



DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII

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State of Hawaii
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FINDING OF NO SIGNIFICANT IMPACT
KAWAIHAE WATERLINE REPLACEMENT PROJECT
KAWAIHAE 1ST AND 2ND, SOUTH KOHALA, HAWAII

The Department of Water Supply, County of Hawaii, has reviewed the comments received during the thirty (30)-day public comment period which began on March 23, 1998. The Department of Water Supply has determined that this project will not have a significant environmental effect and has issued a Finding of No Significant Impact (FONSI). Please publish a notice of this FONSI in the June 23, 1998 OEQC Bulletin.

We have enclosed a completed OEQC Bulletin Publication Form and four (4) copies of the final environmental assessment. Please contact Mr. Keith Okamoto of our Water Resources and Planning Branch at (808) 961-8660 if you have any questions.

Milton D. Pavao, P.E.
Manager

KKO:gms

Encs.

... Water brings progress...

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1998-06-23-HI-~~FEA~~-Kawaihae Waterline

JUN 23 1998

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Replacement Project

FINAL ENVIRONMENTAL ASSESSMENT
AND FINDING OF NO SIGNIFICANT IMPACT

KAWAIHAE WATERLINE REPLACEMENT
PROJECT

KAWAIHAE 1ST AND 2ND, SOUTH KOHALA, ISLAND
OF HAWAII

APPROVING AGENCY: COUNTY OF HAWAII,
DEPARTMENT OF WATER SUPPLY

25 AUPUNI STREET
HILO, HAWAII 96720

JUNE, 1998

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1. INTRODUCTION

1.1 Purpose

The Department of Water Supply (DWS), County of Hawaii, is proposing to replace approximately 9,000 lineal feet of 6" waterline with a new 12" waterline within the Kawaihae Road right-of-way, Kawaihae 1st and 2nd, South Kohala, Island of Hawaii. The purpose of this Environmental Assessment is to comply with the requirements of Chapter 343, Hawaii Revised Statutes (HRS) which are triggered by the use of County funds and State land for the proposed project.

1.2 Identification of Proposing Agency

Mr. Milton Pavao is the Manager of the Department of Water Supply for the County of Hawaii. The mailing address for the Department of Water Supply is 25 Aupuni Street, Hilo, Hawaii 96720-4252.

1.3 Identification of Approving Agency

In accordance with Chapter 343, HRS, the Mayor, or an authorized representative of the County of Hawaii is the appropriate accepting authority of the Environmental Assessment.

1.4 Technical Description

The DWS is proposing to replace approximately 9,000 lineal feet of 6" waterline with a new 12" waterline within the Kawaihae Road right-of-way. The proposed Kawaihae Waterline Replacement Project will extend from the junction of Kawaihae Road - Akoni Pule Highway intersection in an easterly (mauka) direction to a point approximately 750 feet mauka of the Kawaihae Road - Queen Kaahumanu Highway intersection. (See Figure 1 - Vicinity Map)

The proposed improvements will begin at an elevation of approximately 300 feet above sea level on the mauka (eastern) end and continues all the way down to sea level on the makai (western) side. The trench for the waterline will be approximately 5 feet deep with a minimum 6 inches of cushion below the pipe and a minimum cushion of 3 feet above the pipe. The proposed alignment will cross four gulches and the plan is to attach the waterline to the bridges which span the gulches. Preliminary construction drawings have been submitted to the State Department of Transportation for their review.

Although the existing waterline is situated on the northern side of the Kawaihae Road right-of-way, the new replacement waterline will be placed on the southern side of the road right-of-way. The design engineer has made this change to avoid accidental damage to the existing waterline while the replacement line is being installed. This will allow the existing waterline to remain in service until the new line is ready for connection. The proposed project will take approximately six months to complete.

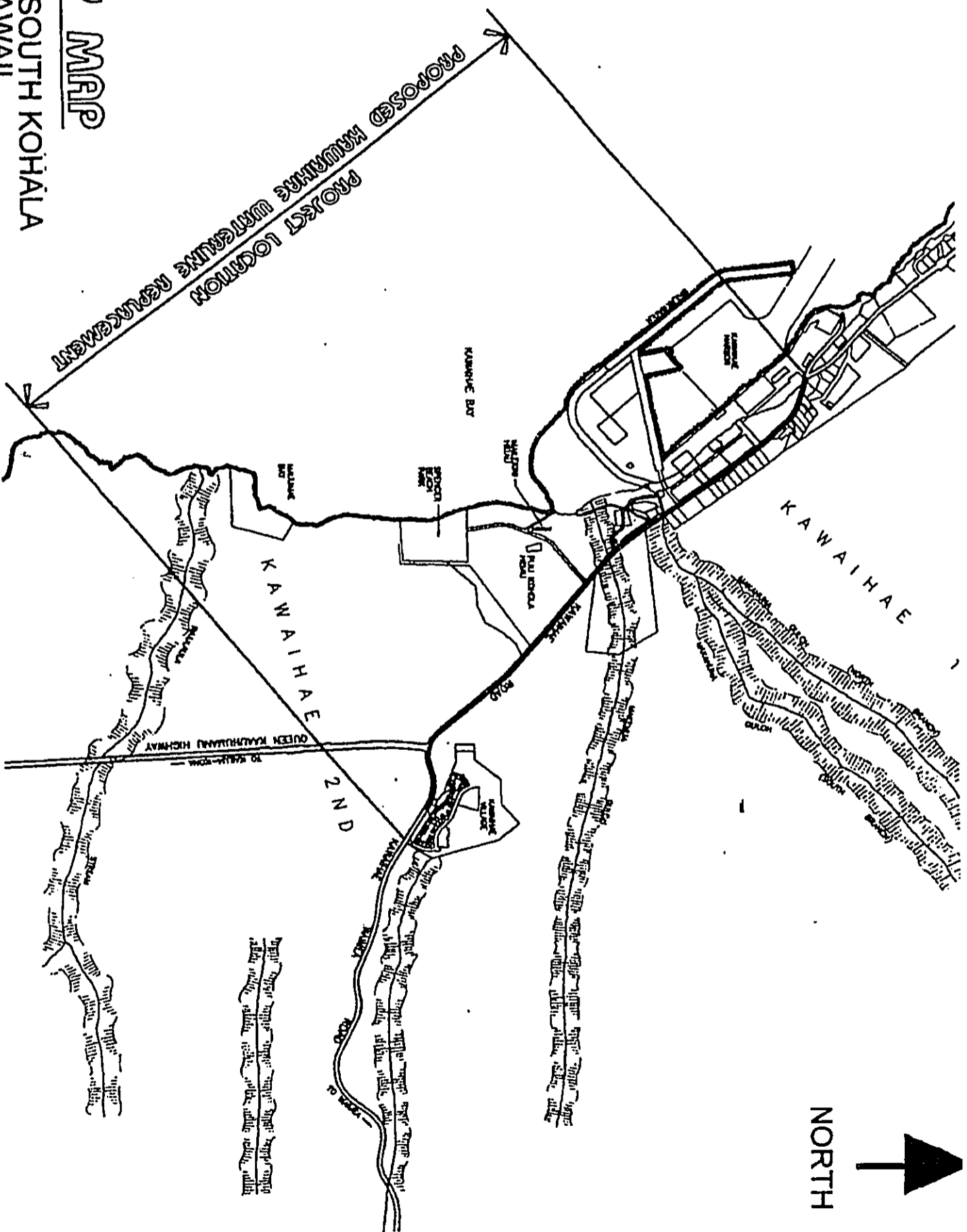
P A G E 1 F I G

O G E E A N

VICINITY MAP

KAWAIIHAE 1st and 2nd, SOUTH KOHALA
ISLAND OF HAWAII

TAX MAP KEY: 3rd. DIVISION 6-2-01



1.5 Project Background

1.5.1 Need for the Project

The new 12" waterline will address two major problems with the existing 6" waterline. First of all, the 6" waterline lacks sufficient capacity for fire flow demand requirements within the service area of the Kawaihae Harbor and Department of Hawaiian Home Lands Industrial areas. Second, the age and condition of the 6" waterline results in *frequent breaks which requires higher than normal maintenance cost. Completion of the proposed project will resolve both of these problems.*

1.5.2 Land Use Designations

The subject property is situated within the State Land Use Urban District. The County General Plan Land Use Pattern Allocation Guide Map (LUPAG) designation for most of the project area is Industrial. A short segment of the project area, east (mauka) of the Queen Kaahumanu Highway is designated Medium Density Urban on the LUPAG Map. Most of the project area is also situated within the County's Special Management Area (SMA).

