



STATE OF HAWAII
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 LAND DIVISION
 P.O. BOX 621
 HONOLULU, HAWAII 96809

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

Ref.: PB:SL
 '99 AUG 19 P2:30

OFFICE OF ENVIRONMENTAL QUALITY CONTROL

AUG 20 1999

File: No. OA-2939D

MEMORANDUM

To: Genevieve Salmonson, Director
 Office of Environmental Quality Control

From: Dean Y. Uchida, Administrator
 Land Division *Uchida*

Subject: Final Environmental Assessment and Finding of No Significant Impact to the Environment (FONSI) to Drill Two (2) Exploratory Borings at Keehi Lagoon, Honolulu, Hawaii

The Department of Land and Natural Resources (DLNR) has reviewed comments received on the subject EA during the 30-day public review period, as well as the applicant's response to comments, and has found that the project will not result in significant impacts to the environment.

Please publish notice of availability for this project in the next OEQC Environmental Notice.

We have enclosed a completed OEQC Bulletin Publication Form (on disk) and four (4) copies of the Final EA. Please contact Sam Lemmo of our Land Division's Planning Branch, at 587-0381 should you have any questions.

Attachments

cc: URS Greiner Woodward Clyde

1999-09-08-0A-*FEA* -

FILE COPY

SEP 8 1999

Kechi Lagoon Exploratory Drilling

CONSERVATION DISTRICT USE APPLICATION (Rev. 12/94)

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

RECEIVED
DIVISION OF LAND AND NATURAL RESOURCES
AUG 8 1999

This is a Department of Land and Natural Resources, Office of Conservation and Environmental Affairs Conservation District Use Application (CDUA) form. This application is to be used if you desire to apply for a land use in the State Land Use Conservation District.

All land uses, pursuant to Section 13-5-2, Hawaii Administrative Rules (HAR), require that a CDUA be filed with the Department and approved by the Board of Land and Natural Resources (Board) prior to its initiation. An application is not considered accepted for processing until the Department has found it complete. Once an application is considered "complete" by the Department, a letter of acceptance will be issued and the statutory 180-day time period will begin.

Should a "complete application not be acted upon within the 180-day time limit, the landowner/applicant may automatically put said land to the use(s) requested in the application.

Unless provided for by Title 13, Chapter 5, HAR, land uses shall not be undertaken in the Conservation District.

All applications must include the following to be considered "complete" for processing:

1. Signature of the landowner(s) and applicant (if different from the applicant). Where the landowner is a corporation, trust, association, etc., evidence of authorization for the application shall be included (i.e. letter of corporation/association letterhead).
2. Development and environmental information required pursuant to Section 13-5-31, HAR.
3. The appropriate filing fees as specified pursuant to Section 13-5-33, HAR.

NOTE: No permit shall be processed by the Department until any violations pending against the subject parcel are resolved (Section 13-5-31(e)).

4. Compliance information with all State and Federal environmental requirements. Evidence of compliance must be provided/satisfied prior to action on the CDUA.

All applications are subject to County Special Management Area (SMA) requirements. One of the following must be satisfied from your County thirty (30) days prior to Board action on your CDUA:

1. A determination that the proposed land use(s) is outside the Special Management Area (SMA) administered by the County;

CONSERVATION DISTRICT USE APPLICATION (Rev. 12/94)

2. A determination that the proposed land use is exempt from the provisions of the County ordinances/regulations specific to Section 205A-29(b), Hawaii Revised Statutes (HRS); or
3. A Special Management Area permit for the proposed use. (Note that an SMA permit or clearance must be received by the Department prior to action on an application.)

