

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:

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

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Sincerely,

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KENNETH E. SPRAGUE Director

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

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

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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:

98 Date

Kenneth E. Sprague, Director

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: Phone: Fax:	Bill Liu, Department of Design and Construction 527-6871 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 (<u>+</u>)
EXISTING USES:	Abandoned municipal wastewater treatment plant. Access road to WWTP traverses the Dole Fresh Fruit Company base yard.

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STATE LAND USE:	Agricultural and Urban
COUNTY ZONING:	AG-1 Restricted Agricultural
ALTERNATIVES CONSIDERED:	 No action Manual flow diversion with detained volumes trucked to the Whitmore Village Pretreatment Facility for disposal Automatic flow diversion with flow returned through the existing slip-lined 12-in sewer 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.

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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.

NOISE: Emergency generators will be housed in

a building or enclosure for acoustical abatement.

Long Term:

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

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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

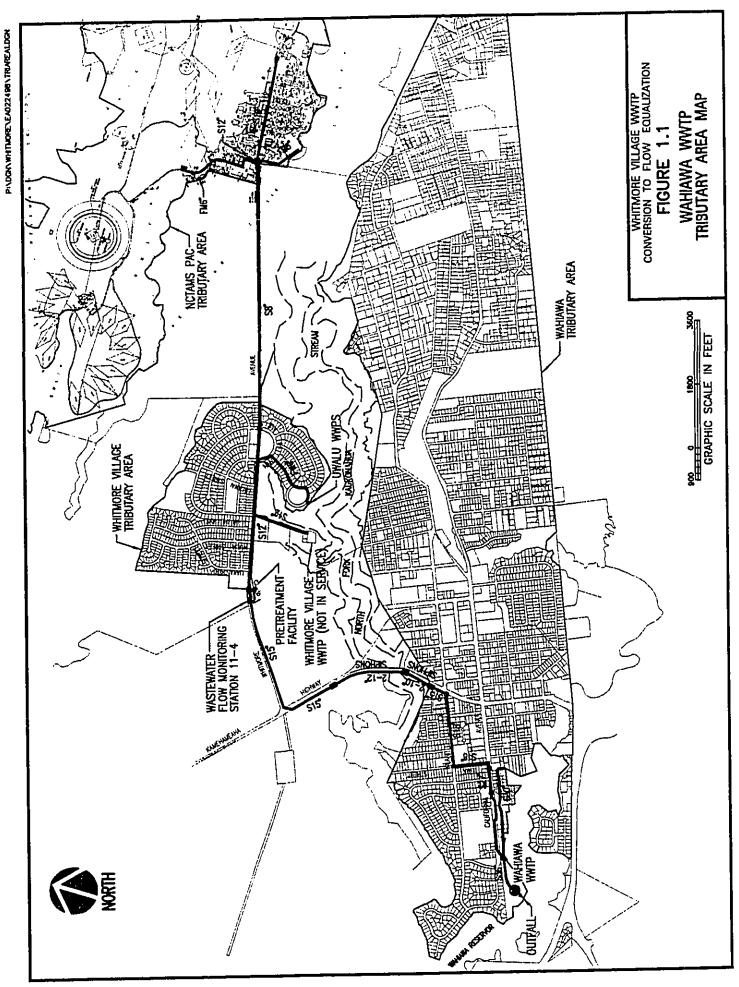
The Whitmore Village WWTP served Whitmore Village, a plantation town of approximately 4,000 capita, until its closure in March 1994 when wastewater flows were routed directly to the Wahiawa WWTP.

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.

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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

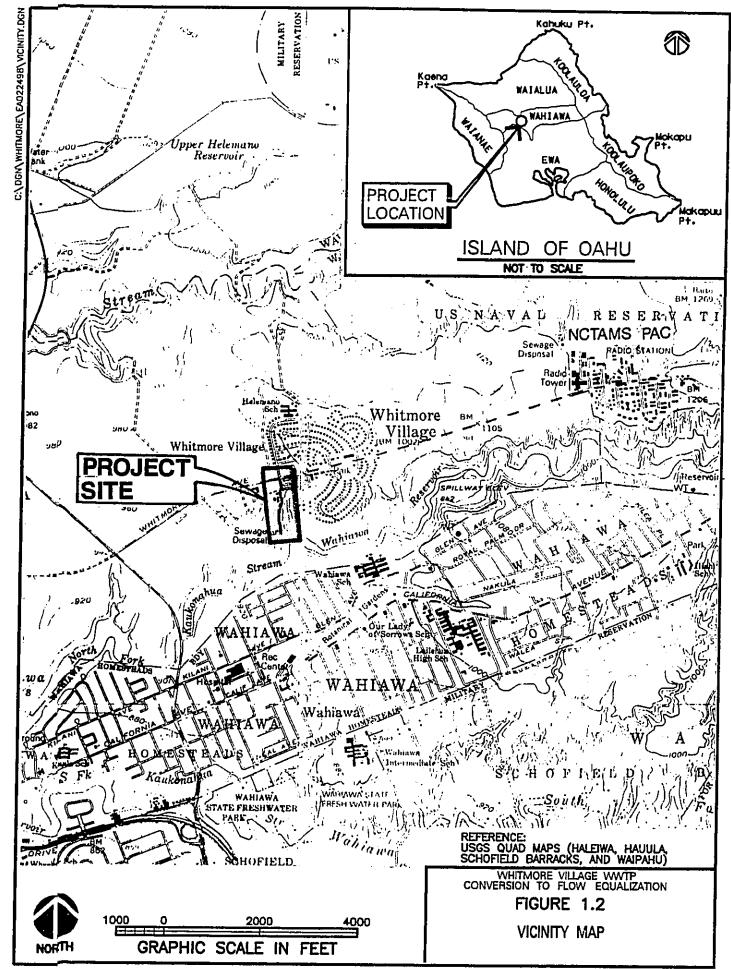
The residential community of Whitmore Village encompasses approximately 393 acres. According to the 1990 census, Whitmore Village includes approximately 850 residential units and about 4,000 residents. The newest homes were built in 1988 within the Kahi Kani Subdivision, located on the southern side 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.

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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.

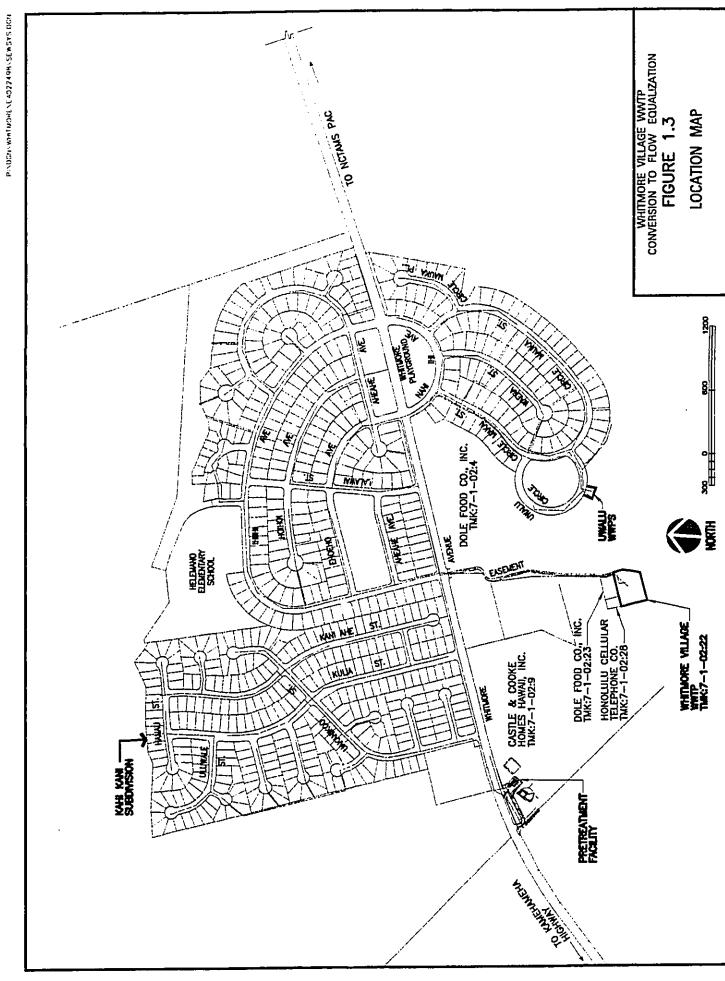
Refer to Figure 1.3 for the location of these parcels.

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.

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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.

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TABLE 1

PERMITS AND APPROVALS

AGENCY	PERMIT/APPROVAL
State of Hawaii Department of Health	 Variance From Pollution Controls Noncovered Source Permit NPDES Permit (Hydrotesting) Construction plan approval
State of Hawaii Department of Transportation	Construction plan approval
City & County of Honolulu Department of Planning and Permitting	 Building Permit for Building, Electrical, Plumbing, Sidewalk/Driveway and Demolition Work Grubbing, Grading and Stockpiling Permit Special Use Permit in the State Agricultural District Development Plan Amendment (public facilities map) Construction plan approval

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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 overfilling of tanks. Liquid levels will be transmitted via telemetry to Wahiawa WWTP.

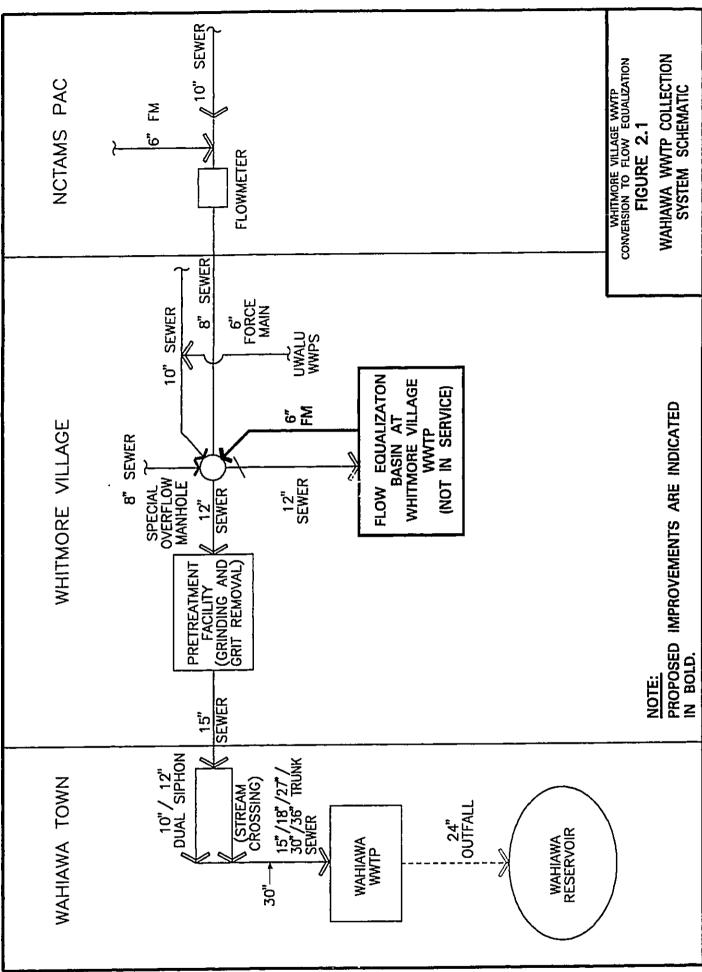
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 Retrofit of the existing 70 KW LPG fueled emergency power generator system with an automatic transfer switch. The generator will provide standby power to operate return pumps, telemetering functions and the automatic diversion value at Whitmore Avenue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

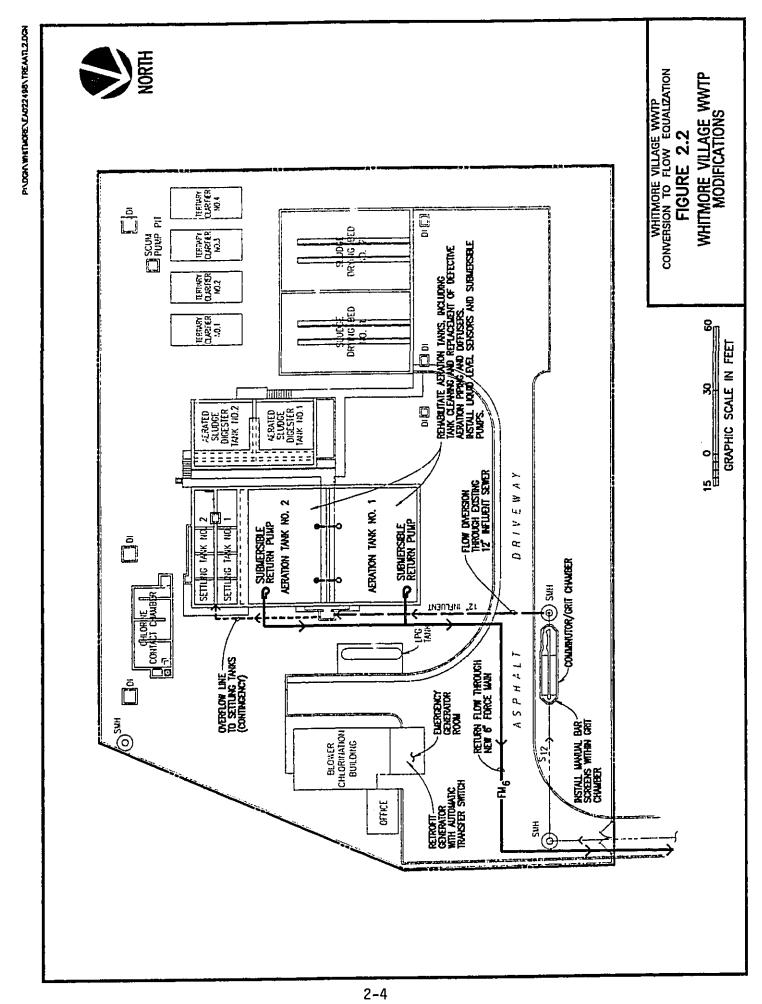
2.1.3 Whitmore Village Pretreatment Facility Modifications

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

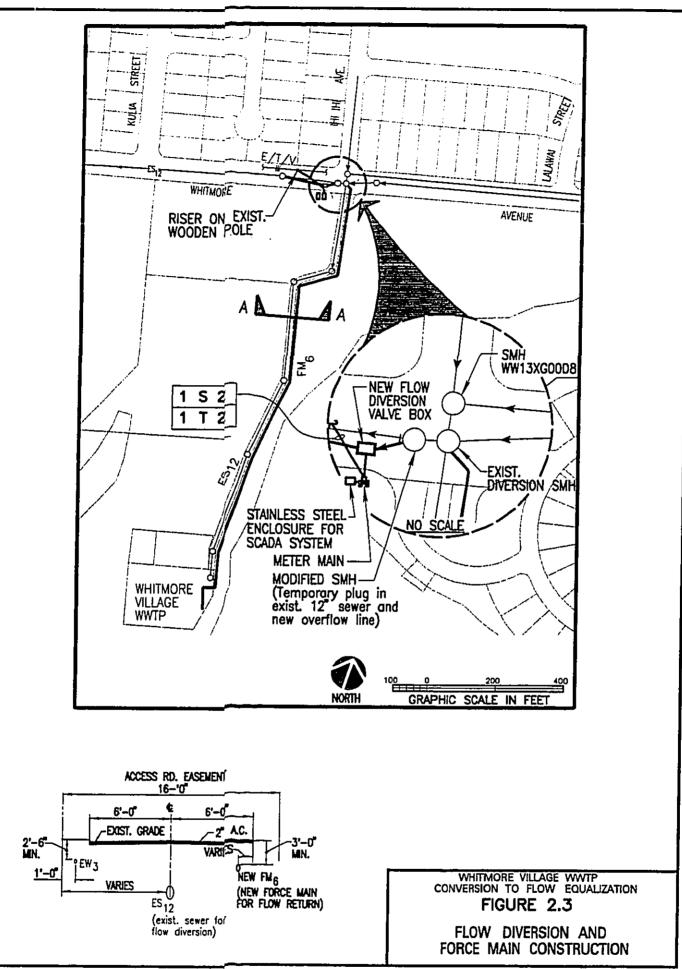
- Installation of an open channel type sewer flow meter with indicator and recorder is proposed at the Whitmore Village Pretreatment Facility. Readings will be transmitted via telemetry to the Wahiawa WWTP. The sewer flow meter will provide real time, continuous readings of Whitmore Village and NCTAMS 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.