The Project is consistent with all of the land use designations and regulations of the State and County of Hawaii. The County Planning Department has determined that "the proposed waterline replacement project is exempt from further review against our SMA regulations."

1.5.3 Listing of Permits and Approvals

State of Hawaii

Department of Transportation

Approval-Project Construction Plans

County of Hawaii

Department of Public Works

Grading Permit

Approval-Project Construction Plans

Department of Water Supply

Approval-Project Construction Plans

1.6 Agency and Public Consultation

The following public and private organizations were consulted during the preparation of this environmental assessment:

United States Fish and Wildlife Services, Division of Ecological Services
United States Army Corps of Engineers, Pacific Ocean Division

State of Hawaii, Department of Land and Natural Resources, Historic Preservation
Division and Division of Forestry and Wildlife
State of Hawaii, Department of Health
State of Hawaii, Department of Transportation
State of Hawaii, Department of Hawaiian Home Lands
State of Hawaii, Office of Hawaiian Affairs
County of Hawaii, Planning Department
County of Hawaii, Department of Public Works
County of Hawaii, Police Department
County of Hawaii, Fire Department

2. ENVIRONMENTAL SETTING

2.1 Physical Environment

2.1.1 Geology and Hazards

The project area is located on the lower northwestern slopes of Mauna Kea and consists of the Hamakua volcanic series (Sterns and Macdonald, 1946). The Hamakua volcanic series covered the southern portion of the Pololu and Hawi volcanic series during the early volcanic activity of Mauna Kea. These lava flows consisted mainly of basaltic lava flows.

The volcanic hazard as assessed by the United States Geological Survey for the project area is "8" on a scale of ascending risk 9 to 1 (Heliker 1990). Zone "8" includes the lower slopes of Mauna Kea, most of which has not been affected by lava flows for the past 10,000 years.

The entire island of Hawaii is in earthquake zone 3 of the Uniform Building Code which establishes structural design standards for earthquake resistance for certain types of buildings. This zone is prone to major damages from potential earthquake activity.

2.1.2 Soils

The soils of the project area consist of the Kawaihae series, as classified by the U.S. Department of Agriculture Soil Conservation Service (SCS) Soil Survey (U. S. Soil Conservation Service 1973). The Kawaihae series consists of somewhat excessively drained, extremely stony soils that formed in volcanic ash. In a representative profile the surface layer is dark reddish-brown extremely stony very fine sandy loam over pahoehoe lava bedrock. Topsoil depth is 2 inches, subsoil depth is 33 inches and the bedrock depth is 20-40 inches. Permeability is moderate, runoff is medium, and the erosion hazard is moderate.

2.1.3 Climate

The project area is situated along the northwest coast of the Island of Hawaii which is characterized as having a dry, arid climate. The annual rainfall along this leeward coast is approximately 10 inches. More than 75% of the annual rainfall occurs during the six month period between October and March.

The mean annual temperature is 77 degrees Fahrenheit. Northeasterly trade winds predominate most of the year although strong southwesterly winds during the winter generate much of the rainfall. The wind patterns are also marked by a strong diurnal shift, from daytime on-shore winds to nighttime off-shore winds.

2.1.4 Hydrology and Drainage

The project area is within the Waimea aquifer system which has a sustainable yield of approximately 24 million gallons per day. In fiscal year 1993-94 daily withdrawals from the Waimea aquifer system averaged approximately 2.8 million gallons per day.

According to the Flood Insurance Rate Map (FIRM) prepared by the Federal Emergency Management Agency dated September 18, 1988, most of the project area is situated within Flood Zone "X" (areas determined to be outside the 500 year flood plain). The lower section of the Kawaihae Road, however, between the Puako Road intersection and the intersection with the Akoni Pule Highway, does include short segments which are designated as flood hazard areas. One 700-foot segment and 250-foot segment of Kawaihae Road are in light shaded "X" (Other Flood Areas), defined as areas of 500 year flood, areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile. There is another 200-foot segment of Kawaihae Road at Makeahua Gulch which is designated Zone A (Areas Inundated by 100-year flood), where no base flood elevations have been determined.

Comments from the Department of Public Works, County of Hawaii, have stated that, "If the project is a waterline replacement with the finished grade to remain the same as the original ground, no flood zone conflicts with HCC Chapter 27 should arise."

2.1.5 Water Quality

The coastal waters within Kawaihae Harbor are classified by State Department of Health administrative rules as Class A waters. The objective of Class A waters is to have "their use for recreational purposes and aesthetic enjoyment be protected." Four gulches including Pohaukole, Makehua, Makahuna and Kawaihae cross under the Kawaihae Road and carry storm runoff but most of the time remain dry. The proposed project is not expected to have any direct impact on any streams or marine waters.

2.1.6 Flora and Fauna

The alignment for the proposed waterline replacement project is situated entirely within the Kawaihae Road right-of-way which has been previously disturbed during highway construction, waterline installation and repair and maintenance activities. As such, it is highly unlikely that any listed, candidate or proposed endangered plant species are present in the project area. Vegetation of the surrounding area consists principally of introduced exotics including kiawe (*Prosopis pallida*) and buffel grass (*Cenchrus ciliaris*). (Hawaii County Department of Water Supply, 1995)

In terms of fauna, there are two federally endangered, threatened or candidate species that are known to be present in the area and they are the Hawaiian hawk (*Buteo solitarius*) and the Hawaiian hoary bat (*Lasiurus cinereus semotus*). Native birds known to the area include the golden plover (*Pluvialis dominica*), ruddy turnstone (*Arenaria interpres*) and

the pueo (*Asio flammeus*). The proposed project will not have any significant impact on these protected or native species since the project is restricted to a previously disturbed road right-of-way. (Hawaii County Department of Water Supply, 1995)

Introduced mammals expected to be found in the project area include mongoose, feral cats and dogs and several varieties of mice and rats. Introduced birds common to the area include the yellow billed cardinal, rock dove, zebra dove, sparrow, black francolin, gray francolin, myna, and sandgrouse.

2.1.7 Air Quality

The air quality of the subject area is affected by pollutants derived from the volcanic emissions from the ongoing Kilauea eruption. Other sources of air pollutants to a limited degree include vehicle emissions and dust from agricultural, industrial and construction activities from adjacent property and vehicles utilizing the Kawaihae Road. Vehicle exhaust emissions along the Kawaihae Road will normally dissipate quickly due to the brisk winds that prevail most of the year.

2.1.8 Noise

Existing traffic noise levels at a 70 foot distance from the centerline of the Kawaihae Road is less than 65 Ldn (Day-Night Average Sound Level). (Hawaii State Department of Hawaiian Home Lands, 1992) Temporary noise impacts will occur from construction activities of the pipeline and are unavoidable. Mitigation measures can be taken, however, to minimize noise impacts including the use of mufflers and implementing construction curfew periods. State Department of Health regulations must be adhered to during construction.

2.1.9 Scenic Resources

The open space and scenic vistas of the South Kohala district and the Kawaihae area in particular will not be adversely affected by the proposed waterline replacement project.

2.2 Social, Cultural and Economic Setting

2.2.1 Socio-Economic Characteristics

The South Kohala district has the fastest population growth rate of all the districts on the island. Between 1970 and 1980 the district population increased by 99% and between 1980 and 1990 it increased another 98%. Despite this significant population growth, the South Kohala district is still largely undeveloped and has a low density, rural character with a 1990 population of approximately 9,140 residing within a total of 175,100 acres. Most of the residents in the South Kohala district reside in the town of Waimea, Waikoloa Village or within the resort areas along the coast.

