

Upper Happy Valley Fire
Protection



DEPARTMENT OF WATER SUPPLY

COUNTY OF MAUI

P.O. BOX 1109

WAILUKU, MAUI, HAWAII 96793-7109

TELEPHONE (808) 243-7816 • FAX (808) 243-7883

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June 9, 1998

OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

Mr. Gary Gill, Director
Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813

Dear Mr. Gill:

Subject: FINDING OF NO SIGNIFICANT IMPACT (FONSI) FOR UPPER HAPPY
VALLEY FIRE PROTECTION IMPROVEMENTS
WAILUKU, MAUI HAWAII

The County of Maui, Department of Water Supply has reviewed the comments received during the 30-day public comment period which began on May 8, 1998. The agency has determined that this project will not have significant environmental effects and has issued a FONSI. Please publish this notice in the June 23, 1998 OEQC Environmental Notice.

We have enclosed a completed OEQC Publication form and four copies of the Final EA. Please call our engineering division at 243-7835 if you have any questions.

Sincerely,

David R. Craddick
Director

/HK:sc

Enclosures: Publication Form
Final EA (4)

"By Water All Things Find Life"

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1998-06-23-MA-FEA-Upper Happy Valley
Fire Protection Improvements

JUN 23 1998

FILE COPY

Final Environmental Assessment

UPPER HAPPY VALLEY FIRE PROTECTION IMPROVEMENTS

Prepared for:

June 1998

County of Maui,
Department of Water Supply



*Final Environmental
Assessment*

**UPPER HAPPY VALLEY
FIRE PROTECTION
IMPROVEMENTS**

Prepared for:

June 1998

County of Maui,
Department of Water Supply



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Preface

The County of Maui, Department of Water Supply (DWS), proposes to construct waterline improvements, fire hydrants and related appurtenances in Happy Valley, Maui, Hawaii. Pursuant to Chapter 343, Hawaii Revised Statutes, and Chapter 200 of Title 11, Administrative Rules, Environmental Impact Statement Rules, this Environmental Assessment (EA) documents the project's technical characteristics and environmental impacts, and advances findings and conclusions relative to the significance of the project.

Chapter 1

Project Overview

I. PROJECT OVERVIEW

A. PROPERTY LOCATION, EXISTING USE AND LAND OWNERSHIP

The County of Maui, Department of Water Supply, proposes to construct waterline improvements, fire hydrants and related appurtenances in Upper Happy Valley, Maui, Hawaii. See Figure 1 and Figure 2.

Improvements within the scope of the project traverse public rights-of-way as well as private property. Work proposed to be located on a portion of Mokuhau Road, Konahea Street, and a portion of Kahawai Street, involve work within County owned rights-of-way.

It is noted that the entire length of Nenea Street as well as Kahawai Street, from Nenea to Konahea Streets, are designated as a separate tax map parcel (TMK 3-4-35:38). Although this segment of roadway has been in public roadway use for a number of years, it has never been formally dedicated to the County of Maui and there has been no known act of ownership by the owner for at least the last five (5) years. Pursuant to Section 264-1(c)(2), Hawaii Revised Statutes, the Department of Water Supply intends to coordinate the process of adopting this segment of roadway as a County highway by resolution passed by the Maui County Council.

Other waterline improvements traverse additional privately owned residential parcels (TMK 3-4-34: 4, 5, 7, 24, 34, 80, 82, 83, 101, 103, 109 and 3-4-35:41, 42). The County of Maui intends to obtain easements from these owners, as appropriate, for the proposed waterline improvements.

New fire hydrants placed on Mokuhau Road, between Konahea Street and Makua Street, are located on property designated as TMK 3-3-2:1.

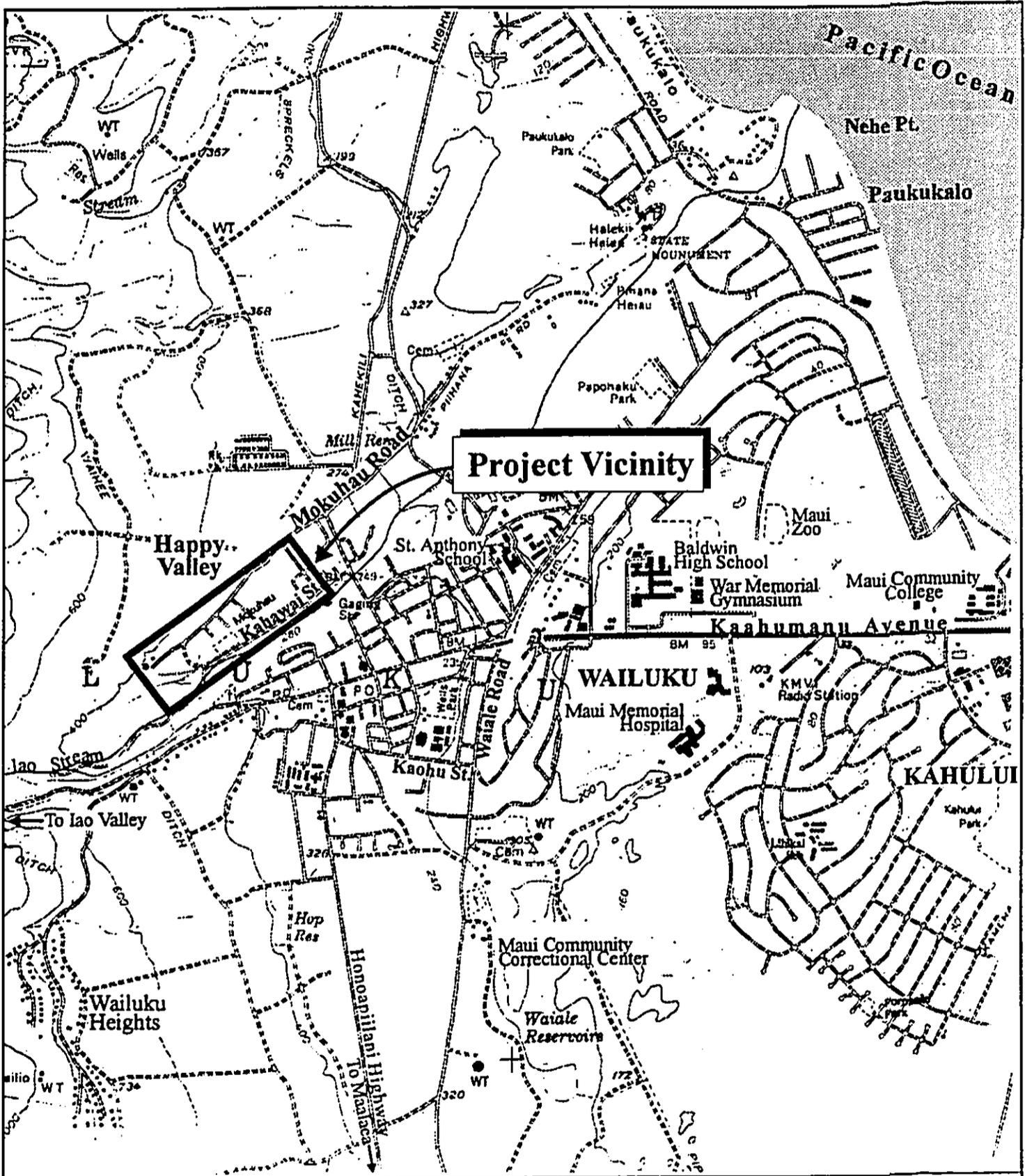
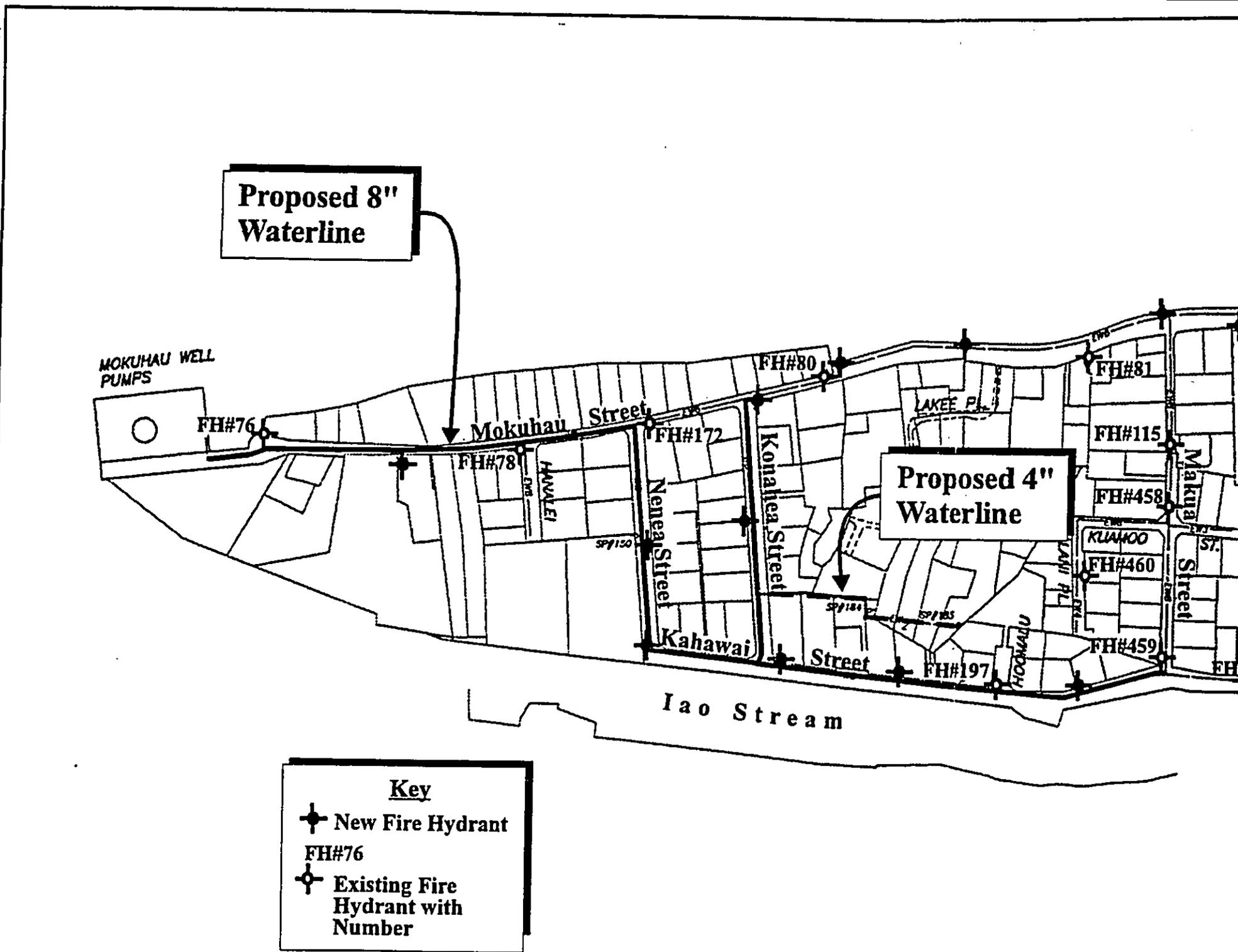


