments

cc: Mr. Barry Toyota, Wilson Okamoto & Associates, Inc.



DEPARTMENT OF LAND AND NATURAL RESOURCES
DINISION OF WATER AND LIND DEVELOPMENT
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HANDARU MARK MANN STATE OF HAWAII

February 6, 1995

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DEPARTMENT OF WATER BUPPLY COUNTY OF MAU! P.G. BOX 1108 WALLIKU, MAUL NAWA!! 88782-7108

April 28, 1998

State of Hawaii Director

P.O. Box 621

Honolulu, Hawaii 96809

Draft Environmental Assessment (EA) TMK: 2-2-17: Portion 6

This is in reference to your letter of January 6. 1995. Thank you for the opportunity to review the draft environmental assessment of the proposed County of Maui Department of Water Supply, Waiohuli Tank Replacement. We do not have any comments on the proposed construction of the \$00,000 gallon tank

Sigerely.

Wajohuli Tank Replacement Draft Environmental Assessment

etania Street

Mr. Burry Toyota Project Engineer 1907 S. Beretania S Honolulu, Hawaii

Dear Mr. Toyota:

This is to acknowledge the letter dated February 6, 1995 from Mr. Manabu Tagomori, former Manager-Chief Engineer of the State Department of Land and Natural Resources Division of Water and Land Development, indicating that his Department has no comments on the subject Draft EA. A copy of the letter is attached for your

Subsequent to the November 8, 1994 publication of the subject Draft EA, the proposed water tank improvements were re-sited to a different location within the same parcel, approximately 360 feet to the south. Since the anticipated environmental impacts are unchanged with the new location, we are proceeding to file the Final EA and Finding of No Significant Impact determination with the State Office of Environmental Quality Control.

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Manager Chief Engineer STANATED TACOMORE

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Mr. Michael D. Wilson

Department of Land and Natural Resources

Dear Mr. Wilson:

Waiohuli Tank Replacement Subject: Waiohuli, Maui, Hawaii

reference.

Mr. Michael D. Wilson, Director Department of Land and Natural Resources State of Hawaii April 28, 1998 Page 2

Your letter, along with this response, will be reproduced in the forthcoming Final EA. We appreciate your interest and participation in the consultation phase of the environmental review process.

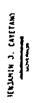
Sincerely.

(p) [Leadlick David R. Craddick Director

/HK:sc

Attachment: Ltr dtd 2/6/95

cc: Mr. Barry Toyota, Wilson Okamoto & Associates, Inc





STATE OF HAWAII DEPARTMENT OF TRANSPORTATION MS PUNCHBOM, STACET HOMOLULU HAWAR BAILS SOF

January 17, 1995

April 28, 1998

Department of Transportation Mr. Kazu Hayashida Director

869 Punchbowl Street Honolulu, Hawaii 96813-5097 State of Hawaii

Dear Mr. Hayashida:

Subject:

Waiohuli Tank Replacement Draft Environmenial Assessment (EA) TMK: 2-2-17: Portion 6 Waiohuli, Maui, Hawaii Thank you for your letter dated January 17, 1995 indicating that the proposed development will not have any impact on your Department's transportation facilities in the area. A copy of the letter is attached for your reference.

Subsequent to the November 8, 1994 publication of the subject Draft EA, the proposed water tank improvements were re-sited to a different location within the same parcel, approximately 360 feet to the south. Since the anticipated environmental impacts are unchanged with the new location, we are proceeding to file the Final EA and Finding of No Significant Impact determination with the State Office of Environmental Quality Control.

Mr. David Craddick, Director Department of Water Supply County of Maui 200 South High Street Wailuku, Hawaii 96793 Dear Mr. Craddick:

Subject. Waiohuli Tank Replacement Draft Environmental Assessment TMK: 2-2-17: por. 6

The proposed development will not have an impact on our transportation facilities in the area.

We appreciate the apportunity to provide comments.

Very truly yours,

MAZU HAYASHIDA

Director of Transportation

bc: Wilson Okamoto & Associates, Inc.

OEQC.

EAZU HAYASHIDA

WMCAYMHATU STP 8 6548

DEPARTMENT OF WATER BUPPLY

R.C. ROX 1108 WALLIKU, MALI, NAWAII 88783-7108 COUNTY OF MAU!

Mr. Kazu Hayashida, Director Department of Transportation State of Hawaii April 28, 1998 Page 2

Your letter, along with this response, will be reproduced in the forthcoming Final EA.

We appreciate your interest and participation in the consultation phase of the environmental review process.

Sincerely,

David R. Craddick

Director

HK:sc

Attachment: Lir did 1/17/95

CC: Mr. Barry Toyota, Wilson Okamoto & Associates, Inc.

University of Hawaii at Manoa

Weier Resources Research Center

MEMORANDUM

10 January 1995

TO: County of Mau!
Department of Water Supply
200 South High Street
Walluku, Mau!, Hawall 96793
FROM: Roger S. Fujloka 12 Frod.