The major economic activity for the South Kohala district is the tourism industry led by the three major destination resort complexes of the Mauna Kea Resort, Mauna Lani Resort and Waikoloa Beach Resort. By 1994, these major resorts generated approximately 5,000 jobs for the region. Other economic activities include diversified agriculture which consists of truck farming, flowers and nursery products; ranching; retail and service businesses; and industrial based businesses centered around Kawaihae Harbor.

2.2.2 Adjacent Land Uses

The project area is situated in a sparsely populated section in the northwestern section of the South Kohala district. The Kawaihae Harbor and its industrial, recreational and commercial sport fishing activities is the predominant land use in the project area. There is a small commercial complex with restaurants, convenience store, gas station, and marine related businesses within the Kawaihae urban corridor. The Department of Hawaiian Home Lands has a partially developed 90 acre industrial park, and a developing residential lot subdivision north of the project area. Other land uses along the Kawaihae Road corridor include the Kawaihae Village (a 51 unit planned unit development residential complex), Ka Hale O Kawaihae (a transitional shelter for the homeless), the Puukohola National Historic Site, several single family dwellings and vacant land.

2.3 Public Facilities and Services

2.3.1 Roads

The Kawaihae Road has a pavement width of 22 feet within a 60 feet wide road right-of-way. It is the primary roadway link between Waimea and Kawaihae and runs in an east-west direction. According to the Traffic Assessment report for the Kohala Ranch Project IV by the Traffic Management Consultant (October 1990), the capacity of Kawaihae Road was estimated to be 2,140 vehicles per hour for both directions. The posted speed limit for the Kawaihae Road is 45 miles per hour.

2.3.2 Water System

The proposed project is part of the County's Lalamilo Water System (I.D. No. 160) which extends from the Mauna Lani Resort at the southern end to the Department of Hawaiian Home Land's industrial subdivision on the northern end. This system is supplied with ground water from four wells on state land at the 1,200 foot elevation in Lalamilo. The Lalamilo wells have an effective capacity of 3.9 million gallons/day (mgd), of which, the Mauna Kea Beach and Mauna Lani Resorts have a commitment for 1.4 mgd. In 1994, the average daily pumpage was approximately 2.8 mgd. (Hawaii County Department of Water Supply, 1995)

There is one additional well, currently under construction with private funds from the Mauna Lani Resort, on property south of the existing Lalamilo well field. When

completed, this well will have a maximum capacity of 1.8 mgd. however, only 10% of the capacity (0.180 mgd) will be made available to the DWS.

The proposed replacement of the existing 6 inch waterline with a 12 inch waterline is intended to improve the water service of the existing customers of the Lalamilo Water System. The proposed project will have no effect on the existing DWS water availability policy for the Lalamilo Water System which is to allow one meter for each existing lot. The Lalamilo Water System will not have any additional water to accommodate requests for change of zones, subdivisions or ohana dwellings.

There are no immediate plans for any further system improvements including source development, transmission or storage. The long range strategy for dealing with the future water needs of the region have been detailed in the Final Environmental Impact Statement for the Kohala Water Transmission System prepared for the Department of Water Supply, County of Hawaii by Megumi Kon, Inc. in November, 1995.

2.3.3 Protective Services

The closest County fire station is situated along the Queen Kaahumanu Highway approximately six miles south of the project area. Police protection services are available in the town of Waimea situated approximately 10 miles west of the project area. The proposed project is not likely to create an additional burden on the existing service providers.

2.4 Archaeology, Historic and Cultural Resources

The South Kohala district and Kawaihae in particular, had a significant role in Hawaiian history. Writing about Kawaihae Kirch (1985) states:

"The port of Kawaihae, with its sheltered natural harbor, was an important calling point for many of the early European voyagers and traders. For about five years 1790-1794, it was the primary residence of Kamehameha I as he regrouped and prepared his forces for the ultimate conquest of Maui, Moloka'i, and O'ahu. Here at Kawaihae, on a prominent natural rise above the harbor, Kamehameha I constructed (or, most probably, rebuilt and expanded) a massive war temple (Luakini) named Pu'ukohola. It was on the altar of Pu'ukohola in 1791 that Kamehameha offered up the body of his arch-rival and cousin Keoua, as an offering to Kuku'ilimoku, his personal war god."

Also at Kawaihae Kirch (1985) writes:

"...not far from Pu'ukohola, is the house of John Young, the English seaman who served for many years as an advisor to Kamehameha. The site, with its stone and lime-plaster structures, reflects a merger of sorts between the British background of Young and his adopted Hawaiian culture. The Young house site is surely one of the most important archaeological sites of the historic period in Hawai'i."

The Puukohola heiau, Mailekini heiau (a smaller associated heiau) and the John Young homestead have been declared a National Historic Site and have been included in a national park concept plan that was prepared by the U.S. Department of the Interior's National Park Service. In addition, archaeological surveys conducted for the Department of Hawaiian Home Lands have identified burial sites on property adjacent to the Kawaihae Road corridor. (Hawaii State Department of Hawaiian Home Lands, 1992)

An archaeological inventory survey was previously prepared for the Kohala Water Transmission System Project and included as Appendix D in the Final Environmental Impact Statement prepared for the project in November 1995. The archaeological inventory survey prepared by Robert L. Spear, Ph.D., and David B. Chaffee, B.A., covered the proposed corridor for the Kohala Water Transmission System Project, which includes the entire corridor for the subject Kawaihae Waterline Replacement Project. In a letter dated July 13, 1995, (LOG NO: 14935, DOC NO: 9507PM14) the State Historic Preservation Division stated that, "The archaeological inventory survey for this project (Appendix D in the EIS) has been reviewed by our office and approved. We have concluded that the proposed water line and related facilities would have 'no effect' on significant historic sites."

Preliminary comments submitted by the Hawaii State Department of Land and Natural Resources, State Historic Preservation Division stated in part, the following:

"We have no record of historic sites within the Kawaihae Road right-of-way, but it is unlikely that any surface sites would still exist because of the construction and later improvements along the road. It is our understanding that some parts of Kawaihae Road are built on fill deposits that were dredged from the harbor. If this is true, then there is even more reason to believe that whatever historic sites may have existed in the area were either buried or destroyed when the fill was introduced. The plan to install a new 12 inch waterline to replace the existing 6 inch line will thus probably have no effect on significant historic site.

"However, if the new waterline will require the excavation of a larger and deeper trench then there may be a possibility of finding undisturbed cultural deposits below the fill. It may thus be necessary to consider archaeological monitoring of the project, or at least those areas where there is a possibility of subsurface cultural deposits. If this possibility exists, please coordinate with us as soon as possible, so a monitoring plan (scope) can be developed."

3. SUMMARY OF POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS AND PROPOSED MITIGATION MEASURES

3.1 Flood Hazard

Impacts: There are several short segments of the waterline alignment which are designated as flood hazard areas. One 700-foot segment and 250-foot segment of Kawaihae Road are in light shaded "X" (Other Flood Areas), defined as areas of 500 year flood, areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile. There is another 200-foot segment of Kawaihae Road at Makeahua Gulch which is designated Zone A (Areas Inundated by 100-year flood), where no base flood elevations have been determined. As such, portions of the proposed waterline replacement project may be subject to a flood hazard.

Mitigation: Comments from the Department of Public Works, County of Hawaii, have stated that, "If the project is a waterline replacement with the finished grade to remain the same as the original ground, no flood zone conflicts with HCC Chapter 27 should arise." The proposed waterline replacement project will not alter the finished grade of the ground within the Kawaihae Road right-of-way.

3.2 Water Quality

Impacts: The State Department of Health has indicated that the proposed project may require federal and state permits involving water quality/protection and discharges to waters of the State. The proposed waterline replacement project is not anticipated to have any adverse impacts on any wetland, stream or marine waters of the State.

Mitigation: The Department of Water Supply and/or the contractor will obtain all necessary permits to comply with federal and state requirements regarding water quality. The contractor will be required to utilize best management practices to minimize any potential impacts.