Figure 1

Upper Happy Valley
Fire Protection Improvements
Regional Location Map



Prepared for: County of Maui, Dept. of Water Supply



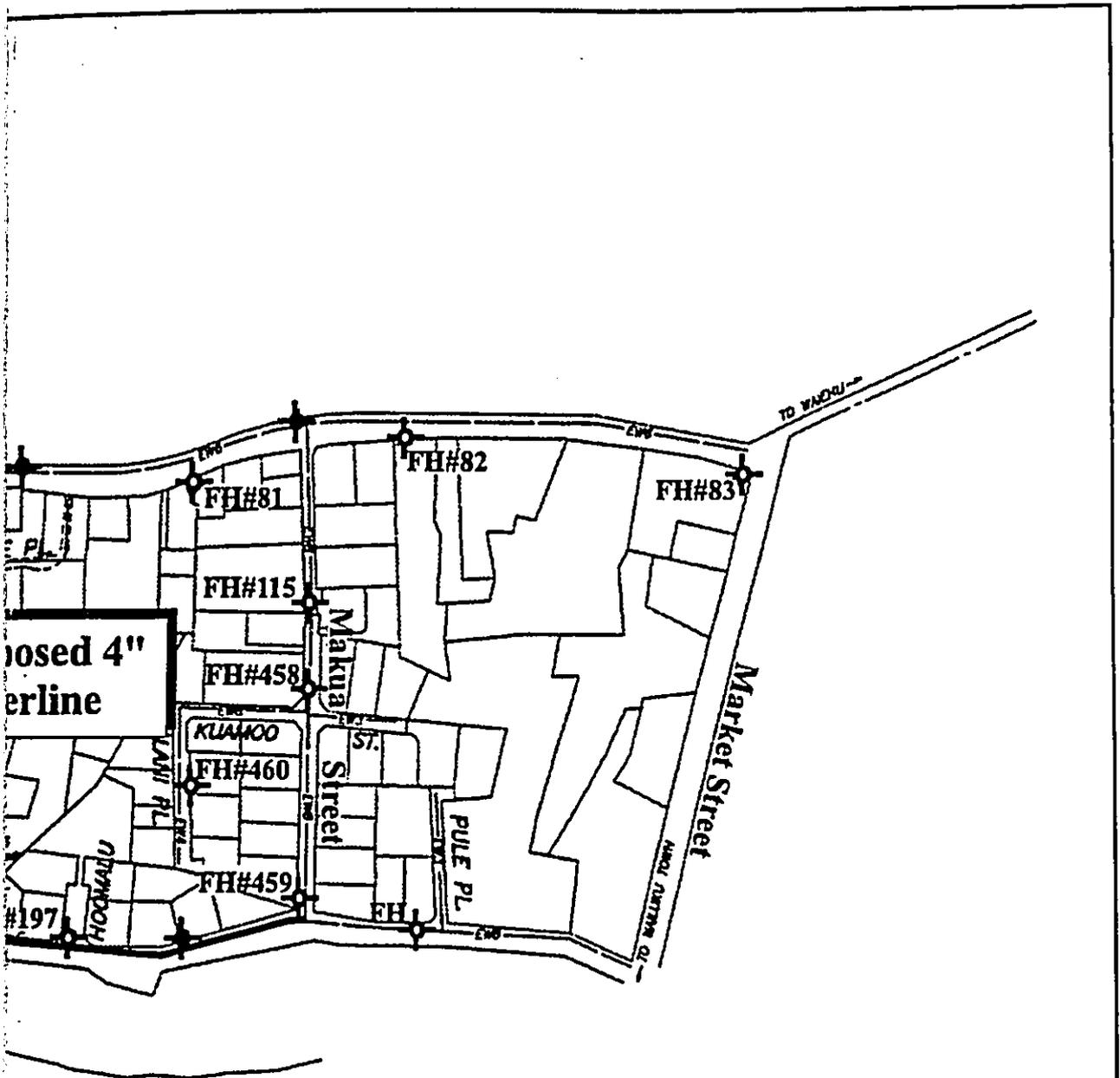
Source: Ronald M. Fukumoto Engineering, Inc.

Figure 2

Upper Happy Valley Fire Protection Improvements
General Site Plan



Prepared for: County of Maui, Dept. of Water Supply



tion Improvements



A new fire hydrant located further west on Mokuhau Road would be located on property designated as TMK 3-4-35:4.

The tax map parcels and owners affected by the proposed project, as derived from Tax Office records, are noted in Table 1.

County funds will be utilized for the construction of the project. An Environmental Assessment is being prepared pursuant to Chapter 343, Hawaii Revised Statutes.

Table 1

PROPERTY OWNERS AFFECTED BY UPPER HAPPY VALLEY FIRE PROTECTION IMPROVEMENTS PROJECT	
TMK	Owner
3-3-2:1	Wailuku Agribusiness Company, Inc.
3-4-34:4	Kamei Muneo/Trust Kamei, Jane K. Trust Ahuna, Mary Kahoopii, Benjamin
3-4-34:5	Miyamoto, Judy Kondo, Florence M. Manta, Walter Y. Tanji, Yukie
3-4-34:7	Imai, Jerry S.
3-4-34:24	Kalehuawehe, John Edward Kalehuawehe, Roselani M.
3-4-34:34	Molina, Domingo Molina, Lillian K.
3-4-34:80	Inouye, Kimiko A. Inouye, Ronald H. Inouye, Erlene S.
3-4-34:82	Tanji, Hisao Tanji, Yukie Miyamoto, Judy
3-4-34:83	Sato, Akiko M. Trust
3-4-34:101	Kalehuawehe, John I., Jr. Kalehuawehe, John E. Kalehuawehe, Edith L.
3-4-34:103	Chong Kee, Marian Y. Trust
3-4-34:109	Canete, Josephine R. Shimabukuro, Irene
3-4-35:4	Konko Kon Mission Wailuku
3-4-35:38	Munoz, Frank Munoz, Jessie R.
3-4-35:41	Delima, Stanley Delima, Genevieve L.
3-4-35:42	Ikeda, Larry E. Ikeda, Carole C.

B. PROPOSED ACTION

The proposed project involves the construction of approximately 3,500 lineal feet of 8-inch waterline, approximately 500 lineal feet of 4-inch waterline, fire hydrants and related appurtenances in Happy Valley.

Regarding the 8-inch waterline, approximately 1,300 lineal feet of waterline are proposed on Kahawai Street, approximately 625 lineal feet on Konahea Street, approximately 525 lineal feet on Nenea Street, and approximately 1,050 lineal feet on Mokuhau Road. Additional fire hydrants are proposed along the waterline alignment to meet County standards. Four (4) new hydrants are also proposed on Mokuhau Road between Konahea Street and Makua Street. The proposed 4-inch waterline replaces an existing 2-inch waterline which extends from Konahea Street to service a number of existing interior parcels.

The purpose of the proposed improvements is to upgrade the existing distribution and fire flow system within Happy Valley. Water is currently provided to the Happy Valley area by the Iao Tank Reservoir located near the fork of West Main Street and Iao Valley Road in Wailuku. Water from the Iao Tank supplies Wailuku Town as well as Happy Valley. There is an existing 18-inch line on Market Street which links with an 8-inch line on Kahawai Street and an existing 6-inch line on Mokuhau Road.

Construction within or near existing roadway rights-of-way is expected to be by mechanical backhoe. Trenching is anticipated to be approximately 24 inches wide with at least 3 feet of cover over the waterline. No more than 300 feet of trench is anticipated to remain open at any one time. Excavated material is expected to be utilized for fill. After restoring the original grade, temporary asphalt patches will be installed to be followed by permanent asphalt paving. Reconstruction and resurfacing of

roadways shall be coordinated with the County of Maui, Department of Public Works and Waste Management.

Construction of the 4-inch waterline would largely be done by hand digging or small mechanical equipment. There would be at least 2.5 feet of cover over the waterline. Where waterline improvements are proposed over landscaped areas, disturbed areas shall be grassed after restoration of the original grade. Other improvements within private yard areas which may be disturbed will be restored or repaired to pre-construction condition to the greatest extent possible.

Construction start is anticipated to be in January 1999 with completion anticipated by June 1999. The estimated construction cost is approximately \$865,000.00.

Chapter II

***Description of the
Existing Environment***

II. DESCRIPTION OF THE EXISTING ENVIRONMENT

A. PHYSICAL ENVIRONMENT

1. Surrounding Land Uses

The project site is located within Happy Valley, to the northwest of the Wailuku Town Civic Center.

The proposed improvements are located largely within or adjacent to existing streets in a single-family residential neighborhood. To the southeast of Kahawai Street is the Iao Stream. On the other bank of Iao Stream are additional single-family and multi-family residential uses. Beyond these uses are commercial uses within Wailuku Town.

To the east of the project area is Market Street which represents the most direct roadway linkage to Wailuku. Commercial uses abut the Market Street frontages in Happy Valley. Further east is the Piihaha area which contains scattered residential uses and macadamia nut cultivation.

Lands to the north are in macadamia nut cultivation. Lands to the east are vacant and lead into Iao Valley.

2. Climate

Maui's climate is relatively uniform year-round. The project site experiences mild and uniform temperatures year round, moderate humidity, and a relatively consistent northeasterly trade wind. Variation in climate on the Island is largely left to local terrain.

Average temperatures at the project site range from lows in the 60's to highs in the 80's (Atlas of Hawaii, 1983). August is

historically the warmest month, while January and February are the coolest. Rainfall in Wailuku averages approximately 30 to 40 inches per year. Winds in the region are predominantly out of the north-northeast and northeast.