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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 Ihiihi 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.

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Final EA - Whitmore Village WWTP Conversion to Flow Equalization

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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.

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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.

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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

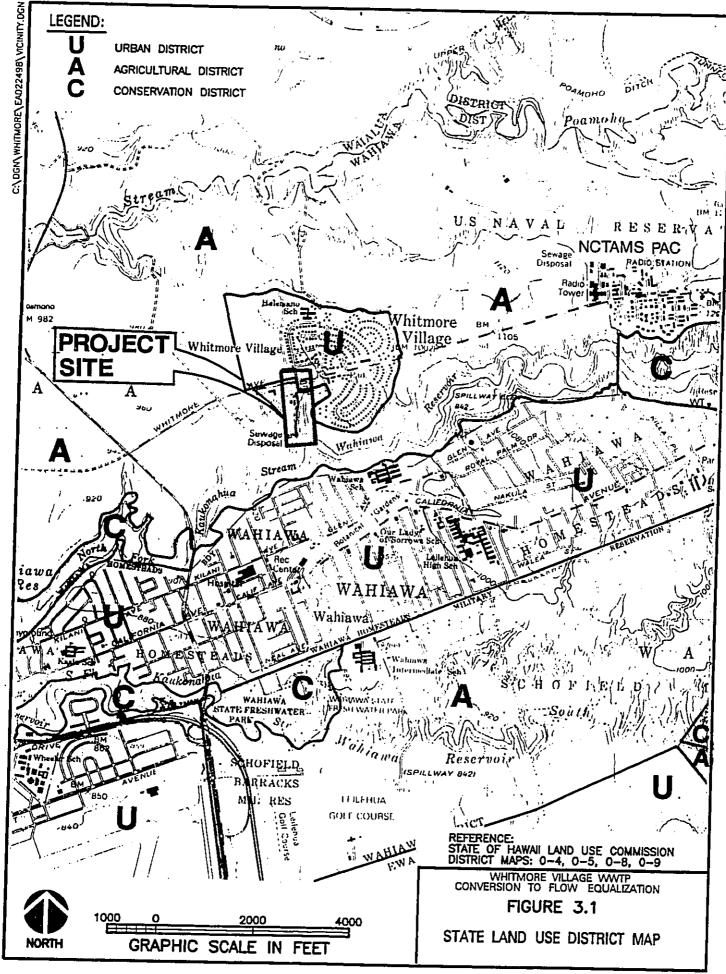
The Whitmore Village WWTP site is located immediately east of an area which was addressed in a noise impact study by Darby & Associates, prepared for the Galbraith Trust Estate Wahiawa Lands Development Final EIS in April 1993. The EIS addressed approximately 880 acres of Galbraith Trust lands, generally 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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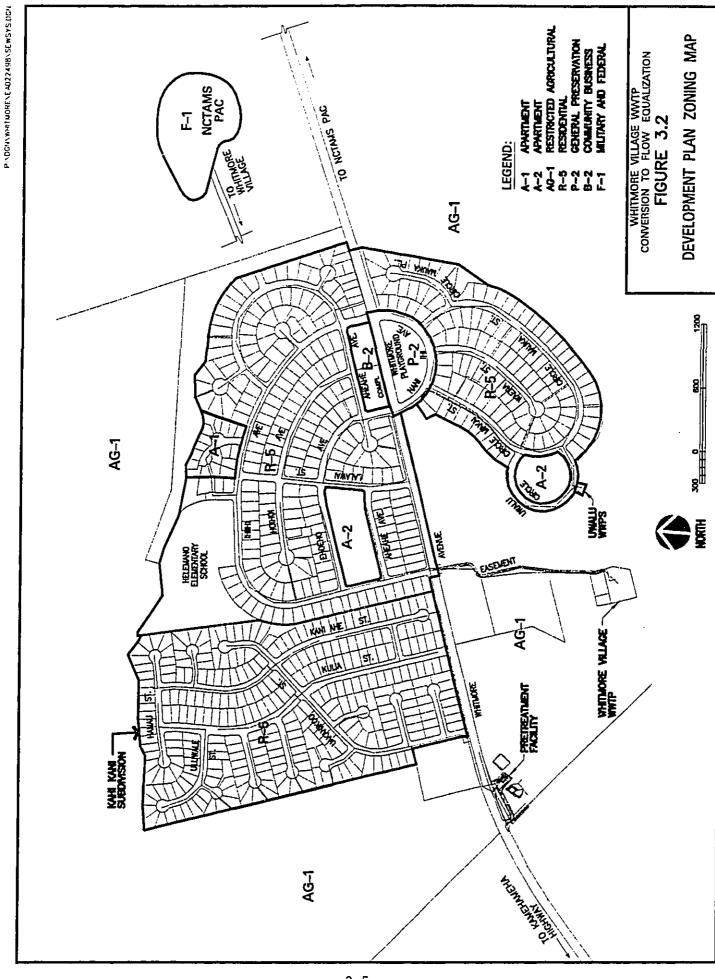
Final EA - Whitmore Village WWTP Conversion to Flow Equalization

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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

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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.

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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 repaying 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.

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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 archaeologic 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

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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

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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

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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.

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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 Ihiihi 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.

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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.

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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.

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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

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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 involves 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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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:

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- 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

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Final EA - Whitmore Village WWTP Conversion to Flow Equalization

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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 ŧ

- 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 Waialua Public Library

COMMENTS ON THE DRAFT EA 7.3

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

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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.

Hawaii State, Department of Health, *Hawaii Administrative Rules*, "Chapter 42: Vehicular Noise Control for Oahu", October 24, 1981.

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Helber Hastert & Fee, Planners, Galbraith Trust Estate Wahiawa Lands Development, Wahiawa District, Oahu, Hawaii, Final Environmental Impact Statement, prepared for Hawaiian Trust Company, Ltd., April 1993.

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APPENDIX A

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

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C.N. 1858-00F March 8, 1998

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Wahlawa, Oahu, Hawall TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) to Equalization Basin Whitmore Village

Revised Phase I Environmental Site Assessment

Whitmore Village WWTP Conversion

PREPARED FOR:

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

Prepared By:

Edward K. Noda and Associates, Inc. 615 Pakoi Street Suite 300 Honolutu, Hawaii 96814-3116 JY J 1

Project No. 1858-00F Revised March 1998

Whitmore Village WWTP Conversion to Equalization Basin Revised Phase i Environmental Site Assessment TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) Wahlawa, Oahu, Hawail 96786 Whitmore Village

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 Part (WWTP); a proposed extension on the north side of the WWTP; an estociated preteatment facility (PTF) on Whitmore Avenue; a proposed access mad which will Whitmore Avenue located in the Whitmore Avenue; a proposed access mad which will Whitmore Avenue located in the Whitmore Village atea north of the town of Wahlawa. Oahu, thewall and is identified as TMK: (1) 7-1.02: 22, 23, 04 (por.) and 09 (por.) (described herein as of Engineering Concepts, Inc., 250 Ward Avenue, Suite 206, Honolubu, Hewall, 96814 for specific application to the subject wastewater project. This assessment was conducted in support of basin, construction of a new access mod on distallation 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 morth 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 Vacore area north of the form 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.

Al present, the WWTP is occupied by a main structure which housed the office, laboratory, Emergency Generator Room (the emergency generator is propare powered) and a Blower Chiorhator. There are also numerous concrete tanks and holding basins throughout the WWTP area. Some tanks are currently half-filled with wate

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 prineapple field and the proposed pipe slignment 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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- past presence of underground fuel storage tanks (USTs) on the Site (e.g., vent pipes, 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
- 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 fight fodures, which may contain small amounts of PCB in their ballasts, in the main WWTP building. Fluorescent fotures are not considered to be a significant source of PCB. ٠
 - The surrounding area is predominantly apricuttural, e.g., pineapple, and residential. Potential sources of contamination could be spills and releases of chemicals (i.e., insociodes, 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 Stie during past usage.
- A review of federal databases indicated one (1) facility, within a one (1) mile radius from the Site, has been classfred by the U.S. Environmental Protection Agency (EPA) as a National Priorities Site (NPL or "Superfund" site). This facility is the Navel 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. ٠
 - A review of the state leaking underground storage tank database indicated one (1) facility, within an one-half (3) mile radius from the Site, has reported a release or leak from underground storage tasks (LUST) to the Hawail Department of Health (DOH). Additional investigation of this facility indicated that although the UST owner's address is within % 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, drywalt with associated joint compound, vinyi floor tiles with associated mastic and sink undercoat in the office/aboratory area.

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The existing structures on the WWTP and PTF portion of the assessed property are at least fitteen 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 undertain by LCP.

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

No apparent environmentaly 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 substancelwaste contamination at the property.

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 There was no direct evidence that subsurface contaminants from nearby facilities have migrated to the solts 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/demotition activities, potential materials containing ACM and/or LCP that would be impected by these activities should be surreyed 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.

Phase I Environmental Site Assessment Whitmore Village WWTP Conversion to Equalization Basin Whitmore Village Wahlaws, Oahu, Hawali 96786 TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.)

1.0 Introduction

A Phase I Environmental Site Assessment (ESA) was conducted by Edward K. Noda and Associaties, Inc. (EKNA), of the subject project site which includes: the Whitmore Vilage Wastawater Treatment Plant (WWTP); a proposed actension on the north side of the WWTP; an associated pretreatment faciny (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 which will connect the WWTP and PTF; and, a proposed pipe alignment along the existing 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 Wahlawa, Qahu, Hawaii and is identified as TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) (described herein as the "Sita" or the "assessed property"). This work was performed at the request, and for the use of Engineering Concepts, Inc., 250 Ward Avenue, Suita 200, Honoludu, Hawai, 90814 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 bash, construction of a new access road and instaliation of new server lines.

1.1 Purpose

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

1.2 Involved Parties

The involved parties for this assessment are:

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

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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 lasks: 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 Hawail 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 Hawai State Department of Health (DOH) documents and maps for perlinent 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 malerial contamination, such as petroleum products, electrical transformers containing polychiorinated biphenyis (PCBs), and underground fuel storage tanks.

2.0 General Site Characteristics

2.1 Stie Location

The Site is structed in the central portion of the island of Oahu, Hawall to the north of the town of Wahlawa. The WWTP is physically situated approximately 1% miles to the east

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of Kamehameha Highway, south of Whitmore Avenue, approximately 500 feet to the north of Lake Witson's North Fork and approximately 300 feet to the west of Uwaiu Circle. The PTF is physically situated on Whitmore Avenue, approximately 250 feet to the sast 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 alle 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 ft² extension on the north side of the plant, the existing pretreatment facting (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, Hewai and is legally identified as TMK: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) (Figure 2). The WWTP site is approximately 60% asphalt paved with concrete sidewakes aurrounding the building and some tanks. An asphalt paved driveway occupies epproximately 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 tail 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 stightly 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 fating on the site either Infitrates Into the ground or flows into any of the onsite drain intels which discharge into Lake Wiscon. The nearest surface water course is the North Fork of Lake Wiscon, approximately 500 feet to the sourth.

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

3.2 Soll Conditions

The surface soils on the Site have been classified by the U.S. Department of Agricutture as Kolekole Sity Clay Loam (KuD) (Figure 4). These well drahed 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 sroshon hazard.

3.3 Geologic Conditions

The island of Oahu is composed largely of the weathered remnants of two (2) extinct shield volcanoes - Walanae and Koolau. The younger shield, Koolau, was built by the extrusion of lavas of the Koolau Volcantc Series and forms the majority of the southsoutheastern two-thirds (14) of the island. After the cessation of Waianae's shield building activity, lave flows from Koolau continued to bank against Waianae's eastern flank forming a broad plateau between the two (2) volcances. This plateau is referred to as the Schofeld Plateau, consisting of a thick sequence of residual sols and sepretite over the parant rock.

The Site is situated on the Scholield Plateau where the majority of the soils surrounding the stile consists of reddish-brown sity clay. The base of the stratigraphic section is the Koolau Basaite.

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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 dinking water purposes. According to the University of Hawai Water Resources Research Center Technical Report 8178 for Oahu (Mink & Lau, 1890), 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. 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, overhyng 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 Wahiawa High Level aquifier system.

According to the aquifier dassification system in the WRRC report, the Site overlies a high level frash water aquifer as shown in Table 1. The utility of the ground water in the region is classified as a diriving water source from this aquifer. Based on the DOH Underground Injection Control Maps for Halehwa (O-4). Hauuta (O-8), Schoffeid Barracks (O-5) and Walpahu (O-9), there is one (1) known public drinking water supply well within an one (1) mäe 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	Wahiawa High Level Acuitar
Aquifer Code	30501212
island Code	3. Oahu
Aquifer Sector	05 - Central
Aquifer System	01 - Wahiawa
Aquiter Type, hydrogeology	2 - High Level
Aquiter Condition	1 - Unconfined
Aquifer Type, geology	2 - Dike
Status Code	1111
Development Stage	1 - Currently Lisad
Utity	1 - Drinking
Salinity (in mp/L Ci)	1 - Fresh (<250)
Uniqueness	1 - treplaceable
Vutnerability to Contamination	1. High

Results of Investigation **9**

Site Inspection Observations Ş

On January 29, 1999, 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 lotal of approximately 2.1 acres of land in the Whilmore Village area north of the fown of Wahiswa, Oahu, Hawali. 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

There are also numerous concrete	C.N. 1858-00F March 9, 1998	පින්ත ර
Propane powered) and a Blower Chlorinator. There are also numerous concrete	Witimore Vilope WWTP Convertion to Equatration Beach Witimore Vilope	THPC (1) 7-1-02: 22, 24 (por.) and 09 (por.)