3.3 Flora and Fauna

Impacts: The alignment for the proposed waterline replacement project is situated entirely within the Kawaihae Road right-of-way which has been previously disturbed during highway construction, waterline installation and repair and maintenance activities. As such, it is highly unlikely that any listed, candidate or proposed endangered plant species are present in the project area. In terms of fauna, there are two federally endangered, threatened or candidate species that are known to be present in the area and they are the Hawaiian hawk (*Buteo solitarius*) and the Hawaiian hoary bat (*Lasiurus cinereus semotus*). Native birds known to the area include the golden plover (*Pluvialis dominica*), ruddy turnstone (*Arenaria interpres*) and the pueo (*Asio flammeus*).

Mitigation: The proposed project will not have any significant impact on any protected or native species since the project is restricted to a previously disturbed road right-of-way. As such, no mitigation measures are proposed.

3.4 Construction Activity

Impacts: Short term impacts will result from the proposed construction activity including increased noise levels, dust and exhaust from machinery involved in the installation of the pipeline. Other temporary impacts include traffic disruption, the storage/stockpiling of material and equipment during the time of construction. Given the relative short construction time period and the sparse development of surrounding properties, the potential impacts of these construction activities should be minimal.

Mitigation: The contractor will be instructed to utilize best management practices to minimize all impacts including the use of mufflers and implementing construction curfew periods. State Department of Health regulations must be adhered to during construction. Provisions will be made to handle traffic control as well as the storage of equipment and supplies in compliance with all regulatory requirements.

3.5 Archaeological Resources

Impacts: The South Kohala district and Kawaihae in particular played a significant role in Hawaiian history. Although the region may be rich in archaeological resources, the previous disturbance within the Kawaihae Road right-of-way makes it unlikely that any undisturbed cultural deposits still remain within the depths of the waterline trench. More specifically, similar trenching has occurred for the installation of fiber optic cable lines, extending approximately 3,800 feet west from the Queen Kaahumanu Highway, within the Kawaihae Road right-of-way. Other improvements within the highway right-of-way include culverts, bridge crossings, utility poles and guard rails. In addition, the section of the Kawaihae Road fronting the harbor, approximately 3,900 feet, is built on fill deposits that were dredged from the harbor.

Mitigation: The Department of Water Supply is coordinating their efforts with the State Historic Preservation Division to ensure that undisturbed cultural deposits are not affected by the proposed project. The Department of Water Supply (DWS) proposes the following mitigating measures to address the unlikely but possible existence of undisturbed subsurface cultural deposits:

- ♦ The DWS will provide the State Historic Preservation Division (SHPD) with a construction schedule prior to the start of construction and will invite SHPD to monitor construction activity at any time for the duration of the construction project.
- ♦ The contractor will be instructed to follow a set procedure in the event that any unidentified archaeological sites or remains such as artifacts, shell, bone, or charcoal deposits, human burials, rock or coral alignments, pavings or walls are

encountered during the course of the construction. If any unidentified archaeological sites or remains are encountered during construction, work will immediately cease and the DWS and the SHPD shall be immediately notified. The DWS will consult with SHPD to determine the appropriate action and work will not resume until archaeological clearance is provided by SHPD.

4. ALTERNATIVES

4.1 No Action

If the proposed 12 inch waterline replacement project is not implemented, the 6" waterline will continue to provide substandard service to the service area. The system will lack sufficient capacity for fire flow demand requirements within the service area of the Kawaihae Harbor and Department of Hawaiian Home Lands Industrial areas. In addition, the Department of Water Supply will continue to maintain the old 6" waterline experiencing frequent breaks which requires higher than normal maintenance cost.

4.2 Alternative Alignment

The Department of Water Supply could utilize alternative alignments for the new 12 inch waterline. The impacts generated by using a completely new alignment, beyond the confines of the Kawaihae Road right-of-way, would certainly be more severe. Besides the disturbance of constructing and maintaining the road itself, other disturbances include trenching for the installation of fiber optic cable lines, culverts, bridge crossings, utility poles and guard rails. In addition, the section of the Kawaihae Road fronting the harbor, approximately 3,900 feet, is built on fill deposits that were dredged from the harbor. Any new alignment would likely involve previously undisturbed areas which increases the probability of generating more adverse effects than utilizing the road right-of-way.

5. DETERMINATION, FINDINGS AND REASONS FOR SUPPORTING DETERMINATION

5.1 Significance Criteria

According to the Department of Health Rules (11-200-12), an applicant or agency must determine whether an action may have a significant impact on the environment, including all phases of the project, its expected consequences both primary and secondary, its cumulative impact with other projects, and its short and long-term effects. In making the determination, the Rules establish "Significance Criteria" to be used as a basis for identifying whether significant environmental impact on the environment if it meets any one of the following thirteen criteria.

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

The proposed project involves the installation of an underground waterline. As such, the proposed project will not have any impact on the visual character or scenic views of the area. In addition, prior disturbances within the Kawaihae Road right-of-way including the construction of the road, installation of fiber optic cable, utility poles, culverts, bridges and guardrails makes it highly unlikely that any natural or cultural resources remain intact within the right-of-way.

To address the unlikely but possible existence of undisturbed subsurface cultural deposits, the DWS will provide the State Historic Preservation Division (SHPD) with a construction schedule prior to the start of construction and will invite SHPD to monitor construction activity at any time for the duration of the construction project. In addition, the contractor will be instructed to follow a set procedure in the event that any unidentified archaeological sites or remains such as artifacts, shell, bone, or charcoal deposits, human burials, rock or coral alignments, pavings or walls are encountered during the course of the construction. If any unidentified archaeological sites or remains are encountered during construction, work will immediately cease and the DWS and the SHPD shall be immediately notified. The DWS will consult with SHPD to determine the appropriate action and work will not resume until archaeological clearance is provided by SHPD.

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

The proposed waterline improvement project is situated entirely within the Kawaihae Road right-of-way. The waterline improvement project will not adversely affect the environment of the right-of-way or the surrounding area.

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 development is consistent with the Environmental Policies established in Chapter 344, HRS, and the National Environmental Policy Act.

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

The proposed project will have a substantial impact on the economic and social welfare of the community by providing a more reliable and efficient water system to the Kawaihae community. The new 12" waterline will address two major problems with the existing 6" waterline. First of all, the 6" waterline lacks sufficient capacity for fire flow demand requirements within the service area of the Kawaihae Harbor and Department of Hawaiian Home Lands Industrial areas. Second, the age and condition of the 6" waterline results in frequent breaks which requires higher than normal maintenance cost.

5. Substantially affects public health

The proposed project will have a positive impact on public health by ensuring a safe and dependable water delivery system. This will be a substantial improvement to the existing system.

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

The proposed project will not have any substantial secondary impacts because it is primarily an upgrade to improve the water service to the existing users of the system. There is no additional water source capacity being developed or provided with the proposed project. As such, the waterline improvement will not be increasing the number of units that could be served by the system.

7. Involves a substantial degradation of environmental quality.

The proposed project is situated entirely within the previously disturbed Kawaihae Road right-of-way. As such, the waterline replacement project will not involve a substantial degradation of environmental quality.

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

As stated previously, the proposed project will not have any substantial secondary impacts because it is primarily an upgrade to improve the water service to the existing users of the system. The proposed project does not involve a commitment for larger actions and will not induce other actions having a cumulative effect on the environment.

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

The proposed project will not have any substantial adverse effect on any rare, threatened or endangered species or its habitat.

10. Detrimentially affects air or water quality or ambient noise levels.

Short term impacts will result from the proposed construction activity including increased noise levels, dust and exhaust from machinery involved in the installation of the pipeline. Given the relative short construction time period and the sparse development of surrounding properties, the potential impacts of these construction activities should be minimal.

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, freshwater, or coastal waters.

There are several short segments of the waterline alignment which are designated as flood hazard areas. The waterline replacement project will not alter the finished grade of the Kawaihae Road right-of-way and will not affect or be subject to damage from the flood hazard.

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

The proposed project involves the installation of an underground waterline. As such, the proposed project will not have any impact on scenic vistas and view planes of the area.

13. Requires substantial energy consumption.

The proposed project will not require substantial energy consumption.