3. **Topography and Soil Characteristics**

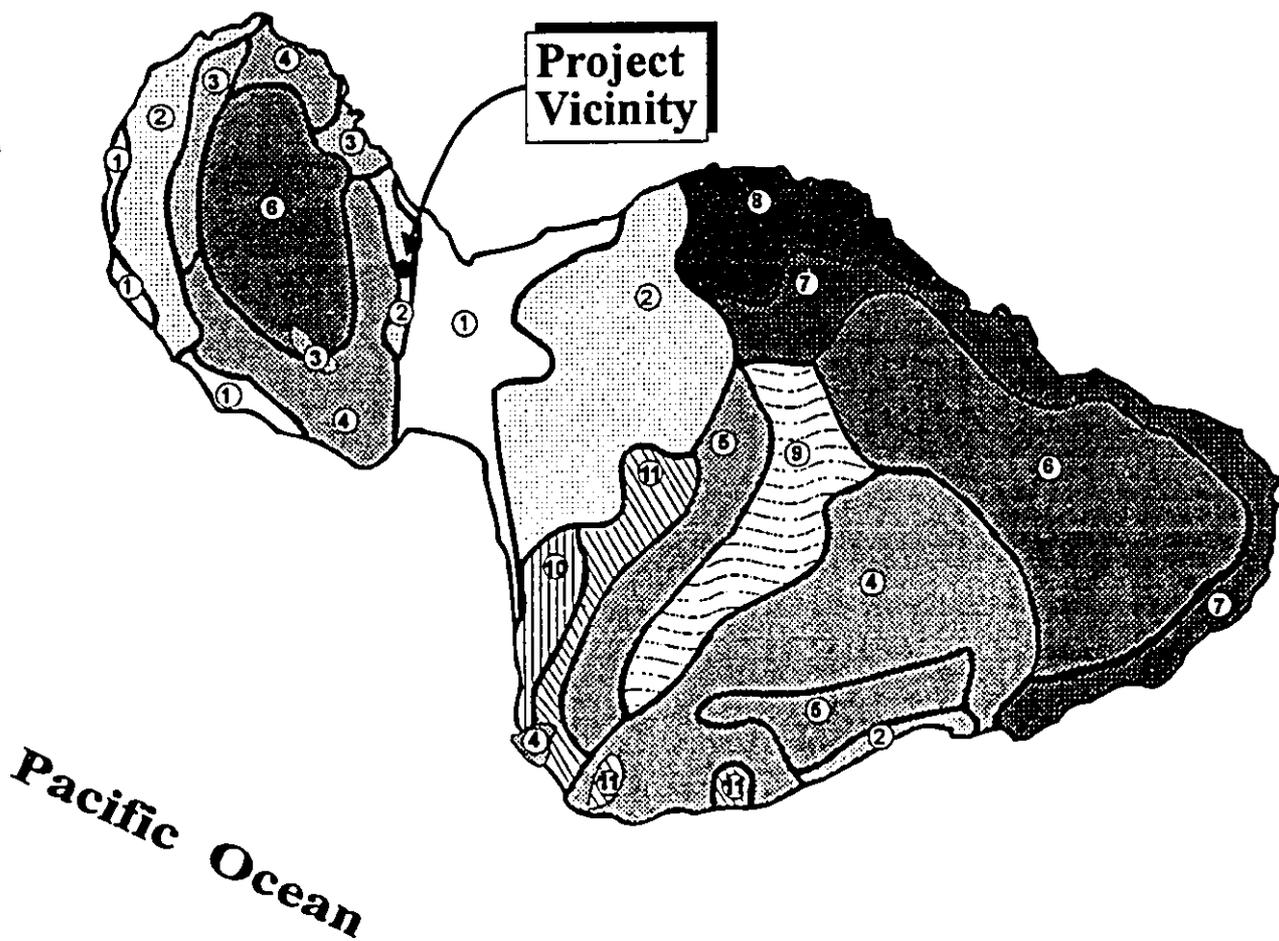
The project site is located on gently sloping lands at elevations ranging from approximately 260 to 360 feet above sea level. The average slope is approximately 4 percent. There are no significant topographical constraints within the site.

Underlying the project site and the surrounding lands is the Waiakoa-Keahua-Molokai soil association. See Figure 3. The soils belonging to this association are well-drained, moderately fine textured and are located on low uplands. This association was formed in material weathered from basic igneous rocks.

The soil types underlying the project site consist of loess cobbly silty clay, 3 to 7 percent slopes (lbB) and Stony Alluvial Land (rSM), 3 to 15 percent slope. See Figure 4. In a representative profile, lbB soils have a cobbly silty clay surface layer about 15 inches thick. The subsoil, about 45 inches thick, is very dark brown, dark-brown, and very dark grayish-brown clay and silty clay. The substratum is clayey alluvium. This soil is suited for sugarcane and homesites. Regarding rSM soils, this type consists of stones, boulders and soil deposited by streams along the bottom of gulches and alluvial fans. Soil of this series are suited to pasture in the dry areas and woodlands in the wet areas.

LEGEND

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>① Pulehu-Ewa-Jaucas association</p> <p>② Waiakoa-Keahua-Molokai association</p> <p>③ Honolulu-Olelo association</p> <p>④ Rock land-Rough mountainous land association</p> <p>⑤ Puu Pa-Kula-Pane association</p> <p>⑥ Hydrandepts-Tropaquods association</p> | <p>⑦ Hana-Makaalae-Kailua association</p> <p>⑧ Pauwela-Haiku association</p> <p>⑨ Laumaia-Kaipoi-Olinda association</p> <p>⑩ Keawakapu-Makena association</p> <p>⑪ Kamaole-Oanapuka association</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Map Source: USDA Soil Conservation Service

Figure 3

**Upper Happy Valley Fire
Protection Improvements
Soil Association Map**



Prepared for: County of Maui, Dept. of Water Supply

NOT TO SCALE

4. **Flood and Tsunami Hazard**

The project site is located within Zone "C", as determined by the Flood Insurance Rate Map for the region. Zone "C" is an area of minimal flooding. See Figure 5. The proposed project site is located adjacent to and north of the U.S. Army Corps of Engineers' Iao Stream Flood Control project. This project included the construction of levees to provide for safe streamwater conveyance and protection to preclude flooding from intense storm events.

5. **Flora and Fauna**

The project site is located within or adjacent to existing roadways as well as within an established single-family residential neighborhood. There are no known rare, endangered or threatened species of plants within the project area.

Fauna and avifauna found in the vicinity of the project site include mongoose, rats, dogs and cats. Avifauna typically include mynas, doves, cardinals and sparrows. There are no known rare, endangered or threatened species of fauna or avifauna found in the vicinity of the project site.

6. **Air Quality and Noise Characteristics**

Air quality in the Wailuku region is considered good as point sources and non-point sources of emissions are not significant to generate high concentration of pollutants. The relatively high air quality can also be attributed to the region's constant exposure to trade winds which quickly disperse concentrations of emissions.

The adjacent Iao Stream and natural wind are the predominant source of background noises in the vicinity of the project.

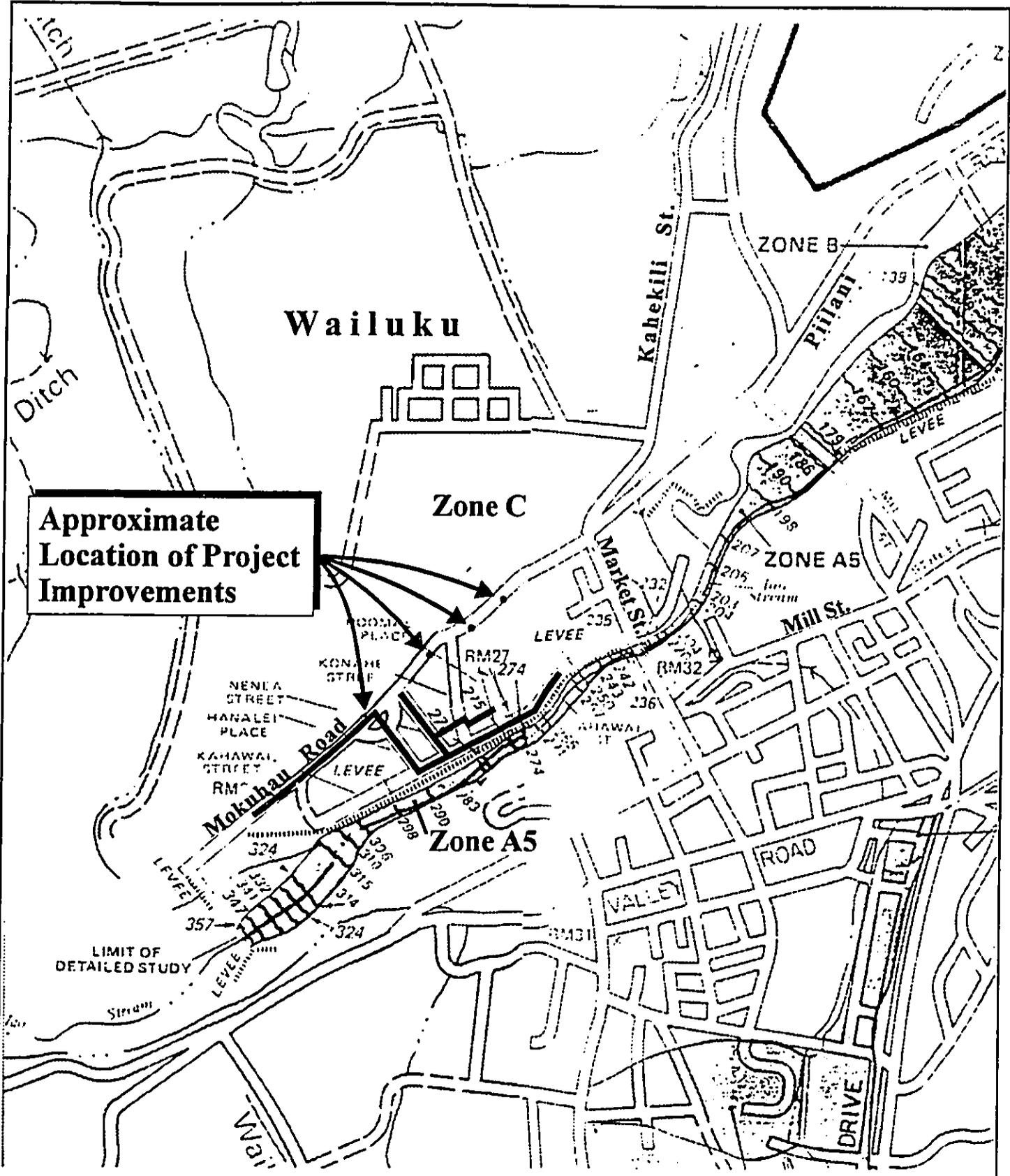


Figure 5 Upper Happy Valley Fire Protection Improvements Flood Insurance Rate Map





Prepared for: County of Maui, Dept. of Water Supply

7. **Visual Resources**

The West Maui Mountains, Iao Stream and the Pacific Ocean are visible from the project site. However, the project site is utilized for roadway and other uses allowable within a single-family residential neighborhood. The project site is not considered unique in terms of visual resource value.

