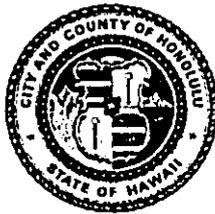


DEPARTMENT OF ENVIRONMENTAL SERVICES  
~~DEPARTMENT OF WASTEWATER MANAGEMENT~~  
**CITY AND COUNTY OF HONOLULU**  
650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

Whitmore Village  
Wastewater Treatment  
Plant

JEREMY HARRIS  
MAYOR



December 2, 1998

RECEIVED  
'98 DEC -8 P12:24

KENNETH E. SPRAGUE, P.E., Ph.D.  
DIRECTOR

CHERYL K. OKUMA-SEPE  
DEPUTY DIRECTOR

DCP 98-472

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

Dear Mr. Gill:

Subject: Notice of Determination - Finding of No Significant Impact (FONSI) for  
Whitmore Village Wastewater Treatment Plant  
Conversion to Flow Equalization  
Wahiawa, Oahu, Hawaii  
TMK: 7-1-2:22, portion of 4 and 9

The City and County of Honolulu, Department of Environmental Services (ENV) (formerly the Department of Wastewater Management) has reviewed and responded to comments related to the Draft Environmental Assessment received during the 30-day public comment period which began on July 23, 1998. The agency has determined that this project will not have significant environmental effects and has issued a Finding of No Significant Impact. Please publish this notice in the December 23, 1998 edition of *The Environmental Notice*.

We have enclosed the following items for your review:

- (1) One copy of the OEQC Bulletin Publication Form;
- (2) Four copies of the Final EA;
- (3) One copy of the proposed distribution list; and
- (4) One copy of the "Letter to Participants".

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Mr. Gary Gill  
December 2, 1998  
Page 2

The following information is provided in accordance with the requirements for a Notice of Determination:

Identification of Proposing Agency

City and County of Honolulu, Department of Environmental Services (formerly the Department of Wastewater Management)

Identification of Accepting Agency

N/A

Brief Description of the Proposed Action

The proposed action is conversion of the abandoned Whitmore Village Wastewater Treatment Plant (WWTP) into a flow equalization facility. The proposed action will entail automatic diversion of wastewater from the 12-inch Whitmore Avenue sewer (serving Whitmore Village and NCTAMS PAC) to holding tanks within the inactive Whitmore Village WWTP. The detained wastewater will be reintroduced into the sewerage system by pumping through a new 6-inch force main after subsidence of the peak flow at the Wahiawa WWTP. The proposed flow equalization facility will be operated on a temporary basis until improvements at the Wahiawa WWTP are implemented.

Determination

Finding of No Significant Impact (FONSI)

Reasons Supporting Determination

This determination is based on the significance criteria listed in Section 11-200-12 of the Environmental Impact Statement Rules:

- (1) The proposed project will not involve an irrevocable commitment to loss or destruction of any natural or cultural resource. The flow equalization facility and appurtenances will be constructed on previously developed lands.
- (2) The proposed project will not curtail the range of beneficial uses of the environment. The proposed project will be located within a City and County parcel and easements, designated for wastewater facilities.
- (3) The proposed project will not conflict 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.

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Mr. Gary Gill

December 2, 1998

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- (4) The proposed project will not have a substantial negative effect on the economic or social welfare of the community or state. The project will not have a long term impact on employment or economics. The impact on social welfare will be positive since the proposed project will enhance wastewater service for the community.
- (5) The proposed project will not substantially affect public health (in a negative manner). Rather, the project will provide a means to minimize potential public health concerns due to overload of the Wahiawa WWTP during peak wet weather flows.
- (6) The proposed project does not involve substantial secondary impacts, such as population changes or effects on public facilities (in a negative manner). Rather, the effect on the Wahiawa WWTP will be positive, in that the peak wet weather flow will be dampened.
- (7) The proposed project does not involve substantial degradation of environmental quality. Instead, the proposed project will aid in preserving environmental quality by minimizing the potential for wastewater spills or overflows at the Wahiawa WWTP.
- (8) The proposed project will not have a considerable cumulative effect upon the environment or involve a commitment for larger actions. The proposed project is an interim measure which will terminate after the permanent facility improvements are constructed. The permanent improvements will be addressed in a separate environmental document.
- (9) The proposed project will not substantially affect any rare, threatened, or endangered species or their habitat since there are none present within the project site.
- (10) The proposed project will not detrimentally affect air or water quality or ambient noise levels. These potential impacts and mitigation measures have been addressed in the appropriate sections of the EA.
- (11) The proposed project will not affect, nor is it likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal water.
- (12) The proposed project will not substantially affect scenic vistas or viewplanes identified in county or state plans or studies. Most of the project will be constructed underground, at ground level or within existing facilities.
- (13) The proposed project will not require substantial energy consumption. The equalization facility will operate intermittently, only during peak wet weather flow conditions.

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Mr. Gary Gill

December 2, 1998  
Page 4

Should you have any questions, please contact Mr. Bill Liu of the Department of Design and Construction, Division of Planning and Programming at 527-6871.

Sincerely,



KENNETH E. SPRAGUE  
Director

cc: Kenneth Ishizaki, Engineering Concepts, Inc.  
Bill Liu

1998-12-23-0A-FEA-Whitmore  
Village Wastewater Treatment Plant

DEC 23 1998

**FILE COPY**

Final Environmental Assessment

**WHITMORE VILLAGE  
WASTEWATER TREATMENT PLANT  
Conversion to Flow Equalization**

Wahiawa, Oahu, Hawaii  
TMK: 7-1-2: 22, portion of 4 and 9



ENGINEERING CONCEPTS, INC.

Final Environmental Assessment

**WHITMORE VILLAGE  
WASTEWATER TREATMENT PLANT  
Conversion to Flow Equalization**

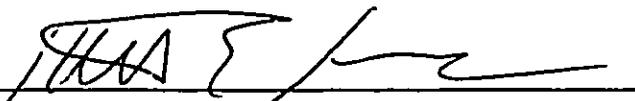
Wahiawa, Oahu, Hawaii  
TMK: 7-1-2: 22, portion of 4 and 9

*This environmental document has been prepared pursuant to Chapter 343, Hawaii Revised Statutes*

Proposing Agency:

DEPARTMENT OF ENVIRONMENTAL SERVICES  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Responsible Official:

  
Kenneth E. Sprague, Director

12/1/98  
Date

Prepared by:

ENGINEERING CONCEPTS, INC.  
250 Ward Avenue, Suite 206  
Honolulu, Hawaii 96814

November 1998

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## EXECUTIVE SUMMARY

**APPLICANT:** Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

**Responsible Official:** Kenneth E. Sprague, Director

**Contact Person:** Bill Liu, Department of Design and Construction  
**Phone:** 527-6871  
**Fax:** 523-4642

**PROJECT TITLE:** Whitmore Village Wastewater Treatment Plant  
Conversion to Flow Equalization

**PROPOSED ACTION:** The proposed action is conversion of the abandoned Whitmore Village WWTP to a temporary flow equalization facility to dampen peak wet weather flows experienced at the Wahiawa WWTP. The project includes automatic flow diversion, construction of a 6-inch force main for return flow transmission, installation of return pumps, pump controls, telemetry, electrical works and miscellaneous piping.

**LOCATION:** Whitmore Village, Wahiawa, Oahu, Hawaii  
TMK: 7-1-2: 22, portion of 4 and 9

**PROPERTY OWNER:** City and County of Honolulu (7-1-2:22)  
Dole Food Company, Inc. (7-1-2:4)  
Castle & Cooke Homes Hawaii, Inc. (7-1-22:9)

**PROJECT AREA:** 1 acre ( $\pm$ )

**EXISTING USES:** Abandoned municipal wastewater treatment plant. Access road to WWTP traverses the Dole Fresh Fruit Company base yard.

STATE LAND USE: Agricultural and Urban

COUNTY ZONING: AG-1 Restricted Agricultural

- ALTERNATIVES  
CONSIDERED:
- (1) No action
  - (2) Manual flow diversion with detained volumes trucked to the Whitmore Village Pretreatment Facility for disposal
  - (3) Automatic flow diversion with flow returned through the existing slip-lined 12-in sewer
  - (4) Construction of flow equalization facilities at the Wahiawa WWTP

POTENTIAL IMPACTS

Short Term: Construction-related soil-erosion, traffic, noise and air quality impacts in the immediate vicinity of the project.

Long Term: NOISE: Emergency generators will operate intermittently at both the Whitmore WWTP and Pretreatment Facility sites during maintenance testing and on the rare occasions when electrical power outages occur during peak wet weather flow episodes requiring flow equalization.

AIR QUALITY: Emissions will occur intermittently during operation of the emergency generators.

## MITIGATION MEASURES

### Short Term:

**SOIL EROSION:** Erosion control measures will be identified on an erosion control plan. The plan will be implemented during construction to minimize soil erosion and offsite sediment transport.

**TRAFFIC:** Traffic control plan approved by the Department of Transportation Services will be implemented during construction. Construction will be scheduled to avoid periods of peak traffic. Access will be coordinated with Dole Fresh Fruit Company.

**NOISE:** The contractor will be required to comply with all state and county noise regulations.

**AIR QUALITY:** Dust control will be implemented during construction.

Construction will not proceed until all permits and approvals are obtained.

### Long Term:

**NOISE:** Emergency generators will be housed in a building or enclosure for acoustical abatement.

**AIR QUALITY:** Detained wastewater will be aerated to minimize generation of odors.

## CHAPTER 1

### INTRODUCTION

#### 1.1 PURPOSE OF THIS DOCUMENT

The purpose of this Final Environmental Assessment (EA) is to disclose potential environmental impacts associated with conversion of the abandoned Whitmore Village Wastewater Treatment Plant (WWTP) to a flow equalization facility. This document was prepared following a period of public review of a Draft EA. Public comments and applicant responses have been incorporated in this document.

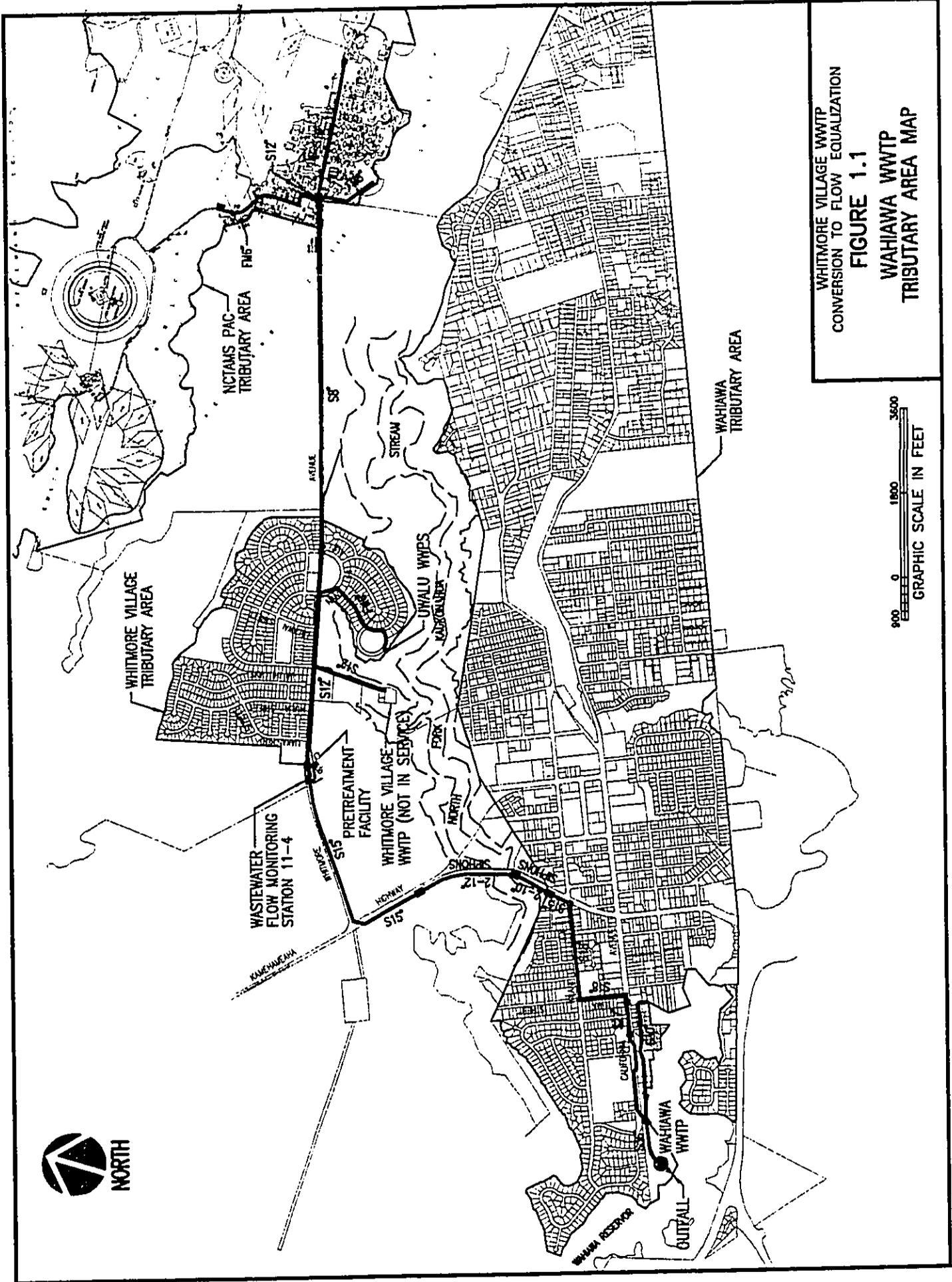
This environmental document has been prepared in accordance with Chapter 343, Hawaii Revised Statutes (HRS). The City and County of Honolulu Department of Environmental Services (formerly the Department of Wastewater Management) is the proposing agency. Mr. Bill Liu (527-6871) of the Department of Design and Construction is the point of contact for the project.

#### 1.2 BACKGROUND

The Whitmore Village WWTP served Whitmore Village, a plantation town of approximately 4,000 capita, until its closure in March 1994 when wastewater flows were routed directly to the Wahiawa WWTP.

The Wahiawa WWTP presently treats wastewater from the communities of Wahiawa, Whitmore Village and most recently the Navy's Naval Computer and Telecommunications Area Master Station, Pacific (NCTAMS PAC) facility (see Figure 1.1). During periods of inclement weather, wastewater flow rates entering the plant exceed the capacity of the onsite influent low lift pump station.

Infiltration and inflow into the sewer system during inclement weather does not pose a hydraulic problem to the Whitmore Village sewer infrastructure. However, when compounded with wet weather flows emanating from the Wahiawa district, the flows from Whitmore Village and NCTAMS PAC contribute to the problems experienced at the Wahiawa WWTP. Heavy rainfall episodes have resulted in overflowing manholes and surcharged sewers in Wahiawa. Thus, the impetus of this project pertains to the benefits of detaining Whitmore Village and NCTAMS PAC wet weather flows at the abandoned Whitmore Village WWTP to dampen any high flow to Wahiawa that might otherwise coincide with the Wahiawa peak flow.



WHITMORE VILLAGE WWTP  
CONVERSION TO FLOW EQUALIZATION  
**FIGURE 1.1**  
WAHIAWA WWTP  
TRIBUTARY AREA MAP

900 0 1800 3500  
GRAPHIC SCALE IN FEET



### **1.3 OBJECTIVES**

The primary objective of the project is to provide an interim solution to dampen peak flows which enter the Wahiawa WWTP. Operation of the flow equalization facility will be temporary; therefore, the secondary objective is to minimize the time and expense to construct flow equalization facilities.

The Whitmore Village WWTP site has been identified as a desirable site for construction of a flow equalization facility due to its present off-line status, and its location enabling diversion of flows from both Whitmore Village and NCTAMS PAC.

### **1.4 LOCATION**

Whitmore Village WWTP is located in central Oahu, adjacent to the North Fork of Kaukonahua Stream. The community of Wahiawa lies to the south and NCTAMS PAC, a U.S. Navy communications facility, is situated to the east (see Figure 1.2).

#### **1.4.1 Whitmore Village**

The residential community of Whitmore Village encompasses approximately 393 acres. According to the 1990 census, Whitmore Village includes approximately 850 residential units and about 4,000 residents. The newest homes were built in 1988 within the Kahi Kani Subdivision, located on the southern side of the community. Wastewater flows from the Whitmore Village community are conveyed to a pretreatment facility by a 12-inch sewer located along Whitmore Avenue.

#### **1.4.2 NCTAMS PAC**

The U.S. Navy communications facility NCTAMS PAC, is located one mile east of Whitmore Village. The facility occupies approximately 694 acres and serves as part of the global communications network for the U.S. Navy. In addition to communications facilities, NCTAMS PAC contains 140 family housing units, enlisted personnel barracks and community support services. The estimated population of the facility is 1,200, including 8-hour shift civilian personnel. Wastewater flows in an 8-inch sewer from the main gate along Whitmore Avenue to a manhole near the intersection of Ihiihi Avenue.



#### **1.4.3 Whitmore Village Wastewater Treatment Plant**

The Whitmore Village WWTP site (TMK 7-1-2:22) is owned by the City and County of Honolulu and encompasses an area of 33,393 sq. ft. The site is surrounded by the Dole Fresh Fruit Company base yard, adjacent to the North Fork of Kaukonahua Stream. The plant was constructed in 1968 and served the Whitmore Village community until March 1994 when its treatment facilities were abandoned and wastewater was conveyed to the Wahiawa WWTP for treatment and disposal. Presently, the plant is maintained in an inactive status by the Department of Environmental Services (formerly the Department of Wastewater Management). Regular upkeep is limited to grounds maintenance, removal of accumulated rainwater in process tanks, and periodic startup of the emergency generator.

#### **1.4.4 Adjacent Lands**

Lands owned by Dole Food Company, Inc. and Castle & Cooke Homes Hawaii, Inc. are affected by the proposed project. The City and County of Honolulu has an access and utility easement through these lands for the access road and influent sewer between Whitmore Avenue and the WWTP. Parcel 7-1-2:04 is owned by Dole Food Company, Inc. and encompasses approximately 257 acres. Parcel 7-1-2:09 encompasses about 24 acres and is owned by Castle & Cooke Homes Hawaii, Inc.

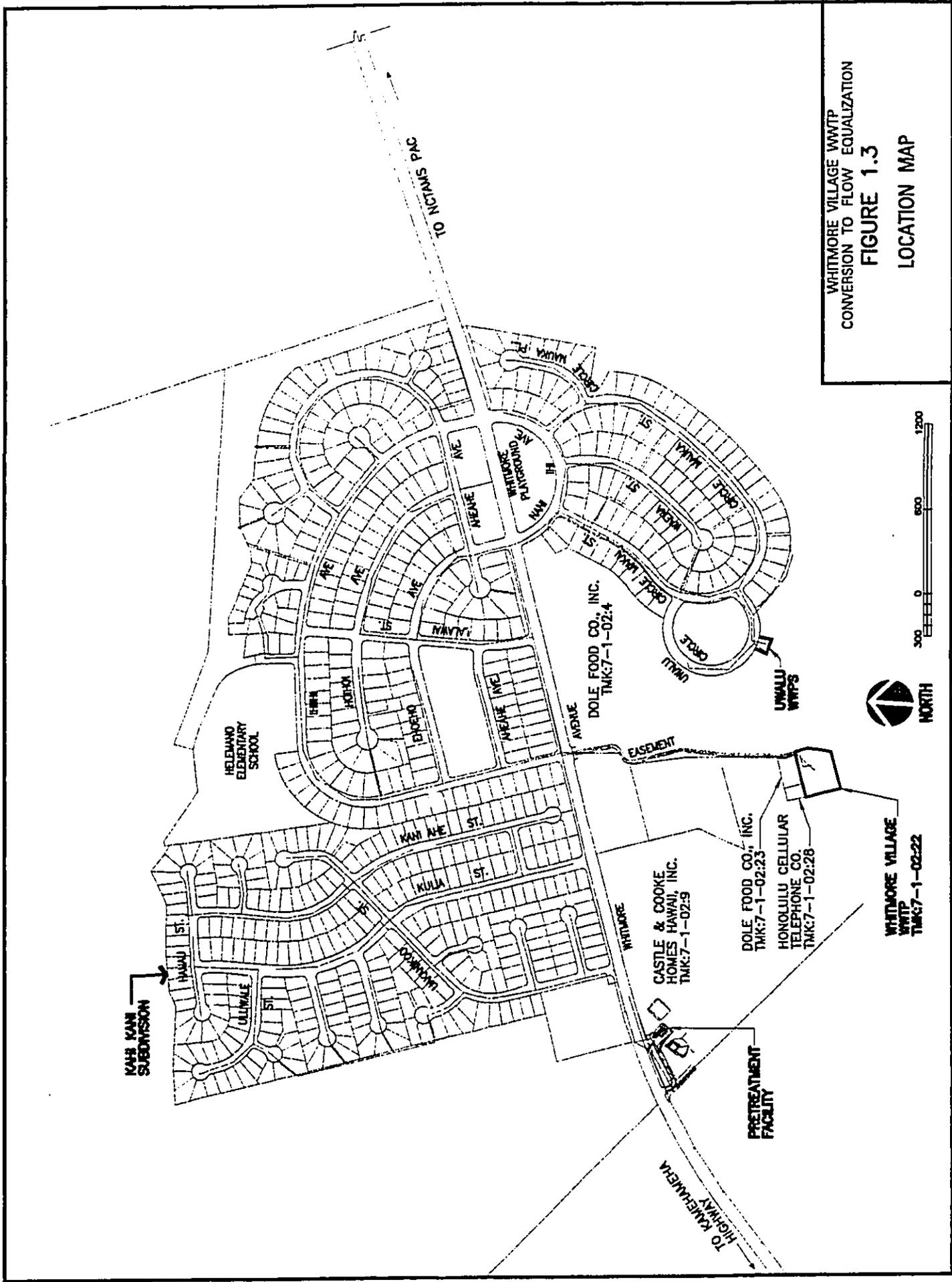
The proposed project will also impact Whitmore Avenue, an existing state road maintained by the Department of Transportation, which serves the communities of Whitmore Village and NCTAMS PAC.

Honolulu Cellular Telephone Company has constructed an antenna tower on their parcel (TMK 7-1-2:28) located north of the Whitmore Village WWTP. Hawaiian Electric Company, Inc. was the previous owner of another adjoining parcel (TMK 7-1-2:23) which is presently owned by Dole Food Company, Inc.

Refer to Figure 1.3 for the location of these parcels.

#### **1.4.5 Whitmore Village Pretreatment Facility**

A pretreatment facility was constructed within the Dole Fresh Fruit Company base yard fronting Whitmore Avenue (see Figure 1.3). The purpose of the facility is remove grit and rags from the combined wastewater stream from Whitmore Village and NCTAMS PAC prior to entering a siphon structure along the transmission route to Wahiawa WWTP. An accumulation of such debris within the siphon would lead to clogging. The pretreatment facility contains proportional flow grit removal channels and comminutors for the maceration of solids.



#### **1.4.6 Wahiawa Wastewater Treatment Plant**

The Wahiawa WWTP presently serves the communities of Wahiawa, Whitmore Village and NCTAMS PAC. In 1996, the estimated residential population served by the plant was over 21,000; with Wahiawa accounting for over 17,300 people. There are no current plans to convey wastewater from Wahiawa to the Honouliuli WWTP in Ewa. The State Department of Health concurs with the City's proposed plan to upgrade the treatment processes at Wahiawa WWTP and discharge R-1 quality effluent into Wahiawa Reservoir at a deeper outfall location.

#### **1.5 PERMITS AND APPROVALS REQUIRED**

A list of permits and approvals which will need to be obtained prior to construction of the project is presented in Table 1. There are no anticipated federal permits or approvals necessary. The project is consistent with the Coastal Zone Management (CZM) objectives and policies of Chapter 205A, Hawaii Revised Statutes.

TABLE 1

PERMITS AND APPROVALS

AGENCY	PERMIT/APPROVAL
State of Hawaii Department of Health	<ul style="list-style-type: none"> <li>• Variance From Pollution Controls</li> <li>• Noncovered Source Permit</li> <li>• NPDES Permit (Hydrotesting)</li> <li>• Construction plan approval</li> </ul>
State of Hawaii Department of Transportation	<ul style="list-style-type: none"> <li>• Construction plan approval</li> </ul>
City & County of Honolulu Department of Planning and Permitting	<ul style="list-style-type: none"> <li>• Building Permit for Building, Electrical, Plumbing, Sidewalk/Driveway and Demolition Work</li> <li>• Grubbing, Grading and Stockpiling Permit</li> <li>• Special Use Permit in the State Agricultural District</li> <li>• Development Plan Amendment (public facilities map)</li> <li>• Construction plan approval</li> </ul>

## CHAPTER 2

### PROPOSED ACTION

#### 2.1 DESCRIPTION OF THE PROPOSED ACTION

The proposed action is conversion of the existing abandoned Whitmore Village Wastewater Treatment Plant (WWTP) to a flow equalization facility which will detain wet weather flows from Whitmore Village and NCTAMS PAC. The detained wastewater will be reintroduced into the sewerage system after subsidence of the peak flow at the Wahiawa WWTP.

It is the intent of the Department of Environmental Services (formerly the Department of Wastewater Management) to operate the flow equalization facility on a temporary basis until improvements at the Wahiawa WWTP are implemented.

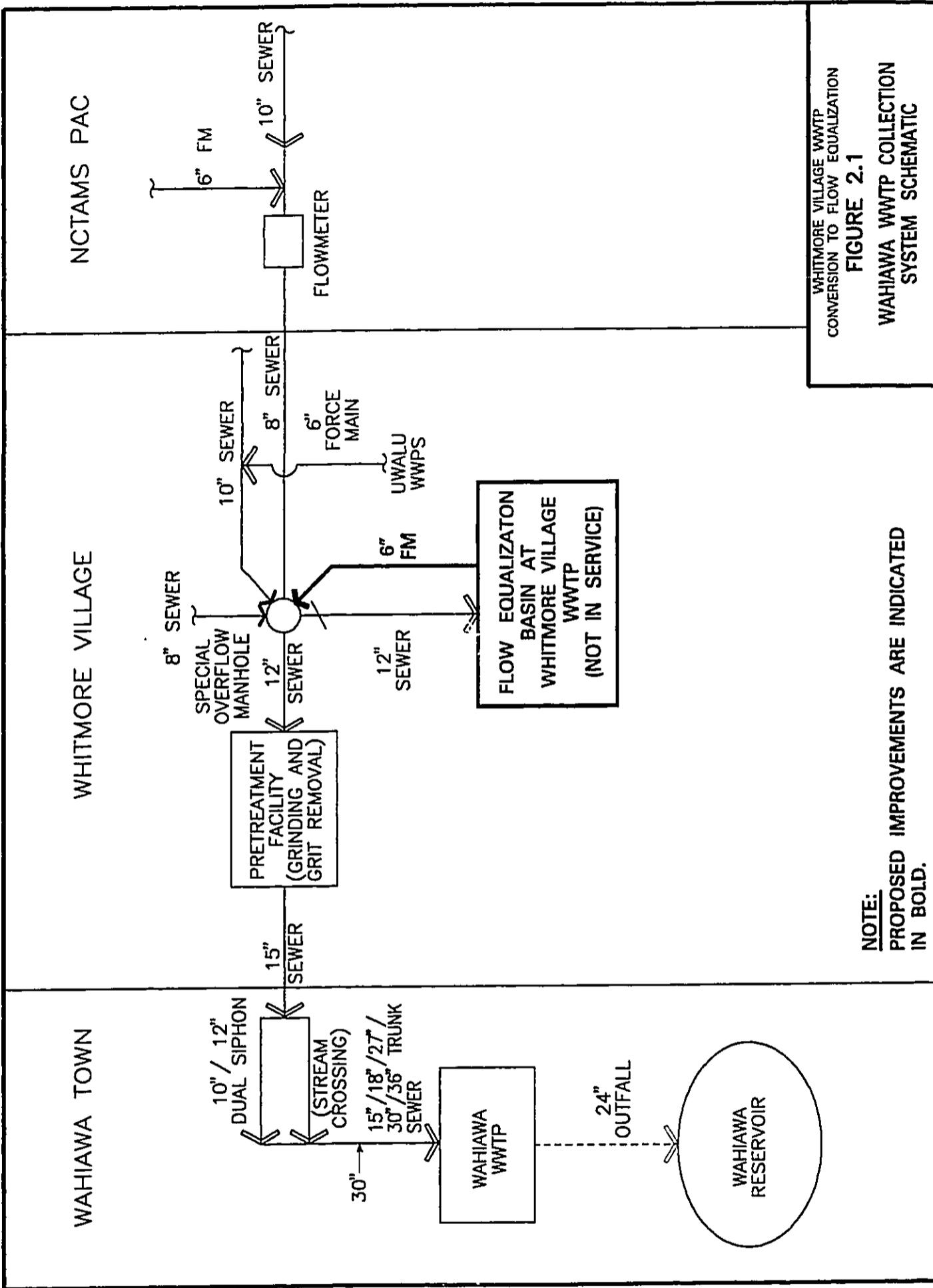
The proposed action will entail automatic flow diversion from the 12-inch sewer in Whitmore Avenue to holding tanks within the inactive Whitmore Village WWTP, and pumping of return flow through a new 6-inch force main when peak flow conditions subside (see Figure 2.1).

Construction of proposed improvements will impact the Whitmore Village WWTP, existing private and municipal roads, and the Whitmore Village pretreatment facility. A description of each portion of the proposed construction follows.

##### 2.1.1 Whitmore Village WWTP Modifications

The following improvements are proposed within the Whitmore Village WWTP:

- Installation of inclined manual bar screens within the existing grit chamber to remove large items in the wet weather flow stream to prevent pump damage and clogging.
- Refurbishing the aeration tanks for 200,000 gallon holding capacity, including replacement of existing corroded aeration diffusers and related piping.
- Installation of submersible non-clog wastewater pumps (15 horsepower) in both flow detention basins to return stored wastewater to the Whitmore Avenue trunk sewer.
- Installation of liquid level sensing devices in each flow detention basin for automatic operation of return pumps to prevent overflowing of tanks. Liquid levels will be transmitted via telemetry to Wahiawa WWTP.



WHITMORE VILLAGE WWTP  
CONVERSION TO FLOW EQUALIZATION  
**FIGURE 2.1**  
WAHIAWA WWTP COLLECTION  
SYSTEM SCHEMATIC

**NOTE:**  
PROPOSED IMPROVEMENTS ARE INDICATED  
IN BOLD.

- Retrofit of the existing 70 KW LPG fueled emergency power generator system with an automatic transfer switch. The generator will provide standby power to operate return pumps, telemetering functions and the automatic diversion valve at Whitmore Avenue during power outages.

Refer to Figure 2.2 for the location of proposed improvements.

### 2.1.2 Flow Diversion and Force Main Construction

The following improvements are proposed within Whitmore Avenue and the Whitmore Village WWTP access road (located within the Dole base yard).