5.2 Findings

Based on the foregoing information presented, it is determined that the proposed Kawaihae Waterline Replacement Project will not have a significant effect. As such, a determination of a Finding of No Significant Impact for the proposed action is appropriate.

5.3 Reasons Supporting Determination

The nature and scale of the proposed action within the previously disturbed road right-of-way is such that no significant environmental effects are anticipated. Potential impacts, if any, can be mitigated through careful construction management practices and compliance with all governmental requirements including those of the State Department of Health, State Historic Preservation Division, State Department of Transportation and the County Department of Public Works.

REFERENCES

Hawaii County Department of Water Supply by Megumi Kon Inc. *Kohala Water Transmission System, North and South Kohala Districts, Island of Hawaii Final Environmental Impact Statement* November 1995.

Hawaii State Department of Hawaiian Home Lands by RM Towill Corp. *Kawaihae Ten-Year Master Plan, Final Environmental Impact Statement*. December 1992.

Heliker, C. 1990. *Volcanic and Seismic Hazards on the Island of Hawaii*. Washington: GPO

Kirch, P.V. 1985. *Feathered Gods and Fishhooks*. An Introduction to Hawaiian Archaeology and Prehistory. University of Hawaii Press, Honolulu.

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**APPENDIX A - REPRODUCTION OF COMMENTS AND RESPONSES MADE
DURING THE PRE-ASSESSMENT CONSULTATION PERIOD**

1. State of Hawaii, Department of Land and Natural Resources, Division of Forestry and Wildlife, December 15, 1997.
Response: Brian T. Nishimura, March 3, 1998
2. State of Hawaii, Department of Land and Natural Resources, Historic Preservation Division, December 10, 1997.
Response: Brian T. Nishimura, March 3, 1998
3. State of Hawaii, Department of Health, December 19, 1997.
Response: Brian T. Nishimura, March 3, 1998
4. State of Hawaii, Hawaiian Homes Commission, December 26, 1997.
Response: Brian T. Nishimura, March 3, 1998
5. County of Hawaii, Planning Department, December 24, 1997.
Response: Brian T. Nishimura, March 3, 1998
6. County of Hawaii, Police Department, December 18, 1997.
Response: Brian T. Nishimura, March 3, 1998
7. County of Hawaii, Department of Public Works, Engineering Division, January 8, 1998.
Response: Brian T. Nishimura, March 3, 1998

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF FORESTRY AND WILDLIFE
1151 PUNCHBOWL STREET
HONOLULU, HAWAII 96813

December 15, 1997

Mr. Brian T. Nishimura
Planning Consultant
101 Aupuni St., Ste. 217
Hilo, HI 96720

Dear Mr. Nishimura:

SUBJECT: Environmental Assessment - Request for Comments, replace 9,000 lineal feet of 6 in. waterline with new 12 in. waterline within Kawaihae Road right-way, Kawaihae 2nd, South Kohala, Island of Hawaii.

We have reviewed the subject and have no comments or objections to the proposed request. Thank you for the opportunity to comment.

Very truly yours,

Michael G. Buck
Administrator

cc: Hawaii Branch
Land Division

MICHAEL D. WILSON
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTY
GILBERT S. COLOMA-AGARAN

AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
CONSERVATION AND
ENVIRONMENTAL AFFAIRS
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT
WATER RESOURCE MANAGEMENT

BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 Aupuni Street
Suite 217
Hilo, Hawaii 96720
Phone: (808) 935-7692 Fax: (808) 935-6126

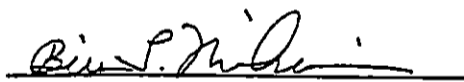
March 3, 1998

Michael G. Buck, Administrator
Division of Forestry and Wildlife
State of Hawaii
Department of Land and Natural Resources
1151 Punchbowl St.
Honolulu, Hawaii 96813

Subject: Preliminary Comments
Kawaihae Waterline Replacement Project
County of Hawaii, Department of Water Supply
Kawaihae, South Kohala, Hawaii

This is to acknowledge receipt of your letter dated December 15, 1997, responding to my request for preliminary comments on the preparation of a draft Environmental Assessment (EA) for the above-described project. Thank you for providing preliminary comments prior to the preparation of the draft EA. Your assistance in this matter is appreciated.

Sincerely,



BRIAN T. NISHIMURA, Planning Consultant

c. Department of Water Supply

BENJAMIN I. CAYETANO
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION
33 SOUTH KING STREET, 6TH FLOOR
HONOLULU, HAWAII 96813

MICHAEL D. WILSON, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES

GILBERT COLOMA-AGARAN

AQUACULTURE DEVELOPMENT
PROGRAM

AQUATIC RESOURCES
CONSERVATION AND

RESOURCES ENFORCEMENT

CONVEYANCES

FORESTRY AND WILDLIFE

HISTORIC PRESERVATION

DIVISION

LAND DIVISION

STATE PARKS

WATER AND LAND DEVELOPMENT

December 19, 1997

Mr. Brian T. Nishimura, Planning Consultant
101 Aupuni Street, Suite 217
Hilo, Hawaii 96720

LOG NO: 20716 ✓
DOC NO: 9712PM09

Dear Mr. Nishimura:

**SUBJECT: Environmental Assessment for Proposed Replacement of
Waterline Along Kawaihae Road
Kawaihae 2, South Kohala, Hawaii Island
TMK: 6-2-01**

This is in reply to your letter of December 10, 1997 in which you asked for comments regarding the proposed waterline replacement along Kawaihae Road in the subject area.

We have no record of historic sites within the Kawaihae Road right-of-way, but it is unlikely that any surface sites would still exist because of the construction and later improvements along the road. It is our understanding that some parts of Kawaihae Road are built on fill deposits that were dredged from the harbor. If this is true, then there is even more reason to believe that whatever historic sites may have existed in the area were either buried or destroyed when the fill was introduced. The plan to install a new 12 inch waterline to replace the existing 6 inch line will thus probably have no effect on significant historic site.

However, if the new waterline will require the excavation of a larger and deeper trench then there may be a possibility of finding undisturbed cultural deposits below the fill. It may thus be necessary to consider archaeological monitoring of the project, or at least those areas where there is a possibility of subsurface cultural deposits. If this possibility exists, please coordinate with us as soon as possible, so a monitoring plan (scope) can be developed.

Please continue to keep us informed of the plans for this project. If you have any questions please contact Patrick McCoy (587-0006).

Aloha.

A handwritten signature in black ink, appearing to read "Don Hibbard".

DON HIBBARD, Administrator
State Historic Preservation Division

PM:amk

BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 Aupuni Street
Suite 217
Hilo, Hawaii 96720
Phone: (808) 935-7692 Fax: (808) 935-6126

March 3, 1998

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

Subject: Preliminary Comments
Kawaihae Waterline Replacement Project
County of Hawaii, Department of Water Supply
Kawaihae, South Kohala, Hawaii

This is to acknowledge receipt of your letter dated December 19, 1997, providing preliminary comments on the preparation of a draft Environmental Assessment (EA) for the above-described project. Your comments regarding the excavation of a larger and deeper trench have been duly noted. The Department of Water Supply does not anticipate that any new area not previously disturbed by the existing 6 inch waterline will be affected by the proposed project. However, in the event that the possibility exists to excavate a larger and deeper trench, the Department of Water Supply will contact your office for further coordination.

Thank you for providing preliminary comments prior to the preparation of the draft EA. Your assistance in this matter is appreciated.