8. **Archaeological Resources**

The site has been previously disturbed by construction of the roadways. There are existing underground water and sewerlines within the right-of-way. The roadway surface is asphalt. The neighborhood is also fully developed. Construction proposed to take place outside of the roadway right-of-way also occurs on property which has been primarily disturbed. There are no surface archaeological features within the project site.

B. **SOCIO-ECONOMIC ENVIRONMENT**

1. **Population**

The population of the County of Maui has exhibited relatively strong growth over the past decade with the 1990 population estimated to be 100,504, a 41.9 percent increase over the 1980 population of 70,847. Growth in the County is expected to continue, with resident population projections to the years 2000 and 2010, estimated to be 124,560 and 145,870, respectively (Community Resources, Inc., 1994).

The Wailuku-Kahului Community Plan region follows the County-wide pattern of population growth, with the region's 1990 population

of 32,816 expected to rise to 40,452 by the year 2000 and to 48,132 by the year 2010 (Community Resources, Inc., 1994).

2. Economy

As noted previously, the Wailuku region is the Island's center of governmental activities, as well as a focal point for professional and business services. Combined with neighboring Kahului, the region's economic character encompasses a broad range of commercial, service, and governmental activities. In addition, the region is surrounded by significant agricultural acreages which include pineapple fields and macadamia nut orchards. The vast expanse of agricultural land, managed by Hawaiian Commercial & Sugar (HC&S) and Wailuku Agribusiness Company, Inc., is considered a key component of the local economy.

C. PUBLIC SERVICES

1. Police and Fire Protection

Police protection for the Wailuku-Kahului region is provided by the County Police Department, headquartered at the Wailuku Station, approximately 1.5 miles from the project site. The region is served by the Department's Central Maui patrol.

Fire prevention, suppression, and protection services for the Wailuku-Kahului region is provided by the County Department of Fire Control's Wailuku Station, located in Wailuku Town, approximately 0.6 mile from the project site.

2. Health Care

Maui Memorial Hospital, the only major medical facility on the Island, services the Wailuku-Kahului region. Acute, general and

emergency care services are provided by the 185-bed facility. In addition, numerous privately operated medical/dental clinics and offices are located in the area to serve the region's residents.

3. **Solid Waste**

Single-family residential solid waste collection service is provided by the County of Maui on a once-a-week basis. Residential solid waste collected by County crews are disposed at the County's 55-acre Central Maui Landfill, located four (4) miles southeast of the Kahului Airport. In addition to County-collected refuse, the Central Maui Landfill accepts commercial waste from private collection companies.

4. **Recreational Resources**

The Wailuku-Kahului region encompasses a full range of recreational opportunities, including shoreline and boating activities at the Kahului Harbor and adjoining beach parks, and individual and organized athletic activities offered at numerous County parks. The project site is in close proximity to Iao Valley State Park, the Wailuku Community Center, Mokuhau Park, and Papohaku Park.

5. **Schools**

The Wailuku-Kahului region is served by the State Department of Education's public school system, as well as several privately operated schools accommodating elementary, intermediate and high school students. Department of Education facilities in the Wailuku area include Wailuku Elementary School and Waihee School (Grades K to 5), Iao Intermediate School (Grades 6 to 8), and Baldwin High School (Grades 9 to 12). Maui Community

College, a branch of the University of Hawaii, serves as the Island's only Community College.

D. INFRASTRUCTURE

1. Roadways

The Wailuku region is served by a roadway network which includes arterial, collector (minor and major), and local roads. Major roadways serving Wailuku Town include Honoapiilani Highway, Kaahumanu Avenue, Lower Main/Kahului Beach Road, Waiehu Beach Road and Kahekili Highway.

Access to Happy Valley and the project site is via Mokuhau Road and Kahawai Street. Both are two-way County minor-collector roadways. Nenea Street and Konahea Street are local roads, both of which connect with Mokuhau Road and Kahawai Street.

2. Wastewater

Domestic wastewater generated in the Wailuku-Kahului region is conveyed to the County's Wailuku-Kahului Wastewater Reclamation Facility located one-half mile south of Kahului Harbor. The design capacity of the facility is 7.9 million gallons per day (mgd). Average daily flow currently processed through the plant is approximately 6.6 mgd.

3. Drainage

Storm runoff generally sheet flows toward Iao Stream following existing roadways. Along Kahawai Street, there are a number of grated inlets which collect flows which are then routed to Iao Stream.

4. *Electric and Telephone Services*

Electrical and telephone services are provided by Maui Electric Company and GTE Hawaiian Telephone, respectively.

Chapter III

Potential Impacts and Mitigation Measures

III. POTENTIAL IMPACTS AND MITIGATION MEASURES

A. PHYSICAL ENVIRONMENT

1. Surrounding Uses

The project site is located within the established single-family residential neighborhood of Happy Valley. The proposed project will be located within or adjacent to existing rights-of-way as well as on other privately owned parcels. With the exception of new fire hydrants, the proposed improvements are located underground. After construction of the improvements, disturbed areas shall be restored to pre-construction conditions to the greatest extent practicable. The proposed project is not anticipated to have any adverse effects on surrounding land uses.

2. Topography and Soil Characteristics

The proposed project will involve trenching for the waterlines and other improvements. The finished contours will follow existing grades and will not disturb the slope and land use characteristics of the Lao Stream and surrounding properties.

3. Flora and Fauna

There are no known significant habitats or rare, endangered or threatened species of flora and fauna at the subject property. The proposed action is therefore not considered an adverse impact upon these environmental features.

4. Air Quality and Noise

Air quality impacts attributed to the project will include minimal dust generated by short-term construction-related activities.

Construction within or adjacent to the right-of-way is expected to be by backhoe with open trenching not to exceed 300 feet in length.

After the necessary fill is placed over a completed section of waterline, the affected section of roadway will be paved with asphalt. Other waterline construction may be by hand digging or small mechanical equipment. Because of the small area of exposed surfaces at any one time, dust impacts are expected to be minimal.

Ambient noise conditions will be temporarily impacted by construction activities. All construction activities will be limited to normal daylight working hours. The contractor will be required to coordinate with the State Department of Health regarding applicable noise permits.

In the long term, the project will not result in any change in air quality or noise parameters.

5. **Visual Resources**

Except for the fire hydrants, the proposed project will be located underground and will have no significant impact on visual resources. The proposed project is not anticipated to adversely impact the open space and scenic character of the area.

6. **Archaeological Resources**

The site has already been disturbed and thus contains no surface archaeological materials. Should human osteological or other cultural remains be uncovered during construction activities, applicable procedures to ensure compliance with Chapter 6E, HRS, will be followed.

B. IMPACTS TO COMMUNITY SETTING

1. Population and Local Economy

On a short-term basis, the project will support construction and construction-related employment.

In the long term, the proposed project upgrades the water distribution and fire protection system in the Upper Happy Valley area. Although not a direct economic benefit, the proposed infrastructure improvements will maintain the economic viability as well as the health and safety of the neighborhood.

2. Public Services

The proposed use of the property is not expected to increase the resident or visitor population. As such, the proposed project is not anticipated to affect the service area limits or requirements for emergency services such as police, fire and medical services. Furthermore, the project will not affect recreational facilities and public schools.

3. Solid Waste

A solid waste management plan will be developed in coordination with the Solid Waste Division of the County Department of Public Works and Waste Management for the disposal of clearing and grubbing material from the site during construction.

C. IMPACTS TO INFRASTRUCTURE

1. Roadways

During construction, at least one (1) lane of traffic will remain open at all times. It is anticipated that open trenches shall be covered

during non-work periods (i.e., nighttime, weekends, holidays) to allow use of two (2) travel lanes.

In the long term, the project should have no effect on area roadways. After installation of the waterlines, the project would involve filling and resurfacing of the affected roadways to restore it to pre-construction conditions, to the extent possible.

2. Wastewater

No impacts are anticipated to the County's wastewater system since the proposed project does not require connections to the County's sewer system.

3. Drainage

During construction, the extent of open trenching will be limited to no more than 300 feet. As waterline segments are completed, the trench along that section will be filled and temporary asphalt will be placed on the fill. Silt barricades or other appropriate siltation control measures shall be implemented.

In the long term, the project will not affect the extent to impermeable surface and thus will not increase runoff rates. Development of the proposed project is not expected to cause any adverse effects to adjacent or downstream properties.

4. Electric and Telephone Services

The contractor shall be required to coordinate trenching and excavation near utility poles with Maui Electric Company and GTE Hawaiian Telephone. The proposed project is not anticipated to

adversely impact electrical and telephone services in the Wailuku-Kahului region.

Chapter IV

***Relationship to Governmental
Plans, Policies and Controls***

IV. RELATIONSHIP TO GOVERNMENTAL PLANS, POLICIES AND CONTROLS

A. STATE LAND USE DISTRICTS

Chapter 205, Hawaii Revised Statutes, relating to the Land Use Commission, establishes the four (4) small major land use districts in which all lands in the State are placed. These districts are classified "Urban", "Rural", "Agricultural", and "Conservation". The subject parcel is mostly within the "Urban" district with a small portion in the State "Agricultural" district. See Figure 6. The proposed action involves waterline construction which is compatible with the "Urban" and "Agricultural" classifications.

B. MAUI COUNTY GENERAL PLAN

The Maui County General Plan sets forth broad objectives and policies to help guide the long-range development of the County. As stated in Section 8-8.5 of the Maui County Charter, "The General Plan shall recognize and state the major problems and opportunities concerning the needs and the development of the County and the social, economic and environmental effects of such development and shall set forth the desired sequence, patterns and characteristics of future development."

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

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

Policy:

Develop improved systems to provide better fire protection.