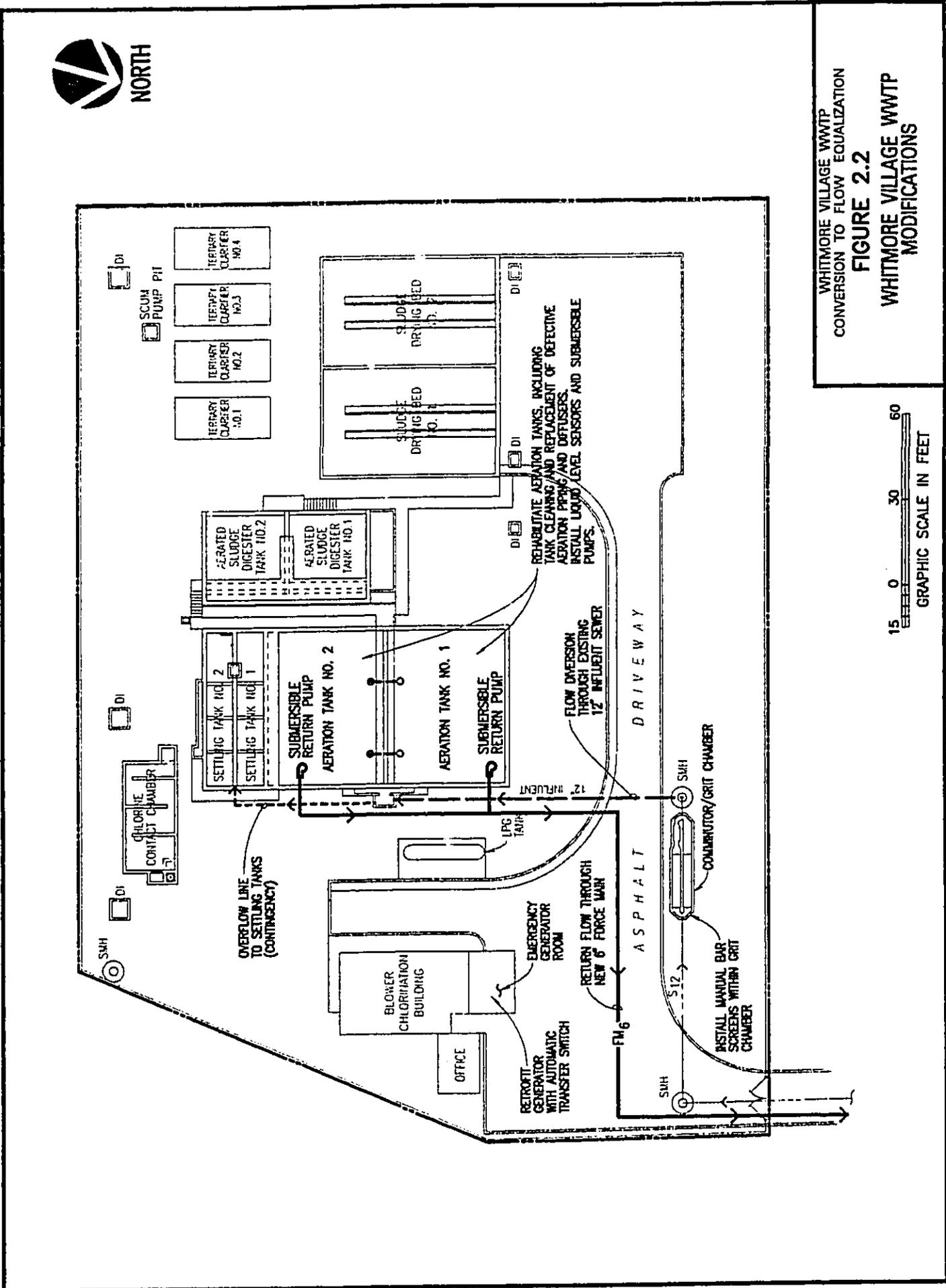
- Construction of a 12-inch diameter diversion sewer within Whitmore Avenue and installation of an automatic diversion valve within a concrete vault at Whitmore Avenue. The automatic diversion valve will divert wastewater flow in the Whitmore Avenue 12-inch trunk sewer to the Whitmore Village WWTP for detention. Electrical improvements to provide power to activate the diversion valve will also be required.
- Construction of 1,500 feet of 6-inch PVC or HDPE force main within the existing road/utility easement from the Whitmore Village WWTP to Whitmore Avenue. The force main will connect to return pumps within the flow detention basins for reintroduction of diverted flow to the Whitmore Avenue trunk sewer.

Proposed improvements are illustrated on Figure 2.3.

### 2.1.3 Whitmore Village Pretreatment Facility Modifications

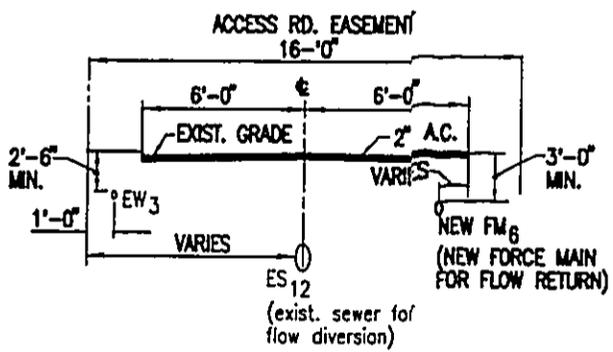
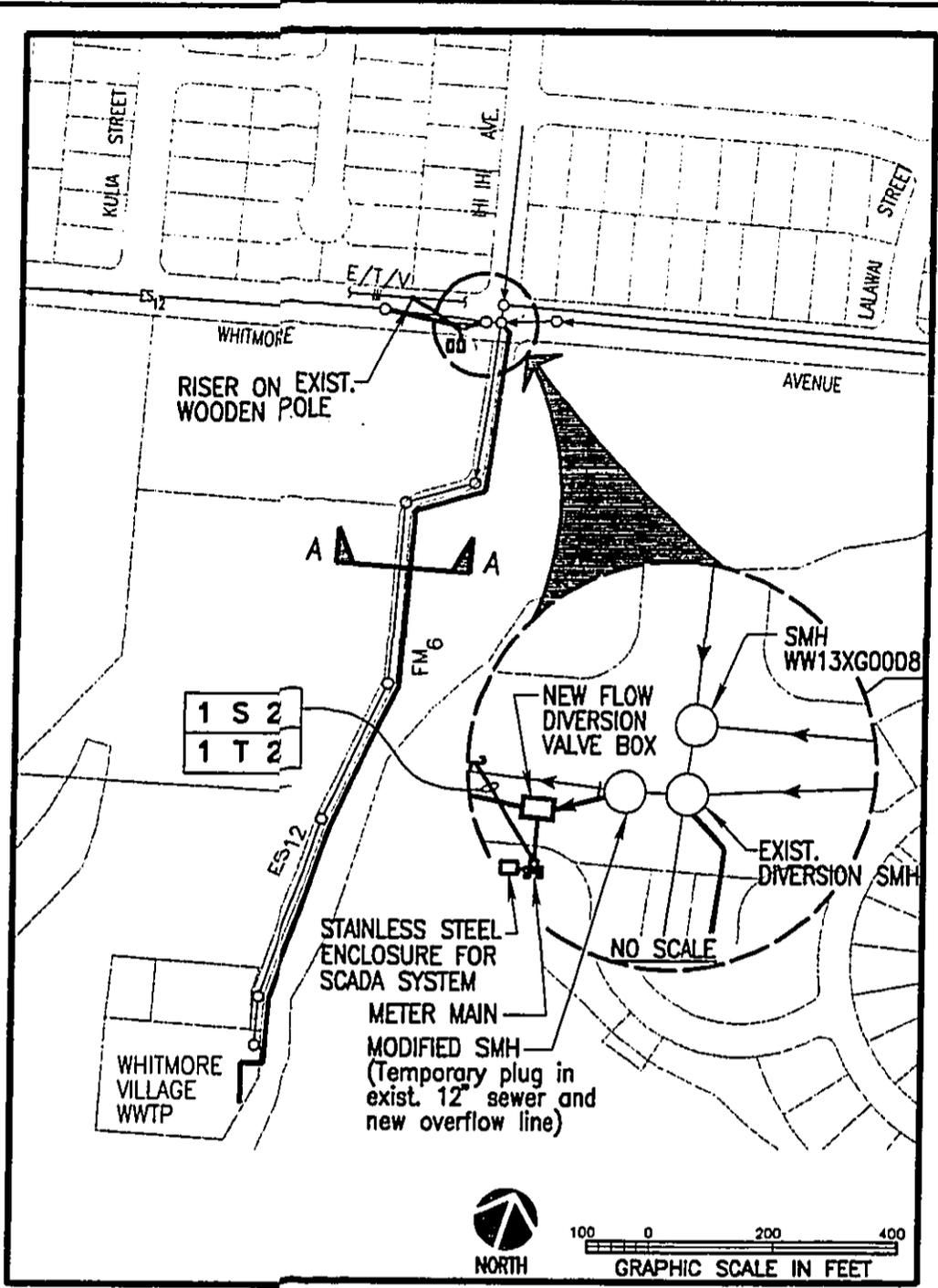
The following improvements are proposed at the Whitmore Village Pretreatment Facility:

- Installation of an open channel type sewer flow meter with indicator and recorder is proposed at the Whitmore Village Pretreatment Facility. Readings will be transmitted via telemetry to the Wahiawa WWTP. The sewer flow meter will provide real time, continuous readings of Whitmore Village and NCTAMS PAC wastewater flows within the trunk sewer for decisions on flow diversion.
- A small, 10 KW diesel generator is proposed at the pretreatment facility to operate the SCADA system during commercial power outage. The generator will have noise attenuation to comply with the noise pollution regulation requirements. Associated appurtenances include an automatic transfer switch, day tank and above grade fuel tank.



WHITMORE VILLAGE WWTP  
 CONVERSION TO FLOW EQUALIZATION  
**FIGURE 2.2**  
 WHITMORE VILLAGE WWTP  
 MODIFICATIONS





WHITMORE VILLAGE WWTP  
CONVERSION TO FLOW EQUALIZATION  
**FIGURE 2.3**  
FLOW DIVERSION AND  
FORCE MAIN CONSTRUCTION

## 2.2 OPERATION OF THE FLOW EQUALIZATION FACILITY

Up to 200,000 gallons of wet weather flow will be detained in the Whitmore Village WWTP aeration tanks. While this detention volume will be beneficial during smaller storms, the capacity was too small to benefit the largest storm analyzed.

The diverted flow will be screened and stored in the two-compartment aeration tanks. The detained wastewater will be aerated to minimize generation of odors. A gated hydraulic interconnection will be constructed in the partition wall such that either basin can be used independently or in combination for operation and maintenance flexibility. Degritting of the wet weather flow through the existing grit settling channel will not be efficient and the detention basins will need to be intermittently cleaned of sediment. Sediment will be removed using non-clog type submersible pumps which will also serve as the return pumps for a force main from the plant to the Whitmore Avenue trunk sewer.

A sewage flow meter installed at the readily accessible Whitmore Village Pretreatment Facility will continually monitor flows emanating from Whitmore Village and NCTAMS PAC. Telemetered flow rate readings will be displayed at the Wahiawa WWTP central monitoring point to aid the operator in assessing the need for flow diversion.

For flow diversion, alterations will be required to the sewers in the vicinity of Whitmore Avenue and Ihihi Avenue to direct the sewage flow to the Whitmore Village WWTP flow equalization facility. Liquid level sensors in the detention basins will control the return pump operation and telemeter basin filling rates to the Wahiawa WWTP (to furnish information on the influent flow rate). As a contingency measure, an overflow line can be installed between the detention basins and the adjoining final settling tanks for additional holding volume.

After subsidence of the peak flow at the Wahiawa WWTP, the Whitmore Village WWTP equalization basins can be drained fully using the return pump and force main system. The return pumps will be manually activated.

## 2.3 PROJECT SCHEDULE AND CONSTRUCTION COST

It is anticipated that implementation of this project, including design, environmental documentation, permits and construction will take 18 months to complete.

The estimated cost to construct the proposed project is approximately \$700,000. Annual operation and maintenance costs are estimated to be \$10,000, based on routine maintenance of the facility.

## CHAPTER 3

### DESCRIPTION OF THE AFFECTED ENVIRONMENT

The intent of this chapter is to describe the existing physical and social environment which is affected by the proposed project. Potential impacts which may result from development of the proposed project, and mitigation measures which will be employed to minimize negative impacts, are presented in Chapter 4.

#### 3.1 GEOLOGY AND SOILS

The surface soils at the project site have been classified by the U.S. Department of Agriculture Soil Conservation Service as Kolekole silty clay loam (KuD). These well-drained residual soils are derived from the in-situ weathering of igneous rock. Permeability of these soils is slow and runoff potential is medium to rapid, with a moderate to severe erosion hazard.

#### 3.2 TOPOGRAPHY

The community of Whitmore Village lies on gradually sloping terrain, with an elevation of 980 feet at the western end to 1,040 feet at the eastern end. The Whitmore Village WWTP lies on land ranging in elevation from 955 to 975 feet, sloping toward the North Fork of Kaukonahua Stream in a southerly direction. The plant is situated on a narrow plateau between two gulches which flow toward the stream.

#### 3.3 WATER RESOURCES

##### 3.3.1 Surface Water

The nearest surface water course is the North Fork of Kaukonahua Stream, located approximately 500 feet to the south of the Whitmore Village WWTP site. The stream is tributary of Wahiawa Reservoir (Lake Wilson).

##### 3.3.2 Ground Water

The project site is situated in an area with significant ground water recharge. Ground water occurring in this portion of the aquifer is currently exploited for drinking water purposes. The aquifer is a high level aquifer where ground water is impounded at higher elevations by dikes or other low permeability materials. Ground water flow in the aquifer is generally toward the south-southeast.

### 3.4 FLOOD AND TSUNAMI HAZARD

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, the project site is located in Zone D, an area where flood hazards are undetermined. There have been no reports of flooding occurring at the WWTP, which is located on a plateau with natural drainage toward the North Fork of Kaukonahua Stream. The WWTP site is over 25 feet above the elevation of the stream.

Due to location of the project site within central Oahu, there are no tsunami hazards anticipated.

### 3.5 FLORA AND FAUNA

The project site is located within previously developed lands adjacent to a base yard for agricultural operations. Most of the area to be impacted by the proposed construction has been paved or consists of man made structures. The surrounding vegetation includes tall grass and weeds.

Fauna found within the project area is representative of most rural developed areas on the island.

### 3.6 ARCHAEOLOGY

An archaeological site in the vicinity of the proposed project is Kukaniloko Birthstones, located approximately 700 feet west of the Kamehameha Highway/Whitmore Avenue intersection (approximately 4000 feet from the Whitmore Village WWTP) on a 5-acre state-owned parcel. According to the Galbraith Trust Estate Wahiawa Lands Development Final EIS (April 1993), "a substantial prehistoric agricultural complex once existed in the vicinity. The presence of Kukaniloko Birthstones and the former presence of several heiau in the area indicated this area was once associated with the alii." The Final EIS also reports that "Kukaniloko is considered to be one of the most sacred places on the island of Oahu. It is thought to be one to two famous places in the islands for the birth of the alii."

The lands surrounding the Whitmore Village WWTP have been in pineapple cultivation for the past 100 years, with portions of the lands used as a base yard for the Dole Fresh Fruit Company. The lands have been extensively disturbed. It is highly unlikely that any significant archaeological deposits would be found. However, due to the reported archaeological significance of the project vicinity, the State Historic Preservation Division has been contacted and a determination on the impact of the proposed project on historic sites has been requested.

### **3.7 LAND USE AND ZONING**

#### **3.7.1 State Land Use**

The project site is located within both the Urban and Agricultural districts according to the State Land Use Commission land use classification maps (see Figure 3.1). The Whitmore Village WWTP, pretreatment facility and most of the proposed force main alignment are located within the Agricultural district. However, the portion of the force main along Whitmore Avenue appears to be located within the Urban district.

#### **3.7.2 Development Plan Zoning Map**

The project site is located within the Restricted Agricultural District (AG-1) on the City and County of Honolulu Development Plan Zoning Map (see Figure 3.2). A Special Use Permit will be required from the Planning Commission due to the proposed improvements on approximately 1.2 acres of Agricultural-zoned lands.

### **3.8 TRAFFIC**

Whitmore Avenue is the main thoroughfare in the area, serving the community of Whitmore Village and the NCTAMS PAC facility by providing access to Kamehameha Highway. The two-lane road has a posted speed limit of 35 mph. Traffic conditions at the intersection of Whitmore Avenue and Kamehameha Highway were evaluated by Wilbur Smith Associates for the Galbraith Trust Estate Wahiawa Lands Development Final EIS in April 1993. The EIS reported that under existing conditions, the signalized intersection operated at level of service (LOS) C during both the morning and afternoon peak hours.

Access to the Whitmore Village WWTP is provided near the intersection of Whitmore Avenue and Ihiihi Avenue, at a gated entrance through the Dole Fresh Fruit Company base yard. The paved access road serves both the base yard and treatment plant operations.

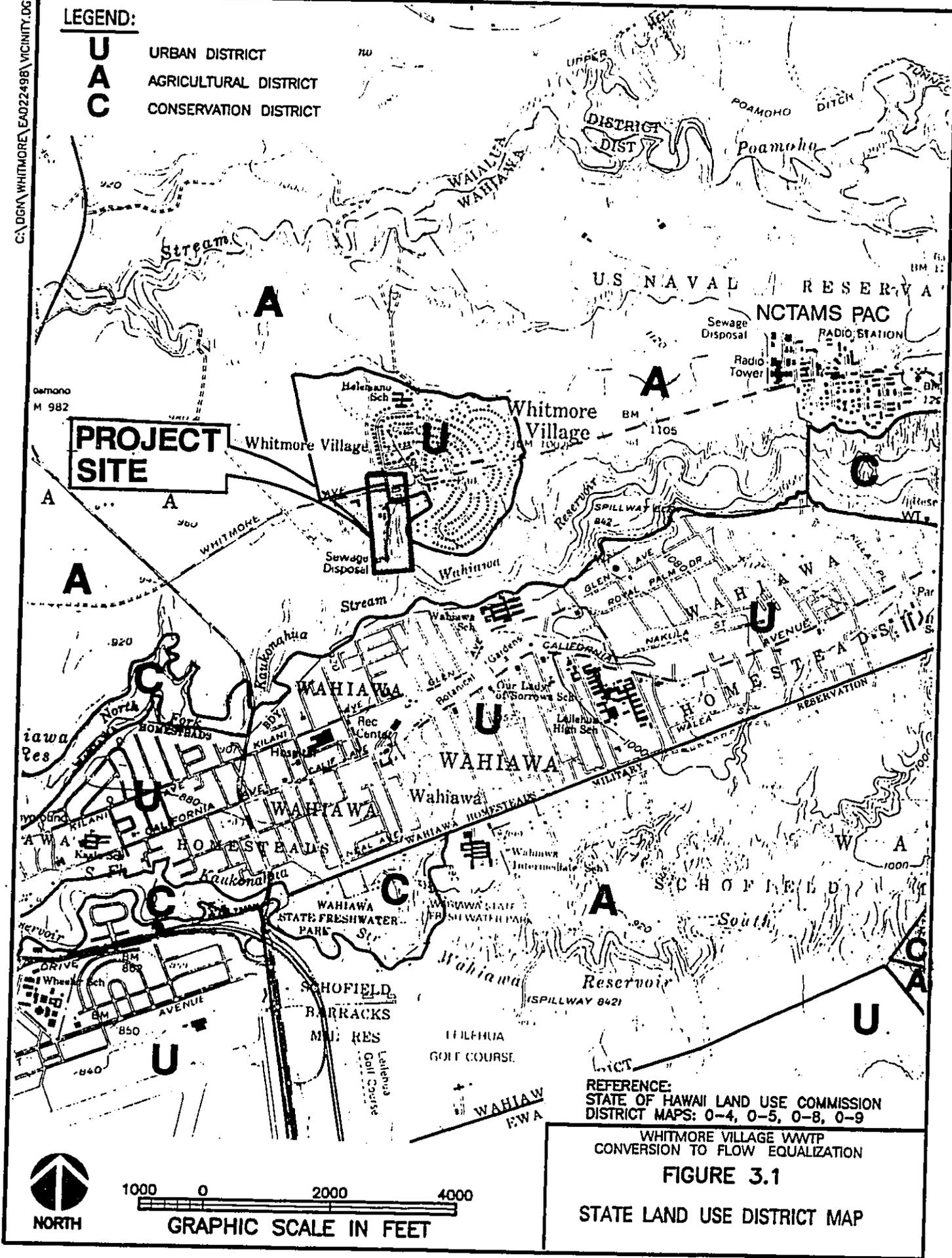
### **3.9 NOISE**

The Whitmore Village WWTP site is located immediately east of an area which was addressed in a noise impact study by Darby & Associates, prepared for the Galbraith Trust Estate Wahiawa Lands Development Final EIS in April 1993. The EIS addressed approximately 880 acres of Galbraith Trust lands, generally extending from Wahiawa Reservoir (Lake Wilson) to the south, Kamananui Road and Kamehameha Highway to the northwest, Poamoho Gulch to the north and Dole pineapple fields to the east. The EIS reported that "fields to the north and

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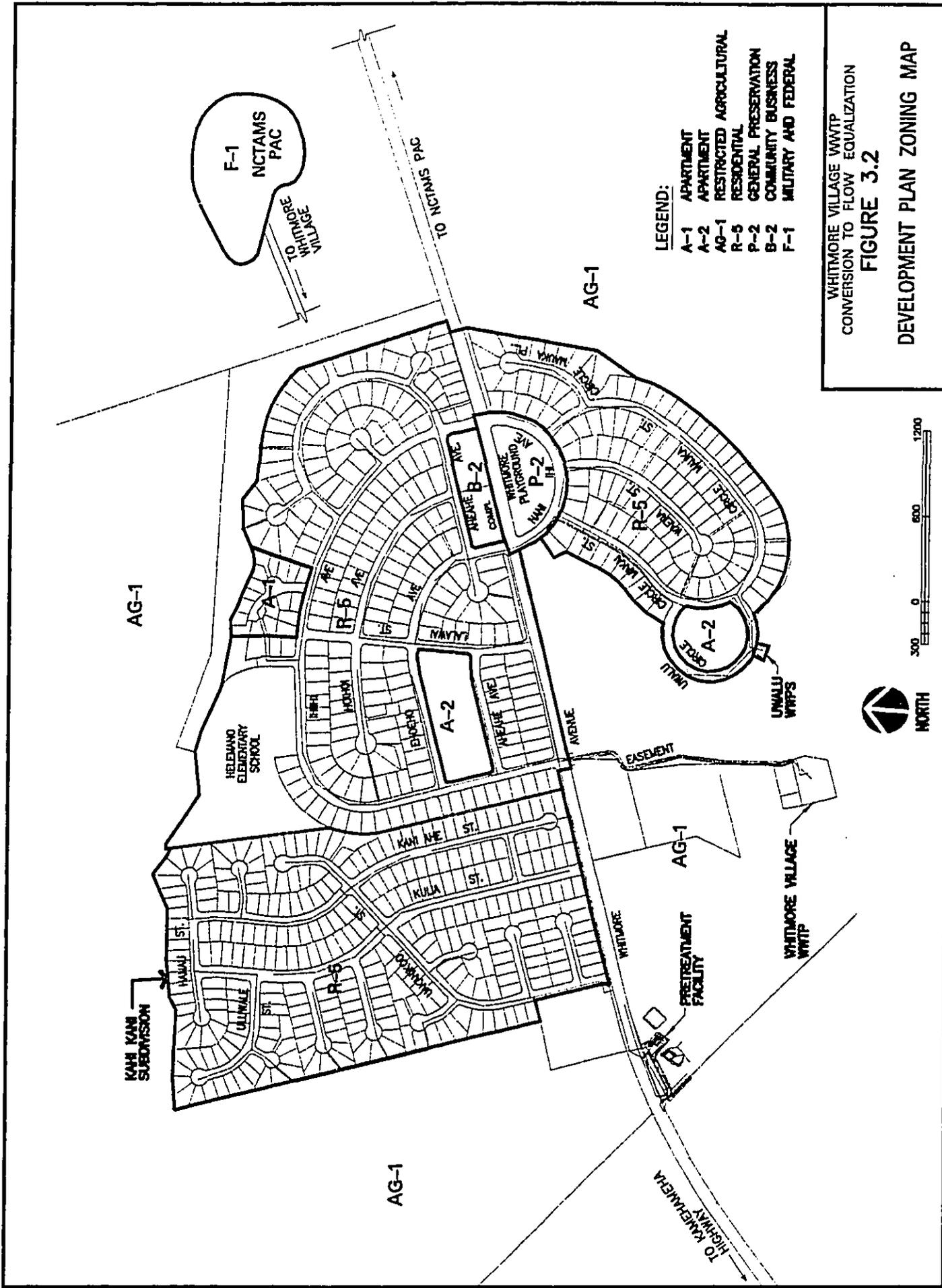
- U** URBAN DISTRICT
- A** AGRICULTURAL DISTRICT
- C** CONSERVATION DISTRICT



REFERENCE:  
 STATE OF HAWAII LAND USE COMMISSION  
 DISTRICT MAPS: 0-4, 0-5, 0-8, 0-9

WHITMORE VILLAGE WWTP  
 CONVERSION TO FLOW EQUALIZATION  
**FIGURE 3.1**  
 STATE LAND USE DISTRICT MAP





east of the proposed project site experience an acoustical environment similar to the project site with wind, aircraft, traffic and pineapple growing operations being the dominant noise sources". The Galbraith Trust lands were characterized as experiencing relatively low noise levels, typical of rural or semi-rural areas.

### **3.10 AIR QUALITY**

The State Department of Health does not conduct routine air quality monitoring in the project vicinity. However, due to the absence of major air pollution sources within the area, it is reasonable to assume state and federal air quality standards are presently being met.

### **3.11 VISUAL**

The Whitmore Village WWTP is situated approximately 1000 feet south of Whitmore Avenue, and at an elevation approximately 25 feet lower than Whitmore Avenue. Due to the distance and elevation change, the plant is not visible from the road. The nearest residences are located on Uwalu Circle, approximately 600 feet to the east. However, the plant is not visible from these homes due to its location approximately 15 feet below the homes and the natural vegetation within a gulch that separates the plant from the residences.

### **3.12 SOCIOECONOMIC**

#### **3.12.1 Population**

Whitmore Village is included in Traffic Analysis Zone (TAZ) 15200. The 1990 Census indicated a population of 4,303 for this TAZ. Of this total, 282 persons resided in Poamoho Camp, which is not connected to the municipal sewage collection system. There has been no residential development since 1990. Therefore, a total population of 4,021 persons may be attributed to Whitmore Village.

The population of NCTAMS PAC is influenced by the global defense situation and budgetary appropriations of the U.S. Department of Defense. Based on a discussion with the base engineering office, it is estimated that the current equivalent population for NCTAMS PAC is approximately 1,200 persons.

#### **3.12.2 Land Ownership**

Land in Whitmore Village is privately owned by the area residents. Other land owners in the vicinity include Castle & Cooke Homes Hawaii, Inc./Dole Fresh Fruit

Company, Honolulu Cellular Telephone Company and the federal government. The Whitmore Village WWTP site is owned by the City and County of Honolulu.

### 3.12.3 Employment

Employers in the area include Dole and the federal government (NCTAMS PAC).

### 3.13 ENVIRONMENTAL SITE ASSESSMENT

A Phase I Environmental Site Assessment was conducted for the project site by Edward K. Noda and Associates, Inc. in January 1998. The following conclusions were reported:

- No apparent environmentally adverse or detrimental effects were detected as a result of past or present use of the site;
- There was no direct evidence of petroleum hydrocarbon and/or hazardous substance/waste contamination at the property; and
- There was no direct evidence that subsurface contaminants from nearby facilities have migrated to the soils and ground water beneath the assessed property to cause any adverse environmental impacts.

A copy of the report is included in Appendix A.

## CHAPTER 4

### POTENTIAL IMPACTS AND MITIGATION MEASURES

The intent of this chapter is to describe potential impacts to the existing physical and social environment which may result from construction and operation of the proposed project. Mitigation measures which will be employed to minimize negative impacts are also discussed in this chapter.

Potential impacts may be classified as "short term" or "long term". Short term impacts are generally associated with construction activities while long term impacts are those that are lasting, resulting from the presence or operation of the project after it is constructed.

#### 4.1 SOIL EROSION

The potential for soil erosion will be a short term impact, limited to construction activities. While most of the proposed construction will take place within previously paved areas, disturbance of the pavement or existing vegetation during grading or trenching activities will result in bare ground with the potential for soil erosion. After completion of construction, soil erosion potential will revert back to pre-construction conditions due to repaving and establishment of vegetative cover.

Erosion control measures will be implemented during construction to minimize soil erosion and offsite sediment transport. Erosion control plans will be prepared during the design phase and included in the construction documents. The erosion control plan will identify specific best management practices which will be employed to minimize erosion and offsite sediment transport. These practices may include construction of temporary berms or swales to direct offsite runoff away from the construction site and installation of silt fence along the downstream side of the site.

#### 4.2 TOPOGRAPHY

The proposed project will not significantly alter the topography of the area. Most of the proposed construction will be located within existing paved areas or roads. No mitigation measures are proposed.

#### **4.3 WATER RESOURCES**

The proposed project will not significantly impact the surface water or ground water resources in the vicinity. As discussed previously, erosion control measures will be implemented to minimize offsite sediment transport during construction. In addition, the existing vegetative buffer between the WWTP and the North Fork of Kaukonahua Stream will provide a natural filter for surface runoff. There are no mitigation measures proposed.

#### **4.4 FLOOD AND TSUNAMI HAZARD**

The proposed project is not located within a flood or tsunami zone, nor will the project impact these areas.

#### **4.5 FLORA AND FAUNA**

The project site will not have a significant impact on existing flora or fauna due to its location within previously developed areas. No mitigation measures are proposed.

#### **4.6 ARCHAEOLOGY**

The proposed project will be constructed within previously developed lands, including roads and wastewater treatment facilities. Therefore, the project is not anticipated to have a significant impact on archaeological or historic sites. However, in the unlikely event that excavation activities unearth an archaeological deposit, construction activities will be halted and the State Historic Preservation Division will be contacted for instructions.

#### **4.7 LAND USE AND ZONING**

The proposed project will not require a change in the existing land use or zoning. However, a Special Use Permit will be required due to construction within an agricultural district.

#### **4.8 TRAFFIC**

The proposed project will have a short term impact on existing traffic on both Whitmore Avenue and the Dole Fresh Fruit Company base yard/WWTP access

road. Traffic impacts will be limited to the period of construction, and will include the following:

- temporary closure of one lane of Whitmore Avenue for construction of the flow diversion improvements within the pavement;
- temporary inconvenience to Dole personnel within the base yard during construction of the force main within the access road; and
- temporary increase in construction-related traffic on both roads, including workers vehicles, trucks and construction equipment.