Sincerely,



BRIAN T. NISHIMURA, Planning Consultant

c. Department of Water Supply

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



LAWRENCE MIKE
DIRECTOR OF HEALTH

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

In reply, please refer to

December 19, 1997

97-269/epo

Mr. Brian T. Nishimura
Planning Consultant
101 Aupuni Street, Suite 217
Hilo, Hawaii 96720

Dear Mr. Nishimura:

Subject: PRE-ENVIRONMENTAL ASSESSMENT
Project: Proposed Kawaihae Waterline Replacement
Location: Kawaihae, South Kohala, Hawaii
TMK: (3) 6-2-01

Thank you for allowing us to review and comment on the subject project. We have the following comments to offer:

Water Pollution

1. The applicant should contact the Army Corps of Engineers to identify whether a federal permit (including a Department of Army permit) is required for this project. If a federal permit is required, then a Section 401 Water Quality Certification is required from the State Department of Health, Clean Water Branch.
2. A National Pollutant Discharge Elimination System (NPDES) general permit is required for the following discharges to waters of the State:
 - a. Storm water discharges relating to construction activities, such as clearing, grading, and excavation, for projects equal to or greater than five acres;
 - b. Storm water discharges from industrial activities;
 - c. Construction dewatering activities;
 - d. Noncontact cooling water discharges less than one million gallons per day;

Mr. Brian T. Nishimura
December 19, 1997
Page 2

97-269/epo

- e. Treated groundwater from underground storage tank remedial activities;
- f. Hydrotesting water;
- g. Treated effluent from petroleum bulk stations and terminals; and
- h. Treated effluent from well drilling activities.

Any person requesting to be covered by a NPDES general permit for any of the above activities should file a Notice of Intent with the Department's Clean Water Branch at least 30 days prior to commencement of any discharge to waters of the State.

- 3. After construction of the proposed facility is completed, an NPDES individual permit will be required if the operation of the facility involves any wastewater discharge into State waters.

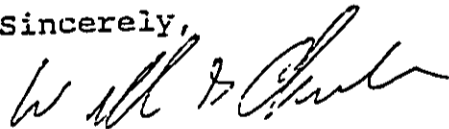
Any questions regarding these comments should be directed to Mr. Denis Lau, Branch Chief, Clean Water Branch at 586-4309.

General Comments

In the forthcoming draft environmental assessment (DEA), please also address the issues of noise impacts and polluted runoff control measures to be implemented during construction of the proposed project.

The Department of Health is interested in reviewing the DEA upon completion.

Sincerely,

 FOR

BRUCE S. ANDERSON, Ph.D.
Deputy Director for Environmental Health

c: CWB

BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 Aupuni Street
Suite 217
Hilo, Hawaii 96720
Phone: (808) 935-7692 Fax: (808) 935-6126

March 3, 1998

Bruce S. Anderson, Ph.D.
Deputy Director of Environmental Health
State of Hawaii
Department of Health
P.O. Box 3378
Honolulu, Hawaii 96801

Subject: Preliminary Comments
Kawaihae Waterline Replacement Project
County of Hawaii, Department of Water Supply
Kawaihae, South Kohala, Hawaii

This is to acknowledge receipt of your letter dated December 19, 1997, providing preliminary comments on the preparation of a draft Environmental Assessment (EA) for the above-described project. Your comments regarding water pollution have been duly noted and the Department of Water Supply and the contractor will be responsible for complying with these requirements. A request for comments has been transmitted to the Army Corps of Engineers but no response has been received to date.

Noise impacts and polluted runoff control during construction will be addressed by requiring the contractor to utilize best management practices and to comply with all applicable federal and state requirements.

Thank you for providing preliminary comments prior to the preparation of the draft EA. Your assistance in this matter is appreciated. The draft EA will be transmitted for your review upon its completion.

Sincerely,


BRIAN T. NISHIMURA, Planning Consultant

c. Department of Water Supply

4432L16

BENJAMIN J. CAYETANO
GOVERNOR
STATE OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HAWAIIAN HOME LANDS
P. O. BOX 1879
HONOLULU, HAWAII 96805

KALI WATSON
CHAIRMAN
HAWAIIAN HOMES COMMISSION

JOE M. K. M. YAMAGUCHI
DEPUTY TO THE CHAIRMAN

December 26, 1997

Mr. Brian T. Nishimura
Planning Consultant
101 Aupuni Street, Suite 217
Hilo, Hawaii 96720

Dear Mr. Nishimura:

Thank you for notifying us of the pending improvement of 9,000 feet of waterline within the Kawaihae Road right-of-way.

The Department of Hawaiian Home Lands (DHHL) has jurisdiction over more than 10,000 acres at Kawaihae. The lack of adequate water service constrains the use and development of our lands.

In 1993, the DHHL adopted a master plan which focuses on development of 2,100 acres in the area where the subject waterline improvements are proposed. We strongly support this County Department of Water Supply (DWS) project to replace the existing 6" waterline with a 12" line which will provide more dependable water service and help alleviate fire-flow problems.

In preparing your environmental assessment, please include a summary of the overall County water system in the area; i.e., what exists and what other improvements are proposed.

The DHHL is in the process of selecting a consultant to design a 1-million gallon reservoir above our Kaei Hana II industrial subdivision. Will another segment of the 12" line be added northward to the entrance of our subdivision at the intersection of the highway and Haluokalani Street (TMK 6-1-06)?

We would like to coordinate our planning and development programming with the County of Hawaii. Please keep us notified of the progress being made to improve water service in the area.

If you have any questions, call Planner Joe Chu at 586-3836.

Aloha,

A handwritten signature in cursive script that reads "Kali Watson".

KALI WATSON, Chairman
Hawaiian Homes Commission

BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 Aupuni Street
Suite 217
Hilo, Hawaii 96720
Phone: (808) 935-7692 Fax: (808) 935-6126

March 3, 1998


Kali Watson, Chairman
Hawaiian Homes Commission
State of Hawaii
Department of Hawaiian Home Lands
P.O. Box 1879
Honolulu, Hawaii 96805

Subject: Preliminary Comments
Kawaihae Waterline Replacement Project
County of Hawaii, Department of Water Supply
Kawaihae, South Kohala, Hawaii

This is to acknowledge receipt of your letter dated December 26, 1997, providing preliminary comments on the preparation of a draft Environmental Assessment (EA) for the above-described project. The Department of Water Supply has been advised of your request to coordinate your planning and development efforts with the County of Hawaii. There are no immediate plans, however, to extend another segment of the 12" waterline to the entrance of your industrial subdivision at the intersection of the Akoni Pule Highway and Haluokalani Street.

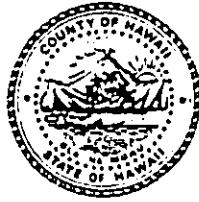
Thank you for providing preliminary comments prior to the preparation of the draft EA. Your assistance in this matter is appreciated.

Sincerely,


BRIAN T. NISHIMURA, Planning Consultant

c. Department of Water Supply

Stephen K. Yamashiro
Mayor



Virginia Goldstein
Director

Russell Kokubun
Deputy Director

County of Hawaii

PLANNING DEPARTMENT

25 Aupuni Street, Room 109 • Hilo, Hawaii 96720-4252
(808) 961-8288 • Fax (808) 961-8742

December 24, 1997

Mr. Brian Nishimura
101 Aupuni Street, Suite 217
Hilo, HI 96720

Dear Mr. Nishimura:

Preliminary Comments Regarding the Preparation of an Environmental Assessment for the Replacement of an Existing 6-inch Waterline with a New 12-inch Waterline within portions of the Kawaihae Road-Akoni Pule Highway Right-of-Way
Proposing Agency: County Department of Water Supply
Kawaihae, South Kohala, Hawaii

We are in receipt of your letter dated December 10, 1997, requesting our preliminary comments regarding the preparation of an environmental assessment for the above-described waterline project in Kawaihae, South Kohala.

According to your letter, the installation of the new 12-inch waterline will replace an existing 6-inch waterline situated within the Kawaihae Road and Akoni Pule Highway rights-of-way. According to Section 25-4-11(a) of the Hawaii County Zoning Code, "*Communication, transmission, and power lines of public and private utilities and governmental agencies are permitted uses within any district.*" Therefore, the proposed waterline replacement project is consistent with our zoning regulations.

Most of the right-of-way affected by the waterline replacement project is situated within the County's Special Management Area (SMA), with the exception of the portion of Kawaihae Road extending east (mauka) from its intersection with the Queen Kaahumanu Highway. Section 9-4(10)B(iv) of Planning Commission Rule No. 9 regarding the Special Management Area states that development does not include the "*Repair and maintenance of utility lines, including but not limited to water, sewer, power, and telephone and minor appurtenant*

Mr. Brian Nishimura
Page 2
December 24, 1997

structures such as pad mounted transformers and sewer pump stations. Therefore, the proposed waterline replacement project is exempt from further review against our SMA regulations.