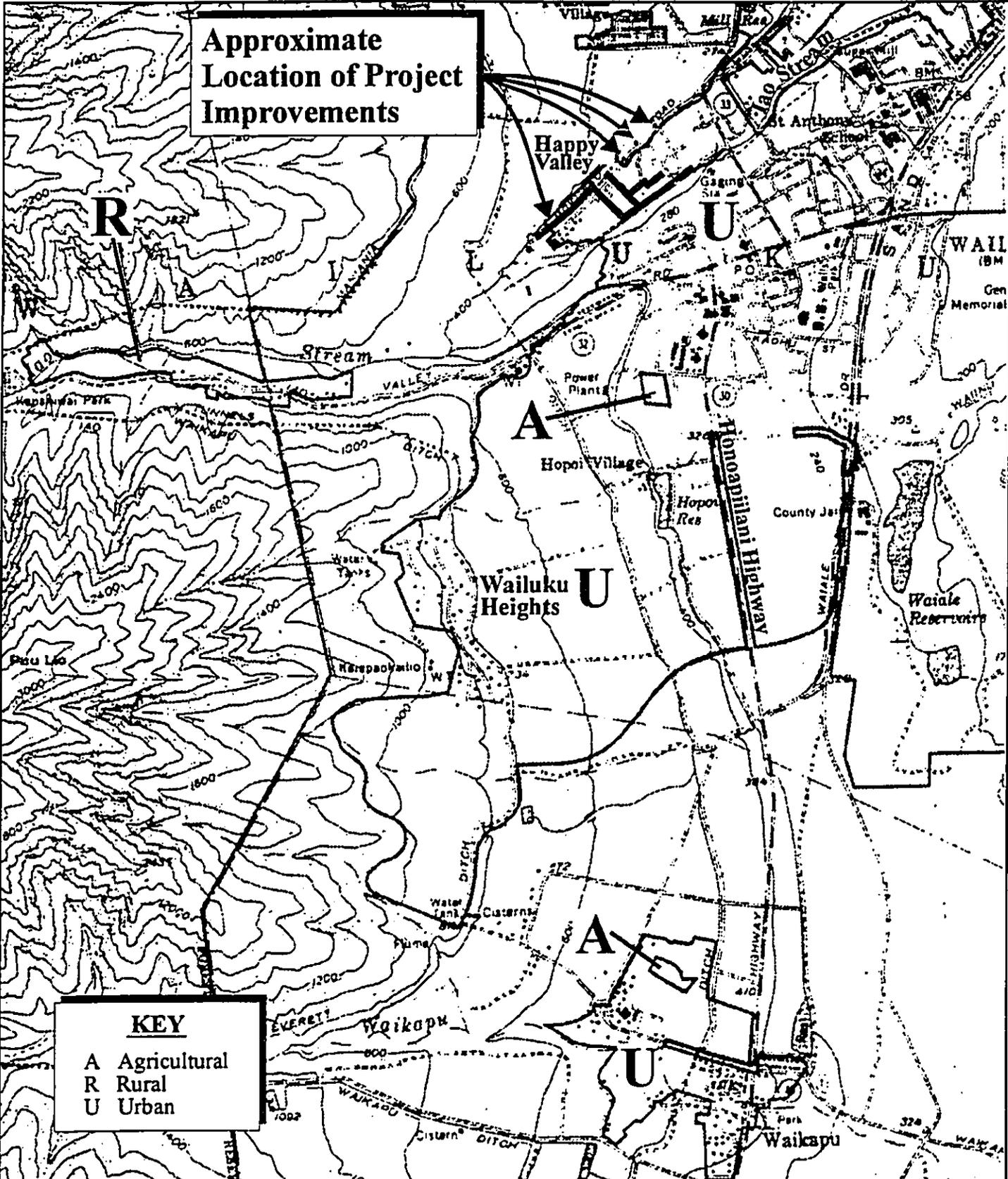
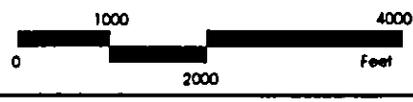


Figure 6 Upper Happy Valley
Fire Protection Improvements
State Land Use Classifications



Prepared for: County of Maui, Dept. of Water Supply

C. WAILUKU-KAHULUI COMMUNITY PLAN

The subject parcel is located in the Wailuku-Kahului Community Plan region which is one (1) of nine (9) Community Plan regions established in the County of Maui. Planning for each region is guided by the respective Community Plans, which are designed to implement the Maui County General Plan. Each Community Plan contains recommendations and standards which guide the sequencing, patterns and characteristics of future development in the region.

The project site traverses areas designated "Single Family Residential" and "Agriculture" on the Wailuku-Kahului Community Plan Land Use Map. The waterline alignment is also located adjacent to Open Space and Park designations. See Figure 7. The proposed project is not contrary to the land use designations noted in the community plan. The proposed project is in keeping with the following Wailuku-Kahului Community Plan recommendation for water distribution:

Coordinate water system improvement plans with growth areas to ensure adequate supply and a program to replace deteriorating portions of the distribution system. Future growth should be phased to be in concert with the service capacity of the water system.

D. COUNTY ZONING

The waterline alignment within roadway rights-of-way are not zoned. The 4-inch waterline, as well as the adjacent residential neighborhood, are zoned R-1 Residential District. The western-most portion of the waterline on Mokuhaul Road within the State Agricultural District is located within the Interim District.

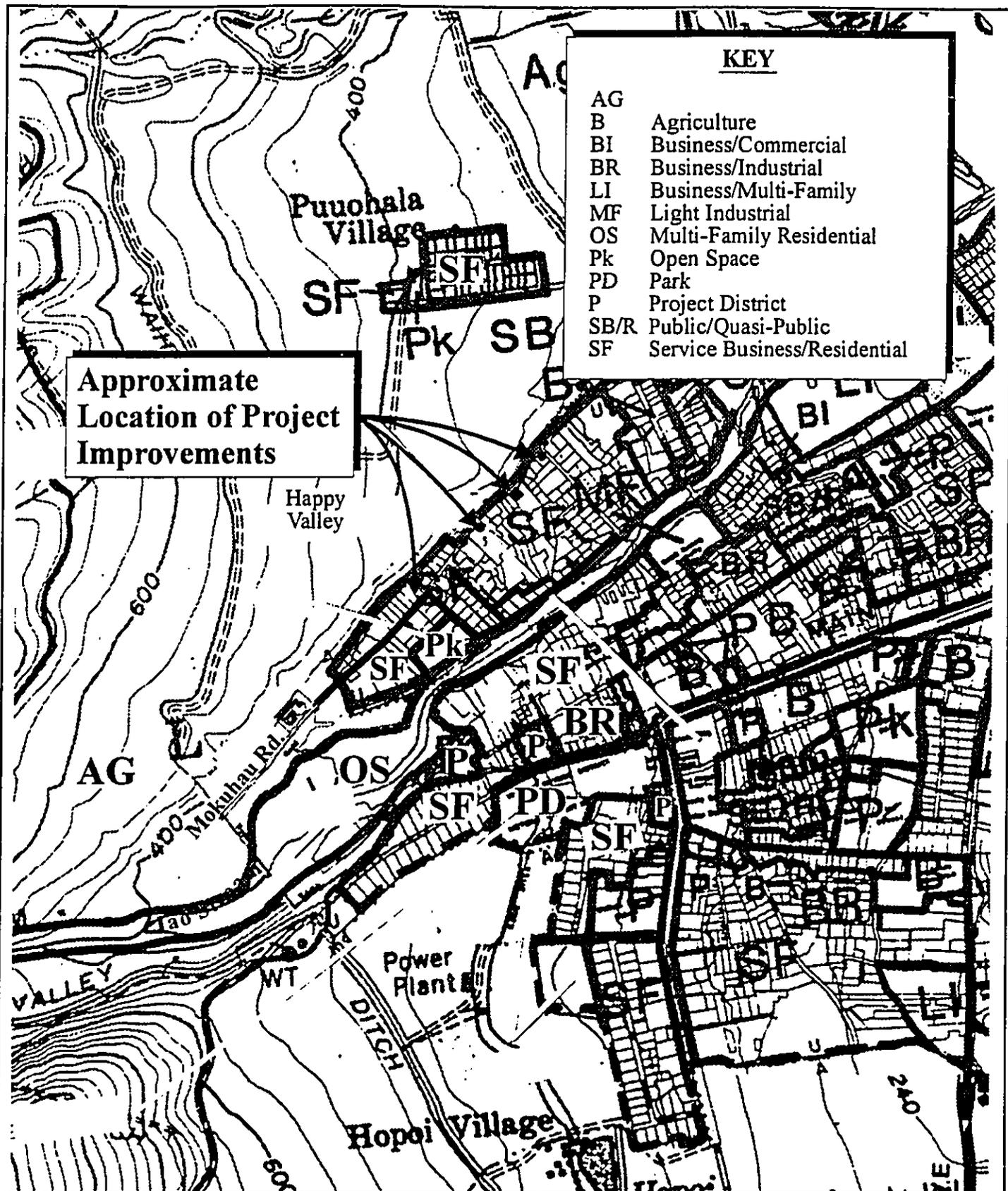


Figure 7

Upper Happy Valley
 Fire Protection Improvements
 Wailuku-Kahului Community
 Plan Land Use Designations



Chapter V

***Summary of Unavoidable Adverse
Environmental Effects; Alternatives
to the Proposed Action; and
Irreversible and Irretrievable
Commitment of Resources***

V. SUMMARY OF UNAVOIDABLE ADVERSE ENVIRONMENTAL EFFECTS; ALTERNATIVES TO THE PROPOSED ACTION; AND IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

A. UNAVOIDABLE ADVERSE ENVIRONMENTAL EFFECTS

The proposed project will result in some construction-related impacts as described in Chapter III, Potential Impacts and Mitigation Measures.

Potential effects include noise generated impacts occurring from construction activities. In addition, there may be exhaust emissions discharged by construction equipment.

The proposed project is not anticipated to create significant, long-term environmental effects.

B. ALTERNATIVES TO THE PROPOSED ACTION

1. No Action Alternative

The no action alternative would leave the existing water distribution system in its present state. Over time, this course of action may result in increased leakages in the system and non-efficient use of resources.

2. Proposed Action

The proposed action would enable the upgrading of the water distribution and fire protection system on a timely basis. Construction of larger waterlines and additional fire hydrants allows additional flows which aid fire fighting capability. This is considered beneficial from a public health and safety standpoint. Moreover, the infrastructure improvements contribute to the long-term economic stability of the neighborhood.

C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

The proposed project would involve the commitment of fuel, land, labor, and material resources.

Chapter VI

Findings and Conclusions

VI. FINDINGS AND CONCLUSIONS

The proposed project involves the construction of waterline improvements, fire hydrants, and other related appurtenances in Happy Valley, Maui, Hawaii.