SUBJECT: Draft EA

Water Resources Research Center does not object and, therefore, has no specific comments to the Draft Environmental Assessment for Walohull Tank Replacement.

RSF:Jmn

April 28, 1998

DEPARTMENT OF WATER BUPPLY COUNTY OF MALLI RC, EDX 1108 WAILJKU, MALLI, HAWAII 88782-7108

Water Resources Research Center University of Hawaii at Manoa Holmes Hall 283 2540 Dole Street Honolulu, Hawaii 96822 Mr. Roger Fujioka, Ph.D.

Dear Dr. Fujioka:

Waiohuli Tank Replacement Draft Environmental Assessment (EA) TMK: 2-2-17: Portion 6 Waiohuli, Maui, Hawaii Subject:

Thank you for your letter dated January 10, 1995 indicating that the Water Resources Research Center does not object and, therefore, has no specific comments on the subject Draft EA. A copy of the letter is attached for your reference.

Subsequent to the November 8, 1994 publication of the subject Draft EA, the proposed water tank improvements were re-sited to a different location within the same parcel, approximately 360 feet to the south. Since the anticipated environmental impacts are unchanged with the new location, we are proceeding to file the Final EA and Finding of No Significant Impact determination with the State Office of Environmental Quality Control.

AN EQUAL OPPORTUNITY EMPLOYER

Mr. Roger Fujioka, Ph.D., Director
Water Resources Research Center
University of Hawaii at Manoa
April 28, 1998
Page 2

Your letter, along with this response, will be reproduced in the forthcoming Final EA.
We appreciate your interest and participation in the consultation phase of the environmental review process.

Sincerely.

Sincerely.

M. P. L. L. M.

David R. Craddick
Director

/HK:sc

Attachment: Memo dtd 1/10/95

cc: Mr. Barry Toyota, Wilson Okamoto & Associates, Inc.



DEPARTMENT OF WATER BURDLY MALLIKU, MALL, MAMAII BETES-TIDE COUNTY OF MAU

MEMORANDUM

TO: DAVID BLANE, DIRECTOR OF PLANNING
FROM. DAVID BLANE, DIRECTOR OF PLANNING
FROM. DAVID R. CRADDICK, DIRECTOR OF WATER SUPPLY.

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT IEALFOR WADDILLI
TANK REPLACEMENT

This is in regard to your Memorandum dated November 15, 1994 and our response
Memorandum dated November 22, 1994 regarding the subject Draft EA. Copies of the
memoranda are attached for your reference.

Subsequent to the November 8, 1994 publication of the subject Draft EA. the proposed
water tank improvements were re-sited to a different location within the same parcel,
approximately 360 fect to the south. Since the anticipated environmental impacts are
unchanged with the new location, we are proceeding to file the Final EA and Finding
of No Significant Impact determination with the State Office of Environmental Quality
Control

The aforementioned correspondence, along with this response, will be reproduced in
the forthcoming Final EA. Should you have any questions, please feel free to contact
me at Ext. 7816.

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Attachments: Memo did 11/22/94
Memo did 11/15/98
Memo did 11/15/98
Mr. Barry Toyota, Wilson Okamoto & Associates, Inc.

LINDA CROCKETT LINGLE



6/8/// BPLAN W. MISK. Dérector OWEN Y, DHAS Deputy Direct

PLANNING DEPARTMENT

MEMORANDUM

November 15, 1994

Date:

David Craddick, Director Board of Water Supply

<u>:</u>

From:

BRIAN MISKAE PLANNING DIRECTOR

Environmental Assessment (EA) for Waiohuli Tank Replacement

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Thank you for allowing us to comment on the above referenced project,

The draft EA dated October 1994 for the project is correct in as much that the Makawao-Pukalani-Kula (M-P-K) Community Plan (CP) designation for the project area is agriculture. Pursuant 10 HRS 205-4.5 (7)--public, private, quasi-public--major water storage tanks are permissible uses within the agricultural districts. The proposed project would be consistent with both the State Land Use and Community Plan designation.

The EA fails to mention that "water supply and quality" is identified as a major problem by the M-P-K CP. That language within the M-P-K CP states that a separate domestic and irrigation water system should be established. The M-P-K CP states that water for irrigation is unnecessarily treated to domestic standards. The proposed project would perpetuate an inefficient system of supplying high quality domestic water for irrigation purposes.

BWM.IA:ery



BOARD OF WATER BUPPLY COUNTY OF MAUI P.D. BOX 1108 WAILUKU, MAUL HAWAII BE783-7108

Movember 22, 1994

BRIAN MISKAE, DIRECTOR OF PLANNING DAVID R. CRADDICK, DIRECTOR OF WATER SUPPLY NENGRANDIN
TO: BB
FROM: DA
SUBJECT: EN

ENVIRONMENTAL ASSESSMENT (EA) FOR WAIOHULI TANK REPLACEMENT - YOUR COMMENTS OF NOVEMBER 15, 1994

Thank you for your comments on the subject project.