These short term impacts will be mitigated by implementation of the following measures:

- A traffic control plan will be prepared during the design phase and submitted to the State Department of Transportation for approval. The traffic control plan will include measures to safely route traffic around the proposed construction within Whitmore Avenue.
- Construction activities within the access road will be coordinated with Dole Fresh Fruit Company base yard personnel to minimize disruption of agricultural and maintenance operations.
- Construction operations will be scheduled to avoid peak traffic conditions on both roads.

The proposed project will not have a long term impact on traffic conditions on either Whitmore Avenue or the Dole Fresh Fruit Company base yard/WWTP access road. No increase in traffic generation will result from development of the project.

#### 4.9 NOISE

Short term noise impacts may result from construction activities. However, adverse impacts from construction noise are not anticipated to affect public health and welfare due to the temporary nature of the work and the administrative controls available for its regulation. To mitigate construction-related noise impacts, the contractor will be required to comply with Hawaii Administrative Rules Chapter 11-46 "Community Noise Control", and noise regulations of the City and County of Honolulu, including those specified in the grading permit.

Long term noise impacts may result from operation of the existing 70 kW emergency generator located at the Whitmore Village WWTP and the new 10 kW emergency generator proposed for the pretreatment facility. The 70 kW generator

is tested weekly by maintenance personnel. However, with operation of the flow equalization facility at the Whitmore Village WWTP, generator testing may be scheduled on a more frequent basis. Similarly, the 10 kW generator proposed for the pretreatment facility will require weekly testing. Both emergency generators will activate only when electrical outages coincide with peak flow episodes resulting in flow diversion.

The actual noise impact due to operation of these generators is not anticipated to be significant due to infrequent occurrence, distance from residences, and installation of the generators in appropriate sound enclosures. The existing 70 kW generator is housed within a room of the blower/chlorination building. The smaller 10 kW generator proposed for the pretreatment facility will be supplied with an enclosure for noise attenuation.

#### **4.10 AIR QUALITY**

During construction, generation of fugitive dust during demolition, earthmoving and other activities may result in a temporary impact on air quality. To ensure compliance with State Department of Health regulations, an effective dust control plan will be implemented during construction. Dust control measures may include watering the work area, use of wind screens, keeping the adjacent roadways clean, and covering open-bed trucks. Permanent re-paving will be scheduled as soon as practicable.

There will be no long term impact to air quality associated with the proposed project. The detained wastewater flows will be aerated to minimize generation of odors. Wastewater will not be detained for long periods. Flows will be returned to the Whitmore Avenue trunk sewer for transmission to Wahiawa WWTP as soon as the peak subsides and the downstream facilities are able to safely accept the detained flows.

Emissions from the two emergency generators may have a long term impact on air quality in that emissions will persist when the generators are activated. However, any long term impact will be intermittent, occurring predominantly during maintenance testing, which is part of the standard operating procedure. Other than testing, the generators will not be activated unless an electrical power outage coincides with a peak flow period when flow diversion is occurring.

#### **4.11 VISUAL**

Most of the proposed improvements will be installed underground, at ground level, or contained within existing facilities. Pole-mounted electrical boxes will be

installed along Whitmore Avenue to house instrumentation. However, no significant visual impacts are anticipated and no mitigation measures are proposed.

#### **4.12 SOCIOECONOMIC**

The proposed project will not have a significant impact on population or employment opportunities.

Operations of the adjacent Dole Fresh Fruit Company base yard may be temporarily inconvenienced by the construction. This short term impact will be limited to construction activities. Mitigation measures include coordination of construction activities and schedules with Dole Fresh Fruit Company personnel, including development of a traffic control plan. Construction of the proposed improvements will neither terminate nor significantly disrupt Dole Fresh Fruit Company agricultural activities.

#### **4.13 HAZARDOUS MATERIALS**

Prior to renovation/demolition, potential materials containing asbestos containing materials (ACM) and/or lead containing paints (LCP) that would be impacted by construction activities will be surveyed by certified asbestos and lead paint inspectors. If ACMs and/or LCPs are present, they will be abated and disposed of, by licensed trained asbestos and/or lead paint abatement contractors, in accordance with plans and specifications based on all applicable laws and regulations.

## CHAPTER 5

### ALTERNATIVES CONSIDERED

This chapter discusses alternatives against which the proposed action was evaluated. The alternatives were rejected due to their inability to meet the project objectives, or attainment of the objectives to a less desirable degree. To restate, the primary objective of the project is to provide an interim solution to dampen peak flows which enter the Wahiawa WWTP. Due to the interim nature of the solution, a secondary objective is to minimize the expense and implementation time.

The proposed action of automatic flow diversion and pumping of return flow through a new force main will involve construction of a new 6-inch force main in the existing road and utility easement, conversion of the aeration tanks to detention basins, and installation of return pumps, pump controls, telemetering, electrical works, and miscellaneous piping.

#### 5.1 NO ACTION

Without construction of flow equalization facilities, the Wahiawa WWTP would continue to experience peak wet weather wastewater flows. Hydraulic conditions at the plant have worsened during wet weather conditions due to wastewater from NCTAMS PAC being diverted to the City and County sewerage system. Left unabated, wet well or process tank overflows may occur at the Wahiawa WWTP.

The "no action" alternative is not acceptable since it fails to meet the project objectives.

#### 5.2 MANUAL FLOW DIVERSION AND TRUCKING OF DETAINED VOLUMES

In this scheme, wastewater diversion will require manual operation of the existing slotted stop gate frame mounted in the channelized manhole at the intersection of Whitmore and Ihihi Avenues. When a decision is made to divert sewage to the equalization basins, a crew will be dispatched to the special manhole and a stop gate will be inserted to divert the normal course of flow. An operator will monitor the flow equalization facility for proper operation until passage of the peak flow episode, and then restore the system to its normal operating mode. Emptying of the filled equalization basins will be accomplished with the aid of portable submersible pumps and several tanker trucks. Hauled wastewater will be disposed at a manhole located at the nearby pretreatment facility. It is estimated that about 100 truck trips would be required over at least three days to drain the full tanks.

This alternative would take about six months to implement, including: installation of flow meter at the pretreatment facility, modification of the stop gate installation, and rehabilitation of the grit chamber and detention basins walls.

Despite its apparently low implementation cost, this alternative is not preferred for several reasons.

- (1) A field crew will need to be dispatched from Wahiawa to the diversion manhole to lower the stop gate which is situated in the middle of the outbound lane on Whitmore Avenue. Based on an evaluation of rainfall versus sewage flow hydrographs, the peak flow may pass before a field crew may be dispatched.
- (2) Up to four tanker trucks would need to be purchased and designated for use in transporting the stored wastewater back to the transmission system at an appropriate discharge point. Purchase of tanker trucks would increase the cost of implementation. Use of existing tanker trucks would not be feasible since historically, all available tanker trucks would be needed to service cesspools following a heavy rainfall.
- (3) The flow equalization facility would be incapacitated during the period of returning flow to the sewerage system.

### **5.3 AUTOMATIC FLOW DIVERSION AND PUMPING OF RETURN FLOW THROUGH EXISTING SLIPLINED 12-INCH SEWER**

This alternative is similar to the proposed action. Improvements proposed for the Whitmore Village Pretreatment Facility under the proposed action, including installation of a 10 KW emergency generator, would also be included in this alternative. The difference being sliplining of the existing 12-inch diversion sewer for use as a dual purpose diversion and return force main, and installation of a new generator and related electrical works.

This alternative is less desirable than the proposed action due to the requirement for larger return flow pumps and purchase of a new emergency generator to serve the pumps. Use of the 12-inch pipe as a return flow force main will require larger pumps (30 horsepower) to meet the minimum velocity requirement. The larger pumps, in turn, will increase the electrical requirement and exceed the existing emergency generator capacity. Purchase of a new generator and expansion of the generator housing would be required.

#### 5.4 CONSTRUCTION OF FLOW EQUALIZATION FACILITY AT WAHIAWA WWTP

All Whitmore Village WWTP conversion alternatives can be implemented in a relatively short time compared to the timeframe involved in making extensive permanent structural and mechanical improvements at the Wahiawa WWTP. However, construction of flow equalization basins at Wahiawa WWTP and increasing the capacity of the influent lift station will afford permanent facilities to handle the range of wet weather flows that presently pose operation and maintenance problems.

## CHAPTER 6

### FINDINGS AND DETERMINATION

#### 6.1 DETERMINATION

The Department of Environmental Services (formerly the Department of Wastewater Management) has concluded that the proposed project does not have the potential to generate significant environmental impacts, and the need to prepare an environmental impact statement is not foreseen. This Final EA has been submitted with a Finding of No Significant Impact (FONSI) determination.

#### 6.2 FINDINGS AND REASONS SUPPORTING DETERMINATION

The overall and cumulative effects of the proposed action were evaluated with respect to Hawaii Administrative Rules (HAR) Title 11, Department of Health, Chapter 200, Environmental Impact Statement Rules, Section 11-200-12 "Significance Criteria". The following findings and conclusions can be made in support of the FONSI determination:

- (1) The proposed project will not involve an irrevocable commitment to loss or destruction of any natural or cultural resource. The flow equalization facility and appurtenances will be constructed on previously developed lands.
- (2) The proposed project will not curtail the range of beneficial uses of the environment. The proposed project will be located within a City and County parcel and easements, designated for wastewater facilities.
- (3) The proposed project will not conflict 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.
- (4) The proposed project will not have a substantial negative effect on the economic or social welfare of the community or state. The project will not have a long term impact on employment or economics. The impact on social welfare will be positive since the proposed project will enhance wastewater service for the community.
- (5) The proposed project will not substantially affect public health (in a negative manner). Rather, the project will provide a means to

minimize potential public health concerns due to overload of the Wahiawa WWTP during peak wet weather flows.

- (6) The proposed project does not involve substantial secondary impacts, such as population changes or effects on public facilities (in a negative manner). Rather, the effect on the Wahiawa WWTP will be positive, in that the peak wet weather flow will be dampened.
- (7) The proposed project does not involve substantial degradation of environmental quality. Instead, the proposed project will aid in preserving environmental quality by minimizing the potential for wastewater spills or overflows at the Wahiawa WWTP.
- (8) The proposed project will not have a considerable cumulative effect upon the environment or involve a commitment for larger actions. The proposed project is an interim measure which will terminate after the permanent facility improvements are constructed. The permanent improvements will be addressed in a separate environmental document.
- (9) The proposed project will not substantially affect any rare, threatened, or endangered species or their habitat since there are none present within the project site.
- (10) The proposed project will not detrimentally affect air or water quality or ambient noise levels. These potential impacts and mitigation measures have been addressed in the appropriate sections of the EA.
- (11) The proposed project will not affect, nor is it likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal water.
- (12) The proposed project will not substantially affect scenic vistas or viewplanes identified in county or state plans or studies. Most of the project will be constructed underground, at ground level or within existing facilities.
- (13) The proposed project will not require substantial energy consumption. The equalization facility will operate intermittently, only during peak wet weather flow conditions.

## CHAPTER 7

### CONSULTED PARTIES AND PARTICIPANTS IN THE ENVIRONMENTAL ASSESSMENT PROCESS

#### 7.1 LIST OF PREPARERS

This Final EA was prepared for the City and County of Honolulu Department of Environmental Services (formerly the Department of Wastewater Management) by Engineering Concepts, Inc. Edward K. Noda & Associates, Inc., contributed to the document in the identification of hazardous materials and preparation of a Phase I Environmental Site Assessment. A copy of their report is included in Appendix A.

#### 7.2 PARTIES CONSULTED

The State Historic Preservation Division was contacted for a determination on the potential of the project to impact historic sites during pre-assessment consultation. A copy of the correspondence is included in Appendix B.

Forty eight (48) copies of the Draft EA were mailed to agencies, organizations and other interested parties. A complete listing of these consulted parties is included in Sections 7.2.1 through 7.2.5.

Availability of the Draft EA was published in the July 23, 1998 edition of *The Environmental Notice* by the Office of Environmental Quality Control. A total of 13 comment letters were received as of September 3, 1998. Agencies and organizations responding to the request for comments are marked with an asterisk (\*) in the lists which follow.

##### 7.2.1 Federal Government

- \* U.S. Army Corps of Engineers
- U.S. Navy:
  - \* Naval Base Pearl Harbor
  - Naval Facilities Engineering Command, Pacific Division
  - \* Navy Public Works Center
  - NCTAMS PAC

##### 7.2.2 State Government

State Legislature:  
Senator Robert Bunda, 22nd District  
Representative Marcus Oshiro, 40th District

Department of Agriculture  
Department of Business, Economic Development and Tourism:

- \* Land Use Commission
- \* Office of Planning  
Energy, Resources and Technology Division
- Department of Land and Natural Resources
- \* State Historic Preservation Division
- Department of Health, Environmental Planning Office
- \* Department of Transportation
- \* Office of Environmental Quality Control
- University of Hawaii, Environmental Center

### 7.2.3 City and County Government

Councilmember Rene Mansho, District I  
Board of Water Supply

- \* Department of Planning and Permitting

### 7.2.4 Other Interested Parties

Office of Hawaiian Affairs

American Lung Association

- \* Hawaiian Electric Company, Inc.
- \* GTE Hawaiian Telephone Company
- Oceanic Cable
- \* The Gas Company
- Wahiawa Neighborhood Board No. 26
- \* Castle & Cooke Homes Hawaii, Inc.
- \* Dole Food Company, Inc.
- Wahiawa Community Business Association

### 7.2.5 Libraries

Hawaii State Library

University of Hawaii, Hamilton Library

Wahiawa Public Library

Waiialua Public Library

## 7.3 COMMENTS ON THE DRAFT EA

Comment letters received during the public review of the Draft EA and responses prepared by the applicant have been included in Appendix C.

## CHAPTER 8

### REFERENCES

Engineering Concepts, Inc., *Preliminary Engineering Report Final Submittal, Whitmore Village Wastewater Treatment Plant Conversion to Flow Equalization*, prepared for the Department of Wastewater Management, April 1998.

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**APPENDIX A**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
by Edward K. Noda and Associates, Inc.**

**Revised Phase I Environmental Site Assessment  
Whitmore Village WWTP Conversion  
to Equalization Basin  
Whitmore Village  
Wahiawa, Oahu, Hawaii  
TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.)**

**PREPARED FOR:**

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**Prepared By:**



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**Project No. 1858-00F  
Revised March 1998**

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Whitmore Village  
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Revised Phase I Environmental Site Assessment  
Whitmore Village WWTP Conversion to Equalization Basin

Whitmore Village  
Wahiawa, Oahu, Hawaii 96788

TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.)

Executive Summary

A Phase I Environmental Site Assessment (ESA) was conducted by Edward K. Noda and Associates, Inc. (EKNA), of the subject project site which includes: the Whitmore Village Wastewater Treatment Plant (WWTP); a proposed extension on the north side of the WWTP; an associated pretreatment facility (PTF) on Whitmore Avenue; a proposed access road which will connect the WWTP and PTF; and, a proposed pipe alignment along the existing access road on Whitmore Avenue located in the Whitmore Village area north of the town of Wahiawa, Oahu, Hawaii and is identified as TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) (described herein as the "Site" or the "assessed property"). This work was performed at the request, and for the use of Engineering Concepts, Inc., 250 Ward Avenue, Suite 206, Honolulu, Hawaii, 96814 for specific application to the subject wastewater project. This assessment was conducted in support of engineering design efforts for the conversion of the existing treatment plant to an equalization basin, construction of a new access road and installation of new sewer lines.

This Phase I Environmental Site Assessment, conducted in January 1998, indicates that:

- The project site consists of the existing Whitmore Village WWTP, a proposed extension on the north side of the WWTP, a proposed access road, and a proposed pipe alignment. The proposed road alignment will traverse Dole Food Corp.'s plantation baseyard and connect the WWTP with the PTF on Whitmore Avenue. The proposed pipe alignment will run along the existing access road that connects the WWTP with Whitmore Avenue.
- The assessed site encompasses a total of approximately 2.1 acres of land in the Whitmore Village area north of the town of Wahiawa, Oahu, Hawaii. The wastewater treatment plant (WWTP) formerly served Whitmore Village (a plantation town of approximately 4,000 persons) and has been out of service since 1994.
- At present, the WWTP is occupied by a main structure which housed the office, laboratory, Emergency Generator Room (the emergency generator is propane powered) and a Blower Chlorinator. There are also numerous concrete tanks and holding basins throughout the WWTP area. Some tanks are currently half-filled with water.
- The pretreatment facility (PTF) is a small fenced yard which is occupied by a masonry control building and a concrete pumping basin. The proposed access road is part of a pineapple field and the proposed pipe alignment will be situated on the existing WWTP access road.
- No previous environmental site investigations are known to exist for the assessed properties.

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- The site survey conducted on January 29, 1998 indicated no evidence of the current or past presence of underground fuel storage tanks (USTs) on the Site (e.g., vent pipes, fill ports, abandoned dispensers, etc.).
- There were no signs of ash, grossly stained soils, discolored vegetation or other distinct evidence which would indicate the presence of contamination by petroleum or other toxic/hazardous agents.
- Three (3) on-site, utility pole mounted electrical transformers were observed in the southern portion of the WWTP area along with three (3) pole mounted electrical transformers on an adjacent property just north of the wastewater pump station. These transformers are not considered to be PCB containing equipment. There were fluorescent light fixtures, which may contain small amounts of PCB in their ballasts, in the main WWTP building. Fluorescent fixtures are not considered to be a significant source of PCB.
- The surrounding area is predominantly agricultural, e.g., pineapple, and residential. Potential sources of contamination could be spills and releases of chemicals (i.e., insecticides, herbicides, etc.) used at the adjacent pineapple plantation and/or chemicals previously used at the WWTP and/or PTF (i.e., chlorine, disinfectants, etc.). These sources of contamination may have been present at the Site during past usage.
- A review of federal databases indicated one (1) facility, within a one (1) mile radius from the Site, has been classified by the U.S. Environmental Protection Agency (EPA) as a National Priorities Site (NPL or "Superfund" site). This facility is the Naval Computer Telecommunications Area Master Station (NCTAMS) is located in an area that is across gradient and should not have any environmental impacts to the soil and ground water beneath the assessed Site.
- A review of the state leaking underground storage tank database indicated one (1) facility, within an one-half (1/2) mile radius from the Site, has reported a release or leak from underground storage tanks (LUST) to the Hawaii Department of Health (DOH). Additional investigation of this facility indicated that although the UST owner's address is within 1/2 mile of the Site, the actual UST is located more than one (1) mile from the Site.
- The site survey indicated the presence of suspect asbestos containing materials (ACM) such as ceiling panels, drywall with associated joint compound, vinyl floor tiles with associated mastic and sink undercoat in the office/laboratory area.
- The existing structures on the WWTP and PTF portion of the assessed property are at least fifteen years old. Due to the age of the structures, there is reason to suspect that the paints, particularly those on the exterior, may be lead containing paints (LCP) or may be underlain by LCP.

In view of the above, and based on a review of available information, the following may be concluded:

- No apparent environmental adverse or detrimental effects were detected as a result of past or present use of the site.

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- There was no direct evidence of petroleum hydrocarbon and/or hazardous substance/waste contamination at the property.

- There was no direct evidence that subsurface contaminants from nearby facilities have migrated to the soils and ground water beneath the assessed property to cause any adverse environmental impacts.

To address the environmental concerns identified in this Phase I ESA, it is recommended that:

- Prior to renovation/demolition activities, potential materials containing ACM and/or LCP that would be impacted by these activities should be surveyed by certified asbestos and lead paint inspectors. If ACMs and/or LCPs are present, they should be abated and disposed of, by licensed trained asbestos and/or lead paint abatement contractors, in accordance with plans and specifications based on all applicable laws and regulations.

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### 1.0 Introduction

A Phase I Environmental Site Assessment (ESA) was conducted by Edward K. Noda and Associates, Inc. (EKNA), of the subject project site which includes: the Whitmore Village Wastewater Treatment Plant (WWTP); a proposed extension on the north side of the WWTP; an associated pretreatment facility (PTF) on Whitmore Avenue; a proposed access road which will connect the WWTP and PTF; and, a proposed pipe alignment along the existing access road on Whitmore Avenue located in the Whitmore Village area north of the town of Wahiawa, Oahu, Hawaii and is identified as TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) (described herein as the "Site" or the "assessed property"). This work was performed at the request, and for the use of Engineering Concepts, Inc., 250 Ward Avenue, Suite 206, Honolulu, Hawaii, 96814 for specific application to the subject wastewater project. This assessment was conducted in support of engineering design efforts for the conversion of the existing treatment plant to an equalization basin, construction of a new access road and installation of new sewer lines.

### 1.1 Purpose

The purpose of the Phase I Environmental Site Assessment was to determine the presence of petroleum products and other environmentally hazardous substances/wastes, and to identify potential sources of any suspected contaminants at the assessed property.

### 1.2 Involved Parties

The involved parties for this assessment are:

Client Point of Contact: Mr. Ken Ishizaki, P.E.  
Engineering Concepts, Inc.  
EKNA Project Manager: Mr. Dayton E. Frain, P.E.  
EKNA Site Assessor: Mr. Charles G. Brown  
EKNA Report Author: Mr. Delwyn W.M. Ching

### 1.3 Scope of Work

The work has been conducted in accordance with American Society for Testing and Materials (ASTM) Standard Practice E 1527-87, "Standard Practice for Environmental Site Assessments" and accepted industry standards.

The scope of work involved two (2) primary tasks: a review of the history of the property and surrounding areas; and, a field survey/inspection of the property and other facilities in the immediate vicinity of the property.

In conducting this assessment, the following efforts were undertaken:

- Review of available archive maps and historical land use maps of the site and its vicinity for information regarding land use involving the manufacture, generation, use, storage and/or disposal of environmentally hazardous substances.
- Review of available documents regarding past and present site development.
- Review of Hawaii State Department of Health (DOH) and U.S. Environmental Protection Agency (EPA) databases of hazardous waste generators, underground storage tank facilities, landfills and sites currently under investigation within an one (1) mile radius of the subject property.
- Review of available U.S. Geological Survey and Hawaii State Department of Health (DOH) documents and maps for pertinent geologic and hydrogeologic conditions.
- Interviews with individuals familiar with the site history, and who have knowledge of activities on adjacent properties that may be pertinent to this assessment.
- A visual survey of the subject property for possible sources of hazardous material contamination, such as petroleum products, electrical transformers containing polychlorinated biphenyls (PCBs), and underground fuel storage tanks.

### 2.0 General Site Characteristics

#### 2.1 Site Location

The site is situated in the central portion of the island of Oahu, Hawaii to the north of the town of Wahiawa. The WWTP is physically situated approximately 1½ miles to the east

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of Kamehameha Highway, south of Whitmore Avenue, approximately 500 feet to the north of Lake Wilson's North Fork and approximately 300 feet to the west of Uwaia Circle. The PTF is physically situated on Whitmore Avenue, approximately 250 feet to the east of the corner of Kamehameha Highway and Whitmore Avenue. The proposed access road will be located adjacent to Dole Food Corp.'s plantation baseyard from the WWTP to the PTF on Whitmore Avenue. The proposed pipeline will traverse the existing access road from the WWTP to Whitmore Avenue.

#### 2.2 Adjacent Properties

The assessed site is surrounded by pineapple fields (some abandoned) in all directions.

#### 2.3 Site Description and Current Site Uses/Operations

It is proposed to convert the existing WWTP into an equalization basin. This conversion will involve the existing WWTP, a 10,000 ft<sup>2</sup> extension on the north side of the plant, the existing pretreatment facility (PTF) located at Whitmore Avenue, approximately 2,400 L.F. of proposed road alignment between WWTP and PTF and a piping alignment along the existing access road.

The assessed site is in the Whitmore Village area, north of the town of Wahiawa, Oahu, Hawaii and is legally identified as TMC: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) (Figure 2). The WWTP site is approximately 60% asphalt-paved with concrete sidewalks surrounding the building and some tanks. An asphalt paved driveway occupies approximately 30% of the WWTP site with the remaining 10%, a gravel paved area. The area to the north of the WWTP is undeveloped and covered with tall grass. The existing PTF site consists of a small fenced yard with a masonry control building, concrete basin containing an in ground pump station and most of the remaining area covered by an asphalt driveway. The proposed road alignment traverses the plantation baseyards and the proposed piping will traverse the existing access road to the WWTP.

The assessed site is currently zoned as General Agriculture (AG-1) by the City and County of Honolulu, Land Use Commission.

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### 3.0 Environmental Setting

#### 3.1 Regional Physiographic Conditions

The assessed property is at an elevation of approximately 950 feet above mean sea level (MSL); and slopes slightly towards Lake Wilson in a southerly direction. There are exposed soils in unpaved areas (Figure 3) which are covered with tall grass and trees.

Precipitation falling on the site either infiltrates into the ground or flows into any of the on-site drain inlets which discharge into Lake Wilson. The nearest surface water course is the North Fork of Lake Wilson, approximately 500 feet to the south.

According to the Federal Emergency Management Agency Flood Insurance Rate Map, the assessed property is located in an area where flood hazards are undetermined (Zone D).

#### 3.2 Soil Conditions

The surface soils on the Site have been classified by the U.S. Department of Agriculture as Kokekole Silty Clay Loam (KuD) (Figure 4). These well drained residual soils are derived from the in-situ weathering of igneous rock. Permeability of these soils is slow and runoff is medium to rapid with a moderate to severe erosion hazard.

#### 3.3 Geologic Conditions

The island of Oahu is composed largely of the weathered remnants of two (2) extinct shield volcanoes - Waianae and Koolau. The younger shield, Koolau, was built by the extrusion of lavas of the Koolau Volcanic Series and forms the majority of the southeastern two-thirds (2/3) of the island.

After the cessation of Waianae's shield building activity, lava flows from Koolau continued to bank against Waianae's eastern flank forming a broad plateau between the two (2) volcanoes. This plateau is referred to as the Schofield Plateau, consisting of a thick sequence of residual soils and saprolite over the parent rock.

The Site is situated on the Schofield Plateau where the majority of the soils surrounding the site consists of reddish-brown silty clay. The base of the stratigraphic section is the Koolau Basalts.

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#### 3.4 Ground Water Conditions

The site is situated in an area with significant ground water recharge. Ground water occurring in this portion of the aquifer is currently exploited for drinking water purposes. According to the University of Hawaii Water Resources Research Center Technical Report #179 for Oahu (Mink & Lau, 1990), the ground water underlying the site is considered to be a significant source of drinking water. The aquifer is a high level aquifer where ground water is impounded at higher elevations by dikes or other low permeability materials. Ground water flow in the aquifer is generally towards the south-southeast.

The assessed property is situated upgradient (mauka) of the Underground Injection Control Line (UIC) in this area of Oahu. Therefore, the Site is, by default, overlying ground water that is considered to be a source or potential source of drinking water. As described below, the utility of the ground water immediately beneath the Site has been evaluated in accordance with revised guidelines presented in DOH's policy statement entitled "Determination of Ground Water Utility at Leaking Underground Storage Tank Sites", September 19, 1995.

In accordance with the DOH guidelines, the University of Hawaii Water Resources Research Center (WRRC) report for Oahu (Mink and Lau, 1990) was used to determine the utility of the ground water at the Site. The report indicates that the ground water located immediately beneath the Site is part of the Waialeale High Level aquifer system.

According to the aquifer classification system in the WRRC report, the Site overlies a high level fresh water aquifer as shown in Table 1. The utility of the ground water in the region is classified as a drinking water source from this aquifer.

Based on the DOH Underground Injection Control Maps for Haleiwa (O-4), Hauula (O-8), Schofield Basalts (O-5) and Waipahu (O-9), there is one (1) known public drinking water supply well within an one (1) mile radius from the assessed properties. This well is located downgradient, approximately one (1) mile to the south of the Site.

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TABLE 1: AQUIFER CLASSIFICATION SYSTEM

Aquifer	Waihlawa High Level Aquifer
Aquifer Code	30501212
Island Code	3 - Oahu
Aquifer Sector	05 - Central
Aquifer System	01 - Waihlawa
Aquifer Type, hydrogeology	2 - High Level
Aquifer Condition	1 - Unconfined
Aquifer Type, geology	2 - Dike
Status Code	11111
Development Stage	1 - Currently Used
Utility	1 - Drinking
Salinity (in mg/L Cl)	1 - Fresh (<250)
Uniqueness	1 - Irreplaceable
Vulnerability to Contamination	1 - High

4.0 Results of Investigation

4.1 Site Inspection Observations

On January 29, 1998, Edward K. Noda and Associates, Inc. (EKNA) performed an on-site survey/inspection of the subject properties and the surrounding area. The results are discussed below:

- The assessed site encompasses a total of approximately 2.1 acres of land in the Whitmore Village area north of the town of Waihlawa, Oahu, Hawaii. The wastewater treatment plant (WWTP) formerly served Whitmore Village (a plantation town of approximately 4,000 persons) and has been out of service since 1994.

At present, the WWTP site is occupied by a main structure which housed the office, laboratory, Emergency Generator Room (the emergency generator is propane powered) and a Blower Chlorinator. There are also numerous concrete

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tanks and holding basins throughout the WWTP area. Some tanks are currently half-filled with water.

The pretreatment facility (PTF) is a small fenced yard which is occupied by a masonry control building and a concrete pumping basin. The proposed access road is part of a pineapple field and the proposed pipe alignment will be situated on the existing WWTP access road.

The site survey conducted on January 29, 1998 indicated no evidence of the current or past presence of underground fuel storage tanks (USTs) on the Site (e.g., vent pipes, fill ports, abandoned dispensers, etc.).

There were no signs of ash, grossly stained soils, discolored vegetation or other distinct evidence which would indicate the presence of contamination by petroleum or other toxic/hazardous agents.

Three (3) on-site, utility pole mounted electrical transformers, which are considered to be a potential source of polychlorinated biphenyls (PCB), were observed in the southern portion of the WWTP area. There were also, three (3) pole mounted electrical transformers on an adjacent property just north of the wastewater pump station. According to Mr. Mike Choy of Hawaiian Electric Company (HECO), these transformers are not considered to be PCB containing equipment. There were fluorescent light fixtures, which may contain small amounts of PCB in their ballasts, in the main WWTP building. Fluorescent fixtures are not considered to be a significant source of PCB.

The surrounding area is predominantly agricultural, e.g., pineapple, and residential. Potential sources of contamination could be spills and releases of chemicals (i.e., insecticides, herbicides, etc.) used at the adjacent pineapple plantation and/or chemicals previously used at the WWTP and/or at the PTF (i.e., chlorine, disinfectants, etc.). These sources of contamination may have been present at the Site during past usage.

The site survey indicated the presence of suspect asbestos containing materials (ACM) such as ceiling panels, drywall with associated joint compound, vinyl floor tiles with associated mastic and sink undercoat in the office/laboratory area.

The existing structures on the WWTP and PTF portion of the assessed property are at least ten years old. Due to the age of the structures, there is reason to

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suspect that the paints, particularly those on the exterior, may be lead containing paints (LCP) or may be underlain by LCP.