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

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- Three (3) on-site, utility pole mounted electrical transformers, which are considered electrical transformers on an adjacent property just north of the wastewater pump to be a potential source of polychlorinated biphenyls (PCB), ware observed in the southern portion of the WWTP area. There were also, three (3) pole mounted station. According to Mr. Mike Choy of Hawallan Electric Company (HECO), these transformers are not considered to be PCB containing equipment. There were in the main WWTP building. Fluorescent fixtures are not considered to be a fluorescent Eght fatures, which may contain smell amounts of PCB in their ballasts,
- The surrounding area is predominantly equicultural, e.g., pinespple, and residential. Potential sources of contamination could be splits and releases of chemicals (i.e., insecticides, harbicides, etc.) used at the adjacent pineapple plantation and/or disinfectants, etc.). These sources of contamination may have been present at the chemicals praviously used at the WMTP and/or at the PTF (i.e., chlorine, Site during past usage. •
- The site survey indicated the presence of suspect asbestos containing materials (ACM) such as ceiling panels, drywall with essociated joint compound, vinyl floor tiles with associated mastic and sink undercoat in the officariaboratory area. ٠

he assassed property	CN 185500 to CN 185500F	
 The existing structures on the WWTP and PTF portion of the assessed property are at least ten years old. Due to the and of the structure. 	Phase I Endonmental Ste Attestment Whitmore Vision WHYTP Conversion to Equalitation Basin Whitmore Vision	Watterne, Canu, Humel Turc (1) 7-1-02: 22, 21, 04 (par) and 08 (par)

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

4.2 Results of Regulatory Agency List Review and File Research

Research was undertaken to identity off-stite 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-haif (%) mile radius from the Site, has reported a release or leak from underground storage tanks (LUST) to the Hawall Department of Heatth (DOH). DOH records indicate that clearup is ongoing at this facility. Additional investigation of this facility indicated that although the UST owner's address is within % mile of the Site, the actual UST is located more than one (1) mile from the Site. This actual facility is situated impeds to the soft ground water beneath the Site.

- Dole Wahiawa Plantation
 1116 Whitmore Avenue
 Wahiawa, HI 96783
 Anseror IDar, P.100756
- Apency ID#: 8-100758 Cese Status: Confirmed Release/Cleanup in Progress

With the exception of the Dole Wahiawa Planlation, 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 (5) mile radius from the assessed property.

A raviow 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. Navai Computer Telecommunications Master Station (NCTAMS) Eastern Pacific Wahlawa, HI 98766 Agency ID#: HI0170090054 NPL Status: Currently On Final NPL

Pieze I Environmental Ste Assessment Matimore Valge WW1P Conversion to Equisitation Bash Matimore Valge WW1P Conversion to Equisitation Bash Matimore Valge Matter Calve, Hannal Table (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.)

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 ERVIRONMENTAL DATABASES WITHIN ONE (1) MILE RADIUS OF THE ASSESSED PROPERTIES FEDERALSTATE ENVIRONMENTAL DATABASE FACIL US EPA National Priorities List (NPU) 1 US EPA National Priorities List (NPU) 7 US EPA Resource Conservation & Recovery Act ³ (RCRA) 7 Hawaii Department of Health UST List 3 Hawaii Department of Health UST List 3 Hawaii Department of Health UST List 3 Hawaii Department of Health Solid Weate Facilities ¹ 0 Markin Department of Health Solid Weate Facilities ¹ 0 Markin Department of Health Solid Weate Facilities ¹ 0 Markin Department of Health Solid Weate Facilities ¹ 0 Markin Department of Health Solid Weate Facilities ¹ 0 Markin Department of Health Solid Weate Facilities ¹ 0 Markin Department of Health Solid Weate Facilities ¹ 0 <td< th=""><th></th><th></th><th></th></td<>			
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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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	restel Envoluente Ste Assettment	Mathematic value WWIP Conversion to Equalization Basin Mathematication Basin	Wallens Oaks Hand	THIC (1) 7-1-02 22 21 01 (per) and no (mu)

3 Of (par.) and 09 (par.)

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

TABLE JA: PROPERTY OWNER	TABLE 3A: PROPERTY OWNERSHIP HISTORY: TMK/11 7.4-02: 04
DATES	OWNER (F) = Fee, (L) = Lessee
Prior to 1939	Gussie Hoft (F), Walalua Agriculture Co., Ltd. (F), Anita T. Subbard (F)
1939 to December 1944	Arma Arpomercy (F), Elizabeth K., George E., Nelson T., and Edward V. Richardson (F); Hawallan Pineappie Co., Lud. (F)
December 1844 to October 1945	Weislue 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	Cestle and Cooke, Inc. (F)
TABLE 3B: PROPERTY OWNER	TABLE 3B: PROPERTY OWNERSHIP HISTORY: THK(1) 7-1-02: 09
DATES	OWNER (F) = Fee, (L) = Lassee
Prior to 1948	Walalua Agriculture Co., Lid. (F)
October 1946 to 1954	Hawalian Pineappie Co., Ltd. (F)
1854 to 1980	Dole Corp. (F) changed to Castle and Cooke, Inc. (F)
1963	Portion of property dropped into 7102-04
1968 to Present	Dole Food Co., Inc. (F)
TABLE 3C: PROPERTY OWNED	IABLE 3C: PROPERTY OWNEDGUID VICTORY, TIVVILLE 1.
DATES	
Prior to October 22, 1969	Catle and Cooks 114 (5)
October 22. 1049 to Present	Cesare and Course Line. (r)
	Lety and Country of Honolulu (F)
I ABLE JU: PROPERTY OWNERSHIP HISTORY: TMK(1) 7-1-02: 23	:HIP HISTORY: TMK(1) 7-1-02: 23
DATES	OWNER (F) = Fee, (L) = Lesses
Prior to August 4, 1970	Cestle and Cooke, Ltd. (F)
August 4, 1970 to October 13, 1992	Hawalian Electric Company (F)
October 13, 1992 to Present	Dole Food Co., Inc. (F)
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r rese r currentmente de Assestment Millimore Villege WWTP Conversion to Equalization Basin Millimore Villege	C.N. 1859-00F March 9, 1908
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4.4	No providence a contra-

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

Conclusions and Recommendations 5.0

in view of the above, and based on a review of available information, the fotlowing 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:

- lead paint inspectors. If ACMs and/or LCPs are present, they should be absted and disposed of, by licensed trained asbestos and/or lead paint abatement contractors, in Prior to renovation/demotition activities, potential materials containing ACM and/or LCP that would be impacted by these activities should be surveyed by carified asbestos and accordance with plans and specifications based on all applicable laws and regulations.
- Limitations and Conditions 6.0

presence or absence of suspected environmental contaminants at the investigated site, it should and recommendations presented herein are based solely upon research of avaitable information 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 Although this Phase I Environmental Stie Assessment provides information on the relative be recognized that, unless otherwise specified in the scope of work, the information, conclusions and visual observations made at the sile and in its vicinity. Adverse environmental conditions of contamination.

C.N. 1858-00F March 8, 1998	Page 11
Phase I Embormenta Ste Assessment Millimoe Viago WWTP Conversion to Equatration Bash Millimoe Viago Mahana, Caku, Hawai	f (por.) and 09 (por.)
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The Information set forth is based solety on the agreed upon scope of services. The presence of target metarials or substances and such limited testing should <u>not</u> be construed to be a complete survey or investigation to identify the full extent of such materials which may be present within the essessed site. Due to the fimited nature of any such sampling and tasting which may have been subsurface contamination, esbestos containing matariais, lead-based paints, radioactiva materiais, and biological hazards were not specifically investigated, unless otherwise specified in the scope of work. If samping and testing efforts were conducted as part of this assessment, these efforts ware based on an agreed upon scope and should be considered to be limited in nature. The intant of such Emiled sampling and testing has been to provide a basic level of acreening for the conducted, there is a possibility thei not all of the target materials or substances were identified or quantified.

absolutely dismiss the possibility of sile 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 contamutication which might be interpreted as establishing the total extant of all liability present Given the often obscure and elusive nature of hazardous substances, it is never possible to 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.

Delange W. M. - Ching Geologist Charles Erron Environmental Physicist Charles G. Brown

Deyton E. Fraim, 9.E.

Senior Engineering Geologist

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- Underground Storage Tank Section, List of Underground Storage Tank State of Hawail, Department of Health, Solid & Hazardous Wasta Branch, Releases (LUST) 7/87. ÷
- U.S. Environmental Protection Agency, CERCUS Listing, 7/97, ŝ
- U.S. Environmental Protection Agency, RCRA-CORRACTS Listing, 8/97. ත්
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- U.S. Envronmental Protection Agency, National Priorities Ust (NPL), 4/97. œ
- U.S. Environmental Protection Agency, RCRA Facility Listing (RCRIS)(RCRA-SmGen, RCRA-LgGen and RCRA-TSD), 897. œ,
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C.H. 1858-00F March 9, 1998 Page 13 Piese I Endromeria Sie Assessment Whitmore Villope WHTP Convertion to Equalization Basin Whitmore Villope Whitmore Villope Whitmore Catu, Huwai Thire (1) 7-1-02: 22, 23, 04 (por.) and 00 (por.)

- 7.2 Map and Other Geographical References
- U.S. Geological Survey, "Haleiwa, Hauria, Schoffeld Barracie and Waipahu Quadrangles", 7.5 Minute Series, Topographic Map, 1981. ÷---

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- Department of Health, State of Hawail, "Underground Injection Control Mape, Haiewa (O-4), Haudia (O-8), Schoffeld Barracks (O-5) and Waipahu (O-9) Quadrangles, 1984. ų
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Appendix A - Figures

Figure 5 - Underground Injection ControlWater Well Map Figure 3B - Site Plan: Preliminary Treatment Facility Figure 3A - Site Plan: Wastewater Treatment Plant Figure 4 - Soil Classification Map Figure 1 - Location Map Figure 2 - Tax Map Key

> C.N. 1858-00F March 8, 1998 Phase I Endormatia Sta Atsatement Hildmon Villop WVITP Conversion to Equatedon Bash Hildmone Villop WVITP Conversion to Equatedon Bash Hildmone Villop Hannel Halfe (1) 7-1-02: 22, 23, 04 (por) and 08 (por)

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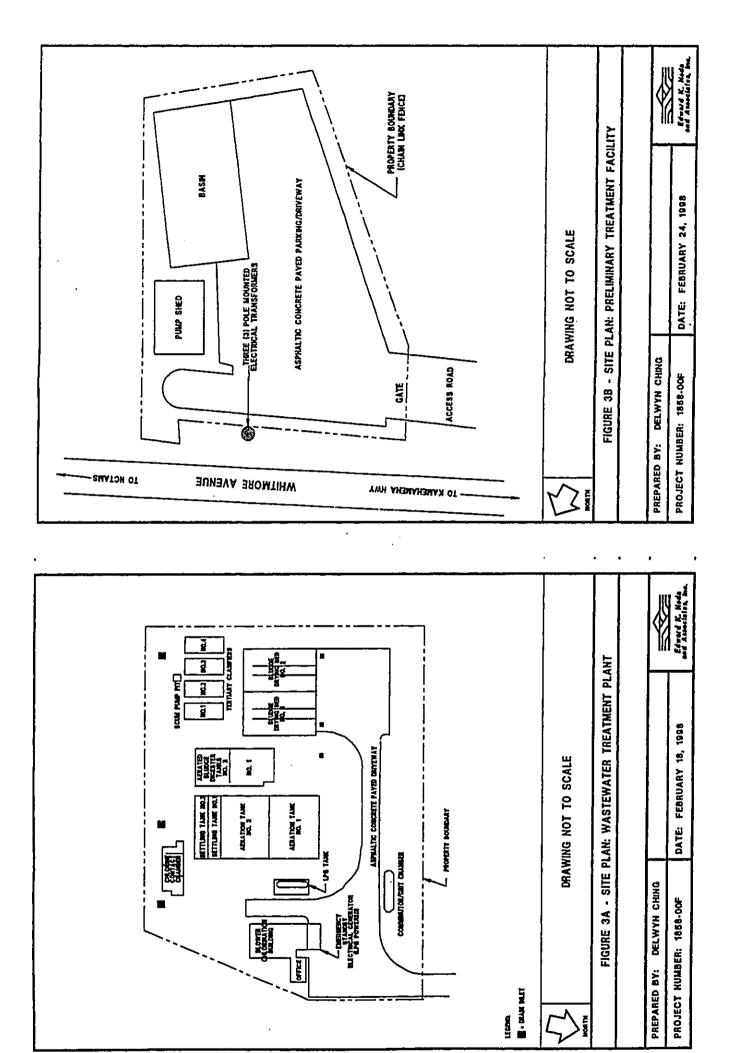
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Edward K. Noda and Associates, Inc. 22, 23, 04 (por.) and 09 (por.) REFERENCE: C&C of Honolulu, Real Property Tax Division. Tax Maps For TMX: (1) 7-1-02: 22, 23, 04 (por.) and 09 (por.) © 1997, Experian Information Solutions, Inc. בים ערבי בישורים Ų i U U U ů. تل م 3 [\$553) 2 HOHE DHO 970 (Sec Below O PROPOSED PIPE ALIGNMENT 8 ŝ I FIRST TAXATION DISTRICT 記言が FIGURE 2 - TMK LOCATION MAP NAW: PRELIMINARY TREATMENT FACILITY SEMARON -り て こ APPROXIMATE SCALE IN FEET DATE: FEBRUARY 6, 1998 Honoli 2014 ,007 [2] រុស 250 PROPOSED ACCESS ROAD יאינאאציאן איי 8 2 0 Telephone Company. N N ----250 125 200 / 1.11 ~ PREPARED BY: DELWYN CHING PROJECT NUMBER: 1858-00F 01 26 1 NORTH ÷ Edward K. Noda and Associator, Inc. REFERENCE: USGS "Haleiwa, Schofield Barracke, Hauula and Waipahu Quadranglea", 7.5 Minute Series, Topographic Maps, 1981 8 ₹ PROJECT LOCATION DATE: FEBRUARY 8. 1998 APPROXIMATE SCALE IN FEET FIGURE 1 - LOCATION MAP 2,000 1/2 MILE Щ И И 1/4 MILE No. of the second se 0 , VIII-2,000 1,000 日本派 જુ PREPARED BY: DELWYN CHING PROJECT LOCATION PROJECT NUMBER: 1858-00F 5 OWHU HONOLULU -Wehies 3 ſ A A -| |

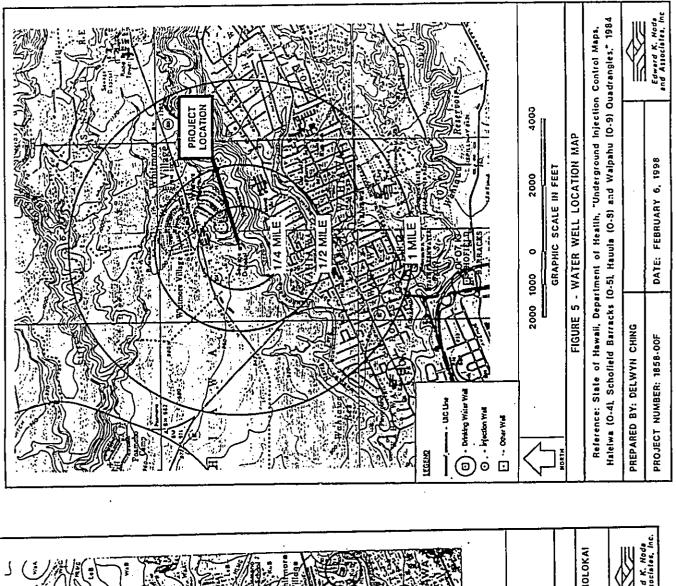


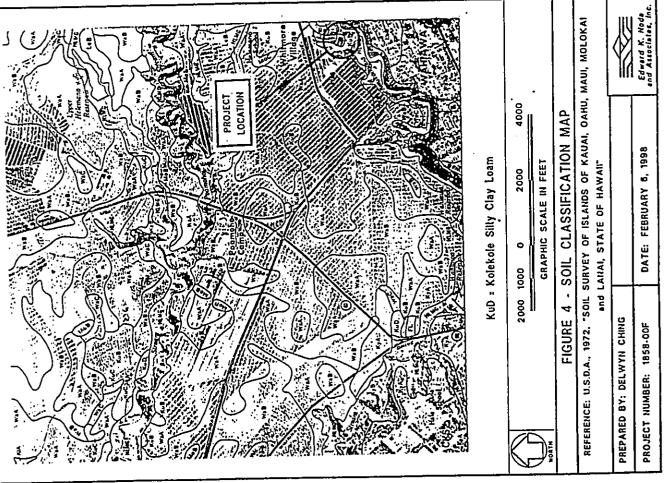
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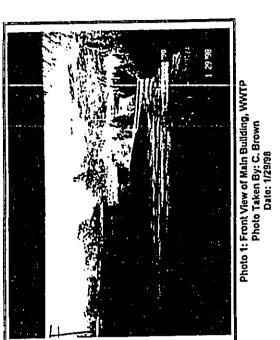
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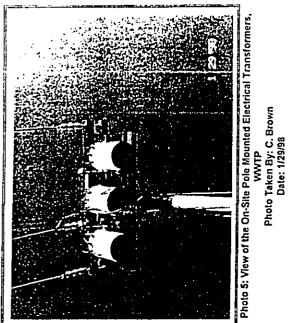
Appendix B - Site Photographs