Every phase of the proposed action, expected consequences, both primary and secondary, and the cumulative as well as the short-term and long-term effects of the action have been evaluated in accordance with the Significance Criteria of Section 11-200-12 of the Administrative Rules. Based on the analysis, the proposed project will not result in any significant impacts. Discussion of project conformance to the criteria is noted as follows:

1. **No irrevocable commitment to loss or destruction of any natural or cultural resource would occur as a result of the proposed project**

The project will not significantly affect slope and land use characteristics of the surrounding area.

The proposed waterline and related improvements are located within existing right-of-way corridors and other disturbed areas. Should any cultural remains be discovered during construction, applicable procedures to ensure compliance with Chapter 6E, HRS, will be followed.

2. **The proposed action would not curtail the range of beneficial uses of the environment**

The proposed project would not have a significant effect on the range of beneficial uses of the environment.

3. **The proposed action does not conflict with the State's long-term environmental policies or goals or guidelines as expressed in Chapter 344, Hawaii Revised Statutes**

The State Environmental Policy and Guidelines are set forth in Chapter 344, Hawaii Revised Statutes and were reviewed in connection with the

proposed project. The proposed action is in consonance with the State's long-term environmental policies and goals of Chapter 344, HRS.

4. **The economic or social welfare of the community or State would not be substantially affected**

The proposed project upgrades the water distribution and fire protection system in Upper Happy Valley which maintains the property values of the area. Thus, the project would result in an indirect economic benefit to the community and should have no effect upon social welfare parameters.

5. **The proposed action does not affect public health**

The project results in maintenance of public health and safety standards by ensuring reliable water and fire protection needs for the long term.

6. **No substantial secondary impacts, such as population changes or effects on public facilities, are anticipated**

No significant secondary impacts are anticipated from the project.

Except for temporary construction impacts, the proposed project is not anticipated to have a significant effect upon the area's roadways. The project does not require a connection to the County's sewer system and involves avoidance of existing sewerlines within the right-of-way. Drainage patterns will remain unchanged. The project is not expected to impact public services, such as police, fire and medical services. Impacts upon recreational, educational and solid waste parameters are also negligible.

7. **No substantial degradation of environmental quality is anticipated**

During the construction phase of the project, there will be short-term air quality and noise impacts as a result of the project. In the long term,

there should be no effect upon air quality and noise parameters. The project should not affect the open space and scenic character of the area.

No degradation of environmental quality resulting from the project is anticipated.

8. **The proposed action does not involve a commitment to larger actions, nor would cumulative impacts result in considerable effects on the environment**

The proposed project does not involve a commitment to larger actions.

9. **No rare, threatened or endangered species or their habitats would be adversely affected by the proposed action**

There are no rare, threatened or endangered species of flora, fauna or avifauna or their habitats on the subject property.

10. **Air quality, water quality or ambient noise levels would not be detrimentally affected by the proposed project**

Construction activities will result in short-term air quality and noise impacts. Dust control will be accomplished by minimizing the amount of open trench and placement of a temporary asphalt patch on completed sections of work. Noise impacts will occur primarily from construction-related activities. It is anticipated that construction will be limited to daylight working hours.

In the long term, the project is not anticipated to have a significant impact on air quality or noise parameters.

11. **The proposed project would not affect environmentally sensitive areas, such as flood plains, tsunami zones, erosion-prone areas, geologically hazardous lands, estuaries, fresh waters or coastal waters**

The project is not located within and would not affect environmentally sensitive areas. The project site is located adjacent to the Lao Stream Flood Control Project. The project site is not subject to flooding or tsunami inundation. Soils of the project site are not erosion-prone. There are no geologically hazardous lands, estuaries, or coastal waters within or adjacent to the project site.

12. **The Proposed Action Would Not Substantially Affect Scenic Vistas and Viewplanes Identified in County or State Plans or Studies**

The proposed action will not affect scenic vistas and viewplanes.

13. **The Proposed Action Would Not Require Substantial Energy Consumption**

The proposed action will not adversely affect energy consumption patterns.

Based on the foregoing findings, it is concluded that the proposed action will not result in any significant impacts.

Chapter VII

***Agencies/Organizations Consulted
in the Preparation of the
Environmental Assessment
and Responses Received***

VII. AGENCIES/ORGANIZATIONS CONSULTED IN THE PREPARATION OF THE ENVIRONMENTAL ASSESSMENT AND RESPONSES RECEIVED

1. David W. Blane, Director
County of Maui
Department of Planning
250 South High Street
Wailuku, Hawaii 96793
2. Howard Tagomori, Chief
County of Maui
Police Department
55 Mahalani Street
Wailuku, Hawaii 96793
3. Charles Jencks, Director
County of Maui
Department of Public Works
and Waste Management
200 South High Street
Wailuku, Hawaii 96793
4. Maui Electric Company, Ltd.
P.O. Box 398
Kahului, Hawaii 96732
5. Neal Fujiwara, Soil Conservationist
Natural Resources Conservation
Service
U.S. Department of Agriculture
210 Imi Kala Street, Suite 209
Wailuku, Hawaii 96793-2100
6. Lolly Silva
Department of the Army
U.S. Army Engineer District, Hnl.
Attn: Operations Division
Bldg. T-1, Room 105
Fort Shafter, Hawaii 96858-5440
7. Brooks Harper
U. S. Fish and Wildlife Service
P.O. Box 50167
Honolulu, Hawaii 96850
8. Rick Egged, Director
State of Hawaii
Office of Planning
Department of Business, Economic,
Development and Tourism
P.O. Box 2359
Honolulu, Hawaii 96804
9. Herbert Matsubayashi
District Environmental Health
Program Chief
State of Hawaii
Department of Health
54 High Street
Wailuku, Hawaii 96793
10. Don Hibbard
State of Hawaii
Department of Land and Natural
Resources
State Historic Preservation Division
33 South King Street, 6th Floor
Honolulu, Hawaii 96813
11. Robert Siarot, Maui District Engineer
State of Hawaii
Department of Transportation
Highways Division
650 Palapala Drive
Kahului, Hawaii 96732
12. Ronald Davis, Chief
County of Maui
Department of Fire Control
200 Dairy Road
Kahului, Hawaii 96732
13. Henry Oliva, Director
County of Maui
Department of Parks and
Recreation
200 South High Street
Wailuku, Hawaii
14. Jocelyn Perreira, Director
Wailuku Main Street Association
2062 Main Street
Wailuku, Hawaii 96793

LINDA LINGLE
Mayor

DAVID W. BLANE
Director

LISA M. NUYEN
Deputy Director



COUNTY OF MAUI
DEPARTMENT OF PLANNING

February 24, 1998

FEB 27 1998

CLAYTON I. YOSHIDA
Planning Division

AARON H. SHINMOTO
Zoning Administration and
Enforcement Division

Mr. Milton Arakawa, Project Manager
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Mr. Arakawa:

RE: Preliminary Review of a Draft Environmental Assessment (EA) for
the Proposed Upper Happy Valley Fire Protection Improvements

The Maui Planning Department has reviewed the project description and finds that the work is to upgrade the water and fire protection in the Upper Happy Valley area which is characterized as an older residential community in Wailuku Town. The proposed improvements will provide added fire protection and water service to the area.

The proposed improvements are within the existing road rights-of-way. Impacts from the project should be limited to construction-related impacts such as noise, dust, traffic disruptions, disruption in water service, etc. However, due to its location in an older residential community, there may be subsurface cultural or historic artifacts. You are advised to solicit comments from the Department of Land and Natural Resources, State Historic Preservation Division.

Thank you for the opportunity to comment. If additional clarification is required, please contact Ms. Colleen Suyama, Staff Planner, of this office at 243-7735.

Very truly yours,

Lisa M. Nuyen
for DAVID W. BLANE
Director of Planning

250 SOUTH HIGH STREET, WAILUKU, MAUI, HAWAII 96793
PLANNING DIVISION (808) 243-7735; ZONING DIVISION (808) 243-7253; FACSIMILE (808) 243-7634

Mr. Milton Arakawa, Project Manager
February 24, 1998
Page 2

DWB:CMS:osy

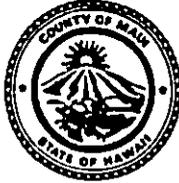
c: Clayton Yoshida, AICP, Planning Program Administrator
Colleen Suyama, Staff Planner
Project File
General File
(S:\CMS\HapVal)

MAR 17 1998

LINDA LINGLE
Mayor

CHARLES JENCKS
Director

DAVID C. GOODE
Deputy Director



RALPH NAGAMINE, L.S., P.E.
Land Use and Codes Administration

EASSIE MILLER, P.E.
Wastewater Reclamation Division

LLOYD P.C.W. LEE, P.E.
Engineering Division

BRIAN HASHIRO, P.E.
Highways Division

Solid Waste Division

Telephone: (808) 243-7845
Fax: (808) 243-7955

COUNTY OF MAUI
**DEPARTMENT OF PUBLIC WORKS
AND WASTE MANAGEMENT**

200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793

March 13, 1998

Mr. Milton Arakawa
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Mr. Arakawa:

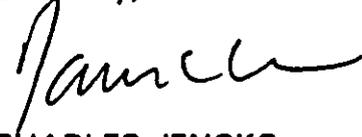
**SUBJECT: EARLY CONSULTATION
UPPER HAPPY VALLEY FIRE PROTECTION IMPROVEMENTS**

We reviewed the subject application and have the following comments.

1. All road improvements shall conform to County standards for new and reconstruction projects. Roads shall be reconstructed and resurfaced as required.
2. All sewerlines and sewer manholes in the area should be shown on construction plans. (Obtain maps at the Wastewater Reclamation Division.)
3. A Work-to-Perform on County Highways permit shall be obtained for the work within the County right-of-ways.

If you have any questions, please contact David Goode at 243-7845.

Sincerely,


CHARLES JENCKS
Director of Public Works
and Waste Management

DG:co/mt

MAR 16 1998



March 13, 1998

Mr. Milton Arakawa
Munekiyo, Arakawa and Hiraga, Inc.
305 High Street, Suite 104
Wailuku, HI 96793

Subject: Upper Happy Valley Fire Protection Improvements
Wailuku, Maui, Hawaii

Dear Mr. Arakawa:

This will acknowledge receipt of your preliminary plans dated February 20, 1998 of the County of Maui's proposed subject project.

The contractor shall maintain four feet of clearance when trenching or excavating near any utility poles. Construction equipment shall maintain a ten foot radial clearance around any overhead conductors. Should any of these requirements be in conflict with your plans, please contact me.