#### 4.2 Results of Regulatory Agency List Review and File Research

Research was undertaken to identify off-site facilities which may present a potential for adverse environmental effects on the assessed property. Table 2 provides a summary of the various facilities on Federal and State environmental database listings within a one (1) mile radius of the assessed property.

A review of the state leaking underground storage tank database indicated one (1) facility, within an one-half (1/2) mile radius from the Site, has reported a release or leak from underground storage tanks (UST) to the Hawaii Department of Health (DOH). DOH records indicate that cleanup is ongoing at this facility. Additional investigation of this facility indicated that although the UST owner's address is within 1/2 mile of the Site, the actual UST is located more than one (1) mile from the Site. This actual facility is situated across gradient from the assessed property and should not have any environmental impacts to the soil and ground water beneath the Site.

- Dole Wahiawa Plantation  
1116 Whitmore Avenue  
Wahiawa, HI 96786  
Agency ID#: 9-100758  
Case Status: Confirmed Release/Cleanup In Progress

With the exception of the Dole Wahiawa Plantation, no other facilities have reported a release from underground storage tanks and no facilities listed as generators or transporters of hazardous wastes were found in the immediate vicinity, i.e., within a one-half (1/2) mile radius from the assessed property.

A review of federal databases indicated one (1) facility, within a one (1) mile radius from the Site, has been classified by the U.S. Environmental Protection Agency (EPA) as a National Priorities Site (NPL or "Superfund" site).

- U.S. Naval Computer Telecommunications Master Station (NCTAMS)  
Eastern Pacific  
Wahiawa, HI 96786  
Agency ID#: HI0170090054  
NPL Status: Currently On Final NPL

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This facility is located in an area that is across gradient and should not have any environmental impacts to the soil and ground water beneath the assessed Site.

TABLE 2: SUMMARY OF FACILITIES ON FEDERAL AND STATE ENVIRONMENTAL DATABASES WITHIN ONE (1) MILE RADIUS OF THE ASSESSED PROPERTIES		FACILITIES
FEDERAL/STATE ENVIRONMENTAL DATABASE		
US EPA National Priorities List* (NPL)		1
US EPA CERCLIS*		0
US EPA Resource Conservation & Recovery Act* (RCRA)		7
Emergency Response Notification System* (ERNS)		0
Hawaii Department of Health UST List*		30
Hawaii Department of Health Leaking UST List*		8
Hawaii Department of Health Solid Waste Facilities*		0

\* The US EPA National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Federal Superfund Program.

\* The US EPA CERCLIS Database is a compilation of sites which have been investigated or are currently under investigation for a release or threatened release of hazardous substances in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Superfund).

\* The US EPA RCRA Database is a program which identifies and tracks hazardous substances/wastes from the point of generation to the point of disposal.

\* The Emergency Response Notification System (ERNS) is a nation-wide database with listings of reported releases of oil and hazardous substances.

\* Hawaii Department of Health, Solid and Hazardous Waste Branch, Underground Storage Tank Section's (DOH-SHWB) Registered Underground Storage Tank (UST) Listing.

\* Hawaii Department of Health, Solid and Hazardous Waste Branch, Underground Storage Tank Section's (DOH-SHWB) Leaking Underground Storage Tank (LUST) Listing.

\* Hawaii Department of Health's Solid Waste Landfill Listing.

The above facilities are located in areas that are hydrogeologically isolated from the Site (downgradient or across gradient) and should not cause adverse environmental conditions at the assessed property.

#### 4.3 Results of Site History/Land Use Review

The Site is identified as TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) and is currently owned by the City and County of Honolulu and Dole Food Co. Inc. The Site is an out-of-

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service wastewater treatment plant, including undeveloped land and a pretreatment facility. Based on available information, the WWTP property was used as a wastewater treatment facility for 25 years or more.

**TABLE 3A: PROPERTY OWNERSHIP HISTORY: TMK(1) 7-1-02: 04**

DATES	OWNER (F) = Fee, (L) = Lessee
Prior to 1939	Gussie Holt (F), Waiulus Agriculture Co., Ltd. (F), Anita T. Sibbard (F)
1939 to December 1944	Arma Apromery (F), Elizabeth K. George E., Nelson T., and Edward V. Richardson (F), Hawaiian Pineapple Co., Ltd. (F)
December 1944 to October 1946	Waiulus Agriculture Co., Ltd. (F)
October 1946 to December 1948	Helemano Co., Ltd. (F)
December 1948 to May 1958	Castle and Cooke, Ltd. (F)
May 1958 to Present	Castle and Cooke, Inc. (F)

**TABLE 3B: PROPERTY OWNERSHIP HISTORY: TMK(1) 7-1-02: 09**

DATES	OWNER (F) = Fee, (L) = Lessee
Prior to 1940	Waiulus Agriculture Co., Ltd. (F)
October 1948 to 1954	Hawaiian Pineapple Co., Ltd. (F)
1954 to 1960	Dole Corp. (F) changed to Castle and Cooke, Inc. (F)
1960	Portion of property dropped into 7102-04
1968 to Present	Dole Food Co., Inc. (F)

**TABLE 3C: PROPERTY OWNERSHIP HISTORY: TMK(1) 7-1-02: 22**

DATES	OWNER (F) = Fee, (L) = Lessee
Prior to October 22, 1969	Castle and Cooke, Ltd. (F)
October 22, 1969 to Present	City and County of Honolulu (F)

**TABLE 3D: PROPERTY OWNERSHIP HISTORY: TMK(1) 7-1-02: 23**

DATES	OWNER (F) = Fee, (L) = Lessee
Prior to August 4, 1970	Castle and Cooke, Ltd. (F)
August 4, 1970 to October 13, 1992	Hawaiian Electric Company (F)
October 13, 1992 to Present	Dole Food Co., Inc. (F)

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#### 4.4 Previous Environmental Investigations

No previous environmental site assessment of the assessed Site is known to exist.

#### 5.0 Conclusions and Recommendations

In view of the above, and based on a review of available information, the following may be concluded:

- No apparent environmentally adverse or detrimental effects were detected as a result of past or present use of the site.
- There was no direct evidence of petroleum hydrocarbon and/or hazardous substance/waste contamination at the property.
- There was no direct evidence that subsurface contaminants from nearby facilities have migrated to the soils and ground water beneath the assessed property to cause any adverse environmental impacts.

To address the environmental concerns identified in this Phase I ESA, it is recommended that:

- Prior to renovation/demolition activities, potential materials containing ACM and/or LCP that would be impacted by these activities should be surveyed by certified asbestos and lead paint inspectors. If ACMs and/or LCPs are present, they should be abated and disposed of, by licensed trained asbestos and/or lead paint abatement contractors, in accordance with plans and specifications based on all applicable laws and regulations.

#### 6.0 Limitations and Conditions

Although this Phase I Environmental Site Assessment provides information on the relative presence or absence of suspected environmental contaminants at the investigated site, it should be recognized that, unless otherwise specified in the scope of work, the information, conclusions and recommendations presented herein are based solely upon research of available information and visual observations made at the site and in its vicinity. Adverse environmental conditions which may be described herein are suspected conditions and have not been verified by sampling and testing. Similarly, if no suspect conditions are identified herein, this report should not be construed as a final statement that the assessed facility or the subject property is completely free of contamination.

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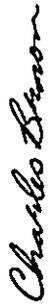
Page 11

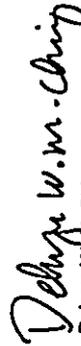
The information set forth is based solely on the agreed upon scope of services. The presence of subsurface contamination, asbestos containing materials, lead-based paints, radioactive materials, and biological hazards were not specifically investigated, unless otherwise specified in the scope of work. If sampling and testing efforts were conducted as part of this assessment, these efforts were based on an agreed upon scope and should be considered to be limited in nature. The intent of such limited sampling and testing has been to provide a basic level of screening for the target materials or substances and such limited testing should not be construed to be a complete survey or investigation to identify the full extent of such materials which may be present within the assessed site. Due to the limited nature of any such sampling and testing which may have been conducted, there is a possibility that not all of the target materials or substances were identified or quantified.

Given the often obscure and elusive nature of hazardous substances, it is never possible to absolutely dismiss the possibility of site contamination, even with exhaustive sampling and testing. Edward K. Noda and Associates, Inc. expressly disclaims any and all liability representations, expressed, or implied, contained in, or for omissions from this report, or any other written or oral communication which might be interpreted as establishing the total extent of all liability present at the subject property.

Our services have been performed with the usual thoroughness and competence of the consulting profession, in accordance with the standards for professional services at this time. No other warranty or representation, either expressed or implied, is included or intended.

EDWARD K. NODA & ASSOCIATES, INC.

  
Charles G. Brown  
Environmental Physicist

  
Delwyn W.M. Ching  
Geologist

  
Dayton E. Frain, P.E.  
Senior Engineering Geologist

## 7.0 References

### 7.1 Published References

1. City and County of Honolulu, Real Property Tax Division, Historical Records for TAMC (1) 7-1-02: 22, 23, 04 and 09, January 15, 1998.
2. State of Hawaii, Department of Health, Solid & Hazardous Waste Branch, List of Permitted Solid Waste Facilities (SWLF), 1/98.
3. State of Hawaii, Department of Health, Solid & Hazardous Waste Branch, Underground Storage Tank Section, List of Underground Storage Tank Facilities (UST), 7/97.
4. State of Hawaii, Department of Health, Solid & Hazardous Waste Branch, Underground Storage Tank Section, List of Underground Storage Tank Releases (LUST) 7/97.
5. U.S. Environmental Protection Agency, CERCLUS Listing, 7/97.
6. U.S. Environmental Protection Agency, RCRA-CORRACTS Listing, 8/97.
7. U.S. Environmental Protection Agency, Emergency Response Notification System Listing (ERNS), 7/97.
8. U.S. Environmental Protection Agency, National Priorities List (NPL), 4/97.
9. U.S. Environmental Protection Agency, RCRA Facility Listing (RCRIS)(RCRA-SmGen, RCRA-LgGen and RCRA-TSD), 8/97.
11. Macdonald, Gordon A., Abbot, Agatin T., and Peterson, Frank L., "Volcanoes in the Sea - The Geology of Hawaii", University of Hawaii Press, 1983, Honolulu, 571 pp.
12. Mirk, John F. and Lau, Stephen L., "Aquifer Identification and Classification for Oahu's Ground Water Protection Strategy for Hawaii, Technical Report No. 178" February 1990, Water Resources Research Center, University of Hawaii at Manoa, Honolulu, 28 pp.

Phase I Environmental Site Assessment  
Waimore Village WWTP Conversion to Equalization Basin  
Waimore Village  
Waikane, Oahu, Hawaii  
TAMC (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.)

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Phase I Environmental Site Assessment  
Waimore Village WWTP Conversion to Equalization Basin  
Waimore Village  
Waikane, Oahu, Hawaii  
TAMC (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.)

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7.2 Map and Other Geographical References

1. U.S. Geological Survey, "Haleiwa, Hauula, Schofield Barracks and Waipahu Quadrangles", 7.5 Minute Series, Topographic Map, 1981.
2. U.S. Department of Agriculture, "Soil Survey of Island of Hawaii, State of Hawaii", 1972.
3. Department of Health, State of Hawaii, "Underground Injection Control Maps, Haleiwa (O-4), Hauula (O-8), Schofield Barracks (O-5) and Waipahu (O-9) Quadrangles, 1984.
4. Experian Information Solutions, Inc. TMK Maps for TMK: (1) 7-1-02, Zone 7, Anahulu, CA, 1997.
5. Federal Emergency Management Agency, "Flood Insurance Rate Map, 150001 00044 B", September 28, 1980.

Appendix A - Figures

Figure 1 - Location Map

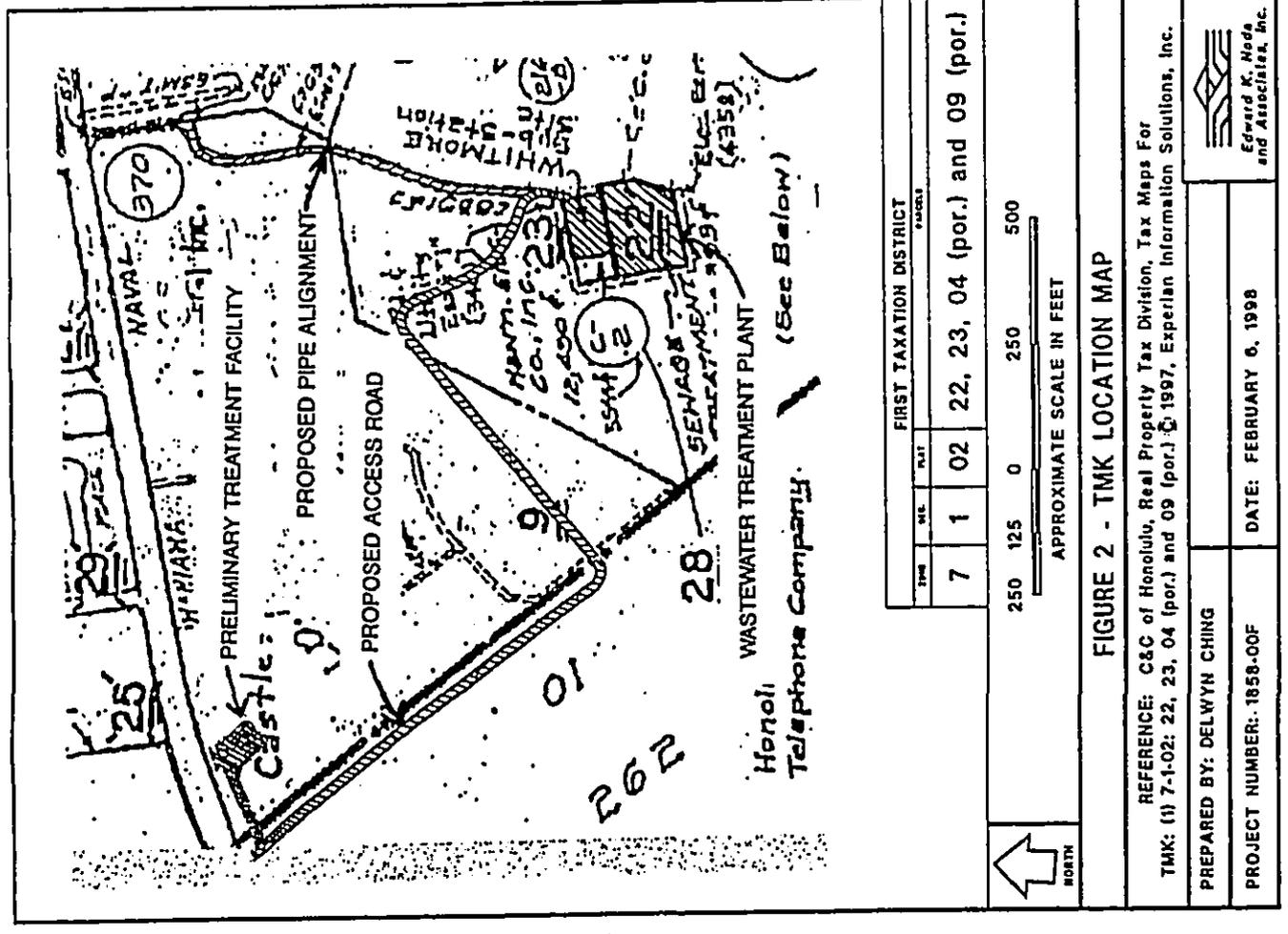
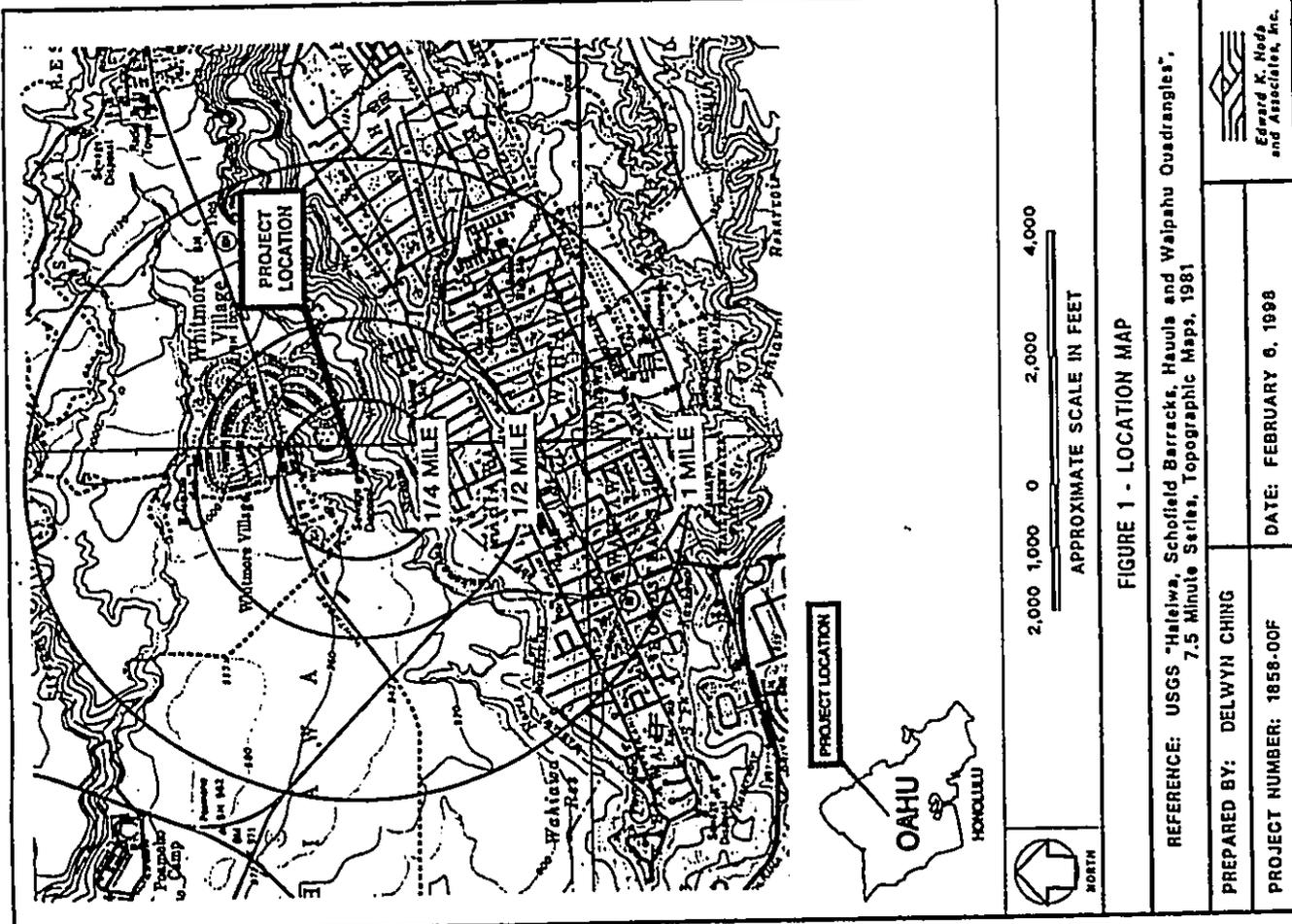
Figure 2 - Tax Map Key

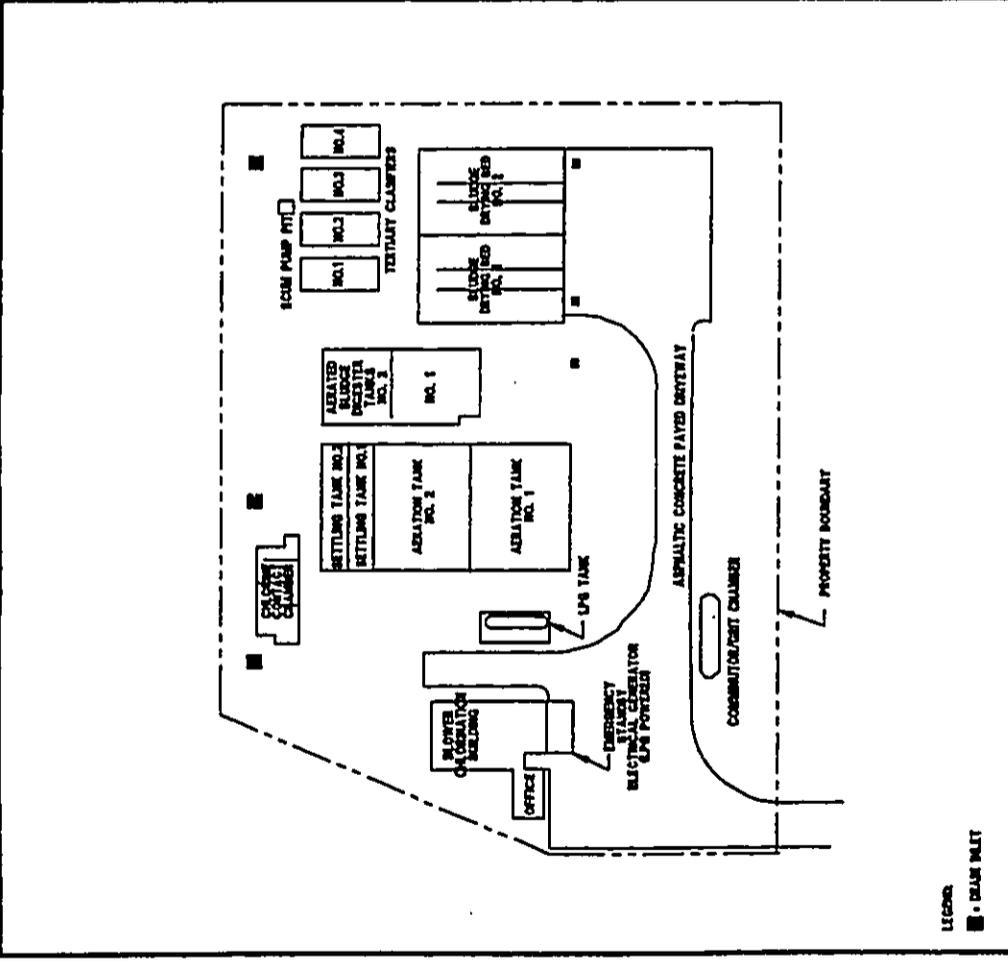
Figure 3A - Site Plan: Wastewater Treatment Plant

Figure 3B - Site Plan: Preliminary Treatment Facility

Figure 4 - Soil Classification Map

Figure 5 - Underground Injection Control/Water Well Map





LEGEND  
 ■ - DEWATER INLET



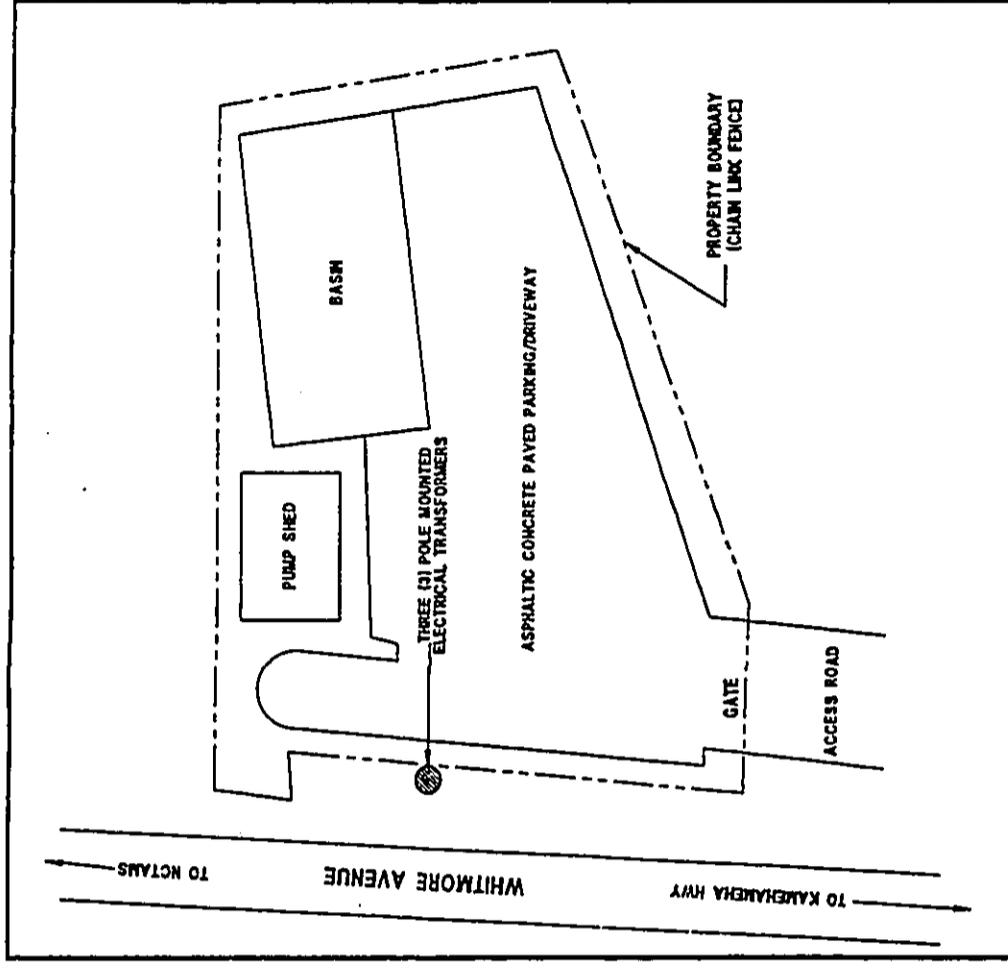
DRAWING NOT TO SCALE

FIGURE 3A - SITE PLAN: WASTEWATER TREATMENT PLANT

PREPARED BY: DELWYN CHING

PROJECT NUMBER: 1858-00F

DATE: FEBRUARY 18, 1998



DRAWING NOT TO SCALE

FIGURE 3B - SITE PLAN: PRELIMINARY TREATMENT FACILITY

PREPARED BY: DELWYN CHING

PROJECT NUMBER: 1858-00F

DATE: FEBRUARY 24, 1998





KuL : Kulekole Silly Clay Loam



FIGURE 4 - SOIL CLASSIFICATION MAP

REFERENCE: U.S.D.A., 1972. "SOIL SURVEY OF ISLANDS OF KAUAI, OAHU, MAUI, MOLOKAI and LANAI, STATE OF HAWAII"

PREPARED BY: DELWYN CHING

PROJECT NUMBER: 1858-00F

DATE: FEBRUARY 6, 1998

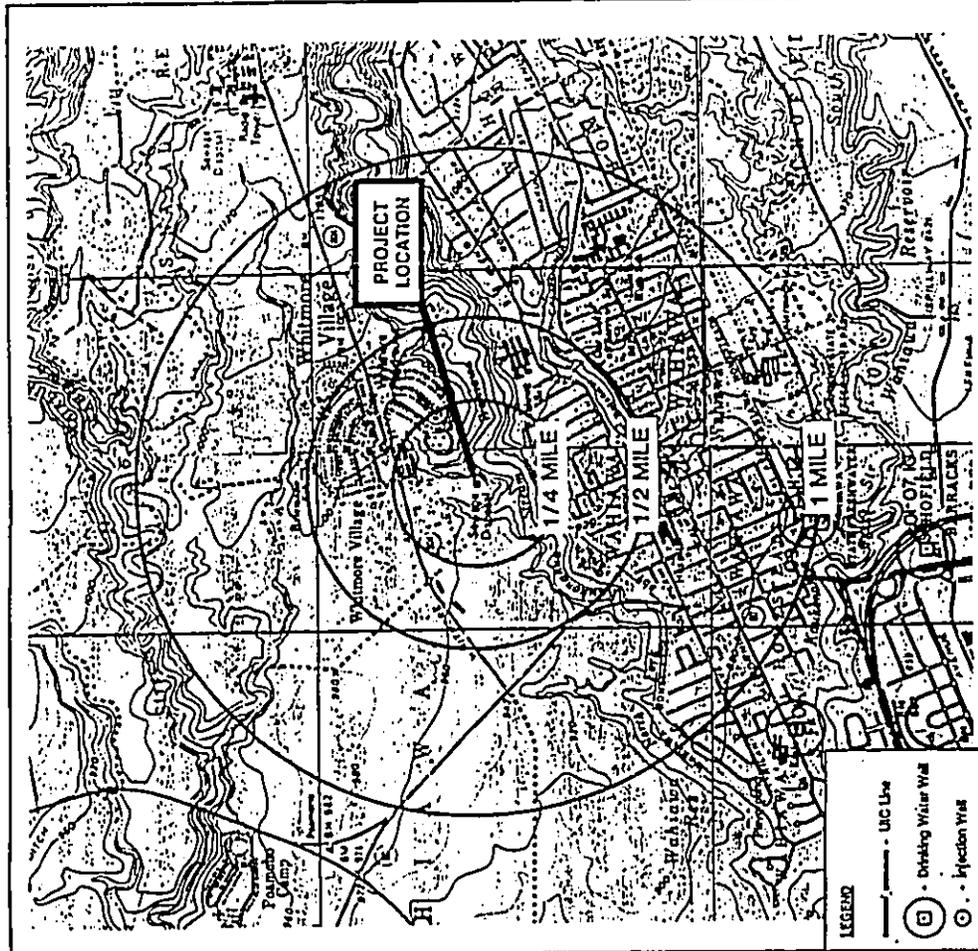


FIGURE 5 - WATER WELL LOCATION MAP

REFERENCE: State of Hawaii, Department of Health, "Underground Injection Control Maps, Haleiwa (0-4), Schofield Barracks (0-5), Hauula (0-8) and Waipahu (0-9) Quadrangles," 1984

PREPARED BY: DELWYN CHING

PROJECT NUMBER: 1858-00F

DATE: FEBRUARY 6, 1998



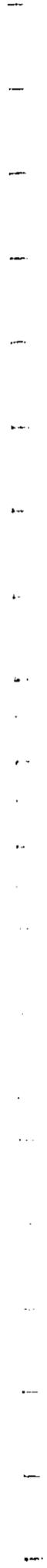


Photo 1: Front View of Main Building, WWTP  
Photo Taken By: C. Brown  
Date: 1/29/98

Appendix B - Site Photographs



Photo 2: View of Paint Peeling in the Office Area, WWTP  
Photo Taken By: C. Brown  
Date: 1/29/98