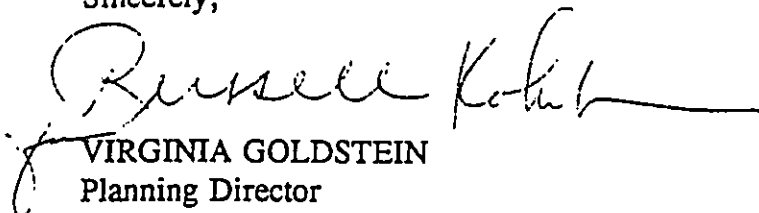
The alignment of the proposed waterline replacement will not place it within the County's 40-foot shoreline setback area.

We do have one comment which you may want to consider within the draft environmental assessment. Frequently associated with this type of infrastructural improvements are material stockpiles and baseyards located in the immediate vicinity of the project site. If such types of storage/stockpile facilities are being contemplated to accommodate the proposed waterline replacement project, then its location should be disclosed. State and county land use laws as well as our SMA regulations may prohibit the establishment of such facilities without proper land use approvals.

We hope the information provided above will assist you in the preparation of the draft environmental assessment. We will reserve final comment upon our receipt of the draft environmental assessment.

Should you have any questions, please contact Daryn Arai of this office.

Sincerely,


VIRGINIA GOLDSTEIN
Planning Director

DSA:jkg
f:\wp60\czm\Ch343\LNishi03.dsa

c: Department of Water Supply
West Hawaii Office

BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 Aupuni Street
Suite 217
Hilo, Hawaii 96720
Phone: (808) 935-7692 Fax: (808) 935-6126

March 3, 1998

Virginia Goldstein, Director
County of Hawaii
Planning Department
25 Aupuni Street
Hilo, Hawaii 96720

Subject: Preliminary Comments
Kawaihae Waterline Replacement Project
County of Hawaii, Department of Water Supply
Kawaihae, South Kohala, Hawaii

This is to acknowledge receipt of your letter dated December 24, 1997, providing preliminary comments on the preparation of a draft Environmental Assessment (EA) for the above-described project. Your comment regarding material stockpiles and baseyards has been duly noted and the Department of Water Supply will advise the contractor of your land use concerns. The exact location of a storage/stockpile facility will be determined by the contractor selected for the project.

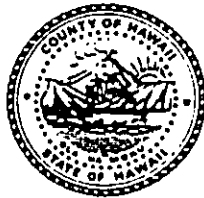
Thank you for providing preliminary comments prior to the preparation of the draft EA. Your assistance in this matter is appreciated. The draft EA will be transmitted for your review upon its completion.

Sincerely,


BRIAN T. NISHIMURA, Planning Consultant

c. Department of Water Supply

Stephen K. Yamashiro
Mayor



Wayne G. Carvalho
Police Chief

James S. Correa
Deputy Police Chief

County of Hawaii
POLICE DEPARTMENT

349 Kapiolani Street • Hilo, Hawaii 96720-3998
(808) 935-3311 • Fax (808) 961-2702

December 18, 1997

Mr. Brian T. Nishimura
Planning Consultant
101 Aupuni Street, Suite 217
Hilo, Hawaii 96720

Dear Mr. Nishimura:

SUBJECT: ENVIRONMENTAL ASSESSMENT
REQUEST FOR COMMENTS


This responds to your letter of December 10, 1997, soliciting comments on the proposed waterline project for the Kawaihae Road.

If provisions were made for adequate traffic control, there should be minimal impact on the need for police services.

Thank you for the opportunity to comment.

Sincerely,

WAYNE G. CARVALHO
POLICE CHIEF


JAMES S. CORREA
DEPUTY POLICE CHIEF
ACTING POLICE CHIEF

DW:lk

BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 Aupuni Street
Suite 217
Hilo, Hawaii 96720
Phone: (808) 935-7692 Fax: (808) 935-6126

March 3, 1998

James S. Correa, Deputy Police Chief
County of Hawaii
Police Department
349 Kapiolani St.
Hilo, Hawaii 96720-2702

Subject: Preliminary Comments
Kawaihae Waterline Replacement Project
County of Hawaii, Department of Water Supply
Kawaihae, South Kohala, Hawaii

This is to acknowledge receipt of your letter dated December 18, 1997, providing preliminary comments on the preparation of a draft Environmental Assessment (EA) for the above-described project. Your comments regarding traffic control have been duly noted. The contractor will be advised that adequate provisions must be made to handle traffic control during construction of the proposed waterline replacement project.

Thank you for providing preliminary comments prior to the preparation of the draft EA. Your assistance in this matter is appreciated.

Sincerely,


BRIAN T. NISHIMURA, Planning Consultant

c. Department of Water Supply

Stephen K. Yamashiro
Mayor



Donna Fay K. Kiyosaki
Chief Engineer

Jiro A. Sumada
Deputy Chief Engineer

County of Hawaii
DEPARTMENT OF PUBLIC WORKS
25 Aupuni Street, Room 202 · Hilo, Hawaii 96720-4252
(808) 961-8321 · Fax (808) 961-8630

January 8, 1998

BRIAN T NISHIMURA
101 AUPUNI STREET SUITE 217
HILO HAWAII 96720

SUBJECT: ENVIRONMENTAL ASSESSMENT - KAWAIHAE ROAD WATERLINE
Kawaihae, South Kohala, Hawaii
Tmk: 6-1 & 6-2

Portions of the project are within flood zones "A" and light shaded "X". If the project is a waterline replacement with the finished grade to remain the same as the original ground, no flood zone conflicts with HCC Chapter 27 should arise.

Should you have any questions, please contact Tom Pack of our Engineering Division at 327-3530.

Galen M. Kuba, Division Chief
Engineering Division

TWP/GMK

cc: ENG (Hilo)
ENG (Kona)

BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 Aupuni Street
Suite 217
Hilo, Hawaii 96720
Phone: (808) 935-7692 Fax: (808) 935-6126

March 3, 1998

Galen M. Kuba, Division Chief
Engineering Division
County of Hawaii
Department of Public Works
25 Aupuni St. Room 202
Hilo, Hawaii 96720-4252

Subject: Preliminary Comments
Kawaihae Waterline Replacement Project
County of Hawaii, Department of Water Supply
Kawaihae, South Kohala, Hawaii

This is to acknowledge receipt of your letter dated January 8, 1998, providing preliminary comments on the preparation of a draft Environmental Assessment (EA) for the above-described project. Your comments regarding flood zones have been duly noted. The proposed waterline replacement project will not alter the finished grade of the ground within the Kawaihae Road right-of-way.

Thank you for providing preliminary comments prior to the preparation of the draft EA. Your assistance in this matter is appreciated.

Sincerely,



BRIAN T. NISHIMURA, Planning Consultant

c. Department of Water Supply

**APPENDIX B - REPRODUCTION OF COMMENTS AND RESPONSES MADE
DURING THE DRAFT ENVIRONMENTAL ASSESSMENT REVIEW PERIOD**

1. State of Hawaii, Department of Land and Natural Resources, Historic Preservation Division, April 3, 1998.
Response: Brian T. Nishimura, May 12, 1998.
2. State of Hawaii, Office of Environmental Quality Control, April 14, 1998.
Response: Department of Water Supply, May 11, 1998.

BENJAMIN I. CAYETANO
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
STATE HISTORIC PRESERVATION DIVISION
33 SOUTH KING STREET, 6TH FLOOR
HONOLULU, HAWAII 96813

MICHAEL D. WILSON, CHAIRPERSON
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FORESTRY AND WILDLIFE
HISTORIC PRESERVATION

DIVISION

LAND DIVISION
STATE PARKS

WATER AND LAND DEVELOPMENT

April 3, 1998

Mr. Brian T. Nishimura, Planning Consultant
101 Aupuni Street, Apt. 217
Hilo, Hawaii 96720

LOG NO: 21282 ✓
DOC NO: 9804PM04

Dear Mr. Nishimura:

**SUBJECT: Draft Environmental Assessment for Kawaihae
Waterline Replacement Project
Kawaihae 1 and 2, South Kohala, Hawaii Island**

Thank you for your letter of March 16, 1998 and the opportunity to review and comment on the Draft EA for the subject project.