If you have any further questions, please feel free to call me at (808) 871-2337.

Sincerely,

A handwritten signature in black ink, appearing to read "Randall Nakama". The signature is fluid and cursive, written over the printed name.

Randall Nakama
Customer Designer

RN/lh



MAR 02 1998

United States
Department of
Agriculture

Natural
Resources
Conservation
Service

210 Iml Kala St.
Suite 209
Wailuku, HI
96793-2100

Our People...Our Islands...In Harmony

February 26, 1998

Mr. Milton Arakawa
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

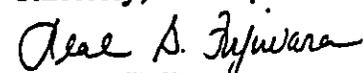
Dear Mr. Arakawa,

SUBJECT: Upper Happy Valley Fire Protection Improvements

I have reviewed your letter of February 20, 1998, regarding the subject proposed improvements and have nothing to offer at this time.

Thank you for the opportunity to comment.

Sincerely,


Neal S. Fujiwara
District Conservationist

The Natural Resources Conservation Service works hand-in-hand with
the American people to conserve natural resources on private lands.

AN EQUAL OPPORTUNITY EMPLOYER

MAR 24 1970



DEPARTMENT OF THE ARMY
U. S. ARMY ENGINEER DISTRICT, HONOLULU
FT. SHAFTER, HAWAII 96858-5440

REPLY TO
ATTENTION OF

March 18, 1998

Operations Branch

Mr. Milton Arakawa
Munekiyo, Arakawa & Hiraga Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Mr. Arakawa:

Thank you for the opportunity to review and comment on the information you provided for the proposed Department of Water Supply fire protection and water system improvements in Happy Valley, Wailuku, Maui. We do not have any comments to offer at this time; however we will need to review the project plans once they are developed to determine if a Department of the Army permit is required and to evaluate the site for a flood zone determination.

If you have any questions concerning this determination, please contact Mr. William Lennan of my staff at 438-9258, extension 13. Please refer to File No. 980000121.

Sincerely,

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

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



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

FEB 20 1998

LAWRENCE MIKE
DIRECTOR OF HEALTH

LAWRENCE KART, M.D., M.P.H.
DISTRICT HEALTH OFFICER

February 24, 1998

Milton Arakawa
Project Manager
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Mr. Arakawa:

Subject: Upper Happy Valley Fire Protection Improvements

The following may become factors of concern that should be given consideration when plans for the project are finalized:

1. The noise created during the construction phase of the project may exceed the maximum allowable levels as set forth in Hawaii Administrative Rules, Title 11, Chapter 46, "Community Noise Control". A noise permit may be required and should be obtained prior to the commencement of work.
2. Any construction discharge into state waters will require a National Pollutant Discharge Elimination System (NPDES) permit.

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

Sincerely,

A handwritten signature in black ink, appearing to read "H. Matsubayashi".

HERBERT S. MATSUBAYASHI
District Environmental Health Program Chief



"NO EFFECT"

[] Agriculture, [] Reaching
[x] Construction, [x] Roadway

Band Dicer
SHPD - Maui

FEB 23 1998

February 20, 1998

Don Hibbard
State of Hawaii
Department of Land and Natural Resources
State Historic Preservation Division
33 South King Street, 6th Floor
Honolulu, Hawaii 96813

SUBJECT: Upper Happy Valley Fire Protection Improvements

Dear Mr. Hibbard:

The County of Maui, Department of Water Supply (DWS) proposes the construction of waterline and appurtenances for fire protection and water system improvement purposes in Happy Valley, Wailuku on the Island of Maui. The proposed action will involve the installation of approximately 3,500 linear feet of 8-inch waterline, fire hydrants and related appurtenances. The enclosed Figures 1 and 2 show the location and vicinity of the proposed action.

Because County funds are being used for this project, and because work will be performed within the County rights-of-way, an environmental assessment will be prepared pursuant to Chapter 343, Hawaii Revised Statutes.

As part of the DWS' effort to solicit early consultation input, we are, on behalf of the DWS, seeking any comments you may have relative to the proposed action. Receipt of your written comments by March 20, 1998 would be appreciated.

If there are any questions regarding the proposed improvements, please do not hesitate to call.

Very truly yours,

Milton Arakawa

Milton Arakawa, Project Manager

MA:tav

Enclosures

cc: Eric Yamashige, Ronald M. Fukumoto Engineering, Inc. (w/enclosures)
Herbert Kogasaka, Department of Water Supply (w/enclosures)

Health & Safety Agency

BENJAMIN J. CAYETANO
GOVERNOR



**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

MAUI DISTRICT
650 PALAPALA DRIVE
KAHULUI, HAWAII 96732

KAZU HAYASHIDA
DIRECTOR

DEPUTY DIRECTORS
Brian K. Minaai
GLENN M. OKIMOTO

IN REPLY REFER TO:

HWY-M 2.060-98

March 5, 1998

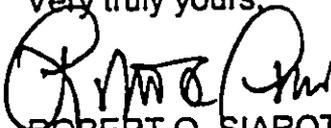
Mr. Milton Arakawa
Munekiyo, Arakawa & Hiraga, Inc.
305 S. High Street, Suite 104
Wailuku, Hawaii 96793

Dear Mr. Arakawa:

**SUBJECT: UPPER HAPPY VALLEY FIRE PROTECTION IMPROVEMENTS
I.D. NO. ME-98-11**

The location of the project will not impact our facilities. Thank you for giving us the opportunity to review and comment on the proposed improvements.

Very truly yours,


ROBERT O. SIAROT
District Engineer, Maui

PMC:dmf

FEB 27 1998

LINDA CROCKETT LINGLE
MAYOR



RONALD P. DAVIS
CHIEF
HENRY A. LINDO, SR.
DEPUTY CHIEF

COUNTY OF MAUI
DEPARTMENT OF FIRE CONTROL

200 DAIRY ROAD
KAHULUI, MAUI, HAWAII 96732
(808) 243-7561

February 25, 1998

Milton Arakawa, Project Manager
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, HI 96793

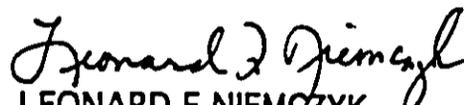
RE: Upper Happy Valley Fire Protection Improvements

Dear Mr. Arakawa,

The Department of Fire Control has no objection to recommending approval of the Upper Happy Valley Fire Protection Improvements.

If you have any questions, contact Captain Leonard Niemczyk at (808)243-7566.

Sincerely,


LEONARD F NIEMCZYK
Captain, FPB



DEPARTMENT OF
PARKS AND RECREATION
COUNTY OF MAUI

1580-C KAAHUMANU AVENUE WAILUKU, HAWAII 96793

MAR 06 1998

LINDA LINGLEY
Mayor

HENRY OLIVA
Director

ALLEN SHISHIDO
Deputy Director

(808) 243-7230
FAX (808) 243-7934

March 3, 1998

Milton Arakawa, Project Manager
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street
Wailuku, Hawaii 96793

RE: Upper Happy Valley Fire Protection Improvements

Dear Mr. Arakawa:

Thank you for the opportunity to comment on the above referenced project. At this time we do not have any comments to offer, other than to request provisions be made for adequate domestic water usage and fire protection at Mokuhou Park.

Should you have any questions on this matter or need further information, please call Patrick Matsui, Chief of Parks Planning & Development at 243-7931.

Sincerely,

Henry Oliva
Director

s:\planning\rh\happyval.wpd

MAR 20 1998



United States Department of the Interior

FISH AND WILDLIFE SERVICE
PACIFIC ISLANDS ECOREGION
300 ALA MOANA BOULEVARD, ROOM 3-122
BOX 50088
HONOLULU, HAWAII 96850
PHONE: (808) 541-3441 FAX: (808) 541-3470

MAR 25 1998

In Reply Refer To: LLLW

Mr. Milton Arakawa
Project Manager
Munekiyo, Arakawa, & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96817

Re: Upper Happy Valley Fire Protection Improvements

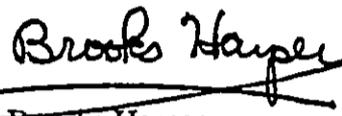
Dear Mr. Arakawa:

The U.S. Fish and Wildlife Service (Service) has reviewed your February 20, 1998, letter seeking comments relative to the preparation of an Environmental Assessment (EA) for the construction of a waterline and appurtenances for fire protection and other water system improvements in Happy Valley, Wailuku, Maui, Hawai'i. The project sponsor is the County of Maui, Department of Water Supply. The project involves the installation of approximately 3,500 linear feet of 8-inch water line, fire hydrants and related appurtenances. The Service offers the following comments for your consideration.

To the best of our knowledge no endangered, threatened, or candidate species, significant wetlands, or other Federal trust resources occur in the immediate project area. However, the Service recommends that the EA addresses potential impacts from the proposed project to other native Hawaiian plants and animals and their habitats. We recommend that construction activities include best management practices that are identified in the EA. For example, we recommend that clearing and grading activities be limited to the immediate vicinity of the project sites and that erosion control measures be incorporated into the project to ensure no additional sedimentation is added to nearby Iao Stream.

Provided that the scope and location of the proposed project do not change, no further coordination with the Service is required. The Service appreciates the opportunity to comment and if you have questions regarding these comments, please contact Fish and Wildlife Biologist Lorena Wada at 808/541-3441.

Sincerely,



Brooks Harper
Field Supervisor
Ecological Services

cc: CWB, Hawai'i
CZMP, Hawai'i
DAR, Hawai'i
DLNR Honolulu,

Chapter VIII

***Comments Received During the
Public Comment Period and
Applicable Response***



MAY 12 1998

United States
Department of
Agriculture

Natural
Resources
Conservation
Service

2101 Kala St.
Suite 209
Wailuku, HI
96793-2100

Our People...Our Islands...In Harmony

May 11, 1998

Mr. Milton Arakawa, Project Manager
Munekyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

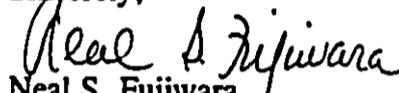
Dear Mr. Arakawa,

SUBJECT: Upper Happy Valley Fire Protection Improvements

I have no comment on the subject Draft Environmental Assessment.

Thank you for the opportunity to comment.