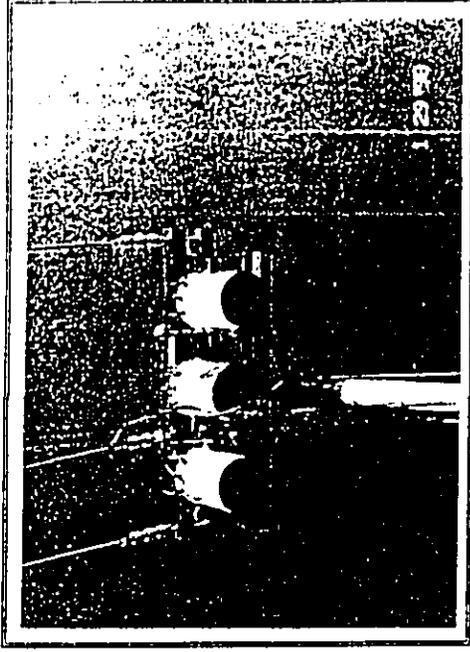


Photo 5: View of the On-Site Pole Mounted Electrical Transformers, WWTP

Photo Taken By: C. Brown  
Date: 1/29/98

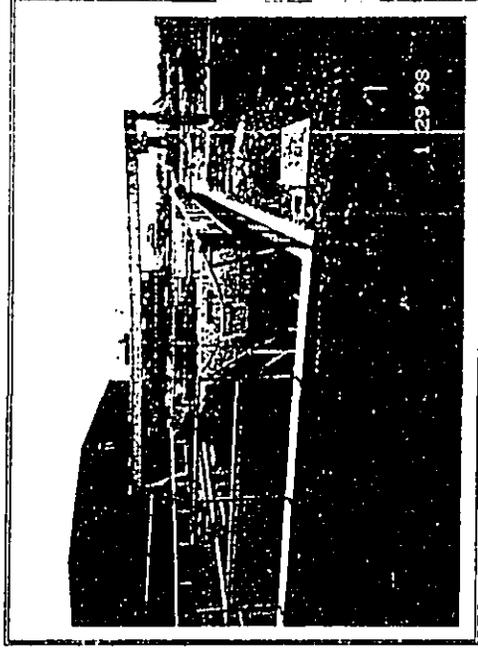


Photo 6: View of the Pump Pit, PTF

Photo Taken By: C. Brown  
Date: 1/29/98

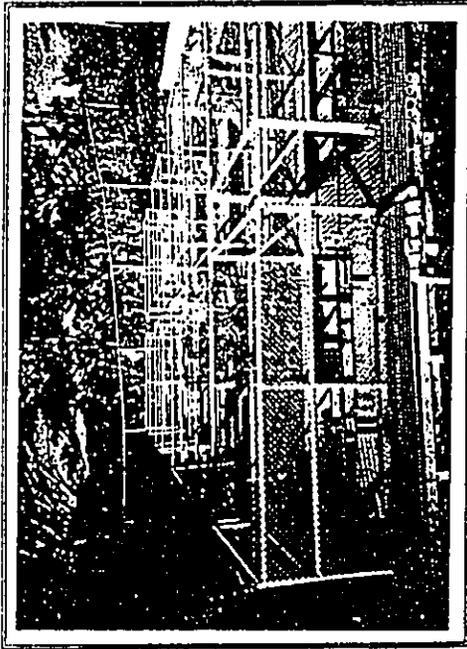


Photo 3: View of the Tertiary Clarifier Tanks, WWTP

Photo Taken By: C. Brown  
Date: 1/29/98

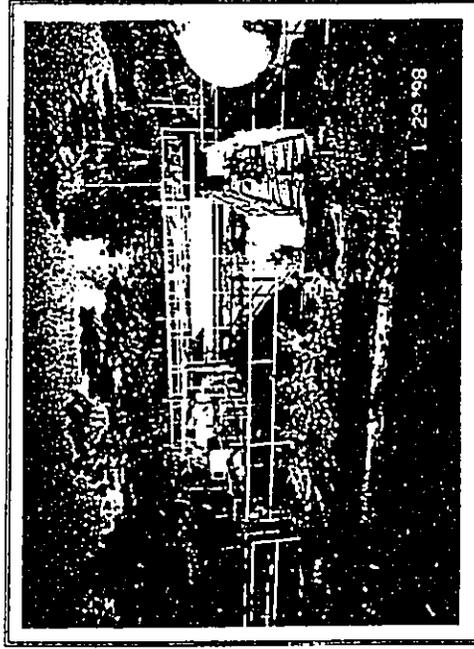


Photo 4: View of the Aeration Tanks, WWTP

Photo Taken By: C. Brown  
Date: 1/29/98



Photo 7: View of the Pump House, PTF  
Photo Taken By: C. Brown  
Date: 1/29/98

Appendix C - Vista Information Solutions Site Assessment Report

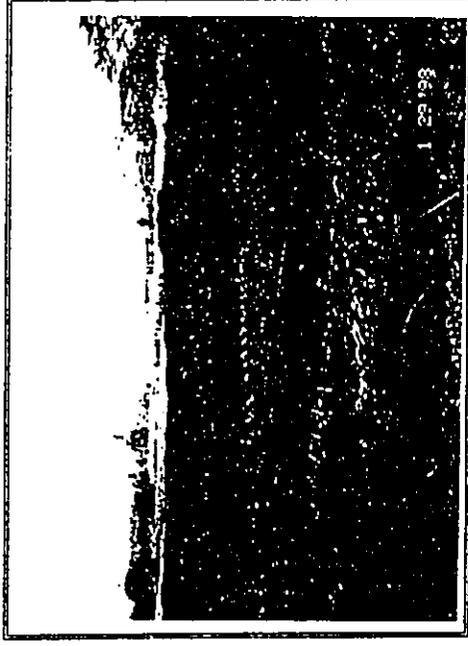
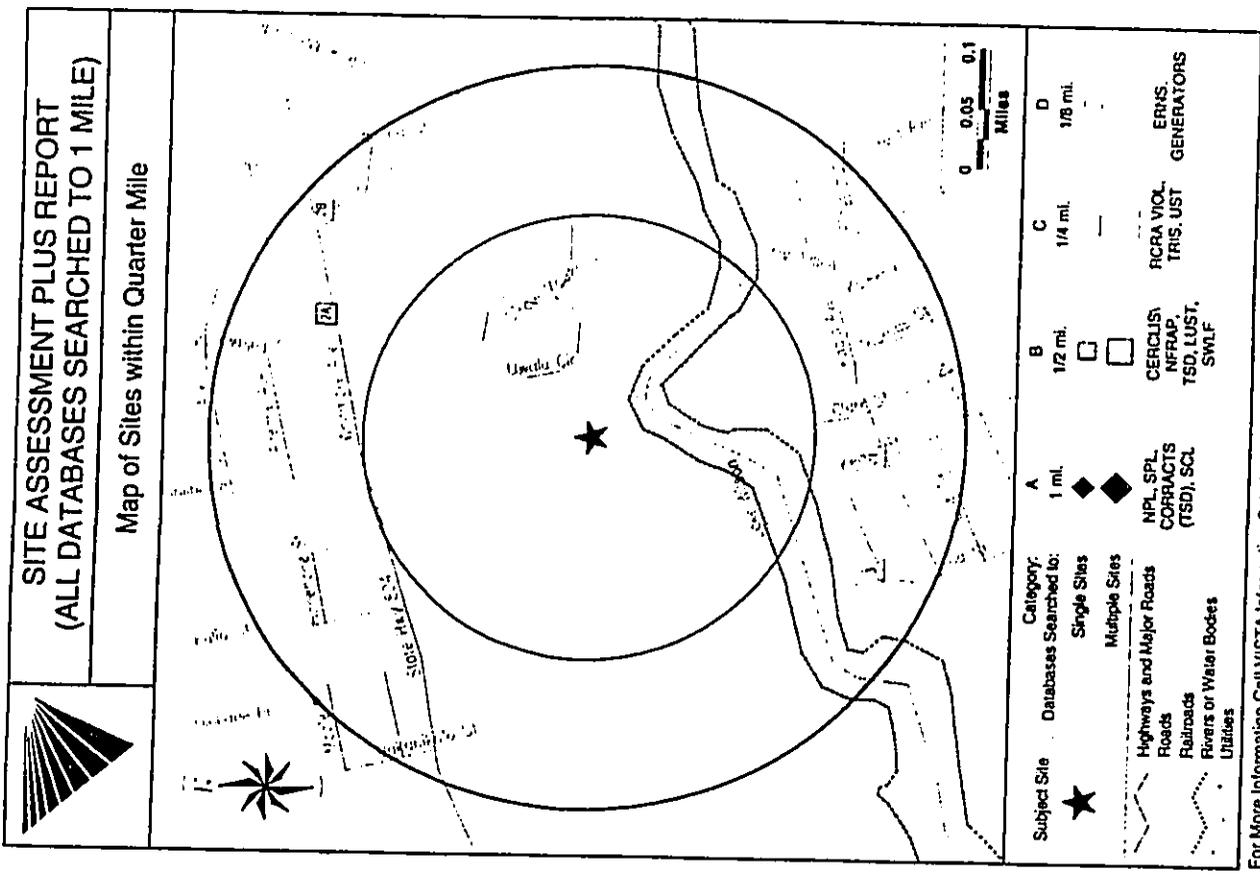
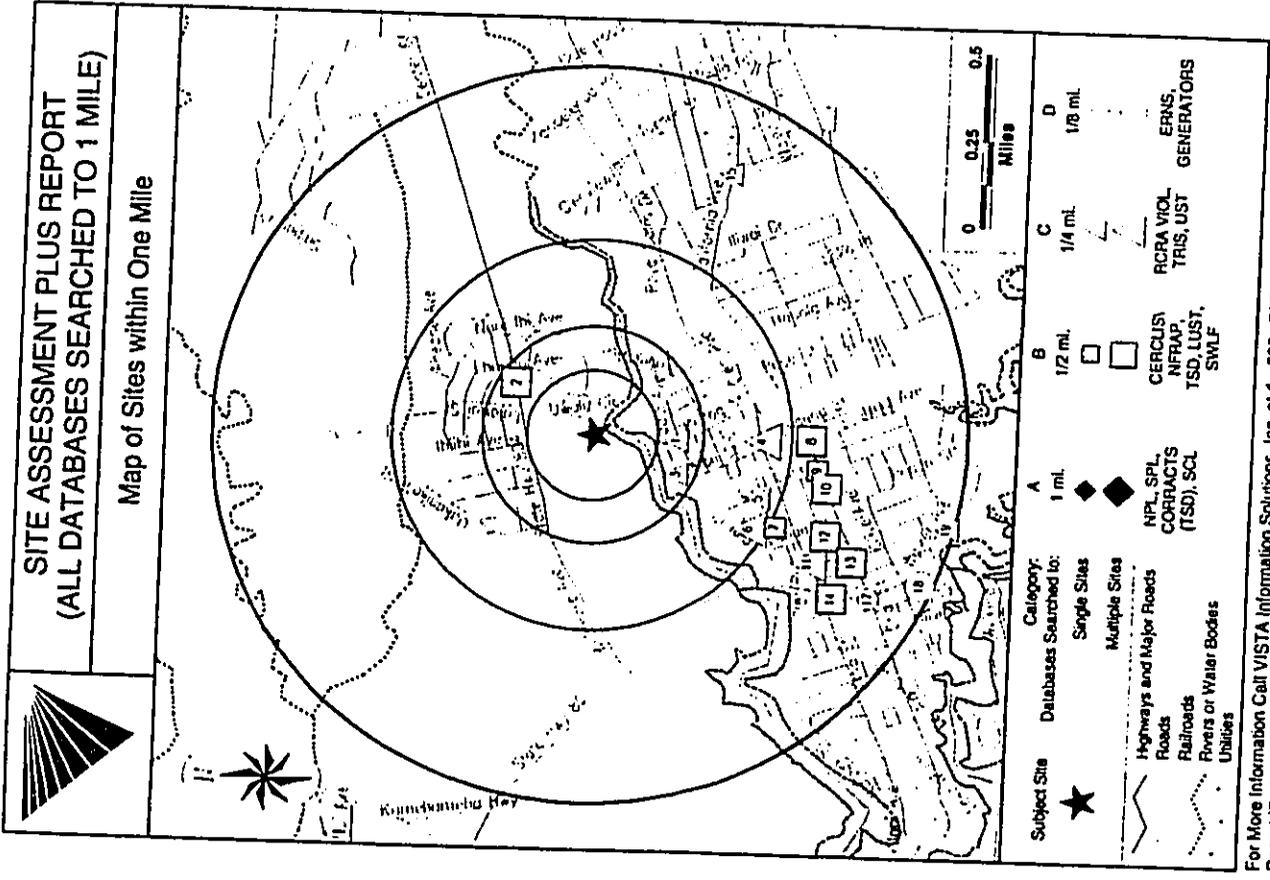
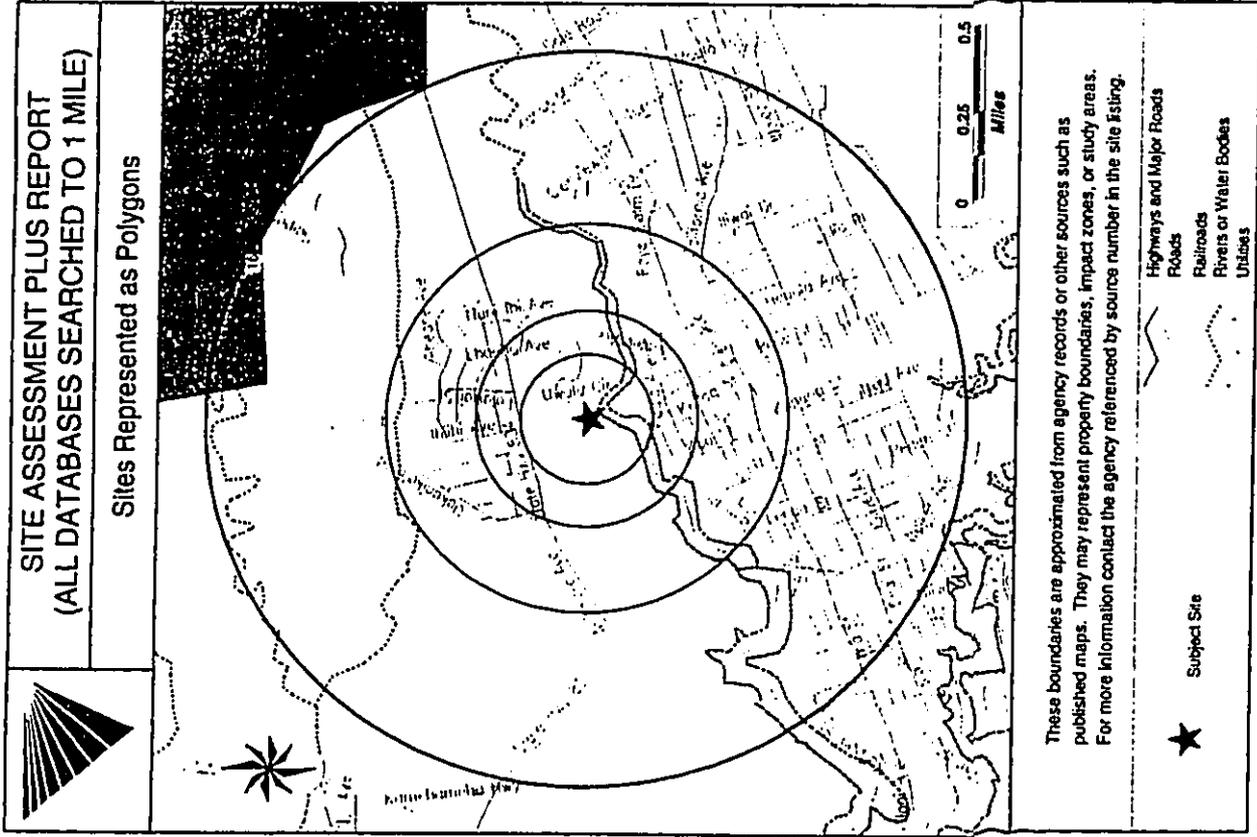


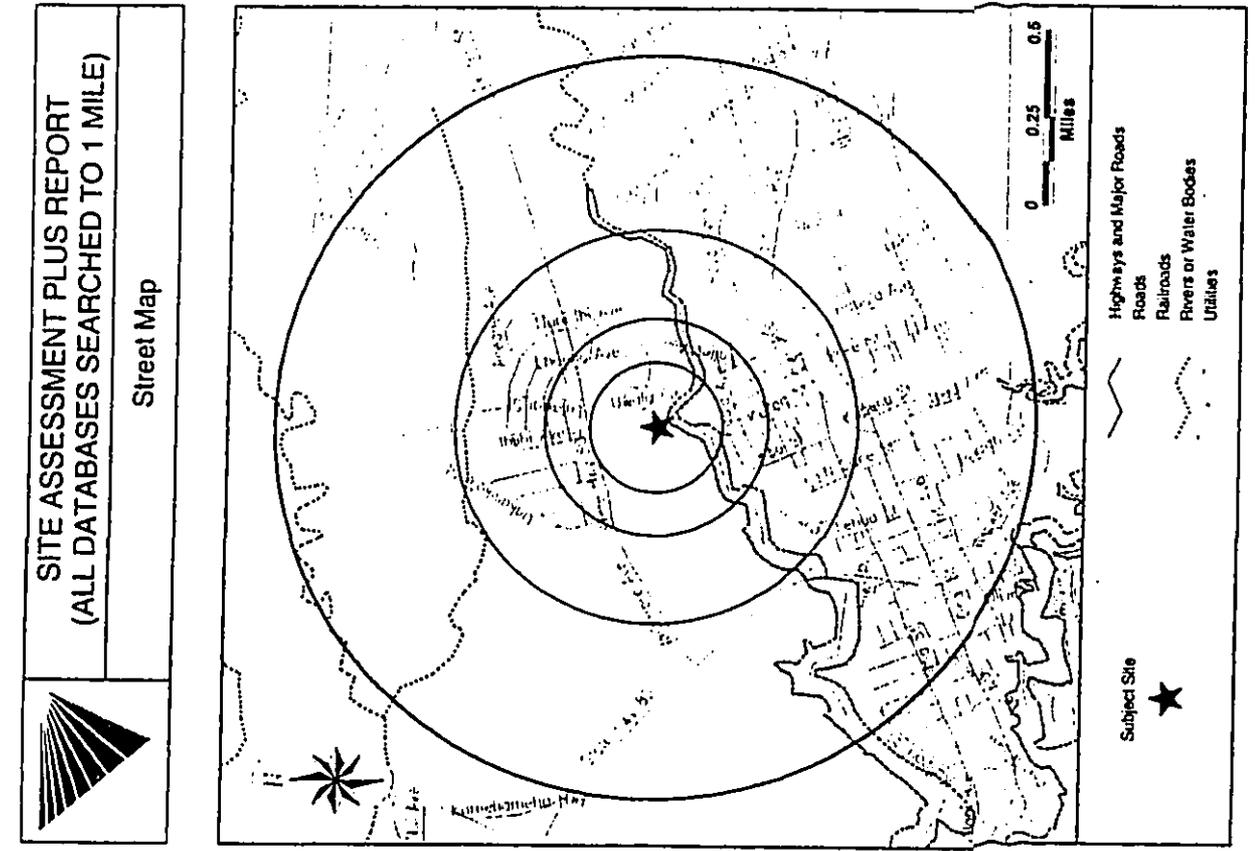
Photo 8: View of the Excavated Area for the Proposed Access Road  
Photo Taken By: C. Brown  
Date: 1/29/98







For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403  
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# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

## SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 1/8 - 1/2 mile)	A	B	C	D	GNRTR
		CORRACTS(TSD)	CERCUS/NTRAP	TSD	LIST	SWFL
						RCRA VIOL
						TRIS
						UST/AST
						ERMS
						GNRTR
No Records Found						

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/2 mile)	A	B	C	D	GNRTR	
		CORRACTS(TSD)	CERCUS/NTRAP	TSD	LIST	SWFL	
						RCRA VIOL	
						TRIS	
						UST/AST	
						ERMS	
						GNRTR	
1	PIONEER HOME SUPPLY WAREHOUSE 725 KELLOG ST WAHIAWA, HI 96786						
2A	DOLE WAHIAWA PLANTATION 1116 WHITMORE AVE WAHIAWA, HI 96786				X		
2B	ALOHA PETROLEUM 11203 WHITMORE BLVD WAHIAWA, HI 96786						
3	WAHIAWA CENTRAL OFFICE 252 KOA ST WAHIAWA, HI 96786						

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/2 mile)	A	B	C	D	GNRTR	
		CORRACTS(TSD)	CERCUS/NTRAP	TSD	LIST	SWFL	
						RCRA VIOL	
						TRIS	
						UST/AST	
						ERMS	
						GNRTR	
4	PIONEER CONTRACTING CO LTD 930 KLANI AVE WAHIAWA, HI 96786						X
4	ALOHA WAHIAWA 935 KLANI AVE WAHIAWA, HI 96786						X



X = search criteria; \* = tag-along (beyond search criteria).  
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MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/2 mile)	A	B	C	D	GNRTR	
		CORRACTS(TSD)	CERCUS/NTRAP	TSD	LIST	SWFL	
						RCRA VIOL	
						TRIS	
						UST/AST	
						ERMS	
						GNRTR	
4	COMMERCIAL BUILDING 935 KLANI ST WAHIAWA, HI 96786						X
5	WAHIAWA POLICE STATION 330 N CANE ST WAHIAWA, HI 96786						X
6	KIARA ELECTRIC, INC. 930 PALM PL WAHIAWA, HI 96786						X
6	T-N-H PLUMBING, INC. 911 PALM PL WAHIAWA, HI 96786						X

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/2 mile)	A	B	C	D	GNRTR	
		CORRACTS(TSD)	CERCUS/NTRAP	TSD	LIST	SWFL	
						RCRA VIOL	
						TRIS	
						UST/AST	
						ERMS	
						GNRTR	
7	HAWAII TOW 322 A PALM ST WAHIAWA, HI 96786						
8	WAHIAWA CHEVRON 1011 CALIFORNIA AVE WAHIAWA, HI 96786				X		
8	HOWARD CONSTRUCTION, INC. 1001 CALIFORNIA AVE WAHIAWA, HI 96786						
9	UNOCAL SS NO 3128 966 CALIFORNIA AVE WAHIAWA, HI 96786				X		
10	WAHIAWA CMC CENTER 910 CALIFORNIA AVE WAHIAWA, HI 96786				X		
10	CENTRAL TRANSPORTATION COMPANY 919 CALIFORNIA AVE WAHIAWA, HI 96786						
11	ACE TRANSMISSION/SHELL SERVICE S 720 KLANI AVE WAHIAWA, HI 96786						
11	PERFECTION DRY CLEANERS, LTD. 650 KLANI AVE WAHIAWA, HI 96786						
11	NAAPA AUTOMOTIVE RETAIL WHOLESALE 651 KLANI AVE WAHIAWA, HI 96786						



X = search criteria; \* = tag-along (beyond search criteria).  
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MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 mile)	VISTA ID		DISTANCE		NPL	CORACTS(TSD)	CORACTS/NTRAP	TSD	LUST	SMUT	RCRA VIOL	TRIS/AST	ENRS	GNRT
		1	2	1	2										
12	WAIHAWA GENERAL HOSPITAL 128 LEHUA STREET WAIHAWA, HI 96786	432209	0.61 MI SW										X		
12	U.S. POSTAL SERVICE - WAIHAWA 115 LEHUA ST WAIHAWA, HI 96786	349242	0.86 MI S						X				X		
12	CHEE HING CATERING 125 WESTVELL ST WAIHAWA, HI 96786	402037	0.88 MI SW										X		
13	RURAL FOOD PROD., INC. 117 MANGO ST WAIHAWA, HI 96786	349783	0.75 MI SW										X		
13	WAIHAWA FIRE STATION 640 CALIFORNIA AVE WAIHAWA, HI 96786	349272	0.78 MI SW										X		
13	7-11 CALIFORNIA AVENUE 655 CALIFORNIA AVE WAIHAWA, HI 96786	349272	0.77 MI SW						X				X		
14	TEXACO STATION 611000389 150 N KAMEHAMEHA HWY WAIHAWA, HI 96786	308840	0.75 MI SW							X			X		X
14	COMMUNITY SERVICE STATION, INC. 119 N KAMEHAMEHA HWY WAIHAWA, HI 96786	416574	0.78 MI SW										X		
14	HORMAN'S FENDER SHOP INC 415 KLANI AVE UNIT A WAIHAWA, HI 96786	316897	0.71 MI SW										X		X
15	NAKULA WASTEWATER PUMP STATION 1562 CALIFORNIA AVE WAIHAWA, HI 96786	349272	0.78 MI SE										X		
16	NAVAL COMPUTER TELECOMMUNICATIONS ARE MASTER STATION, EASTERN PACIFIC WAIHAWA, HI 96786	397153	0.84 MI SW					X							
16	NAVYCAMS EASTPAC - PEARL HARBOR BLDG 1363 TANK 1 WAIHAWA, HI 96786	643144	0.84 MI SW										X		
17	SHELL OIL CO 10 S KAMEHAMEHA HWY WAIHAWA, HI 96786	614903	0.85 MI SW											X	
18	SERVICE MOTOR CO 105 S KAM HWY WAIHAWA, HI 96786	41292	0.87 MI SW											X	
18	CONSUMER TIRE WAREHOUSE 227 OHAI ST WAIHAWA, HI 96786	69004	1.07 MI SW											X	
19	WAIHAWA SODA FACTORY 529 PINE ST WAIHAWA, HI 96786	510911	0.88 MI S											X	

X = search criteria; \* = tag-along (beyond search criteria).  
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VISTA ID	UNMAPPED SITES	NPL	CORACTS(TSD)	CORACTS/NTRAP	TSD	LUST	SMUT	RCRA VIOL	TRIS/AST	ENRS	GNRT
4017443	HORIZON IND., INC. 401 N. CAÑE ST. WAIHAWA, HI 96786								X		
4875334	LEADER FIELD CORNER OF LYMAN RD HAUIULA ST SCHOFIELD BARRACKS, HI 96857					X					
6626486	USAF 15TH AIR BASE WING WHEELER ARMY AIRFIELD SCHOFIELD BARRACKS, HI 96857								X		
6626487	USARMY SCHOFIELD BARRACKS EAST RANGE SCHOFIELD BARRACKS, HI 96857										X
4875630	USAF WAIKALALUA FUEL STORAGE ANNEX OFF RIE 99, KAMEHAMEHA HIGHWAY WHEELER ARMY AIRFIELD, HI 96854		X								
6448400	125TH SIGNAL BATTALION BLDG 210 SCHOFIELD BARRACKS, HI 96857										X
5610151	WHEELER ARMY AIRFIELD BLDG 150 WHEELER ARMY AIRFIELD, HI 96854				X						
4875478	WHEELER AIR FORCE BASE BLDG 282 WHEELER ARMY AIRFIELD, HI 96854				X						
5912356	F M FOOD MART CORP 10 S KAMEHAMEHA HWY WAIHAWA, HI 96786					X					X
6606477	USARMY FIELD STN KUNIA KUNIA RD LAT 21 28 47N SCHOFIELD BARRACKS, HI 96857										X
6413219	7-11 WAIHAWA 202 N KAMEHAMEHA HWY WAIHAWA, HI 96786									X	
274000077	USA - SCHOFIELD BARRACKS BLDG 7232 SCHOFIELD BARRACKS, HI 96857										X
6433273	UNOCAL 74334 58 S KAMEHAMEHA HWY WAIHAWA, HI 96786									X	
6877646	U.S. ARMY SCHOFIELD BARRACKS WHEELER BLDG. 300 SCHOFIELD BARRACKS, HI 96857								X		
6433463	NCO ACADEMY BLDG 6055, EAST RANGE SCHOFIELD BARRACKS, HI 96857								X		
6413464	U.S. ARMY GYMNASIUM SCHOFIELD BARRACKS, BLDG. 582 SCHOFIELD BARRACKS, HI 96857										X

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UNMAPPED SITES	A		B		C		D	
	CORACTS(TSD)	CERCLIS/NRAP	LIST	SMF	RCRA VIOL	TRIS	UST/AST	ENRS
WAIHAWA ARMORY (SUBMATES) 77-230 KAMEHAMEHA HWY WAIHAWA, HI 96786			X				X	
USA - SCHOFIELD BARRACKS USA - LYMAN RD SCHOFIELD BARRACKS, HI 96857								X
ALBERT'S DRY CLEANERS 95 S KAMEHAMEHA HWY WAIHAWA, HI 96786							X	
SHOPPETTE/GASOLINE - AAFFS BLDG 1167 1168 / SCHOFIELD BARRACKS SCHOFIELD BARRACKS, HI 96857							X	
HELEMANO MILITARY RESERVATION (IDENTIFIED LOCATION) SCHOFIELD BARRACKS, HI 96857							X	
DOX BULK FUEL YARD BLDG 280 TANK 280-2 WHEELER ARMY AIRFIELD, HI 96854			X					
HELEMANO MILITARY RESERVATION TANK 301-1 SCHOFIELD BARRACKS, HI 96857							X	
HELEMANO MILITARY RESERVATION VEHICLE MAINTENANCE SHELTER SCHOFIELD BARRACKS, HI 96857							X	
HELEMANO MILITARY RESERVATION BLDG 300 DINING FACILITY SCHOFIELD BARRACKS, HI 96857							X	
HELEMANO MILITARY RESERVATION POL STORAGE BLDG SCHOFIELD BARRACKS, HI 96857							X	
SCHOFIELD BARRACKS BLDG 810 SCHOFIELD BARRACKS, HI 96857								
WHEELER AIR FORCE BASE BLDG 215 WHEELER ARMY AIRFIELD, HI 96854								
WHEELER ARMY AIRFIELD BLDG 256-1 WHEELER ARMY AIRFIELD, HI 96854								
WHEELER ARMY AIRFIELD BLDG 256-1 WHEELER ARMY AIRFIELD, HI 96854								
SERVICE MOTOR CO. 105 S KAMEHAMEHA HWY WAIHAWA, HI 96786								X
SCHOFIELD BARRACKS BLDG 2402 SCHOFIELD BARRACKS, HI 96857			X					

X = search criteria; \* = tag-along (beyond search criteria).  
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UNMAPPED SITES	A		B		C		D	
	CORACTS(TSD)	CERCLIS/NRAP	LIST	SMF	RCRA VIOL	TRIS	UST/AST	ENRS
SCHOFIELD BARRACKS BLDG 2445 SCHOFIELD BARRACKS, HI 96857			X					
HOMELANI WASTE/WATER PUMP STATION CALIFORNIA AVE WAIHAWA, HI 96786							X	
HOUSING FINANCE AND DEVELOPMENT CALIFORNIA AVE WAIHAWA, HI 96786							X	
WAIHAWA CENTER II CALIFORNIA ST WAIHAWA, HI 96786							X	
OPANA SOUTH OF KAWELA OAHU ISLAND WAIHAWA, HI 96786		X						
NRIF LAULUAFEI LUULUAFEI VALLEY OAHU ISLAND WAIHAWA, HI 96786		X						
WEST HAWAII LANDFILL HONOLULU, HI 664277								
NANAKULI LANDFILL HONOLULU, HI 6661796				X				
WAIMANALO GULCH HONOLULU, HI 6637232				X				
KAPAA HI 6637221				X				
KALUAKOHI LANDFILL HONOLULU, HI 6632876				X				
KANEHOE MCBH LANDFILL HONOLULU, HI 6632877				X				
KAPAA LANDFILL HONOLULU, HI 6632879				X				
BARBERS POINT HONOLULU, HI 6632706				X				
WAIMANALO GULCH HONOLULU, HI 6632863				X				

X = search criteria; \* = tag-along (beyond search criteria).  
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**SITE ASSESSMENT PLUS REPORT  
(ALL DATABASES SEARCHED TO 1 MILE)**

**DETAILS**

**PROPERTY AND THE ADJACENT AREA (Within 1/8 mile)**  
No Records found

**SITES IN THE SURROUNDING AREA (Within 1/8 - 1/4 mile)**  
VISTA ID: 5148150  
Address: 235 KELLOGG STREET  
WAHIWA, HI 96786  
Distance/Direction: 0.17 MI / S-E  
Map ID: 2A  
Agency ID: 9-202758

Agency Address: STATE UST - State Underground Storage Tank / SRC# 3989		Agency ID: 9-202758	
Underground Tanks: 5			
Aboveground Tanks: NOT REPORTED			
Tanks Removed: NOT REPORTED			
Tank ID: R-40	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 38	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 550 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-41	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 38	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 1000 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-42	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: GASOLINE (UNREPORTED)	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 38	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 1000 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-43	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 42	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 550 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-44	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 42	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 450 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE

\* VISTA address includes enhanced city and ZIP.  
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**SITES IN THE SURROUNDING AREA (Within 1/8 - 1/4 mile) CONT.**

**DOLE WAHIAWA PLANTATION**  
Address: 1116 WHITMORE AVE  
WAHIAWA, HI 96786  
Distance/Direction: 0.18 MI / NE  
Map ID: 2A  
Agency ID: 9-100758

Agency Address: STATE UST - State Leaking Underground Storage Tank / SRC# 3990		Agency ID: 9-100758	
Underground Tanks: 6			
Aboveground Tanks: NOT REPORTED			
Tanks Removed: NOT REPORTED			
Tank ID: R-1W1	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: GASOLINE (UNREPORTED)	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 31	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 12500 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-1W2	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: GASOLINE (UNREPORTED)	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 31	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 12500 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-1W3	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 31	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 12000 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-1W4	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 49	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 12000 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-1W5	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 31	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 2000 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE
Tank ID: R-1W6	Tank Status: OUT OF SERVICE	Tank Status:	OUT OF SERVICE
Tank Contents: USED OIL	Leak Monitoring: NOT AVAILABLE	Leak Monitoring:	NOT AVAILABLE
Tank Age: 31	Tank Piping: NOT AVAILABLE	Tank Piping:	NOT AVAILABLE
Tank Size (Units): 2000 (GALLONS)	Tank Material: NOT AVAILABLE	Tank Material:	NOT AVAILABLE

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SITES IN THE SURROUNDING AREA (Within 1/8 - 1/4 mile) CONT.