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

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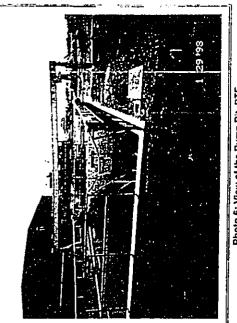


Photo 6: View of the Pump Pit, PTF Photo Taken By: C. Brown Date: 1/29/58

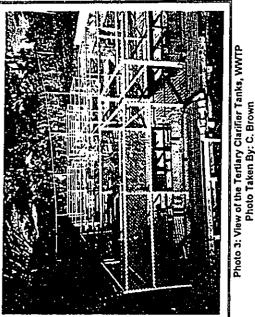


Photo 3: View of the Tertiary Clarifier Tanks, WWTP Photo Taken By: C. Brown Date: 1/29/98

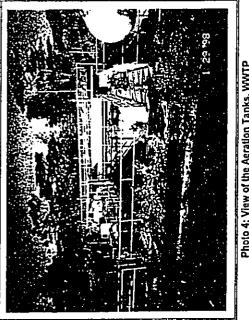
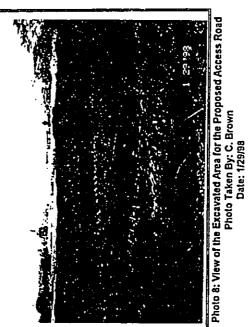


Photo 4: View of the Aeration Tanks, WWTP Photo Taken By: C. Brown Date: 1/29/98



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



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Appendix C - Vista Information Solutions Site Assessment Report

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(ALL DATABASES SEARCHED TO 1 MILE) SITE ASSESSMENT PLUS REPORT

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US EPA	8	Toxic Release Inventory database	0	0	•	•
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D) Databas	D) Databases searched to 1 mile:	.o 1 mile:				
NS EPA	ERNS	Emergency Response Notification System of spats	0	-	¢	¢
US EPA	GNRTR	RCRA registered small or large generators of hazardous waste	0	.	-	
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Iths report meets the ASIM standard E-1527 for standard federal and state government database research in a Phase I environmental site assessment. A (-) indicates a d stance not searched because a esceeds these ASIM search parameters.

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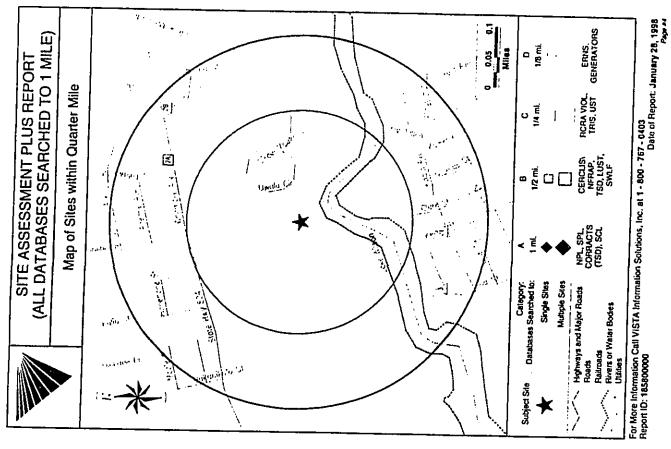


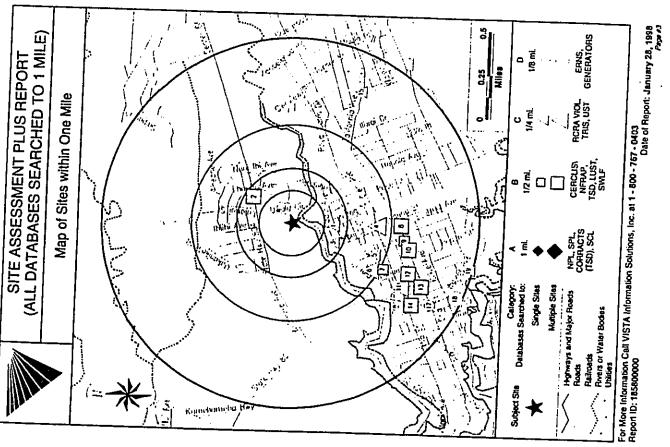
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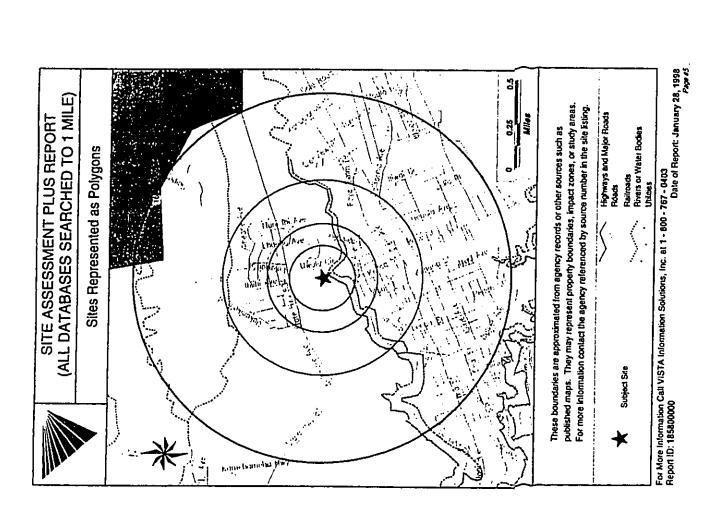
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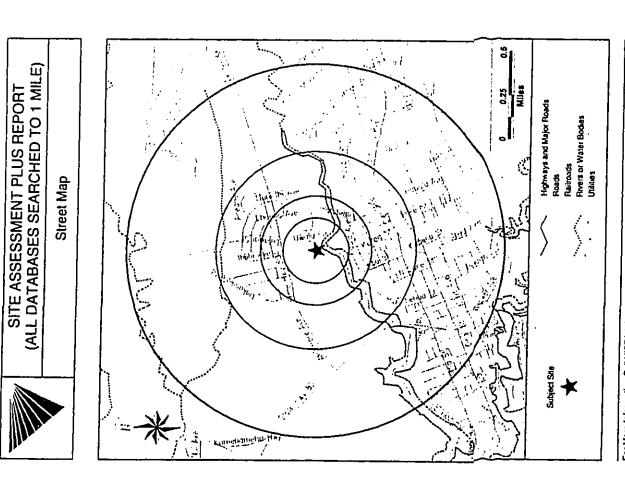




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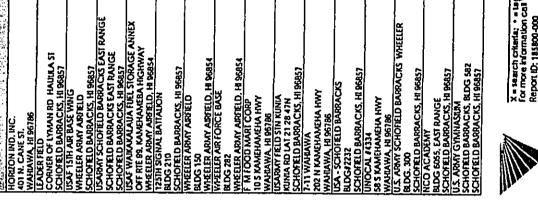
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SITE ASSESSMENT PLUS REP LL DATABASES SEARCHED TC	DETAILS
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Falls IN THE SURROUTIONIG AREA (MAIN 1/8 - 1/4 mlb) CONT

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	MSIA, T., PIONEE Adams, 215 KEI 215 KEI 215 KEI 215 KEI 216 HATHAN 200 Address: Agency Address: Inderground Tanks	Aboveground Tanks: Fanis Removed:	ŝ	Tank Contants:	fank Age:	fank Size (Uniu):	ä	erit:	Tank Age:	Tank Ste (Units):	ġ	Tank Contents	Tank Age:	Tark Size (Units):	ġ	ank Contents:	Tank Age:	lank Siza (Units):	ä	Tank Contents	Tank Age:	Tark Size (Units):
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Youw 1116	1116 WHIMORE AVE		Distance/Direction Plotted as	
	WA, HI 96786	SATZATA WAHIAWA, HI 96786 SATZATATA SATATA		0
Agency Address:				
Tank Statur:		NOI AVALARI		
Discovery Date:		MONTHERE 1, 1948		
Media Affected:		NOI AVALARE		
Substance:		MOTAVALABLE		
leak Cause:		UNAVALABLE		
Leak Source:		NOT AVALABLE		
Remedial Action:		NOT AVALABLE		
Remedial Status 1:		COMPARD RULAU		
Remedial Status 2:		MOT AVALABLE		
Fields Not Reported:		Quently (Unit)		
STATE UST - State Unc	STATE UST - State Underground Storage Tank / SRC# 1989	< / SRC# 1989	Agency ID:	916
Agency Address:		SWE AS ABOVE		
Underground Tanks:		-		
Aboveground Tanks:	и	MOR MEPORIED		
Tanks Removed:		NOT REPORTED		
Tenk ID:	ALM'S	Tank Statut:	OUT OF STIMUS	DIVICE
Tank Contents:	GUOUN (INDICATED)	Leak Montoring:	ring: MOLAVALARE	Ĩ
Tank Age:	11	Tank Ploing:	HOT AVALABLE	JUNE
Tarix Size (Units):	1250 (GALLONG)	Tark Materiat	-	
Tank ID:	N.W.N	Tank Status:	OUT OF XTMCI	DINCE
Iank Contents:	GUOUN (MOTOTED)	Leak Montoring:	ring: NOI AVALARE	WIK
Tenk Age:	11	Tank Pipho:	NOT AVALABLE	IMIC
Tank Size (Units):	1200 (GALLONG)	Tank Materiat	at not AVALATE	Ĭ
Tank ID:	DCM-B	Tank Statur:	OUT OF STANCE	(RMCE
Tenk Contents:	DICC	Leak Monkoring:	ring: MOLAVAZABLE	IMIC
Tank Age:		Tank Piping:	MOI AVALABLE	7
Tank Size (Units):	12000 (GALLONG)	Tank Materiat	-	Ĭ
Tank ID:	A.Writ	Tank Satur	OUT OF STANCE	1 MOL
Tank Contents:	Decks	Leak Montoring:	ring: NOI AVALALI	
Tank Age:	5		NOI AVALABLE	Ĭ
Tank Size (Units):	12000 (GALLOND)	Tank Materiak	AL NOTAVALABLE	W
Tank ID:	A WSU	Tank Statut:	OUT OF STANCE	UNC
Tank Contents:	0031	Leak Montoring:	rince MOLAVALABLE	WILL
Tank Age:	a	Tank Pioho:	NOT AVALALL	Ĩ
Tenk Size (Units):	25000 (CALLONS)	Tank Materiat	EL MOLAVALARI	EVEC
Tenk ID:	R.MAU	Tank Statur	OUT OF SERVICE	UNCE
Tank Contents:		Leak Montoring:	ring: MOLAVALARI	
Tank Age:	8	Tank Piping:	HOI AVALARI	Ĩ
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• VISTA address includes enhanced city and ZIP. For more information cat VISTA information Solutions, Inc. at 1 - 600 - 787 - 0403. Report ID: 185800-000 Varian 24

	SITES IN THE SURROUNDING A	XEA (within 1/8 - 1/4	ATIS IN THE STREED HOUR AREA (WOM 1/8 - 1/4 mile) CONT.	
LACTA				
Address: ALO	A PERROLEUM		VSIA IDH PERSON 6635551 ALPRAN	
			0.23 M/ NE-2-5	50
	STATE INT VALIAWA, NJ 96/8655554575751557			5.24
Agency Address:	SPEC ADVE / WIRE all and the reserve in the second se		_	ŧ]
Underground Tanks:				
Aboveground Tanks:	ks: NOT REPORTED	071		
Tanks Removed:		OID		
Tank ID:	A1U	Tank Static	OUT OF STUCY	
Tank Contents:	GASOLINE (INCOLORIE)	Leak Monkorino:	MOI AVARABLE	
Tenk Age:	NOI REPORTED	Tank Piping:	MOI AVALABLE	
Tank Sta (Chit);	4000 (GALLOND)	Tank Materiat	MOLAVALARE	
Tark ID:	R.R.	Jank Satur	OUT OF BEAMER	
Tank Contants	GAGURE (INSPECTED)	Leak Monitoring	MOTAVALARE	
Tenk Age:	NOT REPORTED	Tank Pinne:	MOT AVARAME	
Tark Size (Units):	400 (EAUCORD	Tank Material-	MOLAVALARE	
Xedonaria WAHIAWA	252 KOA ST		113800811-1-5-64	
STATE UST - State Uni	Jantan H. WAHLAWA, HI 967867 WAY AND			
Agency Address	TANK AS ABOVE		Agency US: 1421 (9-2005)226 (0-402)	
Underground Tanks:				
Aboveground Tanks	CE NOT ACTORED	9		
Tanks Removed:	UTINCTIN ION	9		
Fank ID;		Tank Game	Office space	
Tank Contents:	DEX	last Montorho:	MOLENA REF	
Tenk Age:	2	Tank Bining.		
Tank Size (Units):	10000 (CALLONE)	Tank Musedat.		
fank IC:	R.W.70	Tank Same	Out of gener	
Tank Contents	DUCH	feet Monteries		
Tank Age:	22	Tank Blokes		
Tank Size (Units):	10000 (5441 0443)	Tunk tistadat		
Tenk ID:	N.M.Y	Test Statutes		
Tank Contents:	0630	1014 340145 1004 11-4-1-1-		
Tank Age:	2	teak montoring: Task Natasi		
Tank Size (Units):	SCOO (CALLOND)	Lark riping:		
Tank ID:	2440	lant Motoriat	MOLAVAZARE	
Tank Contents:	550	Tank Slater	OUT OF SERVICE	
fank Ane:	11	Leek Montoring:	MOLAVALAL	
Tank Sie (John):	SCOD (GALLOND	Tank Piping:	MOTAVALALE	
	Australian	<u>Yank Malariat</u>	NOT AVALABLE	

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Tank ID: Tank Contents:

Underground Tanks: Aboveground Tanks: Tanks Removed:

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Tank Age: Tank Site (Units): Tank ID: Tank Contents: Tank Site (Units): Tank Site (Units):

Tank Statur: Leak Montoring: Tank Materiat Tank Kateriat Tank Statur: Leak Montoring: Tank Materiat Tank Materiat

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Ta 1000 (GALLONG)

Tank Age: Tank Size (Units):

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DEXI

Tank ID: Tank Contents:

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STIES IN THE SURPOUNDING AREA (within 1/8 - 1/4 mile) CONT.