On page four (4) of the application form, please indicate which of the following approvals are being sought, as specified in the Hawaii Administrative Rules:

1. Departmental permit (see section 13-5-33)
2. Board permit (see section 13-5-34)
3. Emergency permit (see section 13-5-35)
4. Temporary variance (see section 13-5-36)
5. Nonconforming use(s) (see section 13-5-37)
6. Site plan approval (see section 13-5-38)
7. Management plan (see section 13-5-39)

A public hearing(s) shall be held for all applications involving the following:

1. Land use(s) for commercial purposes.
2. Change of subzone(s) or boundaries.
3. Establishment of new boundaries.
4. Change(s) in identified use(s).
5. Land use(s) in the Protective "P" subzone.
6. Land use(s) determined by Chairperson where the scope of the proposed use, or the public interest require one.

All correspondence related to an application will be directed to the applicant.

Please submit twenty (20) copies of the completed application and all attachments, if any, and twenty (20) copies of the environmental assessment.

Please reduce or fold attachments to a letter-size exhibit (8-12" x 11").

Application (s) and attachment(s) should be mailed to:

Department of Land and Natural Resources
Office of Conservation and Environmental Affairs
P. O. Box 621
Honolulu, Hawaii 96809

or hand-delivered to:

Kalanimoku Bldg. (Room-131)
1151 Punchbowl Street
Honolulu, Hawaii 96813

For information call 587-0377.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
P. O. BOX 621
HONOLULU, HAWAII 96809

CONSERVATION DISTRICT USE APPLICATION FORM

(Print or Type)

Dec. 1994

FOR DLNR USE ONLY

Reviewed by _____
Date _____
Accepted by _____
Date _____
Docket/Fine No. _____
180-Day Exp. _____
EIS Required _____
FH Required _____
Board Approved _____
Disapproved _____

SUMMARY PAGE

I. LANDOWNER

(If State land, to be filled by State of Hawaii or government entity with management control over parcel.)

Name Jerry Matsuda
Airports Administrator
Address State Dept. of Transportation
Airports Division
400 Rodgers Blvd.
Honolulu, Hawaii 96819

Telephone No. (808) 838-8600

SIGNATURE Jerry Matsuda

DATE 3 May 99

NOTE: Signature of an authorized representative of DLNR under this section is not to be construed as an approval or as an application which shall be submitted separately with the appropriate fee. Also, for private lands with multiple owners, the application shall be signed by landowners whose property interests constitute or exceed 85% of the fee ownership of the parcel(s).

II. APPLICANT

Name John Thatcher, Exec. Dir./VP
Address Hawaii Fueling Facilities Corp.
300 Rodgers Blvd.
Honolulu, Hawaii 96819
Telephone No. (808) 836-1960
Interest in Property _____

(Indicate interest in property; submit written evidence of this interest.)

*SIGNATURE John Thatcher

Date 4/16/99

*If for a Corporation, Partnership, Agency or Organization, must be signed by an authorized officer.

AGENT

Name James K.P. Kwong, P.E.
Address URS Greiner Woodward Clyde
1144 Tenth Avenue, Suite 200
Honolulu, Hawaii 96816-2497
Telephone No. (808) 737-5300

CONSERVATION DISTRICT USE APPLICATION (Rev. 12/94)

III. TYPE OF PERMIT

- (1) Departmental permit (see section 13-5-33);
- (2) Board permit (see section 13-5-34)
- (3) Emergency permit (see section 13-5-35)
- (4) Temporary variance (see section 13-5-36)
- (5) Nonconforming uses (see section 13-5-37)
- (6) Site plan approval (see section 13-5-38); or
- (7) Management plan (see section 13-5-39)

IV. LAND PARCEL LOCATION

Island . Oahu _____
County . Honolulu _____
District . Honolulu _____
Tax Map Key(s) 1-1-070, 1-2-025
Area of Parcel N/A _____
(Indicate in acres or sq. ft.)
Term (if lease) _____

V. SUMMARY OF PROPOSED IDENTIFIED LAND USE: (Cite applicable section of Title 13-5, HAR. Attach additional sheet(s) as needed.)