Sincerely,


Neal S. Fujiwara
District Conservationist

BENJAMIN J. CAYETANO
GOVERNOR



DATE: 5/14/98

GARY GILL
DIRECTOR

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

235 SOUTH BERETANIA STREET
SUITE 702
HONOLULU, HAWAII 96813
TELEPHONE (808) 586-4185
FACSIMILE (808) 586-4186

May 14, 1998

David Craddick
Department of Water Supply
200 South High Street
Wailuku, HI 96793

Dear Mr. Craddick:

Subject: Draft Environmental Assessment (EA) for Upper Happy Valley Fire
Protection Improvements

Please include the following in the final EA:

1. Construction impacts: Describe describe potential impacts and related mitigation measures regarding the following:
 - ▶ Safety at the project site (pedestrian safety and prevention of theft or vandalism of equipment and materials);
 - ▶ Construction runoff into Iao Stream;
 - ▶ Air emissions from construction equipment.
2. Permits and approvals: List all required permits and approvals (such as noise, dewatering and NPDES permits for construction) and the status of each.

If you have any questions, please call Nancy Heinrich at 586-4185.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary Gill".

GARY GILL
Director

c: Milton Arakawa



DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
P.O. BOX 1109
WAILUKU, MAUI, HAWAII 96793-7109
TELEPHONE (808) 243-7816 • FAX (808) 243-7833

June 9, 1998

Mr. Gary Gill, Director
Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813

Dear Mr. Gill:

**Subject: DRAFT ENVIRONMENTAL ASSESSMENT FOR UPPER HAPPY VALLEY
FIRE PROTECTION IMPROVEMENTS, WAILUKU MAUI, HAWAII**

Thank you for your letter of May 14, 1998 pertaining to the subject project. We would like to provide a response to your concerns as follows:

1. Regarding the issue of pedestrian safety, construction workers utilizing heavy equipment shall utilize due care in watching for pedestrians. No more than 300 feet of trench shall be open at any one time which serves to limit the area of construction. Barricades will also be placed around trenched areas. During periods of non-construction (i.e., nighttime, weekends, holidays), the contractor may opt to transport equipment which cannot be secured on-site back to a secured off-site location or baseyard.

Construction runoff is not likely to be a significant problem. There is a limitation of no more than 300 feet of open trench at any one time which serves to minimize the extent of exposed surface. After installation of the waterline and fill, temporary asphalt patches will be installed on roadway areas. Other areas will be grassed after establishment of the final grading. Silt screens will be installed at drain inlets in the area as a mitigation measure. The contractor will be required to erect and maintain the silt screens during the period of construction.

The contractor will be required to check construction equipment so it is operating properly in compliance with air emissions standards.

2. The contractor will be required to coordinate with the Department of Health regarding the applicability of a noise permit. The project does not involve dewatering and an NPDES permit is not applicable. There are no other known permits and approvals which are applicable to the proposed project. If other permits or approvals are found to be applicable, the applicant will coordinate compliance with the appropriate agency.

"By Water All Things Find Life"

Mr. Gary Gill, Director
June 9, 1998
Page 2

If you have any questions, please feel free to contact our engineering division at 243-7835.
Thank you for your interest in the project.

Sincerely,

A handwritten signature in cursive script, appearing to read "David R. Craddick". The signature is written in dark ink on a white background.

David R. Craddick
Director

/HK:sc

May 20, 1998



**DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT & TOURISM**

BENJAMIN J. CAYETANO
GOVERNOR
SEIJI F. NAYA
DIRECTOR
BRADLEY J. MOSSMAN
DEPUTY DIRECTOR
RICK EGGED
DIRECTOR, OFFICE OF PLANNING

OFFICE OF PLANNING

235 South Beretania Street, 6th Flr., Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Tel.: (808) 587-2846
Fax: (808) 587-2824

Ref. No. P-7451

May 20, 1998

Mr. Milton Arakawa
Project Manager
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Mr. Arakawa:

Subject: Draft Environmental Assessment for the Upper Happy Valley Fire
Protection Improvements, Wailuku, Maui

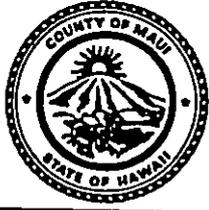
We do not have any comments on the proposed project.

If you have any questions, please contact Charles Carole of our Coastal Zone
Management Program at 587-2804.

Sincerely,

A handwritten signature in black ink, appearing to read "Rick Egged".

Rick Egged
Director
Office of Planning



DEPARTMENT OF
PARKS AND RECREATION
COUNTY OF MAUI

1580-C KAAHUMANU AVENUE WAILUKU, HAWAII 96793

MAY 26 1998

Mayor

HENRY OLIVA
Director

ALLEN SHISHIDO
Deputy Director

(808) 243-7230
FAX (808) 243-7934

May 20, 1998

Milton Arakawa, Project Manager
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, HI 96793

Dear Mr. Arakawa:

SUBJECT: UPPER HAPPY VALLEY FIRE PROTECTION IMPROVEMENTS

We have reviewed the Draft Environmental Assessment for the above-referenced project and have no objections to the proposed action.

Thank you for the opportunity to review and comment. Should you have any questions, please feel free to contact me or Mr. Patrick Matsui, Chief of Parks Planning and Development, at 243-7387.

Sincerely,

HENRY OLIVA
Director

c: Patrick Matsui, Chief of Parks Planning and Development

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BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



MAY 20 1998

LAWRENCE MIKE
DIRECTOR OF HEALTH

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

LAWRENCE HART, M.D., M.P.H.
DISTRICT HEALTH OFFICER

May 26, 1998

Milton Arakawa
Munekiyo, Arakawa &
Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawai'i 96793

Dear Mr. Arakawa:

Subject: Upper Happy Valley Fire Protection Improvements
TMK: (2) 3-4-35:38
Draft EA

Thank you for the opportunity to comment on the Draft Environmental Assessment. We have the following comments to offer:

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

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

Sincerely,

A handwritten signature in black ink, appearing to be "H. Matsubayashi".

HERBERT S. MATSUBAYASHI
District Environmental Health Program Chief



**DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
P.O. BOX 1108
WAILUKU, MAUI, HAWAII 96793-7108**

June 9, 1998

Mr. Herbert Matsubayashi
District Environmental Health Program Chief
State of Hawaii
Department of Health
Maui District Health Office
54 High Street
Wailuku, Hawaii 96793

Re: Upper Happy Valley Fire Protection Improvements
Draft EA

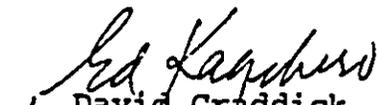
Dear Mr. Matsubayashi:

Thank you for your letter of May 26, 1998 relating to the subject project.

In response to your comments, we would like to note that the contractor will be required to coordinate with the Department of Health regarding the applicability of a noise permit during the construction phase of the project.

If you have any questions, please feel free to call Herb Kogasaka at 243-7835. Thank you for your interest in the project.

Sincerely,


David Craddick
Director

DC:tav
rfe\hviyfire\doc.ctr

"By Water All Things Find Life"



LINDA LINGLE
MAYOR

OUR REFERENCE
at
YOUR REFERENCE

POLICE DEPARTMENT
COUNTY OF MAUI

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



HOWARD H. TAGOMORI
CHIEF OF POLICE

THOMAS PHILLIPS
DEPUTY CHIEF OF POLICE

May 29, 1998

Mr. Milton Arakawa
Project Manager
Munekiyo & Arakawa, Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Mr. Arakawa:

Subject: Upper Happy Valley Fire Protection Improvements

We have received your letter of May 7, 1998 and have reviewed the Draft Environmental Assessment (EA) for the above subject.

We have no other comments at this time. Thank you for giving us the opportunity to comment on the project summary.

Very truly yours,

Assistant Chief Richie Nakashima
for: Thomas Phillips
Acting Chief of Police

JUN 03 1998



June 1, 1998

Mr. Milton Arakawa
Project Manager
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, HI 96793

Dear Mr. Arakawa:

Subject: Upper Happy Valley Fire Protection Improvements
Draft EA
(TMK: 3-4-34: 4,5,7,24,34,80,82,83,101,103,109 and 3-4-35:41,42
Wailuku, Maui)

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

In reviewing the information transmitted and our records, Maui Electric Company (MECO) at this time has no objections to the proposed project.

Please note comments contained in Randall Nakama's letter to you dated March 13, 1998. A copy of this letter is located in chapter VII of this report.

If you have any questions or concerns, please call Fred Oshiro at 872-3202.

Sincerely,

A handwritten signature in cursive script, appearing to read "Edward Reinhardt". The signature is written in dark ink and is positioned above the printed name.

Edward Reinhardt
Manager, Engineering

ER/fo:lh

JUN 0 3 1998

LINDA CROCKETT LINGLE
MAYOR



RONALD P. DAVIS
CHIEF
HENRY A. LINDO, SR.
DEPUTY CHIEF

COUNTY OF MAUI
DEPARTMENT OF FIRE CONTROL

200 DAIRY ROAD
KAHULUI, MAUI, HAWAII 96732
(808) 243-7561

June 3, 1998

Milton Arakawa, Project Manager
Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, HI 96793

RE: Upper Happy Valley Fire Protection Improvements

Dear Mr. Arakawa,

Thank you for the opportunity to comment on the Upper Happy Valley Fire Protection Improvements. The fire hydrants will benefit the fire department with additional sources of water.

The Department of Fire Control has reviewed the Environmental Assessment and does not have any comments.

If you have any questions, you may contact me at 243-7566.

Sincerely,

A handwritten signature in cursive script that reads "Leonard F. Niemczyk".

LEONARD F NIEMCZYK

Captain, FPB

References

References

Community Resources, Inc., Maui County Community Plan Update Program Socio-Economic Forecast Report, January 1994.

County of Maui, The General Plan of the County of Maui 1990 Update, 1990.

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Department of Water Supply, Fire Protection System for Maui and Molokai map, 1991.

Land Study Bureau, Detailed Land Classification - Island of Maui (map 28), May, 1967.

Munekiyo & Arakawa, Inc., Application for a Change in Zoning - Proposed Office Building at 2127 Wells Street, February 1995.

Munekiyo & Arakawa, Inc., Final Environmental Assessment-Hale Makua Kahului Expansion, December 1994.

Munekiyo & Arakawa, Inc., Final Environmental Assessment-Mokuhau Water Tank, June 1996.

Sato & Associates, Inc. Engineering Report for the Mokuhau Renovation and Reservoir Replacement Project, June 1995.

University of Hawaii, Department of Geography, Atlas of Hawaii, Second Edition, 1983.

U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii, 1972.

Wilson Okamoto & Associates, Inc. Maui Community Plan Update Infrastructure Assessment, September 1992.