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MOLAVALARI

Tank Statur: Laak Monkoring: Tank Piping: Tank Materlat Tank Monkoring: Tank Materlat Tank Naterlat Tank Naterlat Tank Naterlat Tank Naterlat Tank Riping: Tank Piping: Tank Piping: Tank Piping:

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Tank Age: <u>Tank Sire (Unirs):</u> Tank ID: Tank Contents:

Tank ID: Tank Conterts:

SHOTTING CONTINUES

Tank Age: Tank Site (Units): Tank ID: Tank Contents:

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Tank Age: Tank Size (Units):

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• VISTA address includes enhanced city and ZP. For more information call VISTA information Solutions, Inc. at 1 + 800 - 767 - 0403. Report ID: 115800-000 Water 24. 19880 - 000

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	STIES IN THE SURROUNDING AREA (MANA 1/4 - 1/2 mile) CONT	A (wash 1/4 - 1/2 m	IN CONTRACTOR	
Tank ID:	a.w	Tank Status:	OUT OF SUMCE	
Tank Contents:	CANONE (MONICIER)	Leek Monkoring:	MOTAVALARE	
Tank Age:	2	Tank Piping:	NOTAVALARE	
Tank Size (Uniu):	1000 (C2411 (342)	Tank Material:	HOI AVALABLE	
Tank IC:	n-v	Tank Statur:	OUT OF SERVICE	
Tank Contants	0630	Leak Monkoring:	NOT AVALABLE	
Tank Age:	1	Tank Piping:	MOI AVALARE	
Tank Size (Units):		Tark Materiat	NOT AVALABLE	
Tank (C	1811	Tank Status	OUT OF REPACE	
Iank Contents	Ones	Leak Montoring:	NOTAVALARE	
Tank Age:	2	Tank Piping:	MOTAVALARE	
Tank Size (Units):	2500 (12411 040)	Tank Materiat	MOT AVALABLE	
Tank to:	140	Tank Statur:	OUI OF SIMCE	
Tank Contants:	122.D OK	Lesk Monttoring:	MOTAVALARE	
Tank Ane:	5	Tank Pining:	MOI AVARABLE	
			MOTAVALAR	
(Shrift State (Units);				
VISIA Adorest 1935 Kit LAST 1 WAHIA	VELAC		VGIAD/C- 451 310/01-2-2-4 400 Diserce/Dector ULX//SUFFEE	
STATE UST + State Und	RATE UST - State Underground Sprage Tank / SRC# 3909	1		-
Agency Address	BULL AND A			
Underground Tanks	~			
Above ground Tanks	R MOTATORITO	9		
Tanks Removed:	MOI REPORTED	8	-	
Tank ID:	10	Tank Status:	ACIMUMSIANCE	
Tenk Contents:	GACOME (MANCAED)	Leak Monkoring:	NOT AVALABLE	
Tank Age:	2	Tank Piping:	MOT AVALARE	
Tenk Size (Units):	500 (Childred)	Tenk Materiat	MOT AVALARE	
Tank ID:	R	Tank Staturc	ACTIVITIN SAVICE	
Tank Contents:	GASOLIME (INGINEERIED)	Leak Monitoring:	MOT AVALABLE	
Tank Age:	11	Tank Piping:	NOI AVALABLE	
Tank Size (Uniu):	SACE FEALLONS	Tank Materiat	MOT AVALAGE	
Tark D:	R	Tank Satur:	ACINEW EINCE	
Tank Contents:	GASOINE (INSPECTED)	tesk Monkoring:	NOT AVALABLE	
Tenk Age:	14	Tank Piping:	NOI AVALAILE	
Tenk Size (Units):	ROOD (GALLONG)	Tark Materiat	MOI AVAEARE	

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ddess and and vie			ance/Direction	0.42 MI / 5 2013 401
	ST WAHLAWA HI 86786 2 C			Potted as
VIE UST - State Und	STATE UST - State Undergrownd Storage Tank / SRC# 3989		Agency ID:	9-201217
Agency Address:	NON MULTING			
Underground Tanks:	-			
Aboveground Tanks:	ALC: NOT REPORTD			
Tanks Removed:	NOT REPORTED	OTHC		
Tank ID:	R-10	Tenk Status:	OUT OF SERVICE	7
Tank Contents	OPER	Leak Montoring:	NOI AVALAELE	
Tank Age:	NOI NEPONIED	Tank Pioinc:	NOTAVALARE	4
lank Size (Units):	NOT REPORTED (NOT AVALABLE)	Tarik Materiat:	MOLAVALARE	7
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STATE WAHL	VICINE WAHLAWA POUCE STATION WAT LEFT 25 1		AID/51-1224	VISIANO (2013) - 101000 VISIA VISIA
1000 NON			Poued as Arris	Port of States
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iany Age: Yook filo Alokuit.		Tank Reput.	NOT AVALARY	
			ACTINE AN STRATE	
Iark Coments:		Leax Montomig:		
Tenk Age:		Tank Piping:		-
fank Size (Units):	2000 (ביאון כאמ)	Tank Materiat	MULAVALARE	
Tank ID:	DO'N	Tank Status:	ACIMUM SUMOR	NO.
fank Contents:	GASOLINE (INSPECIFIC)	Leak Montoring:	" NOI AVALABLE	r
Tank Age:	2	Tank Piping:	MOI AVALARE	ננ
Tank Size (Units):	2000 (CTVTT CIVC)	Tenk Material:	MOT AVALABLE	2
Tank ID:	SN N SN	Tank Statum	ACTIVITIVI SERVICE	NC
Tank Contents:	GASOLINE (MAPPEOPED)	Leak Monkerher	E NOLAVALAEL	2
Tank Age:	5	Tank Pioing:	NOTAVALABLE	2

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- Visifa address includes enhanced city and žip. For more information cat Visifa information sourtons, inc. at 1 - 800 - 787 - 0403. Report ID: 185800-000 Westor 24. 183800-000

	SITES IN THE SURROUND	STILS IN THE SUBBOUNDING ABEA WANN 1/4 - 1/2 mile) CONT.	I'T MAD CONT. C. A.	
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ISTATE UST - State Und	STATE INT - State Undercround Storage Tank / SRC# 3989		Agency (D:	
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Tank Size (Units):	1000 (GALLONG)	Tank Materiat	MOLAVARABLE	
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Above or ound Tanks:		NOT MEPORIED		
Tanks Removed:	-	NOT REPORTED		
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SITES IN THE SURROUNDING AREA (within 1/2 • 1 mile)

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Tank 10:

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Anancy Address	ALL			
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Tanks Removed:		NOT REPORTED		
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Tank Age:	R	Tank Piping:	NOT AVALANCE	
Tank Size (Units):	Directions) of	Tank Materiat	MOT AVALABLE	
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Tank Contents:	ONCE	Leek Montaring:	NOT AVALABLE	
Tank Age:	R	Tank Piping:	MOT AVALARE	
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Tank Contents	ONCH	Leak Monkoring:	NOT AVALABLE	
fank Age:	R	Tank Piping:	NOT AVALABLE	
Tank Size (Units):	20 (CALCONS)	Tank Materiat	NOT AVALABLE	
Tark IC:	2	Tank Status:	ACINEW SERVICE	
Tank Contents	GALOUNE [INSVICATO]	Leak Monkoring:	NOT AVACABLE	
Tank Age:	2	Tank Piping:	NOTAVALARE	
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Tank Age:	2	Tank Piping:	MOI AVALARE	
Tark Sta (Units):	Devo loval accel	Tank Materiat	HOT AVALABLE	
Tank ID:	2	Tank Status:	ACTIVE W SERVER	
Tank Contents:	GASOME (MONCOTED)	Lesk Monitoring:	HOT AVALABLE	
Tank Age:	2	Tank Piping:	NOT AVALABLE	
Tank Size (Units):	1000 (CALLOND)	Tank Materiat	MOT AVALABLE	
Tank (D:	45	Tank Status:	ACTIVITIN SURVICE	
Tank Contents:	10200	Leak Monitoring:	HOT AVALABLE	
Tank Age:	2	Tank Piping:	NOI AVALARI	
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Generation Class: Generation State Not and Amount fue than 100 tg Amount of non source) STATE LUST - State Learling Underground Storage Tank / Stoca 31990 Agency ID: 9-200030 Agency Address: Based Anti Agency Address: Based Anti Agency Date: Based Anti Inter Status: Based Anti Media Affected: Boot Anti Affect Substance: Based Anti Leark Source: Based Anti Remedial Status 2: Boot Anti-Remedial Status 2: Boot Anti-Remedial Status 2: Boot Anti-Remedial Status 2: Boot Anti-Remedial Status 2: Boot Anti-Based Source: Based Remedial Status 2: Boot Anti-Remedial Status 2: Boot Anti-Remedial Status 2: Boot Anti-Remedial Status 2: Boot Anti-Based Source: Based Source: Based Status 2: Boot Anti-Remedial Status 2: Boot Anti-Remedial Status 2: Boot Anti-Based Source: Based Status 2: Boot Anti-Based Status 2:

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 Discovery Date:
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Tank ID: Tank Contents: Tank Age: Tank Ste (Units):

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Tank Size (Uniu): 100 (GALLONS)	YETA HOWAR Address: HOWAR Address: 1001 CA Address: 1001 CA Address: Unde Agency Address: Underground Tanks: Tanks Removed:	



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 Report ID: 115300-000
 Date of Report: January 23, 1994
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	STIES IN THE SURROUNDING AREA (within 1/2 - 1 mail CONI-	VČA (within 1/2 - 1 m)	e) COM.
Tank ID:	12124	Tank Status:	ACTINE W SERVICE
Tank Contents:	ONCH	Leak Monkoring:	HOTAVALARE
Tank Age:	R	Tank Piping:	MOTAVALABLE
Tank Size (Units):	to levinove	Tank Material:	NOT AVALABLE
Tank ID:	KA.70	Tank Status:	DUT OF REPACT
Tank Contents:	GACOME (INSTITUTE)	Leak Monitoring:	MOTAVALABLE
Tank Age:	NOT REPORTED	Tank Piping:	MOTAVALARIE MOTAVALARIE
Tank Size (Units):	State (Switt Owd)	Tank Material:	NOTAVALARE
Tark ID:	W-20	Tank Status	OUT OF RENCE
Tank Contents:	GUODA (NEWCOTED)	Leak Monkoring:	NOTAVALARE
Tank Age:	NOT NO AUTO	Terak Piping:	HOTAVALARE
Tark Ste (Units):	SHOTH SHOW	Tenk Materiat	NOTAVALARE
Tark IC:	3124-10	Tank Status:	ACIMUMSIMOS
Tank Contents:	GALODAE (MORECITED)	Leak Monkoring:	NOT AVALABLE
Tank Age:	R	Tank Pipina:	HOTAVALARE
Tark Size (Units):	texp (cyrri cyrd)	Tank Materiat	HOT AVALARE
Tark IC:	118.20	Tank Statur:	ACTINATION
Tank Contents:	GUODER (NONCIED)	Leak Montoring:	HOI AVALABLE
Tank Age:	R	Tank Piping:	NOI AVALARE
Tank Size (Units):	נכארו כאיל	Tank Maleriat	NOT AVALARE
Tank ID:	nr-Rif	Tank Statur:	ACTINEW SERVER
Tank Contenter	10200	Leak Monkoring:	HOLYNEMEL
Tank Age:	8	Tark Piping:	HOLAVALABLE
Tenk Size (Inits):	STO (CALLOND)	Tank Materiat	MOTAVALARE
Tank ID:	n54216	Tank Satur:	ACTIMAN SURVICE
Tank Contents:	GASOME (MONCOTED)	Leak Monkoring:	HOLAVALARE
Tank Age:		Tank Mplag:	HOTAVALABLE
Tark Size (Units):	12000 (21/11 CHO)	Tank Materiat:	HOT AVALABLE
Tank ID:	2125 4 27	Tank Satur:	ACINEM SERVEL
Tank Contents:	CALOLINE (LINSPECTED)	Leak Monkoring:	HOT AVALABLE
Tank Age:	•	Tank Piping:	MOT AVALABLE
Tank Size (Units):	12000 (GALLOND)	Tank Materiat	MOTAVALARE
Tank ID:	N-4211	Tenk Status:	OUT OF BRINCE
Tank Contents:		Leak Monkoring:	MOTAVALARE
fank Age:		Tenk Piping:	NOI AVALARE
Isnk Sze (Units):	and functional	Tark Materiat	MOT AVALABLE

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RCG 3390 Agency ID: 9-202643 RCM 3390 Agency ID: 9-202643 Rtwar counting Rtwar counting Rtwart Agency ID: 9-202643 Rt Sahur Rt Manterlat Rt Materlat Rt Materlat R		AULUKNIA AVE		Potted as	POINTS FLAT
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ttwer count it Agency ID: 9-202643 Agency ID: 9-202643 K Statur: Out of Struct th Montkoring: Not Autual Material: Not Autual	Tank Status:		NOI AVALALLE		
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Itwercovertra Agency ID: 9-202643 Agency ID: 9-202643 Agency ID: 9-202643 Agency ID: 9-202643 Agency ID: 9-20270 Agency	Substance:		NOT AVALABLE		
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AK Statur: Out OF SUMCE At Monkaching: Mot Avva.Aut. At Piphog: Mot Avva.Aut. At Material: Mot Avva.Aut. Material: Mot Aut. Obtaince/Unicoton Dot Al 75: Hi rea- Dot and ans Provid: France/Unicoton Dot and ans Provid: France/Unicoton Agency ID: Provid: France/Unicoton Brance/Unicot	Tenk Size (Units):	Taro (GALLONG)	Tark Materia		
Nt Montachig: Mor Avvezant Nt Piphog: Mor Avvezant Nt Material: Mor Avvezant Nt Material: Mor Avvezant Obsarrect 0055001 012 M / 55 H (44) Obsarrect 055001 012 M / 55 H (44) Obsarrect 055001 012 M / 55 H (44) Agency ID: 9-2027/0	Tenk ID:	Rá	Tank Statur:		7
AF Ripler: NOI AVVALALE AK Materlah: NOI AVVALALE NOI AVV	Tank Contents:	GEODAR (NOTOTED)	Leak Monko	_	
M Materials Morvever Materials Morvever Detainee/Discoort 0.03 M / 5 H (det Pottal 2022 / 202	fank Age:	NOT REPORTED	Tank Pipho:		
V61A ID/s 518640% Curtual Distance/Discretion 0.03, M / 5, H (data) Protect arrs 21 Agency ID: 9-2027/0	Tent Size (Units):	SACALONS)	Tank Materia	-	-
Agency ID: 8-202770	VICIA - CENTI Addres - 019 C	AL TRANSPORIATION ALFORNIA VE-FA	COMPANY COMPANY	VISIA ID#:	1100/02/1000000000000000000000000000000
	STATE UST - State Un	derground Storage Tank	/ SRC# 3989	Agency ID:	9-202770
	Pure nuces				
	underground tank		_		-
	Aboveground Tan		NOT REPORTED		