VISTA Address: 1203 WHITMORE BLVD WAIHIAWA, HI 96786	VISTA ID: 563557	Distance/Direction: 0.23 MI / NE	Point: 1
Agency Address: STATE UST - State Underground Storage Tank / SRC# 3889	Agency ID: 9-202219	Map ID: 2B	
Underground Tanks: 2	NOT REPORTED		
Aboveground Tanks: 1	NOT REPORTED		
Tanks Removed: 0	NOT REPORTED		
Tank ID: 81U	Tank Status: OUT OF SERVICE		
Tank Contents: GASOLINE (INSPECTED)	Leak Monitoring: NOT AVAILABLE		
Tank Age: NOT REPORTED	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 4000 (GALLONS)	Tank Material: NOT AVAILABLE		
Tank ID: 82U	Tank Status: OUT OF SERVICE		
Tank Contents: GASOLINE (INSPECTED)	Leak Monitoring: NOT AVAILABLE		
Tank Age: NOT REPORTED	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 4000 (GALLONS)	Tank Material: NOT AVAILABLE		

SITES IN THE SURROUNDING AREA (Within 1/8 - 1/4 mile) CONT.

VISTA Address: 252 KOA ST WAIHIAWA, HI 96786	VISTA ID: 313808	Distance/Direction: 0.20 MI / SW	Point: 1
Agency Address: STATE UST - State Underground Storage Tank / SRC# 3889	Agency ID: 9-200532	Map ID: 23	
Underground Tanks: 0	NOT REPORTED		
Aboveground Tanks: 0	NOT REPORTED		
Tanks Removed: 0	NOT REPORTED		
Tank ID: 8141U	Tank Status: OUT OF SERVICE		
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE		
Tank Age: 29	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 1000 (GALLONS)	Tank Material: NOT AVAILABLE		
Tank ID: 8142U	Tank Status: OUT OF SERVICE		
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE		
Tank Age: 29	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 1000 (GALLONS)	Tank Material: NOT AVAILABLE		
Tank ID: 8143U	Tank Status: OUT OF SERVICE		
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE		
Tank Age: 34	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 500 (GALLONS)	Tank Material: NOT AVAILABLE		
Tank ID: 8144U	Tank Status: OUT OF SERVICE		
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE		
Tank Age: 34	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 500 (GALLONS)	Tank Material: NOT AVAILABLE		

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SITES IN THE SURROUNDING AREA (Within 1/8 - 1/4 mile) CONT.

Tank ID: 8145U	Tank Status: OUT OF SERVICE		
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE		
Tank Age: 28	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 1000 (GALLONS)	Tank Material: NOT AVAILABLE		
Tank ID: 8146U	Tank Status: ACTIVE IN SERVICE		
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE		
Tank Age: 6	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 4000 (GALLONS)	Tank Material: NOT AVAILABLE		
Tank ID: 8147U	Tank Status: ACTIVE IN SERVICE		
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE		
Tank Age: 6	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 4000 (GALLONS)	Tank Material: NOT AVAILABLE		
Tank ID: 8148U	Tank Status: ACTIVE IN SERVICE		
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE		
Tank Age: 6	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 4000 (GALLONS)	Tank Material: NOT AVAILABLE		

SITES IN THE SURROUNDING AREA (Within 1/4 - 1/2 mile)

VISTA Address: PIONEER CONTRACTING CO LTD 930 KILANI AVENUE WAIHIAWA, HI 96786	VISTA ID: 313008	Distance/Direction: 0.41 MI / S	Point: 1
Agency Address: RCRA-SmGen - RCRA-Small Generator / SRC# 3146	Agency ID: H0000440222	Map ID: 24	
Underground Tanks: 0	NOT REPORTED		
Aboveground Tanks: 6	NOT REPORTED		
Tanks Removed: 0	NOT REPORTED		
Tank ID: 81U	Tank Status: OUT OF SERVICE		
Tank Contents: GASOLINE (INSPECTED)	Leak Monitoring: NOT AVAILABLE		
Tank Age: 18	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 800 (GALLONS)	Tank Material: NOT AVAILABLE		
Tank ID: 817U	Tank Status: OUT OF SERVICE		
Tank Contents: GASOLINE (INSPECTED)	Leak Monitoring: NOT AVAILABLE		
Tank Age: 18	Tank Piping: NOT AVAILABLE		
Tank Size (Units): 800 (GALLONS)	Tank Material: NOT AVAILABLE		

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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

Tank ID:	R-3U	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (INSPECTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	18	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	800 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	R-4U	Tank Status:	OUT OF SERVICE
Tank Contents:	DIESEL	Leak Monitoring:	NOT AVAILABLE
Tank Age:	18	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	500 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	R-3U	Tank Status:	OUT OF SERVICE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	18	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	200 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	R-4U	Tank Status:	OUT OF SERVICE
Tank Contents:	USED OIL	Leak Monitoring:	NOT AVAILABLE
Tank Age:	10	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	550 (GALLONS)	Tank Material:	NOT AVAILABLE

VISTA ID: 3148783  
 Address: 935 KILANI ST, WAHIAWA, HI 96786  
 Distance/Direction: 0.12 MI / S  
 Posted as: PUMP  
 Agency ID: 9-201202

STATE UST - State Underground Storage Tank / SRC# 3989

Agency Address: SAME AS ABOVE

Underground Tanks: 3 NOT REPORTED

Aboveground Tanks: NOT REPORTED

Tanks Removed: NOT REPORTED

Tank ID:	1U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	GASOLINE (INSPECTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	14	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	600 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	2U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	GASOLINE (INSPECTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	14	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	600 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	3U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	GASOLINE (INSPECTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	14	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	600 (GALLONS)	Tank Material:	NOT AVAILABLE

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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA ID: 313959  
 Address: 935 KILANI ST, WAHIAWA, HI 96786  
 Distance/Direction: 0.12 MI / S  
 Posted as: PUMP  
 Agency ID: 9-201217

STATE UST - State Underground Storage Tank / SRC# 3989

Agency Address: SAME AS ABOVE

Underground Tanks: 1 NOT REPORTED

Aboveground Tanks: NOT REPORTED

Tanks Removed: NOT REPORTED

Tank ID:	R-1U	Tank Status:	OUT OF SERVICE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE

VISTA ID: 3138187  
 Address: 330 N CANE ST, WAHIAWA, HI 96786  
 Distance/Direction: 0.14 MI / S  
 Posted as: PUMP  
 Agency ID: 9-200111

STATE UST - State Underground Storage Tank / SRC# 3989

Agency Address: SAME AS ABOVE

Underground Tanks: 4 NOT REPORTED

Aboveground Tanks: NOT REPORTED

Tanks Removed: NOT REPORTED

Tank ID:	R-4U	Tank Status:	OUT OF SERVICE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	14	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	100 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	601U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	GASOLINE (INSPECTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	13	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	200 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	602U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	GASOLINE (INSPECTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	17	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	200 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	603U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	GASOLINE (INSPECTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	13	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLONS)	Tank Material:	NOT AVAILABLE

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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA ID: 3410054	VISTA ID: 3410054
Address: 930 PALM PI	Distance/Direction: 0.45 MI / SW
WAIHAWA, HI 96786	Posted as: POT
Agency ID: 9-200735	Agency ID: 9-200735
STATE LIST - State Underground Storage Tank / SRC# 3989	
Agency Address: SAME AS ABOVE	
Underground Tanks: 1	Tank Status: OUT OF SERVICE
Aboveground Tanks: NOT REPORTED	Leak Monitoring: NOT AVAILABLE
Tanks Removed: NOT REPORTED	Tank Piping: NOT AVAILABLE
Tank ID: # 001U	Tank Material: NOT AVAILABLE
Tank Contents: GASOLINE (INSPECTED)	
Tank Age: 25	
Tank Size (Units): 1000 (GALLONS)	

VISTA ID: 3112372	VISTA ID: 3112372
Address: 911 PALM PI	Distance/Direction: 0.48 MI / SW
WAIHAWA, HI 96786	Posted as: POT
Agency ID: 9-200940	Agency ID: 9-200940
STATE LIST - State Underground Storage Tank / SRC# 3989	
Agency Address: SAME AS ABOVE	
Underground Tanks: 2	Tank Status: OUT OF SERVICE
Aboveground Tanks: NOT REPORTED	Leak Monitoring: NOT AVAILABLE
Tanks Removed: NOT REPORTED	Tank Piping: NOT AVAILABLE
Tank ID: # 001U	Tank Material: NOT AVAILABLE
Tank Contents: GASOLINE (INSPECTED)	
Tank Age: NOT REPORTED	
Tank Size (Units): 550 (GALLONS)	
Tank ID: # 002U	Tank Status: OUT OF SERVICE
Tank Contents: GASOLINE (INSPECTED)	Leak Monitoring: NOT AVAILABLE
Tank Age: 21	Tank Piping: NOT AVAILABLE
Tank Size (Units): 2000 (GALLONS)	Tank Material: NOT AVAILABLE

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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)

VISTA ID: 3430291	VISTA ID: 3430291
Address: 322 A PALM ST	Distance/Direction: 0.52 MI / SW
WAIHAWA, HI 96786	Posted as: POT
Agency ID: 9-200754	Agency ID: 9-200754
STATE LIST - State Leaking Underground Storage Tank / SRC# 3990	
Agency Address: SAME AS ABOVE	
Tank Status: NOT AVAILABLE	
Discovery Date: APRIL 20 1992	
Media Affected: NOT AVAILABLE	
Substance: NOT AVAILABLE	
Leak Cause: UNAVAILABLE	
Leak Source: NOT AVAILABLE	
Remedial Action: NOT AVAILABLE	
Remedial Status 1: CONFIRMED RELEASE	
Remedial Status 2: NOT AVAILABLE	
Fields Not Reported: Query (thru)	

VISTA ID: 3430291	VISTA ID: 3430291
Address: 322 A PALM ST	Distance/Direction: 0.52 MI / SW
WAIHAWA, HI 96786	Posted as: POT
Agency ID: 9-200754	Agency ID: 9-200754
STATE LIST - State Underground Storage Tank / SRC# 3989	
Agency Address: SAME AS ABOVE	
Underground Tanks: 2	Tank Status: OUT OF SERVICE
Aboveground Tanks: NOT REPORTED	Leak Monitoring: NOT AVAILABLE
Tanks Removed: NOT REPORTED	Tank Piping: NOT AVAILABLE
Tank ID: R-1U	Tank Material: NOT AVAILABLE
Tank Contents: GASOLINE (INSPECTED)	
Tank Age: 14	
Tank Size (Units): 2000 (GALLONS)	
Tank ID: R-2U	Tank Status: OUT OF SERVICE
Tank Contents: GASOLINE (INSPECTED)	Leak Monitoring: NOT AVAILABLE
Tank Age: 14	Tank Piping: NOT AVAILABLE
Tank Size (Units): 2000 (GALLONS)	Tank Material: NOT AVAILABLE

VISTA ID: 3430291	VISTA ID: 3430291
Address: 1011 CALIFORNIA AVE	Distance/Direction: 0.55 MI / SW
WAIHAWA, HI 96786	Posted as: POT
Agency ID: 9-201228	Agency ID: 9-201228
STATE LIST - State Leaking Underground Storage Tank / SRC# 3990	
Agency Address: SAME AS ABOVE	
Tank Status: NOT AVAILABLE	
Discovery Date: FEBRUARY 10 1997	
Media Affected: NOT AVAILABLE	
Substance: NOT AVAILABLE	
Leak Cause: UNAVAILABLE	
Leak Source: NOT AVAILABLE	
Remedial Action: NOT AVAILABLE	
Remedial Status 1: CONFIRMED RELEASE	
Remedial Status 2: NOT AVAILABLE	
Fields Not Reported: Query (thru)	

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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.

STATE UST - State Underground Storage Tank / SRC# 3889	Agency ID: 9-201228
Agency Address: SAME AS ABOVE	
Underground Tanks: 7	
Aboveground Tanks: NOT REPORTED	
Tanks Removed: NOT REPORTED	
Tank ID: HAU	Tank Status: ACTIVE/SERVICE
Tank Contents: OTHER	Leak Monitoring: NOT AVAILABLE
Tank Age: 29	Tank Piping: NOT AVAILABLE
Tank Size (Units): 30 (GALLON)	Tank Material: NOT AVAILABLE
Tank ID: HBU	Tank Status: ACTIVE/SERVICE
Tank Contents: OTHER	Leak Monitoring: NOT AVAILABLE
Tank Age: 29	Tank Piping: NOT AVAILABLE
Tank Size (Units): 30 (GALLON)	Tank Material: NOT AVAILABLE
Tank ID: HCU	Tank Status: ACTIVE/SERVICE
Tank Contents: GASOLINE (UNREPORTED)	Leak Monitoring: NOT AVAILABLE
Tank Age: 14	Tank Piping: NOT AVAILABLE
Tank Size (Units): 1000 (GALLON)	Tank Material: NOT AVAILABLE
Tank ID: 2U	Tank Status: ACTIVE/SERVICE
Tank Contents: GASOLINE (UNREPORTED)	Leak Monitoring: NOT AVAILABLE
Tank Age: 14	Tank Piping: NOT AVAILABLE
Tank Size (Units): 1000 (GALLON)	Tank Material: NOT AVAILABLE
Tank ID: 3U	Tank Status: ACTIVE/SERVICE
Tank Contents: GASOLINE (UNREPORTED)	Leak Monitoring: NOT AVAILABLE
Tank Age: 14	Tank Piping: NOT AVAILABLE
Tank Size (Units): 1000 (GALLON)	Tank Material: NOT AVAILABLE
Tank ID: 4U	Tank Status: ACTIVE/SERVICE
Tank Contents: USED OIL	Leak Monitoring: NOT AVAILABLE
Tank Age: 14	Tank Piping: NOT AVAILABLE
Tank Size (Units): 100 (GALLON)	Tank Material: NOT AVAILABLE

VISTA	Distance/Direction: 0.58 MI / S
Address: 1001 CALIFORNIA AVE	Potted at: 1001 CALIFORNIA AVE
City: WAHIAWA, HI 96788	County: WAHIAWA
STATE UST - State Underground Storage Tank / SRC# 3889	Agency ID: 9-200249
Agency Address: SAME AS ABOVE	
Underground Tanks: 3	
Aboveground Tanks: NOT REPORTED	
Tanks Removed: NOT REPORTED	

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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.

Tank ID: R-D-1813	Tank Status: OUT OF SERVICE
Tank Contents: DIESEL	Leak Monitoring: NOT AVAILABLE
Tank Age: 19	Tank Piping: NOT AVAILABLE
Tank Size (Units): 2000 (GALLON)	Tank Material: NOT AVAILABLE
Tank ID: R-E-9775	Tank Status: OUT OF SERVICE
Tank Contents: GASOLINE (UNREPORTED)	Leak Monitoring: NOT AVAILABLE
Tank Age: 18	Tank Piping: NOT AVAILABLE
Tank Size (Units): 4000 (GALLON)	Tank Material: NOT AVAILABLE
Tank ID: R-E-9776	Tank Status: OUT OF SERVICE
Tank Contents: GASOLINE (UNREPORTED)	Leak Monitoring: NOT AVAILABLE
Tank Age: 19	Tank Piping: NOT AVAILABLE
Tank Size (Units): 4000 (GALLON)	Tank Material: NOT AVAILABLE

VISTA	Distance/Direction: 0.54 MI / S
Address: 956 CALIFORNIA AVE	Potted at: 956 CALIFORNIA AVE
City: WAHIAWA, HI 96788	County: WAHIAWA
STATE UST - State Underground Storage Tank / SRC# 3916	Agency ID: 9-200030
Agency Address: SAME AS ABOVE	
Generator Class: General 100 kg/month but less than 1000 kg/month of non-acidic hazardous waste	
Underground Tanks: 1	
Aboveground Tanks: 1	
Tanks Removed: 0	

UNOCAL #1728	Distance/Direction: 0.58 MI / S
Address: 886 CALIFORNIA AVE	Potted at: 886 CALIFORNIA AVE
City: WAHIAWA, HI 96788	County: WAHIAWA
STATE UST - State Leaking Underground Storage Tank / SRC# 3990	Agency ID: 9-200030
Agency Address: UNOCAL #1728	
Tank Status: NOT AVAILABLE	
Discovery Date: MARCH 10, 1997	
Media Affected: NOT AVAILABLE	
Substance: NOT AVAILABLE	
Leak Cause: NOT AVAILABLE	
Leak Source: NOT AVAILABLE	
Remedial Action: COMPLETED RELEASE	
Remedial Status 1: NOT AVAILABLE	
Remedial Status 2: NOT AVAILABLE	
Fields Not Reported: Quantity (Units)	

STATE UST - State Underground Storage Tank / SRC# 3989	Agency ID: 9-200030
Agency Address: UNOCAL #1728	
Underground Tanks: 1	
Aboveground Tanks: 1	
Tanks Removed: NOT REPORTED	
Tank ID: H1728-E	Tank Status: ACTIVE/SERVICE
Tank Contents: OTHER	Leak Monitoring: NOT AVAILABLE
Tank Age: 21	Tank Piping: NOT AVAILABLE
Tank Size (Units): 40 (GALLON)	Tank Material: NOT AVAILABLE

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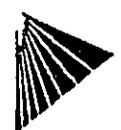
Tank ID:	10	Tank Status:	ACTIVE/SERVICE
Tank Contents:	UNKNOWN	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE

VISTA Address:	ACE TRANSMISSION/SHELL SERVICES 720 KILANI AVE WAHIAWA, HI 96786	VISTA ID:	3139058
Distance/Direction:	0.63 MI / SW	Plotted as:	POINT
Agency ID:	9-201023		

Agency Address:	SAME AS ABOVE		
Underground Tanks:	7		
Aboveground Tanks:	NOT REPORTED		
Tanks Removed:	NOT REPORTED		

Tank ID:	R-10	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-20	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-30	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-40	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-50	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-60	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-70	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-80	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-90	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	400 (GALLOW)	Tank Material:	NOT AVAILABLE

Tank ID:	010	Tank Status:	ACTIVE/SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	11	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1000 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	020	Tank Status:	ACTIVE/SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	11	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1000 (GALLOW)	Tank Material:	NOT AVAILABLE



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VISTA Address:	PERFECTION DRY CLEANERS, LTD. 650 KILANI AVE WAHIAWA, HI 96786	VISTA ID:	3139053
Distance/Direction:	0.66 MI / SW	Plotted as:	POINT
Agency ID:	9-200836		

Agency Address:	SAME AS ABOVE		
Underground Tanks:	1		
Aboveground Tanks:	NOT REPORTED		
Tanks Removed:	NOT REPORTED		

Tank ID:	010	Tank Status:	ACTIVE/SERVICE
Tank Contents:	Other	Leak Monitoring:	NOT AVAILABLE
Tank Age:	59	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	50 (GALLOW)	Tank Material:	NOT AVAILABLE

VISTA Address:	NAPA AUTO MOBILE RETAIL WHOLESALE 651 KILANI AVE WAHIAWA, HI 96786	VISTA ID:	3139055
Distance/Direction:	0.66 MI / SW	Plotted as:	POINT
Agency ID:	9-200837		

Agency Address:	SAME AS ABOVE		
Underground Tanks:	2		
Aboveground Tanks:	NOT REPORTED		
Tanks Removed:	NOT REPORTED		

Tank ID:	R-010	Tank Status:	OUT OF SERVICE
Tank Contents:	GASOLINE (UNREPORTED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	36	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1000 (GALLOW)	Tank Material:	NOT AVAILABLE
Tank ID:	R-020	Tank Status:	OUT OF SERVICE
Tank Contents:	UNKNOWN	Leak Monitoring:	NOT AVAILABLE
Tank Age:	36	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1000 (GALLOW)	Tank Material:	NOT AVAILABLE



VISTA Address:	WAHIAWA GENERAL HOSPITAL 129 LEHUA STREET WAHIAWA, HI 96786	VISTA ID:	533309
Distance/Direction:	0.64 MI / SW	Plotted as:	POINT
Agency ID:	9-203206		

Agency Address:	SAME AS ABOVE		
Underground Tanks:	1		
Aboveground Tanks:	NOT REPORTED		
Tanks Removed:	NOT REPORTED		

Tank ID:	10	Tank Status:	ACTIVE/SERVICE
Tank Contents:	petrol	Leak Monitoring:	NOT AVAILABLE
Tank Age:	20	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1000 (GALLOW)	Tank Material:	NOT AVAILABLE



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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.

Map ID: 112

VISTA Address: U.S. POSTAL SERVICE - WAHIAWA  
115 LEHUA ST  
WAHIAWA, HI 96788

VISTA ID: 2438528  
Distance/Direction: 0.66 MI / S  
Plotted as: POINT

STATE UST - State Leaking Underground Storage Tank / SRC# 3980 Agency ID: 9-201776

Agency Address: SAME AS ABOVE

Tank Status: NOT AVAILABLE

Discovery Date: APRIL 18, 1998

Media Affected: NOT AVAILABLE

Substance: NOT AVAILABLE

Leak Cause: UNAVAILABLE

Leak Source: NOT AVAILABLE

Remedial Action: NOT AVAILABLE

Remedial Status 1: CASE CLOSED/CLEANUP COMPLETE

Remedial Status 2: NOT AVAILABLE

Fields Not Reported: Quantity (Pkg)

STATE UST - State Leaking Underground Storage Tank / SRC# 3989 Agency ID: 9-201776

Agency Address: SAME AS ABOVE

Underground Tanks: 2

Aboveground Tanks: NOT REPORTED

Tanks Removed: NOT REPORTED

Tank ID: R-10 Tank Status: OUT OF SERVICE

Tank Contents: GASOLINE (UNREPORTED) Leak Monitoring: NOT AVAILABLE

Tank Age: 29 Tank Piping: NOT AVAILABLE

Tank Size (Units): 6000 (GALLON) Tank Material: NOT AVAILABLE

Tank ID: 20 Tank Status: ACTIVE/SERVICE

Tank Contents: GASOLINE (UNREPORTED) Leak Monitoring: NOT AVAILABLE

Tank Age: 5 Tank Piping: NOT AVAILABLE

Tank Size (Units): 6000 (GALLON) Tank Material: NOT AVAILABLE

Map ID: 112

VISTA Address: CHEE HING CATERING  
125 WESTERVELL ST  
WAHIAWA, HI 96788

VISTA ID: 4050381  
Distance/Direction: 0.69 MI / SW  
Plotted as: POINT

STATE UST - State Leaking Underground Storage Tank / SRC# 3989 Agency ID: 9-201464

Agency Address: SAME AS ABOVE

Underground Tanks: 1

Aboveground Tanks: NOT REPORTED

Tanks Removed: NOT REPORTED

Tank ID: R-10 Tank Status: OUT OF SERVICE

Tank Contents: DIESEL Leak Monitoring: NOT AVAILABLE

Tank Age: NOT REPORTED Tank Piping: NOT AVAILABLE

Tank Size (Units): NOT REPORTED (NOT AVAILABLE) Tank Material: NOT AVAILABLE



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Map ID: 113

VISTA Address: RURAL FOOD PROD., INC.  
117 MANGO ST  
WAHIAWA, HI 96788

VISTA ID: 3439785  
Distance/Direction: 0.75 MI / SW  
Plotted as: POINT

STATE UST - State Leaking Underground Storage Tank / SRC# 3989 Agency ID: 9-201433

Agency Address: SAME AS ABOVE

Underground Tanks: 1

Aboveground Tanks: NOT REPORTED

Tanks Removed: NOT REPORTED

Tank ID: F-10 Tank Status: ACTIVE/SERVICE

Tank Contents: HEATING OIL Leak Monitoring: NOT AVAILABLE

Tank Age: 41 Tank Piping: NOT AVAILABLE

Tank Size (Units): 550 (GALLON) Tank Material: NOT AVAILABLE

Map ID: 113

VISTA Address: WAHIAWA FIRE STATION  
640 CALIFORNIA AVE  
WAHIAWA, HI 96788

VISTA ID: 3438523  
Distance/Direction: 0.76 MI / SW  
Plotted as: POINT

STATE UST - State Leaking Underground Storage Tank / SRC# 3990 Agency ID: 9-200092

Agency Address: SAME AS ABOVE

Underground Tanks: 1

Aboveground Tanks: NOT REPORTED

Tanks Removed: NOT REPORTED

Tank ID: R-10 Tank Status: OUT OF SERVICE

Tank Contents: DIESEL Leak Monitoring: NOT AVAILABLE

Tank Age: 29 Tank Piping: NOT AVAILABLE

Tank Size (Units): 1000 (GALLON) Tank Material: NOT AVAILABLE

STATE UST - State Leaking Underground Storage Tank / SRC# 3989 Agency ID: 9-200092

Agency Address: SAME AS ABOVE

Underground Tanks: 1

Aboveground Tanks: NOT REPORTED

Tanks Removed: NOT REPORTED

Tank ID: R-10 Tank Status: OUT OF SERVICE

Tank Contents: DIESEL Leak Monitoring: NOT AVAILABLE

Tank Age: 29 Tank Piping: NOT AVAILABLE

Tank Size (Units): 1000 (GALLON) Tank Material: NOT AVAILABLE



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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.	
Alias City:	NOT REPORTED
Alias Zip:	NOT REPORTED
Alias State:	NOT REPORTED
Alias Description:	NOT REPORTED
EPA Region:	9
Congressional District:	2
Facility Ownership:	FEDERALLY OWNED
Site Incident Category:	UNKNOWN
Federal Facility Docket:	SITE IS INCLUDED ON THE DOCKET
NPL Status:	CURRENTLY ON FINAL NPL
Incident Type:	UNKNOWN
Proposed NPL Update #:	0
Final NPL Update #:	0
Financial Management System ID:	DMX
Latitude:	21.0000
Longitude:	158.0000
Lat/Long Source:	GENERATED BY THE GEOGRAPHIC DATABASE
Lat/Long Accuracy:	Unknown
Dioxin Tier:	Unknown
USCS Hydro Unit:	0
RCRA Indicator:	Unknown
Unit Name:	0
Unit Id:	SITE EVALUATION/COMPTON
Unit Name:	NOT REPORTED
Type:	DISCOVERY
Qualifier:	UNKNOWN
Name:	DISCOVERY
Plan Status:	Unknown
Type:	HAZARD HAZARD SITE/SOURCE
Qualifier:	UNKNOWN
Name:	HAZARD HAZARD DETERMINED
Plan Status:	PRELIMINARY
Type:	FINAL LISTING ON NPL
Qualifier:	UNKNOWN
Name:	FINAL LISTING ON NPL
Plan Status:	Unknown
Lead Agency:	Unknown
Category:	NOT REPORTED
Actual Start Date:	Unknown
Actual Completion Date:	Unknown
Lead Agency:	Unknown
Category:	Unknown
Actual Start Date:	Unknown
Actual Completion Date:	Unknown

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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.	
Type:	PROPOSED FOR NPL
Qualifier:	UNKNOWN
Name:	PROPOSED TO NPL
Plan Status:	PRELIMINARY
Lead Agency:	Unknown
Category:	NOT REPORTED
Actual Start Date:	Unknown
Actual Completion Date:	Unknown
Type:	PRELIMINARY ASSESSMENT
Qualifier:	HIGHER PRIORITY
Name:	PRELIMINARY ASSESSMENT
Plan Status:	Unknown
Lead Agency:	Unknown
Category:	NOT REPORTED
Actual Start Date:	Unknown
Actual Completion Date:	Unknown
Type:	SCREENING SITE INVESTIGATION
Qualifier:	HIGHER PRIORITY
Name:	SCREENING SITE INVESTIGATION
Plan Status:	Unknown
Lead Agency:	Unknown
Category:	NOT REPORTED
Actual Start Date:	Unknown
Actual Completion Date:	Unknown
Type:	COMBINED RFS
Qualifier:	UNKNOWN
Name:	COMBINED RFS
Plan Status:	PRELIMINARY
Lead Agency:	Unknown
Category:	Unknown
Actual Start Date:	Unknown
Actual Completion Date:	NOT REPORTED
Type:	RECORD OF DECISION
Qualifier:	UNKNOWN
Name:	RECORD OF DECISION
Plan Status:	PRELIMINARY
Lead Agency:	Unknown
Category:	NOT REPORTED
Actual Start Date:	NOT REPORTED
Actual Completion Date:	NOT REPORTED

SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.	
Type:	UNDERGROUND STORAGE TANK / SRC# 3889
Qualifier:	UNKNOWN
Name:	MAVCA/AG/LEAPAG - PEARL HARBOR
Plan Status:	MAVCA/AG/LEAPAG - PEARL HARBOR
Lead Agency:	MAVCA/AG/LEAPAG - PEARL HARBOR
Category:	MAVCA/AG/LEAPAG - PEARL HARBOR
Actual Start Date:	MAVCA/AG/LEAPAG - PEARL HARBOR
Actual Completion Date:	MAVCA/AG/LEAPAG - PEARL HARBOR
Type:	UNDERGROUND TANKS
Qualifier:	UNKNOWN
Name:	UNDERGROUND TANKS
Plan Status:	UNKNOWN
Lead Agency:	UNKNOWN
Category:	UNKNOWN
Actual Start Date:	UNKNOWN
Actual Completion Date:	UNKNOWN
Type:	TANKS REMOVED
Qualifier:	UNKNOWN
Name:	TANKS REMOVED
Plan Status:	UNKNOWN
Lead Agency:	UNKNOWN
Category:	UNKNOWN
Actual Start Date:	UNKNOWN
Actual Completion Date:	UNKNOWN
Type:	TANK AGE
Qualifier:	UNKNOWN
Name:	TANK AGE
Plan Status:	UNKNOWN
Lead Agency:	UNKNOWN
Category:	UNKNOWN
Actual Start Date:	UNKNOWN
Actual Completion Date:	UNKNOWN

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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.	
<b>VISTA Address:</b> SHELL OIL CO 10 S KAMERAMEHA HWY WAHIAWA, HI 96786 <b>RCRA-SMGen - RCRA-Large Generator / SRCF 3818</b> <b>Agency Address:</b> SAME AS ABOVE <b>Generator Class:</b> Generates at least 1000 lb./month of non-acutely hazardous waste (or 1 lb./month of acutely hazardous waste).	<b>VISTA ID:</b> 6149403 <b>Distance/Direction:</b> 0.85 MI / SW <b>Point:</b> POINT <b>EPA ID:</b> HRD000004197
<b>VISTA Address:</b> SERVICE MOTOR CO 105 S KAM HWY WAHIAWA, HI 96786 <b>RCRA-SMGen - RCRA-Small Generator / SRCF 3816</b> <b>Agency Address:</b> SAME AS ABOVE <b>Generator Class:</b> Generates less than 100 lb./month of non-acutely hazardous waste.	<b>VISTA ID:</b> 414382 <b>Distance/Direction:</b> 0.93 MI / SW <b>Point:</b> POINT <b>EPA ID:</b> HRD981631385
<b>VISTA Address:</b> CONSUMER TIRE WAREHOUSE 227 OHAI ST WAHIAWA, HI 96786 <b>RCRA-SMGen - RCRA-Small Generator / SRCF 3818</b> <b>Agency Address:</b> SAME AS ABOVE <b>Generator Class:</b> Generates less than 100 lb./month of non-acutely hazardous waste.	<b>VISTA ID:</b> 89604 <b>Distance/Direction:</b> 1.00 MI / SW <b>Point:</b> POINT <b>EPA ID:</b> HRD981637240
<b>VISTA Address:</b> WAHIAWA SODA FACTORY 579 PINE ST WAHIAWA, HI 96786 <b>STATE LIST - State Underground Storage Tank / SRCF 3889</b> <b>Agency Address:</b> SAME AS ABOVE <b>Underground Tanks:</b> 1 <b>Aboveground Tanks:</b> NOT REPORTED <b>Tanks Removed:</b> NOT REPORTED <b>Tank ID:</b> 10 <b>Tank Status:</b> ACTIVE/IN SERVICE <b>Tank Contents:</b> UNKNOWN <b>Tank Monitoring:</b> NOT AVAILABLE <b>Tank Age:</b> NOT REPORTED <b>Tank Size (Units):</b> 507 (GALLONS) <b>Tank Material:</b> NOT AVAILABLE	<b>VISTA ID:</b> 63189157 <b>Distance/Direction:</b> 0.98 MI / S <b>Point:</b> POINT <b>EPA ID:</b> 9-2004182

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UNMAPPED SITES	
<b>VISTA Address:</b> LEADER FIELD CORNER OF LYMAN RD HAULUA ST SCHOFIELD BARRACKS, HI 96857 <b>STATE LIST - State Leaking Underground Storage Tank / SRCF 3890</b> <b>Agency Address:</b> SAME AS ABOVE <b>Tank Status:</b> NOT AVAILABLE <b>Discovery Date:</b> NOVEMBER 23, 1993 <b>Media Affected:</b> NOT AVAILABLE <b>Substance:</b> NOT AVAILABLE <b>Remedial Action:</b> NOT AVAILABLE <b>Remedial Status 1:</b> COMPLETED RELEASE <b>Remedial Status 2:</b> NOT AVAILABLE	<b>VISTA ID:</b> 4875538 <b>Agency ID:</b> 9-201884
<b>VISTA Address:</b> USAF WAIKAKALUA FUEL STORAGE ANNEX OFF RIE 95 KAMERAMEHA HIGHWAY WHEELER ARMY AIRFIELD, HI 96854 <b>CERCLIS / SRCF 3859</b> <b>Agency Address:</b> 1534 WAIKAKALUA FUEL STORAGE ANNEX OFF RIE 95 KAMERAMEHA HIGHWAY MOLOKAI, HI 96851	<b>VISTA ID:</b> 4875550 <b>EPA ID:</b> HD000145011

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Type:	PRELIMINARY ASSESSMENT	Lead Agency:	Unknown
Qualifier:	HIGHER PRIORITY	Category:	NOT REPORTED
Name:	PRELIMINARY ASSESSMENT	Actual Start Date:	UNKNOWN
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN
Type:	SCREENING SITE INSPECTION	Lead Agency:	Unknown
Qualifier:	HIGHER PRIORITY	Category:	UNKNOWN
Name:	SCREENING SITE INSPECTION	Actual Start Date:	UNKNOWN
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN

VISTA Address:	WHEELER ARMY AIRFIELD BLDG 150 WHEELER ARMY AIRFIELD, HI 96854	VISTA ID#:	6610151
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-103012
Tank Status:	NOT AVAILABLE	Discovery Date:	FEBRUARY 20 1997
Media Affected:	NOT AVAILABLE	Substance:	NOT AVAILABLE
Remedial Status 1:	CASE CLOSED/CLEANUP COMPLETE	Remedial Status 2:	NOT AVAILABLE

VISTA Address:	WHEELER AIR FORCE BASE BLDG 282 WHEELER ARMY AIRFIELD, HI 96854	VISTA ID#:	6875478
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-101001
Tank Status:	NOT AVAILABLE	Discovery Date:	APRIL 11 1991
Media Affected:	NOT AVAILABLE	Substance:	NOT AVAILABLE
Remedial Status 1:	CONFIRMED RELEASE	Remedial Status 2:	NOT AVAILABLE



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VISTA Address:	F. M. FOOD MART CORP 10 S KAMEHAMEHA HWY WAIHAIWA, HI 96788	VISTA ID#:	6812358
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-201033
Tank Status:	NOT AVAILABLE	Discovery Date:	FEBRUARY 7 1995
Media Affected:	NOT AVAILABLE	Substance:	NOT AVAILABLE
Remedial Status 1:	CASE CLOSED/CLEANUP COMPLETE	Remedial Status 2:	NOT AVAILABLE

VISTA Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	VISTA ID#:	9-201033
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-201033
Tank Status:	NOT AVAILABLE	Discovery Date:	SEPTEMBER 15 1995
Media Affected:	NOT AVAILABLE	Substance:	NOT AVAILABLE
Remedial Status 1:	CLEANUP IN PROGRESS/RE-COURED	Remedial Status 2:	NOT AVAILABLE

VISTA Address:	NCO ACADEMY BLDG 6035, EAST RANGE SCHOFIELD BARRACKS, HI 96857	VISTA ID#:	6833461
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-201035
Tank Status:	NOT AVAILABLE	Discovery Date:	NOVEMBER 17 1994
Media Affected:	NOT AVAILABLE	Substance:	NOT AVAILABLE
Remedial Status 1:	INTERAGENCY TRANSFER	Remedial Status 2:	NOT AVAILABLE



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VISTA Address:	WAHIAWA ARMORY (SUBIMATES) 77-230 KAMEHAMEHA HWY WAHIAWA, HI 96786	VISTA ID:	6835301
STATE LUST - State Leaking Underground Storage Tank / SRC# 3990	Agency ID:	9-201843	
Agency Address:	SAME AS ABOVE		
Tank Status:	NOT AVAILABLE		
Discovery Date:	JUNE 1, 1992		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CLEANUP IN PROGRESS/REQUIRED		
Remedial Status 2:	NOT AVAILABLE		

VISTA Address:	DOL BULK FUEL YARD BLDG 280 TANK 280 WHEELER ARMY AIRFIELD, HI 96854	VISTA ID:	6835113
STATE LUST - State Leaking Underground Storage Tank / SRC# 3990	Agency ID:	9-100169	
Agency Address:	SAME AS ABOVE		
Tank Status:	NOT AVAILABLE		
Discovery Date:	MARCH 30, 1992		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		

VISTA Address:	HELEMANO MILITARY RESERVATION BLDG 300 DINING FACILITY SCHOFIELD BARRACKS, HI 96857	VISTA ID:	6835316
STATE LUST - State Leaking Underground Storage Tank / SRC# 3990	Agency ID:	9-202536	
Agency Address:	SAME AS ABOVE		
Tank Status:	NOT AVAILABLE		
Discovery Date:	APRIL 1, 1992		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		



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VISTA Address:	STATE Leaking Underground Storage Tank / SRC# 3990	Agency ID:	9-202536
Agency Address:	SAME AS ABOVE		
Tank Status:	NOT AVAILABLE		
Discovery Date:	JANUARY 1, 1992		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		

VISTA Address:	SCHOFIELD BARRACKS BLDG 910 SCHOFIELD BARRACKS, HI 96857	VISTA ID:	7013992
STATE LUST - State Leaking Underground Storage Tank / SRC# 3990	Agency ID:	9-201509	
Agency Address:	SAME AS ABOVE		
Tank Status:	NOT AVAILABLE		
Discovery Date:	MAY 1, 1997		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		

VISTA Address:	WHEELER AIR FORCE BASE BLDG 235 WHEELER ARMY AIRFIELD, HI 96854	VISTA ID:	7013993
STATE LUST - State Leaking Underground Storage Tank / SRC# 3990	Agency ID:	9-102076	
Agency Address:	SAME AS ABOVE		
Tank Status:	NOT AVAILABLE		
Discovery Date:	MARCH 18, 1996		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		



\* VISTA address includes enhanced city and ZIP.  
For more information call VISTA Information Solutions, Inc. at 1-800-787-0403.  
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UNMAPPED SITES CONT.

VISTA Address:	WHEELER ARMY AIRFIELD BLDG 256-1 WHEELER ARMY AIRFIELD, HI 96854	VISTA ID#:	7033968
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-103278
Tank Status:	NOT AVAILABLE		
Discovery Date:	MARCH 27, 1997		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		

VISTA Address:	SCHOFIELD BARRACKS BLDG 2402 SCHOFIELD BARRACKS, HI 96857	VISTA ID#:	7033960
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-202039
Tank Status:	NOT AVAILABLE		
Discovery Date:	MARCH 28, 1996		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		

VISTA Address:	SCHOFIELD BARRACKS BLDG 2445 SCHOFIELD BARRACKS, HI 96857	VISTA ID#:	7033991
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-202032
Tank Status:	NOT AVAILABLE		
Discovery Date:	NOVEMBER 7, 1996		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		



\* VISTA address includes enhanced city and ZIP.  
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.  
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UNMAPPED SITES CONT.

VISTA Address:	WAHIAWA CENTER II CALIFORNIA ST WAHIAWA, HI 96786	VISTA ID#:	3430311
Agency Address:	STATE LUST - State Leaking Underground Storage Tank / SRC# 3890	Agency ID:	9-202167
Tank Status:	NOT AVAILABLE		
Discovery Date:	NOVEMBER 14, 1998		
Media Affected:	NOT AVAILABLE		
Substance:	NOT AVAILABLE		
Remedial Action:	NOT AVAILABLE		
Remedial Status 1:	CONFIRMED RELEASE		
Remedial Status 2:	NOT AVAILABLE		

VISTA Address:	OPANA SOUTH OF KAWELA OAHU ISLAND WAHIAWA, HI 96786	VISTA ID#:	310993
Agency Address:	OPANA SOUTH OF KAWELA OAHU ISLAND OPANA, HI 96786	EPA ID:	HI1170090053
EPA Region:	9		
Congressional District:	2		
Federal Facility:	FEDERAL FACILITY		
Facility Ownership:	UNKNOWN		
Site Incident Category:	Unknown		
Federal Facility Docket:	SITE IS NOT INCLUDED ON THE DOCKET		
NPL Status:	NOT ON NPL		
Incident Type:	Unknown		
Proposed NPL Update #:	0		
Final NPL Update #:	0		
Financial Management System ID:	NOT REPORTED		
Latitude:	2130000		
Longitude:	1580000		
Lat/Long Source:	GENERATED BY THE GEOGRAPHY DATABASE		
Lat/Long Accuracy:	Unknown		
Dioxin Tier:	Unknown		
USGS Hydro Unit:	0		
RCRA Indicator:	Unknown		
Unit ID:	0		
Unit Name:	SITE EVALUATION/POSITION		
Type:	DISCOVERY	Lead Agency:	Unknown
Qualifier:	UNKNOWN	Category:	NOT REPORTED
Name:	DISCOVERY	Actual Start Date:	Unknown
Plan Status:	Unknown	Actual Completion Date:	Unknown



\* VISTA address includes enhanced city and ZIP.  
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.  
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UNMAPPED SITES CONT.		VISTA ID#	VISTA ID#
VISTA Address:	NRIF LAUUAPEI LUAUUAPEI VALLEY OAHU ISLAND WAIHIAWA, HI 96788	302881	181710090055
Agency Address:	NRIF LAUUAPEI LUAUUAPEI VALLEY OAHU ISLAND LUAUUAPEI, HI 96788		
EPA Region:	9		
Congressional District:	2		
Federal Facility:	FEDERAL FACILITY		
Facility Ownership:	UNKNOWN		
Site Incident Category:	Unknown		
Federal Facility Docket:	SITE IS NOT INCLUDED ON THE DOCKET		
NPL Status:	NOT ON NPL		
Incident Type:	Unknown		
Proposed NPL Update #:	0		
Final NPL Update #:	0		
Financial Management System ID:	NOT REPORTED		
Latitude:	21.0000		
Longitude:	158.0000		
Lat/Long Source:	GENERATED BY THE GEOGRAPHIC DATABASE		
Lat/Long Accuracy:	Unknown		
Dioxin Tier:	Unknown		
USGS Hydro Unit:	0		
RCRA Indicator:	Unknown		
Unk Id:	0		
Unk Name:	SITE EVALUATION RESPONSE		
Type:	DISCOVERY	Lead Agency:	Unknown
Qualifier:	UNKNOWN	Category:	Unknown
Name:	DISCOVERY	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN
Type:	PRELIMINARY ASSESSMENT	Lead Agency:	Unknown
Qualifier:	HIGHER PRIORITY	Category:	Unknown
Name:	PRELIMINARY ASSESSMENT	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN
Type:	SCREENING SITE INSPECTION	Lead Agency:	Unknown
Qualifier:	HIGHER PRIORITY	Category:	Unknown
Name:	SCREENING SITE INSPECTION	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN

VISTA address includes enhanced city and ZIP.  
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 787 - 0403.  
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UNMAPPED SITES CONT.		VISTA ID#	VISTA ID#
VISTA Address:	WEST HAWAII LANDFILL HONOLULU, HI	4684287	N/A
Agency Address:	STATE SWLF - Solid Waste Landfill / SRCF 3152 SAME AS ABOVE		
EPA Region:	9		
Congressional District:	1		
Federal Facility:	SANITARY LANDFILL/ANDRELL		
Facility Ownership:	NOT AVAILABLE		
Site Incident Category:	APPROVED CESSATION		
NPL Status:			
Incident Type:			
Proposed NPL Update #:			
Final NPL Update #:			
Financial Management System ID:			
Latitude:			
Longitude:			
Lat/Long Source:			
Lat/Long Accuracy:			
Dioxin Tier:			
USGS Hydro Unit:			
RCRA Indicator:			
Unk Id:			
Unk Name:			
Type:	DISCOVERY	Lead Agency:	Unknown
Qualifier:	UNKNOWN	Category:	Unknown
Name:	DISCOVERY	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN
Type:	PRELIMINARY ASSESSMENT	Lead Agency:	Unknown
Qualifier:	HIGHER PRIORITY	Category:	Unknown
Name:	PRELIMINARY ASSESSMENT	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN
Type:	SCREENING SITE INSPECTION	Lead Agency:	Unknown
Qualifier:	HIGHER PRIORITY	Category:	Unknown
Name:	SCREENING SITE INSPECTION	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN

VISTA address includes enhanced city and ZIP.  
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 787 - 0403.  
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UNMAPPED SITES CONT.	
VISTA Address: KALUAKOI LANDFILL HONOLULU, HI	VISTA ID#: 6525678 EPA/Agency ID: N/A
Agency Address: STATE SWLF - Solid Waste Landfill / SRC# 3152	Agency Status: SAME AS ABOVE
Facility Type: SANITARY LANDFILL/LANDFILL	Facility Status: ACTIVE
Permit Status: NOT AVAILABLE	
VISTA Address: KANEIOHE MCBH LANDFILL HONOLULU, HI	VISTA ID#: 6525678 EPA/Agency ID: N/A
Agency Address: STATE SWLF - Solid Waste Landfill / SRC# 3152	Agency Status: SAME AS ABOVE
Facility Type: SANITARY LANDFILL/LANDFILL	Facility Status: ACTIVE
Permit Status: NOT AVAILABLE	
VISTA Address: KAPAA LANDFILL HONOLULU, HI	VISTA ID#: 6525678 EPA/Agency ID: N/A
Agency Address: STATE SWLF - Solid Waste Landfill / SRC# 3152	Agency Status: SAME AS ABOVE
Facility Type: SANITARY LANDFILL/LANDFILL	Facility Status: ACTIVE
Permit Status: NOT AVAILABLE	
VISTA Address: BARBERS POINT HONOLULU, HI	VISTA ID#: 6525678 EPA/Agency ID: N/A
Agency Address: STATE SWLF - Solid Waste Landfill / SRC# 3152	Agency Status: SAME AS ABOVE
Facility Type: SANITARY LANDFILL/LANDFILL	Facility Status: NOT AVAILABLE
Permit Status: APPROVED CESSATION	
VISTA Address: WAIMANALO GULCH HONOLULU, HI	VISTA ID#: 6525683 EPA/Agency ID: N/A
Agency Address: STATE SWLF - Solid Waste Landfill / SRC# 3152	Agency Status: SAME AS ABOVE
Facility Type: SANITARY LANDFILL/LANDFILL	Facility Status: ACTIVE
Permit Status: NOT AVAILABLE	

\* VISTA address includes enhanced city and ZIP.  
For more information call VISTA Information Solutions, Inc. at 1-800-767-0403.  
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# SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

## DESCRIPTION OF DATABASES SEARCHED

### A) DATABASES SEARCHED TO 1 MILE

**NPL**  
SRC# 3622  
VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for NPL was April, 1997.

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the US Dept of Health and Human Services and the US EPA in order to become an NPL site.

**CORRECTS**  
SRC# 3948  
VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for RCRA Corrective Action Sites List was August, 1997.

The EPA maintains this database of RCRA facilities which are undergoing "corrective action". A "corrective action order" is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.

### B) DATABASES SEARCHED TO 1 MILE

**CERCUS**  
SRC# 3859  
VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for CERCUS was July, 1997.

The CERCUS List contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The information on each site includes a history of all pre-remedial, remedial, removal and community relations activities or events at the site, financial funding information for the events, and unrestricted enforcement activities.

**NFRAP**  
SRC# 3860  
VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for CERCUS-NFRAP was July, 1997.

NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.



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# CORRECTION

THE PRECEDING DOCUMENT(S) HAS  
BEEN REPHOTOGRAPHED TO ASSURE  
LEGIBILITY  
SEE FRAME(S)  
IMMEDIATELY FOLLOWING

UNMAPPED SITES CONT.	
VISTA Address: KALUAKOI LANDFILL HONOLULU, HI	VISTA ID#: 6525878
Agency Address: STATE SWLF - Solid Waste Landfill / SRCF 3152	EPA/Agency ID: N/A
Agency Address: SAME AS ABOVE	
Facility Type: SANITARY LANDFILL/ANDRELL	
Facility Status: ACTIVE	
Permit Status: NOT AVAILABLE	
VISTA Address: KANEIHOE MCBH LANDFILL HONOLULU, HI	VISTA ID#: 6525878
Agency Address: STATE SWLF - Solid Waste Landfill / SRCF 3152	EPA/Agency ID: N/A
Agency Address: SAME AS ABOVE	
Facility Type: SANITARY LANDFILL/ANDRELL	
Facility Status: ACTIVE	
Permit Status: NOT AVAILABLE	
VISTA Address: KAPAA LANDFILL HONOLULU, HI	VISTA ID#: 6525878
Agency Address: STATE SWLF - Solid Waste Landfill / SRCF 3152	EPA/Agency ID: N/A
Agency Address: SAME AS ABOVE	
Facility Type: SANITARY LANDFILL/ANDRELL	
Facility Status: ACTIVE	
Permit Status: NOT AVAILABLE	
VISTA Address: BARBERS POINT HONOLULU, HI	VISTA ID#: 3852205
Agency Address: STATE SWLF - Solid Waste Landfill / SRCF 3152	EPA/Agency ID: N/A
Agency Address: SAME AS ABOVE	
Facility Type: SANITARY LANDFILL/ANDRELL	
Facility Status: NOT AVAILABLE	
Permit Status: APPROVED CESSPOOL	
VISTA Address: WAIMANALO GULCH HONOLULU, HI	VISTA ID#: 6525883
Agency Address: STATE SWLF - Solid Waste Landfill / SRCF 3152	EPA/Agency ID: N/A
Agency Address: SAME AS ABOVE	
Facility Type: SANITARY LANDFILL/ANDRELL	
Facility Status: ACTIVE	
Permit Status: NOT AVAILABLE	



VISTA address includes enhanced city and ZIP.  
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.  
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## SITE ASSESSMENT PLUS REPORT (ALL DATABASES SEARCHED TO 1 MILE)

### DESCRIPTION OF DATABASES SEARCHED

#### A) DATABASES SEARCHED TO 1 MILE

**NPL**  
SRCF: 3822  
VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for NPL was April, 1997.

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the US Dept. of Health and Human Services and the US EPA in order to become an NPL site.

**CORRACTS**  
SRCF: 3846  
VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for RCRA Corrective Action Sites List was August, 1997.

The EPA maintains this database of RCRA facilities which are undergoing "corrective action". A "corrective action order" is issued pursuant to RCRA Section 3008 (f) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.

#### B) DATABASES SEARCHED TO 1 MILE

**CERCUS**  
SRCF: 3859  
VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for CERCUS was July, 1997.

The CERCUS list contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The information on each site includes a history of all pre-remedial, remedial, removal and community relations activities or events at the site, financial funding information for the events, and unrestricted enforcement activities.

**NFRAP**  
SRCF: 3860  
VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for CERCUS-NFRAP was July, 1997.

NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.  
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RCRA-1SD  
SRC#: 3946

VISTA conducts a database search to identify all sites within 1/2 mile of your property. The agency release date for RCRIIS was August, 1997.

SWLF  
SRC#: 3152

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for Permitted Landfills, Transfer Station, Incinerator Facilities Database was January, 1996.

This database is provided by the Department of Health, Solid Hazardous Waste Branch. The Hawaii Permitted Landfill, Transfer Station, Incinerator Facilities Database does not provide a facility street address, city, or zip code.

UST  
SRC#: 3990

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for Active Leaking Underground Storage Tank List was July, 1997.

This database is provided by the Department of Health, Solid Hazardous Waste Branch. The Hawaii Leak Report provides additional owner address information which is impossible to provide in this format. For the additional owner address information please contact 1-800-877-3824.

**D) DATABASE SEARCHED TO 1 MILE**

RCRA-Violator VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for RCRIIS was August, 1997.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Violators are facilities which have been cited for RCRA violations at least once since 1980. RCRA Enforcement actions are taken against RCRA violators.

UST's  
SRC#: 3889

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for UST Section Database was July, 1997.

This database is provided by the Department of Health, Solid Hazardous Waste Branch. Caution-Many states do not require registration of heating oil tanks, especially those used for residential purposes.

TRIS  
SRC#: 3718

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for TRIS was December, 1996.

Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as SARA Title III) of 1986 requires the EPA to establish an inventory of Toxic Chemicals emissions from certain facilities (Toxic Release Inventory System). Facilities subject to this reporting are required to complete a Toxic Chemical Release Form (Form R) for specified chemicals.



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.  
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**D) DATABASE SEARCHED TO 1 MILE**

ERIS  
SRC#: 3949

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for ERIS was July, 1997.

The Emergency Response Notification System (ERIS) is a national database used to collect information on reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of Transportation. A search of the database records for the period October 1986 through March 1996 revealed information regarding reported spills of oil or hazardous substances in the stated area.

RCRA-1gGen  
SRC#: 3948

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for RCRIIS was August, 1997.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generator are facilities which generate at least 1000 kg/month of non-acutely hazardous waste (or 1 kg/month of acutely hazardous waste).

RCRA-SmGen  
SRC#: 3948

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for RCRIIS was August, 1997.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small and Very Small generators are facilities which generate less than 1000 kg/month of non-acutely hazardous waste.



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.  
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## MEMORANDUM

To: Mike Choy  
HECO Environmental Dept. 543-5679 Fax 543-7023

From: Charles Brown  
Edward K. Noda & Associates  
615 Pihiel St., Suite 300  
Honolulu, Hawaii 96814  
(808) 591-8553, Ext. 210 Fax: (808) 593-8551

Date: February 2, 1998

Subject: Request for Information  
HECO Pole Mount Transformers (two poles, six transformers)  
On Wilshire Avenue, Adjacent to Dole property TMDK: (1) 7-1-02: 09  
CAC WWTP, TMDK: (1) 7-1-02: 22  
Wilshire, Hawaii

### Appendix D - Response Letter from HECO Regarding the Transformers

Mike:

I am requesting your assistance on the PCB siting of six HECO transformers mounted on two poles for a Phase I ESA project at the above described locations. One pole is on the Wilshire Avenue easement with TMDK: (1) 7-1-02: 09; transformer serial # 58913, 58914, 58923. The other pole is on the City and County easement for a Waste Water Treatment Plant on TMDK: (1) 7-1-02: 22; transformer serial # 54951, 55792, 55793.

As always, your assistance is greatly appreciated.

Muhalo

\*Charlie Brown\*

 Fax Cover Sheet

To: Charles Brown  
Company: Edward K. Hoda & Assoc.  
Phone: 693-8581  
Fax: 693-8581

From: Mike Chey  
Company: HECO  
Phone: 543-5679  
Fax: 543-7023

Date: 2/12/88  
Pages including this cover page: 1

Subject: HECO Transformer information for  
84-277 Kokoihi Place, Mililani  
C&C WWTP, Whitmore

Dear Mr. Brown:

Per your recent request for information on the HECO transformers servicing the above-mentioned addresses, we are submitting the following information:

Unit 4495D contains transformer 24621. This non-PCB transformer was installed at its present Kokoihi Place address in April of 1991.

Transformers 68913, 68914 and 68923 were purchased in September of 1992 and installed at their present Whitmore Avenue address in November of 1992. These are PCB-free transformers.

Transformers 54961, 55792, and 65793 were purchased in July of 1990 and installed at their current location in October of 1990. These are also PCB-free transformers.

Please contact me if you have any questions or need more information.

Sincerely,

Mike

**APPENDIX B**

**Pre-Assessment Consultation Correspondence**

BENJAMIN J. CAYLTANO  
GOVERNOR OF HAWAII



RECEIVED

MAR 12 1998

ENGINEERING CONCEPTS

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

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

March 5, 1998

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

Kenneth Ishizaki, P. E.  
Vice President  
Engineering Concepts, Inc.  
250 Ward Avenue, Suite 206  
Honolulu, Hawaii 96814

LOG NO: 21124 ✓  
DOC NO: 9802EJ17

Dear Mr. Ishizaki:

**SUBJECT: Chapter 6E-8 Historic Preservation Review -- Whitmore Village  
Wastewater Treatment Plant (WWTP) Conversion to Flow Equalization  
Wahiawa, Wahiawa, O'ahu  
TMK: 7-1-2: 22, por. 4, por. 9**

Thank you for the opportunity to review the proposed Whitmore Village WWTP Flow Diversion and Return project. A review of our records shows that there are no known historic sites at the project location. The project proposes construction within an existing WWTP and developed streets and roadways. These lands were once fallow pineapple fields, where it is unlikely that historic sites will be found. Therefore, we believe that this project will have "no effect" on historic sites.

If you have any questions please call Elaine Jourdane at 587-0014.

Aloha,

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

Don Hibbard, Administrator  
Historic Preservation Division

EJ:jk

**APPENDIX C**

**Draft EA Comments and Responses**



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

PLEASE TO  
ATTENTION OF

August 19, 1998

Civil Works Branch

Mr. Bill Liu  
Department of Design and Construction  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Liu:

Thank you for the opportunity to review and comment on the Draft Environmental Assessment (DEA) for the Whitmore Village Wastewater Treatment Plant, Wahiawa, Oahu (TMK 7-1-2: 22, por. 4 and 9). The following comments are provided in accordance with Corps of Engineers authorities to provide flood hazard information and to issue Department of the Army (DA) permits.

- a. Based on the information provided, a DA permit will not be required for the project.
- b. The flood hazard information provided on page 3-2 of the DEA is correct.