We note that you have included in Appendix A our letter of December 19, 1997 in which we expressed some concerns about the possible existence of undisturbed subsurface cultural deposits and the need to develop a mitigation plan to deal with this possibility. The summary of potential adverse impacts and proposed mitigation measures for archaeological resources on page 11 indicates that the Department of Water Supply will coordinate their efforts with our office to ensure that undisturbed cultural deposits, if they exist, will not be adversely affected by the proposed project.

We have not yet received anything in writing from the Department of Water Supply, but we understand that they are working on the development of a mitigation plan. As you know, that plan needs to be submitted to our office for review and approval prior to any ground altering activity taking place in the proposed project area.

If you should have any questions please contact Patrick McCoy (587-0006).

Aloha,

A handwritten signature in cursive script, appearing to read "Don Hibbard".

DON HIBBARD, Administrator
State Historic Preservation Division

PM:amk

BRIAN T. NISHIMURA, PLANNING CONSULTANT

101 Aupuni Street
Suite 217
Hilo, Hawaii 96720
Phone: (808) 935-7692 Fax: (808) 935-6126

May 12, 1998

Mr. Patrick McCoy
State Historic Preservation Division
Department of Land and Natural Resources
33 South King Street, 6th floor
Honolulu, HI. 96813

Subject: Kawaihae Waterline Replacement Project
Kawaihae 1st and 2nd, South Kohala, Hawaii

Dear Mr. McCoy:

This is in response to a letter dated April 3, 1998, commenting on the Draft Environmental Assessment prepared for the above-described project. First, please be advised that there has been a change to the proposed alignment for the new waterline. Although the existing waterline is situated on the northern side of the Kawaihae Road right-of-way, the new replacement waterline will be placed on the southern side of the road right-of-way. The design engineer has made this change to avoid accidental damage to the existing waterline while the replacement line is being installed.

Second, the Final Environmental Assessment will include additional information to support the determination that previous disturbance within the Kawaihae Road right-of-way makes it unlikely that undisturbed cultural deposits still remain within the depths of the waterline trench. More specifically, similar trenching has occurred for the installation of fiber optic cable lines, extending approximately 3,800 feet west from the Queen Kaahumanu Highway, within the Kawaihae Road right-of-way. Other improvements within the highway right-of-way include culverts, bridge crossings, utility poles and guard rails. In addition, the section of the Kawaihae Road fronting the harbor, approximately 3,900 feet, is built on fill deposits that were dredged from the harbor.

An archaeological inventory survey was previously prepared for the Kohala Water Transmission System Project and included as Appendix D in the Final Environmental Impact Statement prepared for the project in November 1995. The archaeological inventory survey prepared by Robert L. Spear, Ph.D., and David B. Chaffee, B.A., covered the proposed corridor for the Kohala Water Transmission System Project, which includes the entire corridor for the subject Kawaihae Waterline Replacement Project. In a letter dated July 13, 1995, (LOG NO: 14935,

DOC NO: 9507PM14) the State Historic Preservation Division stated that, "The archaeological inventory survey for this project (Appendix D in the EIS) has been reviewed by our office and approved. We have concluded that the proposed water line and related facilities would have 'no effect' on significant historic sites."

In view of the foregoing, the Department of Water Supply (DWS) proposes the following mitigating measures to address the unlikely but possible existence of undisturbed subsurface cultural deposits:

- ♦ The DWS will provide the State Historic Preservation Division (SHPD) with a construction schedule prior to the start of construction and will invite SHPD to monitor construction activity at any time for the duration of the construction project.
- ♦ The contractor will be instructed to follow a set procedure in the event that any unidentified archaeological sites or remains such as artifacts, shell, bone, or charcoal deposits, human burials, rock or coral alignments, pavings or walls are encountered during the course of the construction. If any unidentified archaeological sites or remains are encountered during construction, work will immediately cease and the DWS and the SHPD shall be immediately notified. The DWS will consult with SHPD to determine the appropriate action and work will not resume until archaeological clearance is provided by SHPD.

Thank you for your comments on the Draft EA for the subject project. We believe that the proposed mitigation measures addresses your concerns and are appropriate given the particular circumstances of the previously disturbed road right-of-way.

Should you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,



BRIAN T. NISHIMURA
Planning Consultant

BENJAMIN J. CAYETANO
GOVERNOR



GARY GILL
DIRECTOR

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

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

April 14, 1998

Mr. Milton D. Pavao, Manager
Hawaii County Department of Water Supply
25 Aupuni Street
Hilo, Hawaii 96720

Dear Mr. Pavao:

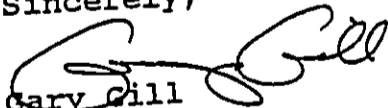
Subject: Draft Environmental Assessment for the Kawaihae Waterline
Replacement Project, Hawaii

Thank you for the opportunity to review the subject document. We
have the following comments.

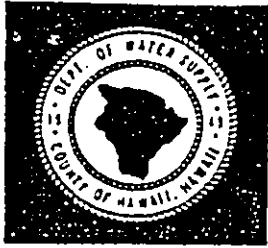
1. The proposed alignment will cross four gulches and the tentative plan is to attach the waterline to the bridges which span the gulches. Please consult with the bridge owners to determine whether the bridges can support the proposed waterline. If the bridges cannot accommodate the waterline, please discuss other alternatives to cross the gulches.
2. Please consult with nearby groups and individuals who may be affected by the proposed project.
3. Please list all federal, state and county permits that would be required for this project.
4. Please discuss the findings and reasons for supporting the FONSI determination based on all 13 significant criteria listed in §11-200-12 of the EIS rules. Please see the enclosed example.

Should you have any questions, please call Jeyan Thirugnanam at
586-4185.

Sincerely,


Gary Gill
Director

c: ✓ Brian Nishimura



DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII

25 AUPUNI STREET • HILO, HAWAII 96720
TELEPHONE (808) 951-8660 • FAX (808) 951-8657

May 11, 1998

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

DRAFT ENVIRONMENTAL ASSESSMENT FOR KAWAIHAE WATERLINE REPLACEMENT PROJECT
KAWAIHAE 1ST AND 2ND, SOUTH KOHALA, HAWAII

This is in response to your comments dated April 14, 1998, regarding the Draft Environmental Assessment for the Kawaihae Waterline Replacement Project. Your comments are addressed as follows:

1. A letter requesting comments from State Department of Transportation (DOT) was transmitted during the pre-assessment consultation period. There was no response from the DOT to this request. The preliminary construction drawings have been submitted to the DOT and the design engineer is awaiting their review and comment. If the bridges cannot accommodate the waterline, the project will have to be reassessed because any other alternative appears to be impractical at this time.
2. An article describing the proposed project, along with information regarding the Environmental Assessment comment period, and the agency contact and planning consultant phone numbers was published in the April 5, 1998 edition of the West Hawaii Today. This article generated several phone calls from individuals interested in the project, and the inquiries raised questions regarding project schedule and the possibility of service disruptions. The contractor will be required to inform all customers in advance of any water shut-off, and service disruptions will be kept to a minimum.

... *Water brings progress...*

Mr. Gary Gill, Director
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May 11, 1998

3. A list of all Federal, State, and County permits that would be required for this project will be included in the Final Environmental Assessment.
4. The Final Environmental Assessment will discuss the finding and reasons for supporting the FONSI determination based on all thirteen (13) significant criteria listed in Section 11-200-12 of the EIS rules.

Thank you for your comments to the Draft Environmental Assessment for the proposed project. Should you have any questions regarding this matter, please call the consultant, Mr. Brian Nishimura at (808) 935-7692.



Milton D. Pavao, P.E.
Manager

KKO:gms