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Tarric 10;	10	Tank Status:	ACIMEN SERVICE	
Tank Contents:	UNKINOWN	Leak Monitoring:	NOTAVALARE	
Tank Age:	NOI REPORTD	Tank Piping:	HOI AVALABLE	
Tank Size (Units):	NOT REPORTED (NOT AVALARED	Tank Material:	NOIAVALARI	
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STATE UST - State Und	STATE UST - State Underground Storage Tank / SRC# 3989			
Agency Address:	MORANA			
Underground Tenks	•			
Aboveground Tanks:	CINCING NOT REPORTED	01		
Tanks Removed:	NOI NOI NOI NOI NOI NOI NOI NOI NOI	02		
Tank ID:	a tu	Tank Status:	OUT OF STANCE	
Tank Contents:	GASOLINE (INSPECTED)	Leak Monttoring:	MOLAVALARE	
Tenk Age:	ц	Tank Piping:	NOTAVALARE	
Tank Size (Units):	400 ICAN CARD	Tank Materiat	NOT AVALABLE	
Tank ID:	420	Tank Status:	OUT OF STANCE	
Tank Contents:	GASOUM (INSPECTED)	Leak Monkoring:	MOLAVALARE	
Tenk Age:	ĩ	Tenk Piping:	HOLAVALARE	
Tank Size (Units):	4000 (CALLONS)	Tank Material:	HOT AVALABLE	
Tarak (D:	F 30	Tank Status:	OUT OF RUNCE	
Tank Contents	GASOUR (MANCYER)	teek Monitoring:	NOT AVALABLE	
Tank Age:	35	Tank Piping:	MOT AVALABLE	
Tark Ste (Unts):	6000 (CALLONS)	Tank Materiat	NOI AVALARI	
Tank ():	A-4U	Tank Status:	OUT OF STANCE	
Tank Contents:	GALOUNE (INSTROYED)	Lesk Montoring:	MOLAVARABE	
Tank Age:	X	Tank Piping:	MOLAVALARE	
Tank Size (Units):	(2HOTH20) 0029	Tank Materiak	NOT AVALABLE	
Tarak IC:	#3U	Tank Status:	OUT OF STANCE	
Tank Contents:	102.00	Leak Monkoring:	NOT AVALABLE	
Tank Age:	35	Tenk Piping:	MOT AVALABLE	
Tank Size (Units):	550 (GALLONS)	Tark Materiat	NOTAVALARE	
Tank ();	110	Tank Status:	ACTIVEW SUMCE	
Tank Contents:	GASOUR RIVERED	Leak Montoring:	NOI AVALARE	
fank Age:	E	Tank Piping:	MOI AVALABLE	
Tank Size (Units):	10000 (2417 040)	Tarik Materiat	NOT AVALABLE	
Tank ID;	¢2V	Tank Statur:	ACTIVE MARKING	
Tank Contants:	GASOLINE (MONCOTED)	Leak Monkoring:	NOT AVALABLE	
Tank Age:	-	Tank Piping:	MOT AVALABLE	
Tank Size (Units):	10000 (CALLONS)	Tank Materiat	HOT AVALARE	

 VSIANUCH INDEX NOTIVE RETAIL/WHOLESALE
 VISIANUCHINE NETAIL/WHOLESALE
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9-200836

Agency ID:

VETA FERFECTION DRY CLEANERS, ITD. Address 550 KILANI AVE WAHIDAV, HI 95786 STATE UST - State Underground Storage Tank / SRC# 3989 Agency Address State Underground Storage Tank / SRC# 3989 Agency Address State Underground Tanks Storage Tanks The Storage Tanks Storage Tanks Not storage Tanks Ta

ACTIN'IN LINIC NOI AVALARI NOI AVALARI

Tenk Slalut: Leek Monkoring: Tenk Piping: Tenk Meterlat

MOLAVALABLE

SED (CALONS)

tank Size (Units):

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Tank ID: Tank Contents: Tank Age:

VISIAID: 3432053 Distance/Direction 0.66 MI / SVV

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

Tank (D;	R-01U	Tank Statut:	OUT OF STRICE	
Tank Contents:	GALOUNE (MONCIFED)	Leak Monkoring:	MOI AVALARE	
Tenk Age:	74	Tank Piping:	MOTAVALARE	
Tank Size (Units):	ISTOR (CALLONS)	Tank Materiat:	MOI AVALABLE	
Tank ID:	R.CZV	Tank Status:	OUT OF REWCE	
Tank Contents:	UNICHONN	Lesk Monkoring:	MOI AVALARE	
Tenk Age:	R	Tank Piping:	NOI AVALABLE	
Tenk Size (Units):	10000 (GAULOHD)	Tank Maleriat	MOI AVALABLE	
IN THE WARD	MARTINE LEHIUN SIREELS, AND		Appled Bis (1911) POINT PURCHAR	612
Agency Address	3	SWE AS ABOVE		
Underground Tanks:	-			
Aboveground Tenks:		MOT REPORTED		
Tanks Removed:	ION	NOT REPORTED		
Tank ID:	2	Tank Status:	ACTIVEN SERVER	
Tank Contents:	DIESC	teak Montoring:	HOI AVALARI	
Tenk Age:	\$	Tarik Piping:	NOI AVALABL	
Tank Size (Units):	1000 (CALCAS)	Tank Materiat	HOI AVALARI	



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 VISTA ID+
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 Agency ID:
 9-201433
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VISIA RURAL FOOD PROD. INC Address 1117 MANGO 571 REFERENCE WAHLAWK, H195786 124 K 127 STATE UST - State Underground Storage Tarik / SRC 3388 Agency Address: State Underground Tariks: Not action Underground Tariks: Not action Tarik ID: 6/10 NOT ADDRESS Tarik Contents: Forward Cd Leak M

ACIMENISENCE NOI AVALARE NOI AVALARE NOI AVALARE

Tank Statur: Leak Monkoring: Tank Piping: Tank Materiat

SKO ILANI ONS

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lank Age: fank Size (Jmbs):

STIES IN THE SURROUNDING AREA (WINN, 1/2 - 1 mbe) CONT

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Agency Address:	SAVE AS ABOVE - SAVUE 3190 AGONCY 10: CARLE 9-200092 - ACAR SAVE AS ABOVE
fank Statur:	JAVYYY ION
Discovery Date:	DECEMBRIS, 1913
Media Affected:	HOI AVALARE
Substance:	
leak Cause:	JUNEYAVAR
Lesk Source:	MOT AVALABLE
Remedial Action:	HOI AVALARE
Remedial Status 1:	CONTRACTION
Remedial Status 2:	THAT AN A A A A A A A A A A A A A A A A A
Fields Not Reported:	Quartity (Intel)
STATE UST - State Underground Storage Tank / SBC# 3989	Anancu ID.
Agency Address:	ZEDNY-R VII CHINAL INA MORE AND
Underground Tanks:	
Aboveground Tanks:	
Tanks Removed:	A REPORTED A
8-10	Carl Same
Tank Contents: DCSD	ł
Tank Age: 29	
Tank Size (Units): 1000 (GALLONS)	4



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CACCUME (NONCOTED) 14 24 24 24 24 24 24 24 24 24 2	•
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Agency 150 N KAMEHAMEHA FW 65 EC2AX SmGen - FCPA Small Generator / SRC 3946	·
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KRMA SmGen - RCRA-Smail Generator / SRC# 3946	A HARRING BARRIER BARRING BARRING BARRING BARRING
Agency Address: Sue A ADOR Generator Class: Concerts al 2000/month but the STATE LUST - State Leaking Underground Scinge Tank / SRC# 3990/ Au Agency Address: Nazwouten min Iank Status: Nazwouten # 199 Not Ansatel Bank Causte: Not Anv. All Leak Cource: Not Anv. All Leak Cource: Not Anv. All Remedial Action: Not Anv. All	
Generator Class: Conserts and photon but may be a set of the set of th	
State LUST - State Leaking Underground Scienge Tank / SRC# 3950 / M Agency Accirest: 132 LANDONAM Agency Accirest: 132 LANDONAM Tank Status: 001 AVILABI Discovery Date: NOT AVILABI Media Affected: NOT AVILABI Lask Status: NOT AVILABI Media Affected: NOT AVILABI Lask Source: NOT AVILABI Leak Cource: NOT AVILABI Leak Cource: NOT AVILABI Remedial Action: NOT AVILABI	
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Remedial Status 2: MOI AVALAUL	
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 Report ID: 185800-000
 Date of Report. January 23, 1998
 Version 23

ATE UST - State Unde	STATE UST - State Underground Storage Tank / SRC# 3989	C# 3969 Agency ID:	9-2002-9 Store
Agency Address:	112AC 150EA WAVA	TIZACO STABOM 150 EAMEDHALEDA MAY WANGAWA, NI 98786	
Underground Tanks:	~		
Aboveground Tankt:		NOT NEMORED	
tanks Removed:		MOT MUPORIED	
Tank ID:	D1:8	Tank Status	OUT OF RAME
Tank Contents:	INTO OK	Leak Montoring:	NOT AVALABLE
Tank Age:	12	Tank Piping:	NOT AVALABLE
fank Size (Units):	(SHOTHOU ASS	Tank Materiat	HOI AVALABLE
Tank ID:	005/1	Tank Statur:	ACIMUM STANCE
Tank Contents	GAIONE (NOTOTED)	Leak Monitoring:	NOI AVALARE
Tank Age:	12	Tank Piping:	NOI AVALARE
Tents Size (Units):	10000 (CALLOND)	Tank Materiat	NOT AVALARE
Conk ID:	0,000	Tank Status:	ACTIVITAN SLAMOT
Tank Contante	GACOME (INSPECTED)	Leak Montoring:	NOT AVALARLE
Tank Ane:	21	Tank Piolog:	NOTAVALABLE
auto regeo a statuto distato	1000 (GALLONS)	Tenk Materiat	MOI AVALARE
1616 246 (UIRD):	20410	Tank Status:	ACTIVE/W SERVICE
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			MOT AVALABLE
tank Age:		- Franks with	MOT AVAILABLE
Tank Size (Units):	mut	Tank trakter	ACTIVEN SENCE
lark IC:			MOT AVACABLE
Tank Contents:	GASOUNE (INSPECTIO)	Leak Montoring:	
Tank Age:	25	Tenk Mphg:	
Tank Size (Units):	1000 (GALLONS)	Tank Materiat	
Address: 119 N	VISIA COMMUNITY SERVICE STATION, INC.		Drection 0.76 MI / SW
STATE INT - State Unc	1944 - D. WAHIAWA, HI 96788		Agency ID: 9-201458
Agency Address:	3	LULE AS ABOVE	
Underground Tanks			
Aboveground Tanks:		NOT MEPONIED	
Tanks Removed:		NOT NOPORTED	
Tank ID:	n.	Tank Statur	ACTIVEN SUMCE
Tank Contents:	GNOUNE (MONCOTED)	Leek Montoring:	NOT A VALABLE
Tank Age:	2	Tenk Mping:	
Tenk Stee (Units):	(DAD IN LONG)	Tank Materiat	MOT AVALARE
Tenk ():	R	Tank Statur:	ACTIVE MANUE
Tank Contents:	GACOME (MEMORIE)	Leak Monkoring:	NOI AVALARE
Tank Age:	2	Tank Piping:	NOT AVALABLE

	ASIA THE COMMUNITY SERVICE STATION, INC.			VISTA 104: 141605164 4-1-1-1	9 I I
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	ATT INT. State Independent Strand Tank / SOCE 1988	T	Agency ID:	9-201458	
Agency Address:	SHORY SY STYS				
Undercectured Tenlor	•				
Aboveground Tanks:	MOI MON ION	20			
Tanks Removed:	NOT NEPORIED	2			
Tank ID:	10	Tank Statur	ACIMUM SUMO	Ţ	
Tank Contents	GLOUM (MOTOTED)	Leak Monkoring:	C: MOLAVALABL	-	
Tank Ane:	51	Tank Moing:	NOI AVALALI	4	
Tack Size (Units):		Tank Materiat	NOT AVALABLE		
Tank (D:	R	Tank Statut	ACIMUM SOMICE		
Tank Contents	GASOLIME (MERICAED)	Leak Monkoring:	IG NOI AVALABLE	-	
Tank Ane-	1	Tank Picing:	NOT AVALABLE	7	
Tank Size (Units):		Tank Material:	MOI AVALAR	U.	



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		NAVAL CUMPULK ILLECOMMUNICATIONS	VELAIOU	3871655
MAC	TED STATION EA		Hotted as	
AL WA	WAHIAWA HI 96786			
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Agency Address:		MAYAL COMPUTER TOLCOMMUNICATIONS AND	MUNCABONS ARE	tomon/iniii
CPA Region:		411000		
Congressional District	trict.	•		
Federal facility:		Agency Code ()		
Facility Ownership:	ä	NOI AVALANCE		
Site Incident Category:	:Coob:	creation of the second s		
Federal Facility Docket:	ocket	Agency Code ()		
NPL Status:		NUM CALLER		
Incident Type:				
Inteposed Nrt. Updata #:				
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Financial Management System ID:	ament System ID:	NOT REPORTED		
Latitude:		0		
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		MANAN DATING MANAN		
Alds Street:		NOT REPORTED		
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Ales State:	NOT REPORTED			
Alias Name:		MANCAUG WARAWA		
Allas Street:		O NOI NO VOILO		
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Allan State.	MOT REPORTIN	Handborn tank		
			1	
Name: LightContract	Lead Agency	XY: Actual Start Date:		Actual Completion Date:
Alas Name:		MCIANS LATING LATING MCIANS	MOLEC	MOLATPORTD.
Allas Street:		MOLINEADILD		
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Ales State:	ADI NOPONTO	Construction serve		
Allas Description:		OTINOVAN ION		
Alas Name:		MANCALIN MANANUA		

	SITS IN THE SURPOUNDING AREA (which 1/2 -1 may CONT	UEA (within 1/2 - 1 m	ID CONT	
Tenk ID:	R	Tenk Statur:	ACTINEW SERVICE	_
Tank Contents:	GALOUNE (MOREOFED)	Leak Montoring:	MOLAVALARE	
Tank Age:	15	Tank Piping:	MOT AVALABLE	_
Tank Size (Units):	1000 LCALLOND	Tank Materiat	HOT AVALABLE	
Tank ID:	(1)	Tank Stature	ACTIVITY SUMCE	
Tank Contents:	115,00	Leak Montoring:	MOI AVALABLE	
Tank Age:	15	Tank Piping:	NOT AVALABLE	
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Tank Contents	Listo col	Leak Montorino:	MOT AVALABLE	
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Agency Address	SAVE AS ABOVE			
Generator Class:	Generates	the first 100 kg /month of r	Generates test than 100 kg /month of non-eccaely hazerdous waste.	
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STATE UST - State Unic	STATE UST = State Underground Storage Tank / SRC# 1989 🛛		Agency ID: 9-201934	
Agency Address:	MONYSY JANS		1	
Underground Tanks:	~			
Aboveground Tanks:	UTING AN ION ISS	5		
Tanks Removed:	NOT NOTION	8		
Tank ID:	80.IV	Tank Status:	ACTIVE M SERVICE	
Tank Contents:	DC20	Leak Monkorine:	MOT AVALABLE	
Tank Age:	•	Tank Piping:	NOT A VALARE	
Tank Size (Units):	550 (GALOND)	Tank Materiat	NOI AVALARIE	

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 VISTA address includes enhanced city and ZP.
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 Report ID: 185800-000
 Date of Report. January 28, 1988
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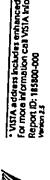
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 For more information call VISIA information Solutions, Inc. at 1 - 800 - 767 - 0403.
 Report ID: 185800-000
 Date of Report: January 28, 1998.
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(ALL DATABASES SEARCHED TO 1 MILE) SITE ASSESSMENT PLUS REPORT DESCRIPTION OF DATABASES SEARCHED 1

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Visi A conducts a database search to identify all sites within 1 mile of your property. The agency release date for NPL was April, 1997. NPL SRCA: 3622

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VISIA conducts a delabate search to klerit y al stes within 1 mHe of your property. The agency release date for RCRA Contective Action Stats List was August, 1997. CORRACTS SRCA: 3946

The EPA maintains this database of RCRA factules which are undergoing "corrective action and a kaved pursuant to RCRA Section 3008 (h) when there is a section order it is kneed pursuant to RCRA Section 3008 (h) when there are not a release of hazardous waste or constituents into the emiconnent from a RCRA factify. Corrective actions may be required beyond the facility's boundary and can be required regardees of when the release occurred, even if it predates RCRA.