Sincerely,

Paul Mizue, P.E.  
Chief, Civil Works Branch

Copies Furnished:

Mr. Kenneth Ishizaki  
Engineering Concepts  
250 Ward Avenue, Suite 206  
Honolulu, Hawaii 96814

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

RECEIVED

AUG 20 1998

ENGINEERING CONCEPTS

DEPARTMENT OF DESIGN AND CONSTRUCTION

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 533-4564 • FAX: (808) 533-4567



JEREMY HARRIS  
MAYOR

October 13, 1998

Mr. Paul Mizue, P.E., Chief  
Civil Works Branch  
U.S. Army Engineer District, Honolulu  
Fort Shafter, Hawaii 96858-5440

Dear Mr. Mizue:

Subject: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TMK: 7-1-2:22, portion of 4 and 9

Thank you for your letter of August 19, 1998 regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and acknowledge your comment that a Department of the Army permit will not be required for the project.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

*Randall K. Fujiki*  
RANDALL K. FUJIKI  
Director

cc: / Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control

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OCT 19 1998

ENGINEERING CONCEPTS

RANDALL K. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-324



DEPARTMENT OF THE NAVY  
 COMMANDER  
 NAVAL BASE PEARL HARBOR  
 817 RUSSELL AVENUE  
 PEARL HARBOR, HAWAII 96860 5020

5090P  
 Ser N42(23) 4655  
 August 17, 1998

Mr. Bill Liu  
 Department of Design and Construction  
 Department of Environmental Services  
 650 South King Street  
 Honolulu, HI 96813

Dear Mr. Liu:

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR WHITMORE VILLAGE WASTEWATER TREATMENT PLANT CONVERSION TO FLOW EQUALIZATION, WAHIAWA, OAHU, HAWAII OF JULY 1998

Thank you for providing us with an opportunity to review and comment on the subject DEA. The Navy's review comment is provided as follows:

a. Effective October 19, 1997, NCTAMS EASTPAC was officially renamed NCTAMS PAC (Naval Computer and Telecommunications Area Master Station, Pacific). Recommend that a global change be made throughout the DEA.

The Navy's point of contact is Mr. Clyde Yokota at 474-0439. You may direct all future correspondence on this subject to me at Commander, Naval Base Pearl Harbor, Attn: (N42), Box 110, Pearl Harbor, HI 96860-5020.

Sincerely,

*C. K. Yokota*

C. K. YOKOTA  
 Environmental Program Manager  
 By direction of  
 Commander, Naval Base, Pearl Harbor

Copy to:  
 Mr. Kenneth Ishizaki  
 Engineering Concepts, Inc.  
 250 Ward Avenue, Suite 206  
 Honolulu, HI 96814

Office of Environmental Quality Control  
 Leiopapa A Kamehameha, Suite 702  
 235 South Beretania Street  
 Honolulu, HI 96813

DEPARTMENT OF DESIGN AND CONSTRUCTION  
 CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 2ND FLOOR  
 HONOLULU, HAWAII 96813  
 PHONE: (808) 523-4664 • FAX: (808) 523-4587



JEREMY HARRIS  
 MAYOR

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 OCT 19 1998  
 ENGINEERING CONCEPTS, INC.

RANDALL K. FUJIKI, AIA  
 DIRECTOR  
 ROLAND D. LIBBY, JR., AIA  
 COUNTY DIRECTOR

DCP 98-326

October 13, 1998

Commander  
 Naval Base Pearl Harbor  
 Attn: (N42)  
 Box 110  
 Pearl Harbor, Hawaii 96860-5020

Attention: Mr. Clyde Yokota  
 Environmental Program Manager

Dear Sir:

Subject: Draft Environmental Assessment (EA) for  
 Whitmore Village Wastewater Treatment Plant Conversion to Flow  
 Equalization, Wahiawa, Oahu, Hawaii  
 TMK: 7-1-2-22, portion of 4 and 9

Thank you for your letter of August 17, 1998 regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document. All references to NCTAMS EASTPAC will be revised to reflect the official name change to Naval Computer and Telecommunications Area Master Station, Pacific (NCTAMS PAC) in the Final EA.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

*Randall K. Fujiki*  
 For RANDALL K. FUJIKI  
 Director

cc: / Kenneth Ishizaki - Engineering Concepts, Inc.  
 Office of Environmental Quality Control

# FAX

Environmental Compliance Office, Code 09E  
Navy Public Works Center  
Pearl Harbor, HI 96860

Date: August 24, 1998

Number of pages including cover sheet: 2

## ENVIRONMENTAL COMPLIANCE OFFICE REVIEW COMMENTS NAVY PUBLIC WORKS CENTER, CODE 09E

PROJECT TITLE	DATE	PAGE
WHITMORE VILLAGE WASTEWATER TREATMENT PLANT CONVERSION TO FLOW EQUALIZATION	8/2/98	1 OF 1
ACTIVITY	REVIEWED BY:	
City and County of Honolulu	J. Higuchi, Ph.D., MPECH	
LOCATION	NAVY FAC DWG NO.	
Waikawa, Oahu	N/A	
	SPECIFICATION NO.	
	N/A	
Page 1-1	1	
	(1)	

2<sup>nd</sup> paragraph of section 1.2. Please delete the last sentence: "The recent addition.....". This sentence implies not the decision to accept NCTAMS flow. As a public document emphasis on this point may cloud the baseline issue of this EIS.

To:	From:
CCH	Mr. Bill Liu
ECI	Mr. Kenneth Ishizaki
OEQC	J. Higuchi
Phone:	Phone: (808) 474-1102
Fax Phone: 523-4642 (CCH)	Fax Phone: (808) 474-5643
594-9010 (ECI)	
588-4188 (OEQC)	
CC:	

REMARKS:

Urgent  For your review  Reply ASAP  Please comment

SUBJ: Whitmore Village Wastewater Treatment Plant Conversion to Flow Equalization

As requested enclosed is a copy of the Navy Public Works Center comments to the subject EA. Again thank you for giving us the opportunity to comment and please feel free to call me at 474-1102 if you have any questions.

Sincerely,

Joanne Higuchi

PWC Pearl Harbor Code 09E2

RECEIVED  
OCT 19 1998  
ENGINEERING CONC. 15

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 933-1664 • FAX: (808) 933-1667



JEREMY HARRIS  
MAYOR

RANDALL K. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-325

October 13, 1998

Navy Public Works Center  
Environmental Compliance Office, Code 09E  
Pearl Harbor, Hawaii 96860-5020

Attention: Ms. Joanne Higuchi, Code 09E2

GenLeman:

Subject: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TMK: 7-1-2-22, portion of 4 and 9

Thank you for your correspondence of August 24, 1998 regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document. The requested revision will be made in the Final EA.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

Handwritten signature of Randall K. Fujiki in black ink.

For RANDALL K. FUJIKI  
Director

cc: / Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control

WILLIAM J. CANTLAND  
GOVERNOR



RECEIVED

JUL 30 1998

ENGINEERING CONCEPTS

STATE OF HAWAII  
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM  
LAND USE COMMISSION

P.O. Box 2359  
Honolulu, HI 96804-2359  
Telephone: 808-587-3822  
Fax: 808-587-3827

July 29, 1998

Mr. Bill Liu  
Department of Design and Construction  
Department of Environmental Services  
City & County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Liu:

Subject: Draft Environmental Assessment (DEA) for the  
Whitmore Village Wastewater Treatment Plant  
(Conversion to Flow Equalization), Wahiawa, Oahu,  
TMS 7-1-02: 22, PAR. 4, and PAR. 9

We have reviewed the DEA for the subject project and confirm that the project site, as represented on Figure 3.1, is located within the State Land Use Urban and Agricultural Districts.

On Table 1 (p. 1-8), we note that a Special Use Permit is one of the permits that will be obtained from the City & County of Honolulu Department of Planning and Permitting prior to the construction of the project. Clarification should be provided as to the amount of land area proposed to be covered under the Special Use Permit.

We have no further comments to offer at this time. We appreciate the opportunity to comment on the subject DEA.

Should you have any questions, please feel free to call me or Bert Saruwatari of our office at 587-3822.

Sincerely,

ESTHER UEDA  
Executive Officer

EU:th

cc: OEQC  
Kenneth Ishizaki

DEPARTMENT OF DESIGN AND CONSTRUCTION

CITY AND COUNTY OF HONOLULU

850 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813

PHONE: (808) 523-4564 • FAX: (808) 523-4567



JEFFREY HARRIS  
DIRECTOR

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OCT 19 1998

ENGINEERING CONCEPTS

RAMDALL K. FUJIKI, AIA  
DIRECTOR

ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-321

October 13, 1998

Ms. Esther Ueda, Executive Officer  
Land Use Commission  
Department of Business, Economic Development & Tourism  
State of Hawaii  
P.O. Box 2359  
Honolulu, Hawaii 96804-2359

Dear Ms. Ueda:

Subject: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TMSK 7-1-2:22, portion of 4 and 9

Thank you for your letter of July 29, 1998 regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document. The final EA will disclose that 1.2 acres of land are proposed to be covered under the Special Use Permit.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

For RAMDALL K. FUJIKI  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control



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

**OFFICE OF PLANNING**

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

Ref. No. P-7623

August 4, 1998

**RECEIVED**

**AUG 13 1998**

ENGINEERING CONCEPTS

BENJAMIN J. CATELANO  
GOVERNOR  
SERIYAMA  
BRADLEY J. MOSELMAN  
DEPUTY DIRECTOR  
RICK EGGED  
DIRECTOR, OFFICE OF PLANNING

Tel: (808) 587-2845  
Fax: (808) 587-2824

Mr. Kenneth E. Sprague  
Director

Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Attn: Mr. Bill Liu  
Division of Design and Construction

Dear Mr. Sprague:

**Subject:** Draft Environmental Assessment for the Whitmore Village Wastewater Treatment Plant Conversion to Flow Equalization, Wahiawa, Oahu, Hawaii

We have reviewed the Draft Environmental Assessment (DEA) for the Whitmore Village Wastewater Treatment Plant Conversion to Flow Equalization, Wahiawa, Oahu, Hawaii. Because the project is in the Coastal Zone Management (CZM) area which includes all lands of the State, an assessment of the project's consistency and compliance with the CZM objectives and policies of Chapter 205A, Hawaii Revised Statutes, should be included which is required by the Office of Environmental Quality Control's administrative rules.

The DEA describes mitigation measures to control soil erosion including the submittal of a soil erosion plan and the use of best management practices. We recommend that an adequate monitoring system be established to ensure the effectiveness of these mitigation measures.

If there are any questions, please contact Steve Olive of our CZM Program at 587-2877.

Sincerely,

  
Rick Egged  
Director  
Office of Planning

cc: Kenneth Ishizaki, Engineering Concepts, Inc.  
Gary Gill, Office of Environmental Quality Control

**DEPARTMENT OF DESIGN AND CONSTRUCTION**

**CITY AND COUNTY OF HONOLULU**

650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813

PHONE: (808) 523-4554 • FAX: (808) 523-4587



JENNIFER HARRIS  
MAYOR

RANDALL K. FUJISE, AIA  
DIRECTOR

ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

October 23, 1998

DCP 98-363

Mr. Rick Egged, Director  
Office of Planning  
Department of Business, Economic  
Development & Tourism  
P. O. Box 2359  
Honolulu, Hawaii 96804-2359

Dear Mr. Egged:

**Subject:** Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant (WWTP)  
Conversion to Flow Equalization, Wahiawa, Oahu, Hawaii  
TRK: 7-1-2:22, Portion of 4 and 9

Please disregard our letter of October 13, 1998 (DCP 98-320) regarding the above-mentioned project and replace it with this letter.

Thank you for your letter of August 4, 1998, to the Department of Environmental Services regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and offer the following response to your comments:

1. The Final EA will include a statement that the project is consistent with the CZM objectives and policies. A brief assessment of the project's consistency follows.

**Recreational Resources.** The objective is to "provide coastal recreational opportunities accessible to the public." Due to location of project site at an elevation of over 900 feet above mean sea level, development of the project will not interfere or compete with existing coastal recreational resources.

**Historic Resources.** There are no known archaeological resources which will be impacted by the development.

**Scenic and Open Space Resources.** The proposed project is not coastal dependent and will be located inland to preserve coastal scenic and open space resources.

Mr. Rick Egged  
Page 2  
October 23, 1998

Coastal Ecosystems. Erosion control measures and best management practices will be implemented during construction to minimize adverse impacts to coastal ecosystems.

Economic Uses. The proposed project is not coastal dependent and will be located at a suitable inland location.

Coastal Hazards. The project site is located in an area where flood hazards are undetermined. Erosion control measures will be implemented to minimize nonpoint source pollution.

Managing Development. N/A

Public Participation. N/A

Beach Protection. The project site is not located at or near the shoreline.

Marine Resources. N/A

2. Construction activities, including the effectiveness of erosion control measures will be monitored by City and County construction management personnel.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

  
RANDALL K. FUJIKI  
Director

cc: Kenneth Ishizaki, Engineering Concepts, Inc.  
Office of Environmental Quality Control

STEVENS & CRISTIANO  
GOVERNORS OF HAWAII



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AUG 6 1998

ENGINEERING CONCEPTS

MICHAEL S. NELSON, CHAIRMAN  
BOARD OF LAND AND NATURAL RESOURCES

DEPUTY  
ORLENE COLLAVALLO

ADULTS/CHILDREN DEVELOPMENT  
PROGRAM

ADULTS SERVICES  
CONNECTIONS AND

CONNECTIONS AND AFFAIRS

August 3, 1998

Bill Liu  
Department of Environmental Services  
City & County of Honolulu  
650 S. King Street  
Honolulu, Hawaii 96813

Dear Mr. Liu:

**SUBJECT:** Chapter 6E-8 Historic Preservation Review - Draft Environmental Assessment (DEA) Whitmore Village Wastewater Treatment Plant (WWTP) Conversion to Flow Equalization Wablaw, Wablaw, O'ahu  
TMK: 7-1-22, POR. 4, POR. 9

The DEA includes in Appendix B our earlier comments that we believe that this project will have "no effect" on historic sites.

If you have any questions please call Elaine Jourdan at 587-0014.

Aloha,

Don Hibbard, Administrator  
State Historic Preservation Division

El:je

c:

[REDACTED]

OEQC, Leiopapa A Kamehameha, Suite 702, 235 S. Beretania St. Honolulu, HI 968132

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 523-1554 • FAX: (808) 523-4587



JEREMY HARRIS  
MAYOR

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OCT 19 1998

ENGINEERING CONCEPTS

RANDALL K. FUJIKI, AIA  
DIRECTOR

ROLAND D. LURBY, JR., AIA  
DEPUTY DIRECTOR

October 13, 1998

DCP 98-322

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

Dear Mr. Hibbard:

**Subject:** Draft Environmental Assessment (EA) for Whitmore Village Wastewater Treatment Plant Conversion to Flow Equalization, Wablaw, Oahu, Hawaii  
TMK: 7-1-22, portion of 4 and 9

Thank you for your letter of August 3, 1998 to the Department of Environmental Services regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and acknowledge that you have no additional comments to offer.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

RANDALL K. FUJIKI  
Director

cc: / Kenneth Ishizaki - Engineering Concepts, Inc  
Office of Environmental Quality Control

RONALD L. CAWTHRAE  
GOVERNOR



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
869 PUNCHBOWL STREET  
HONOLULU, HAWAII 96813-5097

August 31, 1998

Mr. Kenneth E. Sprague  
Director  
Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Attention: Mr. Bill Liu

Dear Mr. Sprague:

Subject: Whitmore Village Wastewater Treatment Plant  
Conversion to Flow Equalization  
Draft Environmental Assessment (EA)  
TMK: 7-1-2: 22, portion of 4 and 9

Thank you for your transmittal requesting our comments on the subject project.  
The subject project will not impact our State transportation facilities in the area.  
We appreciate the opportunity to provide comments.

Very truly yours,

KAZU HAYASHIDA  
Director of Transportation

Mr. Gary Gill, Office of Environmental Quality Control

KAZU HAYASHIDA  
DIRECTOR  
DEPUTY DIRECTOR  
DEPARTMENT OF TRANSPORTATION  
CLIENT CONTACT

BY REPLY REFER TO:  
STP 8.8765

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SEP 3 1998

ENGINEERING CONCEPTS

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DEC 19 1998

ENGINEERING CONCEPTS

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 523-4564 • FAX: (808) 523-4567



JEREMY HARRIS  
MAYOR

RANDALL K. FUJIKI, AIA  
DIRECTOR

ROLAND D. LEMAY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-323

October 13, 1998

Mr. Kazu Hayashida, Director  
Department of Transportation  
State of Hawaii  
869 Punchbowl Street  
Honolulu, Hawaii 96813-5097

Dear Mr. Hayashida:

Subject: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TMK: 7-1-2:22, portion of 4 and 9

Thank you for your letter of August 31, 1998 to the Department of Environmental Services regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and acknowledge your comment that the project will not impact State transportation facilities in the area.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

RANDALL K. FUJIKI  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control

BENJAMIN J. CAVEIANO  
DIRECTOR



STATE OF HAWAII  
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

226 SOUTH BERTANHA STREET  
SUITE 702  
HONOLULU, HAWAII 96813  
TELEPHONE (808) 524-4185  
FACSIMILE (808) 524-4189

August 20, 1998

GARY GILL  
DIRECTOR

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AUG 21 1998

ENGINEERING CONCEPTS

Mr. Bill Liu  
Department of Design and Construction  
Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Liu:

Having reviewed the draft environmental assessment (DEA) for the Whitmore Village Wastewater Treatment Plant (Conversion to Flow Equalization), Wahiawa, Oahu, TMK 7-1-02:22, por. 4 and por. 9, we submit the following comments for your response.

1. Please disclose whether wastewater from the proposed facility will eventually enter Lake Wilson or be piped to the Honouliuli Waste Water Treatment Plant.
2. Please discuss the status (R1, R2, etc.) of the wastewater being discharged from the Wahiawa Waste Water Treatment Plant.

If there are any questions, please call Leslie Segundo, Environmental Health Specialist, at 586-4185.

Sincerely,

  
GARY GILL  
Director

c: Mr. Kenneth Ishizaki, Engineering Concepts, Inc.

DEPARTMENT OF DESIGN AND CONSTRUCTION

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813

PHONE: (808) 523-4584 • FAX: (808) 523-4587



JEREMY HARRIS  
MAYOR

RECEIVED

OCT 19 1998

ENGINEERING CONCEPTS

RANDALL E. FURUKI, AIA  
DIRECTOR

ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-319

October 13, 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 (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TMK: 7-1-2:22, portion of 4 and 9

Thank you for your letter of August 20, 1998 regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and offer the following response to your comments.

1. Please disclose whether wastewater from the proposed facility will eventually enter Lake Wilson or be piped to the Honouliuli Wastewater Treatment Plant.  
  
The Final EA will disclose that there are no current plans to convey wastewater from Wahiawa to the Honouliuli Wastewater Treatment Plant. The State Department of Health is in concurrence with the City's proposed plan to discharge Wahiawa Wastewater Treatment Plant's R-1 quality effluent into Wahiawa Reservoir through an outfall adjusted to a deeper discharge location.

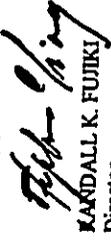
2. Please discuss the status (R1, R2, etc.) of the wastewater being discharged from the Wahiawa Wastewater Treatment Plant.

Presently, the Wahiawa WWTP produces disinfected secondary effluent. The treatment processes will be upgraded to produce R-1 quality effluent by March 2001.

Mr. Gary Gill  
Page 2  
October 13, 1998

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

  
For RANDALL K. FUJIKI  
Director

cc: / Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control

DEPARTMENT OF PLANNING AND PERMITTING

CITY AND COUNTY OF HONOLULU

630 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813  
Phone: (808) 523-4111 • Fax: (808) 571-4713

AUG 25 1998

ENGINEERING CONSULTING

JOSEPH HARRIS  
MAYOR



JAN NAOE SULLIVAN  
DIRECTOR

LORETTA K.C. CHIE  
CONSTRUCTION

98-05564 (DT)  
98 EA Comments Zone 7

August 24, 1998

MEMORANDUM

TO: RANDALL K. FUJIKI, DIRECTOR  
DEPARTMENT OF DESIGN AND CONSTRUCTION

ATTN: BILL LIU

FROM: JAN NAOE SULLIVAN, DIRECTOR  
DEPARTMENT OF PLANNING AND PERMITTING

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (EA)  
WHITMORE VILLAGE WASTEWATER TREATMENT PLANT (WWTP)  
TAX MAP KEYS: 7-1-2; 22, PORS. 4 AND 9

1. The locations of the overflowing manholes and surcharged sewers should be included in the EA.
2. Construction plans for all work within the City's road right-of-way should be submitted for review. It is noted from the EA that traffic control plans will be submitted to the City for review and approval.
3. Construction work within Whitmore Avenue should be coordinated with the State Department of Transportation, since this roadway facility is under their jurisdiction.
4. The project site is zoned AG-1 Restricted Agricultural District. The project is allowed under AG-1 zoning as a public use and structure.

RANDALL K. FUJIKI, DIRECTOR

Page 2

August 24, 1998

Thank you for the opportunity to comment. If you have any questions regarding this letter, please contact Ms. Dana Teramoto of our staff at 523-4648.

*JAN NAOE SULLIVAN*  
JAN NAOE SULLIVAN  
Director of Planning  
and Permitting

JNS:am

cc: /Kenneth Ishizaki, Engineering  
Concepts, Inc.  
Office of Environmental Quality Control

98-05564.djt

RECEIVED  
OCT 19 1998  
ENGINEERING CONCEPTS

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 522-4584 • FAX: (808) 522-4587



JEREMY HARRIS  
MAYOR

RAHOALLE C. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-318

October 13, 1998

MEMORANDUM

TO: MS. JAN NAOE SULLIVAN, DIRECTOR  
DEPARTMENT OF PLANNING & PERMITTING

FROM: For RANFALL K. FUJIKI, DIRECTOR  
DEPARTMENT OF DESIGN & CONSTRUCTION

SUBJECT: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TMK: 7-1-2-22, portion of 4 and 9

Thank you for your correspondence of August 24, 1998 regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and offer the following response to your comments.

1. *The locations of the overflowing manholes and surcharged sewers should be included in the EA.*  
To our knowledge, the incidence of overflow occurs only at the influent pump station at the Wahiawa Wastewater Treatment Plant.
2. *Construction plans for all work within the City's road right-of-way should be submitted for review. It is noted from the EA that traffic control plans will be submitted to the City for review and approval.*  
There is no work proposed within City streets. The Final EA will be revised to state that traffic control plans will be submitted to the State Department of Transportation (DOT) for review and approval since Whitmore Avenue is under state jurisdiction.
3. *Construction work within Whitmore Avenue should be coordinated with the State DOT, since the roadway facility is under their jurisdiction.*

Ms. Jan Naoe Sullivan  
Page 2  
October 13, 1998

Design and construction of improvements within Whitmore Avenue will be coordinated with DOT.

4. *The project site is zoned AG-1 Restricted Agricultural District. The project is allowed under AG-1 zoning as a public use and structure.*

We acknowledge your comment.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

cc: ✓ Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control

Hawaiian Electric Company, Inc. • PO Box 2750 • Honolulu, HI 96840-0001

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Scott W.H. Seu, P.E.  
Manager  
Environmental Department

August 24, 1998

Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, HI 96813  
Attention: Mr. Bill Liu - Department of Design and Construction

Dear Mr. Liu

Subject: Whitmore Village Wastewater Treatment Plant

Thank you for the opportunity to comment on your July 1998 Draft EA for the Whitmore Village Wastewater Treatment Plant, as proposed by the Department of Environmental Services, City and County of Honolulu. We have reviewed the subject document and request that more detail regarding the installation of the pole-mounted electrical boxes on Page 4-4 be included in the final EA.

Our point of contact for this project, and the originator of these comments, is Bill Muench (543-5657) senior customer engineer. I suggest your staff and consultants deal directly with Bill to coordinate HECO's continuing input on this project.

Sincerely,

cc: OEQC

Engineering Concepts, Inc.  
250 Ward Avenue, Suite 206  
Honolulu, HI 96814



B. Muench

WINNER OF THE EDISON AWARD  
FOR DISTINGUISHED INDUSTRY LEADERSHIP



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DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 532-1564 • FAX: (808) 532-1567



JEREMY HARRIS  
MAYOR

RANDALL K. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-330

October 13, 1998

Mr. Scott W.H. Seu, P.E., Manager  
Environmental Department  
Hawaiian Electric Company, Inc.  
P.O. Box 2750  
Honolulu, Hawaii 96840-0001

Dear Mr. Seu:

Subject: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TRMK: 7-1-222, portion of 4 and 9

Thank you for your letter of August 24, 1998 to the Department of Environmental Services regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document. In response to your request for more detail on the pole-mounted electrical boxes, construction plans will be submitted for your review, when available. Design and mounting of the equipment will be coordinated with Hawaiian Electric Company.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

For RANDALL K. FUJIKI  
Director

cc: / Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control

**GTE Hawaiian Tel**  
*Beyond the call*

August 4, 1998

Department of Environmental Services  
City & Count of Honolulu  
650 South King Street  
Honolulu, HI 96813

Attention: Mr. Bill Liu

Subject: Whitmore Village Wastewater Treatment Plant  
Conversion to Flow Equalization, Wahiawa, Oahu, Hawaii

Dear Bill,

Thank you for the opportunity to review and comment on the above mentioned project. We do not foresee any problems with the proposed new construction. We do request to review the detail plans as they become available. Also, please indicate whether there will be a need to add additional lines at either the Whitmore Village WWTP or the Pre-treatment facility. This will enable us to determine whether we need to reinforce the lines serving these facilities.

If you have any questions, please call Garret Hayashi at 840-1438.

Sincerely,

*Wayne L. Cabral*

Wayne L. Cabral  
Section Manager  
Access Design & Construction

cc: Engineering Concepts, Inc. ✓  
250 Ward Avenue, Suite 206  
Honolulu, HI 96814  
Attention: Mr. Kenneth Ishizaki

Office of Environmental Quality Control  
Leiopapa A Kamehameha, Suite 702  
235 South Beretania Street  
Honolulu, HI 96813

File (Wahiawa)  
C. Hayamizu

DEPARTMENT OF WASTEWATER MANAGEMENT  
**CITY AND COUNTY OF HONOLULU**  
DIVISION OF PLANNING AND SERVICE CONTROL  
850 SOUTH KING STREET  
HONOLULU, HAWAII 96813



JEREMY HARRIS  
MANAGER

KENNETH E. SPAHR, P.E., P.D.  
DIRECTOR  
STEPHEN Y. CHING  
CLERK

October 23, 1998

DCP 98-362

Mr. Wayne L. Cabral, Section Manager  
Access Design and Construction  
GTE Hawaiian Telephone Company, Inc.  
P. O. Box 2700  
Honolulu, Hawaii 96841

Dear Mr. Cabral:

Subject: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant (WWTP)  
Conversion to Flow Equalization, Wahiawa, Oahu, Hawaii  
TRK: 7-1-2:22, Portion of 4 and 9

Please disregard our letter of October 13, 1998 (DCP 98-328) regarding the above-mentioned project and replace it with this letter.

Thank you for your letter of August 4, 1998, to the Department of Environmental Services regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and offer the following response to your comments:

1. We acknowledge that GTE Hawaiian Tel does not foresee any problems with the proposed new construction.
2. A copy of the construction plans will be transmitted for your review, when available.
3. The existing telephone lines are sufficient. No additional lines will be required at either the Whitmore Village Wastewater Treatment Plant or Pretreatment Facility.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

*Kenneth E. Spahr*  
DIRECTOR  
K. FUJIKI  
MANAGER

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control



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August 20, 1998

Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Attention: Mr. Bill Liu  
Department of Design and Construction

Gentlemen:

Subject: Whitmore Village Wastewater Treatment Plant  
Conversion to Flow Equalization-Draft Environmental Assessment  
Plan Review and Comment

We refer to your letter dated July 9, 1998. Based on our review of the Draft Environmental Assessment, it has been determined that the area is currently clear of utility gas facilities.

Thank you for the opportunity to review the Draft Environmental Assessment for the proposed improvements. Should there be any questions, or if additional information is desired, please call me at 594-5574.

Very truly yours,

Keith K. Yamamoto  
Supervisor, Engineering

KKY:JH  
98-206

cc: Mr. Kenneth Ishizaki, Engineering Concepts, Inc.  
Office of Environmental Quality Control

THE GAS COMPANY  
515 Kalia Street Honolulu Hawaii 96814  
PO Box 200 Honolulu Hawaii 96822-2000  
Tel: (808) 531-1234 Fax: (808) 531-1235

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 533-4564 • FAX: (808) 533-4687



JEREMY HARRIS  
CLERK

October 13, 1998

The Gas Company  
P.O. Box 3000  
Honolulu, Hawaii 96802-3000

Attention: Mr. Keith K. Yamamoto  
Supervisor, Engineering

Gentlemen:

Subject: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TMK: 7-1-2:22, portion of 4 and 9

Thank you for your letter of August 20, 1998 to the Department of Environmental Services regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and acknowledge your comment that the area is currently clear of utility gas facilities.

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

For RANDALL K. FUJIIGI  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control

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RANDALL K. FUJIIGI, AIA  
DIRECTOR  
ROLAND D. LARRY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-329

Vertical line of marks on the right margin of the page.

**Castle & Cooke**  
Land Company

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'98 AUG 24 10:38

August 19, 1998

DESIGN & CONSTRUCTION  
DIVISION OF  
PLANNING & PROGRAMMING

Department of Environmental Services  
City and County of Honolulu  
650 S. King Street  
Honolulu, Hawaii 96813

Attn: Mr. Bill Liu

Department of Design & Construction

Re: Whitmore WTP Conversion to Flow Equalization

Dole Food Company, Inc. ("Dole") and Castle & Cooke, Inc. ("Castle") are aware of the easements through its property for the Whitmore Wastewater Treatment Plant.

Since your activities in this area may impact Dole's operations, please coordinate your activities with Ike Angara, Dole's manager at 621-3241. If you wish to use any land that is out of the easement area, please contact the undersigned and a right of entry will be prepared to allow you access onto those lands.

Should you have any questions regarding entry onto lands owned by Dole and Castle, please call me at 548-2945.

Very truly yours,

  
Beverly Kaku, Land Agent  
CASTLE & COOKE LAND COMPANY  
Agent: Dole Food Company, Inc.  
Castle & Cooke, Inc.

cc: George Wada  
(file ref. 98-13)

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DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 2ND FLOOR  
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PHONE: (808) 525-4564 • FAX: (808) 525-4567



JEREMY HARRIS  
MAYOR

MANOALLE K. FUJIKI, AIA  
DIRECTOR

ROLAND D. LIBBY, P.L.A.  
DEPUTY DIRECTOR

DCP 98-327

October 13, 1998

Ms. Beverly Kaku, Land Agent  
Castle & Cooke Land Company  
P.O. Box 2990  
Honolulu, Hawaii 96802

Dear Ms. Kaku:

Subject: Draft Environmental Assessment (EA) for  
Whitmore Village Wastewater Treatment Plant Conversion to Flow  
Equalization, Wahiawa, Oahu, Hawaii  
TMK: 7-1-2-22, portion of 4 and 9

Thank you for your letter of August 19, 1998 to the Department of Environmental Services regarding the Draft EA for the subject project. We appreciate your effort in reviewing the document and offer the following response to your comments:

1. Construction activities will be coordinated with Ike Angara to minimize impacts to Dole Food Company's operations.
2. We do not anticipate the need to access Dole or Castle & Cooke lands beyond the easement area. However, should the need arise, we will contact you to discuss right of entry requirements.

Ms. Beverly Kaku  
Page 2  
October 13, 1998

A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,



For RANDALL K. FUMIKI  
Director

cc: / Kenneth Ishizaki - Engineering Concepts, Inc.  
Office of Environmental Quality Control