We acknowledge the Makawao-Pukalani-Kula Community Plan statement that a separate domestic and irrigation system should be established. The Board of Water Supply has agreed with the State Department of Agriculture to co-sponsor the dual water line with the State Department of Agriculture.

Unfortunately, the need to up-size the reservoir is overdue. The plan is to construct the larger size reservoir is overdue, the dual water system becomes a reality. At that time, we plan to offer the up-sized reservoir for non-portable use, as part of our contribution to the project and construct a much smaller reservoir for domestic vater

Should you have any questions, please feei free to contact me at ext. 7816.

GMI:ms

cc: Ed Kagehiro

"By Wales All Dhings Flad . Life"

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DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT

1 AND USE AND CODES ADMINASTRATICAL 250 SOUTH MGH 51NEET WARUNU, MAUF, HAWAII 96793

RALPH MAGANINE, 1.S. PE
Lead Use and Codes Administration
CASSE MALLER PE
Wissersich Reclanation Demon
LLOYD P. C.W. LEE. PE
Information of Demon
DANID WISSELAR, P.
BRAIN HASHIRO, PE
HERWIN DANISHIRO, PE
HERWIN DANISHIRO, PE

December 15, 1994

Mr. Barry Toyota, Project Engineer Wilson Okamoto & Associates, Inc. 1907 S. Beretania Street Honolulu, HI 96826

Draft Environmental Assessment WAIGHULI TANK REPLACEMENT TMK: 2-2-017;por, 6 SUBJECT

Dear Mr. Toyota:

We reviewed the above draft environmental assessment and noted that creation of the proposed lot and access easement requires Title 18 (Subdivision) processing.

If you have any questions regarding this letter. please call me at 243.7845.

Very truly yours,

Leng. " Kay GEORGE N. KAYA

Director of Public Works & Waste Management

RMN:ey
xc: Engineering Division
Solid Waste Division
Wastewater Reclamation Division
Bruce Anderson
David Craddick



DEPARTMENT OF WATER BUPPLY COUNTY OF MALL! R.D. BOX 1108 WALLIKU, MAUL MAMA!! 88783-7108

April 28, 1998

MEMORANDUM

GEORGE N. KAYA. DIRECTOR OF PUBLIC WORKS & WASTE MANAGEMENT ö

DAVID R. CRADDICK, DIRECTOR OF WATER SUPPLY FROM:

DRAET ENVIRONMENTAL ASSESSMENT (EA) FOR WAIGHULI TANK REPLACEMENT SUBJECT:

Thank you for your letter dated December 15, 1994 commenting on the subject Draft EA. A copy of the letter is attached for your reference.

water tank improvements were re-sited to a different location within the same parcel, approximately 360 feet to the south. Since the anticipated environmental impacts are unchanged with the new location, we are proceeding to file the Final EA and Finding of No Significant Impact determination with the State Office of Environmental Quality Subsequent to the November 8, 1994 publication of the subject Draft EA, the proposed

We acknowledge that creation of the proposed lot and access easement requires Title 18 (Subdivision) processing and will coordinate with your Department on this matter.

Your letter, along with this response, will be reproduced in the forthcoming Final EA. Should you have any questions, please feel free to contact me at Ext. 7816.

Attachment: Ltr dtd 12/15/94

cc: Mr. Barry Toyota, Wilson Okamoto & Associates, Inc.

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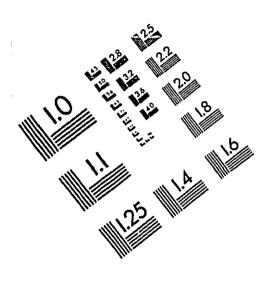
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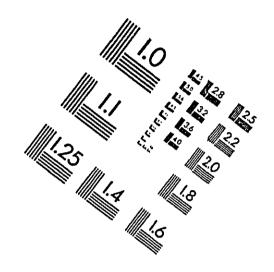
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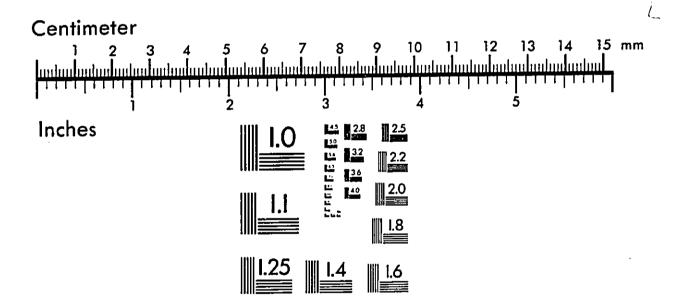


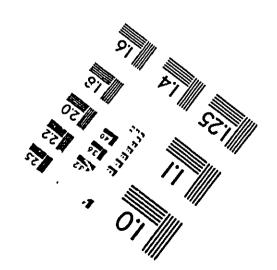


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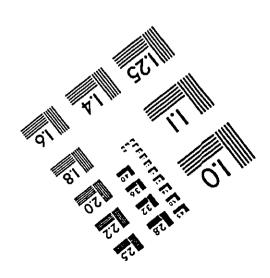
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