() DATA STATE TO JOI MILE

VISIA conducts a delabase search to ldentify all sites within 1 mile of your property. The agency release date for CERCUS was July, 1997. CERCUS SRCA: 3859

The CERCLIS List contains sites which are either proposed to or on the Nelional Phorities 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-temedial, remedial, removal and community relations activities or events at the site, financial funding information for the events, and unrestricted and occement activities.

VISIA conducts a detabase search to identify al ster within 1 mile of your property. The agency release date for CERCUS-NIRAP was July, 1997. NFLAP SRCA: 3860

NFRAP stes may be stes where, following an initial investigation, no contamination was found, contamination was not serious enough to require federal Superfund action or NPL consideration.



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For more information cast VISIA information Solutions, Inc. at 1 - 800 - 767 - 0401. Report ID: 185800-000 Version 24

CORRECTION

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

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for more information cat VISIA information Sourions, Inc. at 1 - \$00 - 767 - 0401. Report ID: 1\$\$900-000 Verian 24

- RCRA-15D VISIA conducts a datebase search to identify all stes within 1/2 mile of your property. SRC#-1846 The agency release date for RCRIS was August, 1992.
- The EPA's Resource Conservation and Recovery Act (RCRA) Program Identifies and tracts hausedous 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 hausedown waste. RCRA TSDs are facilities which usat, store and/or dispose of hausedows waste.
 - SWF VSTA conducts a database search to identify al sites which 1 mile of your property. SRC6: 3152 The agency release data for Permitted Landifk, Transfer Station Incinerator Facilities Database was January, 1996.

This database is provided by the Department of Health, Solid Hazardous Waste Branch.

The Hawal Permitted Landin, Transfer Station incinerator Facilities Database does not provide a facility street address, city, or zip code.

LUST VISTA conducts a database search to identify al stes within 1 mbe of your property. SkCe: 3980 The agency release date for Active Leaking Underground Storage Tank List was July. 1997. This detabose is provided by the Department of Health, Sold Hazardous Wexte Branch.

The Hawall 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.

RCRA-Viots/Eri VISTA conducts a database seatch to identiy at stes whitin 1 mile of your property. The agency release date for RCRIS was August, 1997.

The EPA's Resource Conservation and Recovery Act (RCRA) Program IdenVites and tracts hazardous waxe from the point of generation to the point of disposal. The RCRA factories database is a compastion by the EPA of factories which report generation, straage, transpontation, treatment or disposal of hazardous waste. RCRA Violations are focklies which have been cited for RCRA Violations are focklies which have been cited for RCRA Violations are for for an against are enforcement actions taken against RCRA violations.

USTs VISIA conducts a database search to identify al stes within 1 mile of your property. SRC#: 3989 The agency release date for UST Section Database was July, 1997. The database is provided by the Department of Health, Sold Hazardous Wasta Branch; Cauton-Many states do not requie registration of healing oil tanks, especially those used for residential purposes.

TRIS VISIA conducts a delabase search to identify al stea within 1 mile of your property. SRCet: 3715 The agency release date for TRIS was December, 1996. Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as styrat Tale all of 1986 requires the EPA to establish an inventory of Toxic Chemicals emissions from certain facalities (Tauic Release Inventory System). Facalities subject to this reporting are required to complete a Toxic Chemical Release Form(from R) (or specified chemicals.



For more information call VISIA information Solutions, Inc., at 1 - 800 - 757 - 0403. Report ID: 185800-000 Date of Report January 28, 1958 Vertion 2.5

D) DANANSS SZARCHED (D) I MILL

- ENIS VISTA conducts a database search to identify al ixies within 1 mile of your property. SRCA: 3949 The agency release date for was July, 1997.
- The Emergency Response Nortication System (LRNS) is a national database used to collect information on reported releases of oil and hazardous substances. The database constain triormation from spal 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 Merch 1986 threated information regarding reported spats of oil or hazardout substances in the stated area.
 - RCRA-1gGen VISIA conducts a database search to identify at stee within 1 mile of your property. SRCA-3946 The agency release date for RCRIS was August, 1997.
- The EPA's Resource Conservation and Recovery Act (RCRA) Program Identifies and useds hearedous wase from the point of generation to the point of disposal. The RCRA fordifies database is a compliation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardoun, waste, RCRA large Generations are facilities which generate at the st 1000 kg/month of non-acutely hazardous waste (or 1 kg/month of acutely hazardoun waste).
 - RCRA-SmGen VISIA conducts a database search to identify at stars within 1 mile of your property. SRC4: 3346 The agency release date for RCRIS was August, 1997.

The EPA's Recence Conversion, end Records y for (KGNA) Trugram Darwings and tracts hazardous waste from the point of generation to the point of disposal. The RCRA facilities database is a completion by the EPA of facilities which report generation. starge, transportation, treatment or disposal of hazardous, waste, RCRA Smell and Very Small generators are fecilities which generate less them 1000 kg/month of non-acutely fazardous waste.



for more information call VISIA information Solutions, Inc. at 1 - 600 - 767 - 0403. Report ID: 115600-000 Date of Report: January 21, 1968 Verior 24

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MEMORANDUM

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Te: Milte Chey HECO Environmental Dept. 343-5679 Fax 543-7023

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- From: Charles Brown Edward K. Noda & Associates 613 Filtand St, Seite 300 Honohuln, Häwnii 96214 (2003) 591-4353, Ear. 210 Far: (2023) 593-4531
 - Date: February 2, 1998
- Sabject: Represt for Information HECO Pole Mount Transformern (two poles, eix transformern) On Whitmore Avenue, Adjacent to Dele property TMR: (1) 7-1:02:09 C&C WWTP, TMC: (1) 7-1-02: 22 Whitmore, Hawaii

Mille

Appendix D - Response Letter from HECO Regarding the

Transformers

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I am requesting your axistance on the PCB stars of six HECO transformer mounted on two poles for a Phase I ESA project at the above described locations. One pole is on the Whitmore Avenue estement with TMK: (1) 7-1-02: 09: transformer actual 6 51913, 51914, 51973. The other pole is on the City and County estement for a Waste Water Treatment Plant on TMK: (1) 7-1-02: 22: transformer scrial 6 54951, 55792, 55793.

As always, your assistance is greatly appreciated.

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Churk Brown

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CFax Cover Sheet

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To: Charles Brown Company: Edward K Noda & Assoc. Phona: Faz: 632-9581

.

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

Pages including this cover pages 1 page: 1

Subject: HECO Transformer information for 64-277 Kokotsi Place, Militani CAC WWTP, Whitmone

Dest Mr. Brown:

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

Vault 4485D contains transformer 24621. This non-PCB transformer was installed at its present Kokold Place eddress in April of 1981.

Transformera 68913, 66914 and 68923 were purchased in September of 1992 and installed at Uber present Whitmore Avenue address in November of 1992. These are PCB-free transformere.

Transformers 54961, 63792, and 65793 whe purchased in July of 1990 and installed at their current location in October of 1990. These are also PCB-free transformers.

Plaze contact mail you have any questions or need more information.

Sincarely,

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APPENDIX B

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Pre-Assessment Consultation Correspondence

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BENJAMIN J. CAYLTANO **GOVERNOR OF HAWAII**



STATE OF HAWAII

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MAR 1 2 1998

ENGINEERING CONCEPTS

DEPUTIES

MICHAEL D. WILSON, CHAIRFERSON

BOARD OF LAND AND NATURAL RESOURCES

DILBERT COLOMA-AGARAN

HISTORIC PRESERVATION

WATER AND LAND DEVILOPMENT

DIVISION LAND DIVISION STATE PARKS

AQUACULTURE DEVELOPMENT PROGRAM

AQUATIC RESOURCES CONSERVATION AND DEPARTMENT OF LAND AND NATURAL RESOURCES RESOURCES ENFORCEMENT CONVEYANCES FORESTRY AND WILDUFE

STATE HISTORIC PRESERVATION DIVISION 33 SOUTH KING STREET, 6TH FLOOR HONOLULU, HAWAII 95813

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:

March 5, 1998

Chapter 6E-8 Historic Preservation Review -- Whitmore Village SUBJECT: 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,

Don Hibbard, Administrator **Historic Preservation Division**

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AFPENDIX C

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Draft EA Comments and Responses

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DEPARTMENT OF THE ARMY U. S. Abar Dagager district, homoluuu FT. Suuted, haman neessag

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August 19, 1998 Aug 2 0 799

EXCINENTIAL CONCENTS

Civil Works Branch

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Mr. Bill Liu Department of Design and Construction City and County of Honolulu 650 South King Street Honolulu, Hawail 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 (THK 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 floud hazard information provided on page 3-2 of the DEA is correct.

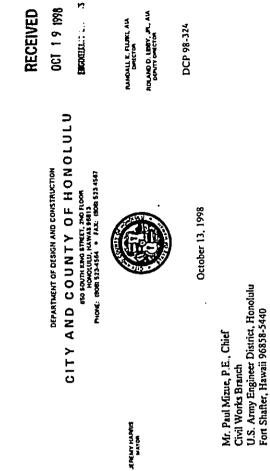
Sincerely,

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

Copies Furnished:

I. 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



FUIL SHALLET, HAWAII 20030-Dear Mr. Mizue: Subject: Draft Environmental Assessment (EA) for Whitmore Village Wastewater Treatment Ptant 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 liave any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours,

Por RANDALL K. FUNKI Director Rub- 1

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



DEPARTMENT OF THE NAVY COMMAUNDER RAVAL BASE PEJAR, HARBON 517 AUSSELL AVENUE FEAR, HANBOR, HAWAI 94550 5070 MILENY NUTER TO.

BISTOLISTICS CLIC. IN OCI 1 9 1998 RECEIVED

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 2ND FLOOR HOHOUVU, HAWAII 89813 MOME: 13081 523-4564 • FAX: 13061 523-4567

DEPARTMENT OF DESIGN AND CONSTRUCTION

ROLAND D. LEBY, JR., AM ODVITY DIVETOR RANDALL K. FUJEL ALA DALETOA

DCP 98-326

October 13, 1998

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

Department of Design and Construction Department of Environmental Services 650 South King Street Honolulu, HI 96813 Dear Mr. Liu: Mr. Bill 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 Arca 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 contespondence on this subject to me at Commander, Naval Base Pearl Harbor, Attn: (N42), Box 110, Pearl Harbor, HI 96860-5020.

Sincerely,

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

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

Office of Environmental Quality Control Leiopapa A Kamchamcha, Suite 702 235 South Beretania Street Honolulu, H1 96813

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ENGALEDING CONCEPTS

Naval Base Pearl Harbor Commander Attn: (N42) Box 110

Pcarl Harbor, Hawaii 96860-5020 Mr. Clyde Yokota Attention:

Environmental Program Manager

Dear Sir:

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

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,

For Rev DALL K. FUJIKY

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

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FAX

Number of pages including cover sheet: Dale: August 24, 1998

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. Ervironmental Compliance Office, Code 09E Navy Public Works Center Peerl Harbor, HI 96860 Ç)

(803) 474-1102 (808) 471-5643 J. Higuchi Phone: From: COBE Mr. Bill Llu Mr. Kenneth Ishizaki 523-4642 (CCH)

OEQC

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Fax Phone: 556-4188 (OEQC) 591-9010 (ECI) Fax Phone: REMARKS: ... Phoner Ï

As requested enclosed is a copy of the Nary 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. SUBJ: Whitmore Vitlage Wastewater Treatment Plant Conversion to Flow Equalization Eoryourneview 📑 Riphy ASAP ngent

PWC Pearl Harbor Code 09E2 Joanne Higuchi

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PACE 02/02

PLC FEARL CODE 05E

08/24/1998 10:32 8084715643

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PLC PEAR. CODE 05E

ENVIRONMENTAL COMPLIANCE OFFICE REVIEW COMMENTS NAVY PUBLIC WORKS CENTER, CODE ME

	DATE B/195	PAGE 1 OF 1
PROJECT TITLE WHITMORE VILLAGE WASTEWATER TREATMENT PLANT CONVERSION TO FLOW EQUALIZATION	AEVEWED BY: J. Hepuchift, Ihart., Mhyach	ND-ARK
ACTIVITY City and Courty of Honolau	NAVFAC DWG NO. N/A	
LOCATION Wahizwa, Oshu	SPECIFICATION NO.	

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Page 1-1	

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Sincerely,

RECEIVED CITY AND COUNTY OF HONOLULU DEPARTMENT OF DESIGN AND CONSTRUCTION 650 SOUTH KING STREET, 240 FLOOR HOMOUUU, HAWAR 96813 MHOME: 18081 513-4544 • FAX: 18081 523-4577

פונטנופנאני נכונרייוי

JERELY HADRIS MAYON

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October 13, 1998

ROLAND D. LINEY, JR., ALA DEVITY DIRECTION

RAVIDALL IC FUER, ALA DALETON

DCP 98-325

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

Ms. Joanne Higuchi, Code 09E2 Attention:

Gentlemen:

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 Subject:

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 Planuing and Programming at 527-6871.

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

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JUL 3 0 1998 RECEIVED

ROULING LANTING CONTROL

ENGINEERING CONCEPTS DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM LAND USE COMMISSION P.O. Box 2139 Horodan, 10 9501-2139 Terptoon, 10 9501-2139 Terptoon, 10 951-3327 Far: 806-5617-387 STATE OF HAWAII 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:

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

We have reviewed the DEA for the subject project and confirm that the project site, as represented on Figura 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 Pormitting 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.

He We have no further comments to offer at this time. A 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,

5 Carlow

ESTHER UEDA Executive Officer

EU:th

cc: OEQC /Kenneth Ishizaki

JERGINY HARRIS MATCH ESTINER UEDA LIECATIN OTICIA



ROLAND D. LIBEY, JR., ALA DOVITY OMETION MMOALL R. FURMLAW DATCTOR

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CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 2ND FLOOM HOMOLULU, MAWAII 96813 HHOME: 10081 523-4564 + FAX: 10061 523-4587

DEPARTMENT OF DESIGN AND CONSTRUCTION

DCP 98-321

October 13, 1998

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

Dear Ms. Ueda:

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

Thank you for your fetter 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.

For R.M.DALL K. FUJIKJ Director Red - C Very truly yours,

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

Image: State of Design AND CONSTRUCTION CTT A DO CONTT Y OF HONOLULU CTT A DO CONTT Y OF HONOLULU CTT A DO CONTT Y OF HONOLULU State of	 H. Rick Egget, Director Diffice of Flaming Diffice of Flaming Directopart 5 Touring Neelopart 5 Touring Nettinge Vartevater Treatent (2) for Mittore village Vartevater Treatent (2) Nettinge Vartevater (2) Nettinge Vart	
DEPARTMENT OF BUSINES, ECONOMIC DEVELOPMENT & REVERT MENTAL ECONOMIC DEVELOPMENT & REVERT MENTAL ECONOMIC DEVELOPMENT & REVERT MENTAL ECONOMIC DEVELOPMENT & REVERT MENTAL DEPARTMENT & REVERT MENTAL ECONOMIC DEVELOPMENT & REVERT MENTAL DEPARTMENT & REVERT MENTAL REVENT & REVERT MENTAL REVENT & REVERT MENTAL August 4, 1998 MAINTAL CONTRACT MENTAL REVENT Mr. Kenneth E. Sprate Mr. Kenneth E. Sprate Director Mr. Kenneth E. Sprate MIC 1 3 (199	<text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>	

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Hr. Rick Egged Page 2 October 23, 1998 Coastal Ecosystems. Erosion control measures and best management practices will be implemented during construction to minimite adverse impacts to coastal ecosystems.

Economic Uses. The proposed project is not coastal dependent and vill 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.

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Managing Development. N/A

Public Participation. N/A

<u>Beach Frotection</u>. The project site is not located at or near the shortline.

Marine Resources. N/A

 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 vill 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.

Be Marth K. Eujki Very truly yough.

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

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ARTINENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU BO JOUTH FRIG TREET. 300 FLOOR BOOKEL ROOM STATESTICAL OF AN INDUCTION MORE ROOM STATESTICAL FOR THE ROOM STATESTICAL	October 13, 1998 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, Wathiawa, Oahu, Hawaii TMK: 7-1-2:22, 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.	For RANDALL K. FUIK	Director	cc: 🗡 Kenneth Ishizaki - Engineering Concepts, Inc Office of Environmental Quality Control	
RECEIVED MECEVED AUG 6 1999 BULLIO AND ALLIADARTA RECOLLADARTA AUG 6 1999 BULLIO AND ALLIADARTA STATE OF HAWAIT BAREERIALIA AUGULIA STATE OF HAWAIT AUGULIA AUGULIA OFPATINENT OF LAND AND HATURAL RESOURCES AUGULIARA AUGULIARA STATE OF HAWAIT AUGULIARA AUGULIARA OFPATINENT OF LAND AND HATURAL RESOURCES AUGULIARA AUGULIARA STATE OF HAWAIT AUGULIARA AUGULIARA OFPATINENT OF LAND AND HATURAL RESOURCES AUGULIARA AUGULIARA STATE OF HAWAIT AUGULIARA AUGULIARA OFPATINENT OF LAND AND HATURAL RESOURCES AUGULIARA AUGULIARA STATE OF HAWAIT AUGULIARA AUGULIARA OFPATINENT AUGULIARA AUGULIARA AUGULIARA AUGULIAR	LOG NO: 21991~ ental Services ulu		Chapter 6E-8 Historic Preservation Review - Draft Environmental Assessment (DEA) Whitmore Village Wastewater Treatment Plant (WWTP) Conversion to Row Equalization Wahlawa, Wahlawa, O'ahu TMK: 7-1-2: 22, por. 4, por. 9	The DEA includes in Appendix B our carlier comments that 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,	S		Kora a 17 XXX 13 K HAARA 20 X X X X X X X X X X X X X X X X X X	
Cortana o Linuo Cortana o Linuo August 3, 1998	Bill Liu Department of Environmental Services City & County of Honolulu 650 S. King Sured Honolulu, Hawaii 96813	Dear Mr. Liu:	SUBJECT: Chapter 6 Assessment Conversion Wahlawa, TMK: 7-1-	The DEA includes in Appendix I have "no effect" on historic sites.	If you have any questions Aloha,	Don Hibbard, Administrator State Historic Preservation Division	Elije	c: Kore art XY 13 UV UV UV UV 15 OEQC, Leiopapa 968132	

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STATE OF HAWAI DEPAITMENT OF TRANSPORTATION 869 PUNCHBOWL STREET HOHOLULU, HAWAI 96313-5697

August 31, 1998

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

Attention: Mr. Bill Liu

Dear Mr. Sprague:

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

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,

ter Lane KAZUHAYASHIDA

Director of Transportation

or Market and Alfred Andrease and Alfred Andrease An

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CITY AND COUNTY OF HONOLULU

850 500TH ENG STREET, 240 FLOOR HOMOLULU, HAWAI 96913 FHOME: 1808 5124564 + F.A.C. 1808 5234567

DEPARTMENT OF DESIGN AND CONSTRUCTION

POLAND D. LIDET, JR., AM DENTY DIVETOR NANDALL K. FUNKL AIA DAVETON

DCP 98-323

October 13, 1998

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JEREMY HARRES MATCH

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ENGINEERING CONCEPTS

SEP 3.1998

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

Dcar Mr. Hayashida:

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 Subject:

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. Jele-

Hor RANDALL K. FUJKI

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

BENLIALEN J. CAYETANO 0048408

OFFICE OF ENVIRONMENTAL QUALITY CONTROL STATE OF HAWAII

DARY OLL

BIGNEERING CONCEPTS RECEIVED AUG 2 1 1998 2M SOUTH ADVITAMA STRUET DUTE 702 HOMOLILLU, MANUA BEELS TRAPHOME BARLING FACTORIL POINT SAE 119

August 20, 1998

Department of Design and Construction Department of Environmental Services City and County of Honolulu G50 South King Street Honolulu, Hawai'i 96813 Hr. Bill Liu

Dear Mr. Liu:

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

- Please disclose whether wastewater from the proposed facility will eventually enter Lake Wilson or be piped to the Honouliuli Waste Water Treatment Plant. ч.
- Please discuss the status (R1, R2, etc.) of the wastewater being discharged from the Wahiawa Waste Water Treatment Plant. 3.

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

feution/more Sincerely, Aci GARVGILL Director Mr. Kenneth Ishizaki, Engineering Concepts, Inc. ö >

ROLAND D. LIBEY, JR., ALL DEAUTY DRECTOR RANDALL E. FUJIEL ALA DIRECTOR DCP 98-319 630 SOUTH KING STREET, 2ND FLOOR HONCLULU, HAWAR 96813 FHONE: 18081 523-4584 • F.A.: 18081 523-4567 October 13, 1998 JERENY HUMES MAYON

CITY AND COUNTY OF HONOLULU

DEPARTMENT OF DESIGN AND CONSTRUCTION

RECEIVED

ENGINEERIG CONCEPTS

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

Dear Mr. Gill:

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

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.

- Please disclose whether wastewater from the proposed facility will eventually enter Lake Wilson or be piped to the Honouliuli R'astewater 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.
- Please discuss the status (RI, R2, etc.) of the wastewater being discharged from the Wahlawa Wastewater Treatment Plant. c,

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

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Mr. Gary Gill Page 2 October 13, 1998

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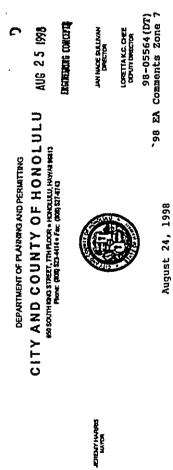
A copy of your letter and this response will be included in the Final EA. Should you have any further questions or concerns, please contact Mr. Bill Liu of the Division of Planning and Programming at 527-6871.

Very truly yours.

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

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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.

Control Contro

JNS:am cc:/Kenneth Ishizaki, Engineering

Concepts, Inc. Office of Environmental Quality Control statusses.est

> ATTN: BILL LIU FROM: JAN NAOE SULLIVAN

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RANDALL K. FUJIKI, DIRECTOR DEPARTMENT OF DESIGN AND CONSTRUCTION

HEHORANDUM

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OM: JAN NAOE SULLIVAN, DIRECTOR DEPARTMENT OF PLANNING AND PERMITTING SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (EA) MHITHORE VILLAGE MASTEMATER TREATMENT PLANT (MMTP) TAX MAP KEVS: 7-1-2: 22. PORS. 4 AND 9 The locations of the overflowing manholes and surcharged severs should be included in the EA. Construction plans for all work within the City's road rightof-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. 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.

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RECEINED

Ms. Jan Naoe Sullivan October 13, 1998 Page 2

ENGINEERING CONCETTS

CITY AND COUNTY OF HONOLULU

850 SOUTH KING STREET, 2ND FLOOR HOMOLULU, HAWAS 94813 THOME: ROBI 523-4584 • FAX: 10081 523-4587

DEPARTMENT OF DESIGN AND CONSTRUCTION

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

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

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

Draft Environmental Assessment (EA) for Whitmore Village Wastewater Treatment Plant Conversion to Flow Equalization, Wahiawa, Oahu, Hawaii

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.

The locations of the overflowing manholes and surcharged severs should be included in the EA. <u>__</u>;

To our knowledge, the incidence of overflow occurs only at the influent pump station at the Wahiawa Wastewater Treatment Plant. 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. è

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.

Construction work within Whitmore Arome should be coordinated with the State DOT, since the roadway facility is under their jurisdiction. m

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ROLAND D. LIBER, JR., AM DEVITY DATICTON

DCP 98-318

RANDALL R. FUJEL ALA ENECTON

October 13, 1998

MEMORANDUM

MS. JAN NAOE SUILIVAN, DIRECTOR DEPARTMENT OF PLANNING & PERMITTING ö

FROM: For RANDALL K. FUIIKI, DRECTOR DEPARTMENT OF DESIGN & CONSTRUCTION

SUBJECT:

TMIK: 7-1-2:22, portion of 4 and 9

Hawalian Electric Company, Inc. • PO Box 2750 • Honokw, HI 96840-0001

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AUG 27 1998



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

ENGINEERING CONCEPTS

ARMY HURBES

ENCINEEDING COLIC S

CITY AND COUNTY OF HONOLULU

650 50UTH KING BTREET, JND FLOOR HOMOLULU HAWAR 95813 PHONE: (BODI 823-4564 + FAX: (BODI 823-4567

DEPARTMENT OF DESIGN AND CONSTRUCTION

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POLAND D. LIBEY, JAL, ALA

DCP 98-330

October 13, 1998

Mr. Scott W.H. Scu, P.E., Manager Environmental Department Hawaiian Electric Company, Inc.

AAVDALL K, FUURL ALA DAVETOA

August 24, 1998

Department of Environmental Services City and County of Honolulu 650 South King Street Honolutu, H1 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 Emforommental Services, City and County of Honoluhu. We have traviewed 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

er ofoc

Engineering Concepts, Inc. 250 Ward Avenue, Suite 206 Honobutu, H1 90814

B. Muench



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 TMK: 7-1-2-22, 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.

FER RANDALL K. FUJKI the lin Very truly yours, Director

Director Engineering Concerts 1.0

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





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GTE Havaitan Telephone Company Incorporated P.O. Box 2200 • Honoldal, Hi 96841 • 806 546-4511	
Gid Hawalian Tel Beyond the call	August 4, 1998

 Department of Environmental Services
 RSCEIVED

 City & Count of Honolulu
 AUG
 6 1998

 650 South King Street
 Biointentic concerts

Attention: Mr. Bill Liu

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

Dcar 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 WWIP 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 R. Celhrel

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 Honlulu, HI 96813

File (Wahiawa) C. Hayamizu

DEPARTMENT OF WASTEWATER MANAGEMENT CITY AND COUNTY OF HONOLULU DIVISION OF PLANHING AND SERVICE CONTROL HADDONUMENTING



JEFENT HAAMS

RUMETH E. SPILIOLI, F.E., M.D. DIECTOR STEPHEN T.C. CHING S-MEN

October 23, 1998

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DCP 98-362

Mr. Wayne L. Cabral, Section Manager Access Design and Construction GTE Hawaiian Telephone Company, Inc. P. 0. Box 2700 Bonolulu, Hawaii 96841

Dear Mr. Cabral:

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

- We acknowledge that GTE Hawaiian Tel does not foresee any problems with the proposed new construction.
- 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.

MART R. Diffector Very

cc: Kenneth Ichizaki - Engineering Concepts, Inc. Difice of Environmental Quality Control



RECEIVED AUG 2 4 1998

August 20, 1998

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

Department of Design and Construction Attention: Mr. Bill Liu

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.

puck to Theme Very truly yours,

Keith K. Yamamoto

Supervisor, Engineering

ККҮ, Ілт 91-206

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

. The GAS COMPARY S15 Kamake Sheet Hornake Musaas Rd14 PO Bon 2000 Hornake Hornake Rd22000 Lorente S12 COVERS Factored AFT Factored

0CT 1 9 1998 ENCINERANCE C. . S RECEIVED DCP 98-329 CITY AND COUNTY OF HONOLULU DEPARTMENT OF DESIGN AND CONSTRUCTION 650 FOUTH KING STREET, JHD FLOOM HOMOULU, HAWAB BERT3 MOME: (BOBI 523-4564 + FAX: (BOBI 523-4567 ERENY HARDES MANDA

RANDALL E. FUJKL ALA DALETON

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ROLAND D. LEBY, JR., AM DOVITY DIRECTOR

October 13, 1998

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

Mr. Keith K. Yamamoto Supervisor, Engineering Attention:

Gentlemen:

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

document and acknowledge your comment that the area is currently clear of utility gas facilities. 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

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 \$27-6871.

For RANDALL K. FUJIN Reh-Very truly yours,

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

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U OCI 19 1994	NUNDALL K. FUJKI, AN DECTOR ROLMO D. LIBY, 31, AA DOUTD DECTOR	DCP 98-327			¥	d Services	wing the	npacts to Dole	/ond the icuss right of
DEFATTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU 500 SOUTH FANG STREET, 200 TLOOR MORE: IMONOLULU HAVE SAGE		October 13, 1998	Ms. Beverly Kaku, Land Agent Castle & Cooke Land Company P.O. Box 2990	Honolulu, Hawaii 96802 Dear Ms. Kaku:	Draft Environmental Assessment (EA) for Whitmore Village Wastewater Treatment Plant Conversion to Flow Equalization, Wahiawa, Ozhu, Hawaii TMK: 7-1-2:22, portion, of A and O	Thank you for your letter of August 19, 1998 to the Department of Environmental Services	vestioning the Dratt EA for the subject project. We appreciate your effort in reviewing the document and offer the following response to your comments:	Construction activities will be coordinated with Ike Angara to minimize impacts to Dole Food Company's operations.	We do not anticipate the need to access Dole or Castle & Cooke lands beyond the tastment area. However, should the need arise, we will contact you to discuss right of entry requirements.
	JEAE LAY HUUPRUS MAY DR		Ms. Beverly Ka Castle & Cook P.O. Box 2990	Honolulu, Hawa Dear Ms. Kaku:	Subject:	Thank you f	document an	I. Cons Food	2. We d casen castry
	AUGUEE 19, 1998 DESIGN & CONSTRUCTION OIVISION OF PLANNINE & PROGRAMMINY	nmental Services Smolulu 113	Mr. Bill Liu Department of Desigm & Construction Whitmore WTP Conversion to Flow Equalization	Dole Food Company, Inc. ("Dole") and Castle & Cooke, Inc. ("Castle") are aware of the essements 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 trains second		Beverly Ratu, Land Agent CASTLE & COOKE LAND COMPANY Agent: Dole Prod Prod	
Castle & Cooke		Department of Environmental City and county of Honolulu 650 S. King Street Honolulu, Havail 96813	Attn: Mr. Bill Liu Department of Re: Whitmore WTP	Dole Food Company, I ("Castle") are aware the Whitmore Wastewa	Since your activitie please coordinate you at 621-3241. If you easement area, pleas entry will be prepare	Should you have any c Dole and Castle, plea			cc: George Wada (IIIe ref. 18-33)

ાં છે. ઉત્તરાખ બેન્દ્રાં, ઉત્તર વસ્તું તેમને ઉત્તરી મન્દ્રાય ઉત્તર અહીં વિદ્યુત્વે ત્યારે વિદ્યાર્થ વધા કાર્ય પ્રદાર્થ

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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. FURKI Director

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

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