VI. ENVIRONMENTAL REQUIREMENTS

Pursuant to Chapter 343, Hawaii Revised Statutes, and in accordance with Title 11; Chapter 200, Environmental Impact Statement Rules for applicant actions, a Draft Environmental Assessment of the proposed use must be attached. The Draft Environmental Assessment shall include, but not be limited to the following:

- (1) Identification of applicant or proposing agency;
- (2) Identification of approving agency, if applicable;
- (3) Identification of agencies consulted in making assessment;
- (4) General description of the action's technical, economic, social, and environmental characteristics;
- (5) Summary description of the affected environment, including suitable and adequate location and site maps;
- (6) Identification and summary of major impacts and alternatives considered, if any;
- (7) Proposed mitigation measures, if any;
- (8) Determination;
- (9) Findings and reasons supporting determination; and
- (10) Agencies to be consulted in the preparation of the EIS, if applicable.

Following the end of a 30-day review period for the Draft Environmental Assessment, any comments received along with their responses must be incorporated into the Final Environmental Assessment. If appropriate, the text, figures, tables, maps, and other ancillary parts of the Environmental Assessment should be revised.

CONSERVATION DISTRICT USE APPLICATION (Rev. 12/94)

VII. DESCRIPTION OF PARCEL

- A. Existing structures/use. (Attach description or map and one set of original photographs. Also, if applicable, include any previously obtained Federal, State and/or County permit approvals.)
- B. Existing utilities. (If available, indicate size and location on map. Include electricity, water, telephone, drainage, and sewerage.)
- C. Existing access. (Provide map showing roadways, trails, if any. Give street name. Indicate width, type of paving and ownership.)
- D. Flora and Fauna. (Describe and provide map showing location and types of flora and fauna. Indicate if rare or endangered native plants and/or animals are present.)
- E. Topography; if ocean area, give depths. (Submit contour maps for ocean areas and areas where slopes are 40% or more. Contour maps will also be required for uses involving tall structures, gravity flow and other special cases.)
- F. If shoreline area, describe shoreline. (Indicate if shoreline is sandy, muddy, rocky, etc. Indicate cliffs, reefs, or other features such as access to shoreline.)
- G. Existing covenants, easements, restrictions. (If State lands, indicate present encumbrances.)
- H. Historic sites affected. (If applicable, attach map and descriptions.)

VIII. COMMENCEMENT DATE: August 01, 1999

COMPLETION DATE: October 31, 1999

IX. CITE AND DESCRIBE IN DETAIL THE PROPOSED IDENTIFIED LAND USE: (Refer to Title 13-5, HAR. Attach additional sheets as needed.)

Barge is 50-feet wide by 120-feet long.

X. AREA OF PROPOSED USE: 1 sf at each of two boring locations
(Indicate in acres or sq. ft.)

XI. NAME AND DISTANCE OF NEAREST TOWN OR LANDMARK:

Honolulu International Airport, 0.4 miles

XII. LAND USE COMMISSION BOUNDARY INTERPRETATION: If the area is within fifty feet of the boundary of the Conservation District, include a map showing the interpretation of the boundary by the State Land Use Commission.

CONSERVATION DISTRICT USE APPLICATION (Rev. 12/94)

- XIII. SUBZONE BOUNDARY DETERMINATION: Prior to the department receiving for processing any application for a permit, if the applicant's proposed land use lies within fifty feet of a subzone boundary, the applicant shall first notify the department of the intended use and seek a determination of the precise boundary of the subzone with respect to the parcel in question. (Refer to Section 13-5-17, HAR.)
- XIV. FEES. Each application shall be accompanied by such filing fees as specified in Chapter 13-5, HAR. All fees shall be in the form of cash, certified or cashier's check, and payable to the State of Hawaii.
- XV. PLANS. All applications shall contain associated plans such as a location map, site plan, floor plan, elevations and landscaping plans drawn to scale. Additionally, all plans should include a north arrow and graphic scale.
- A. Area Plan. Area plan should include but not be limited to relationship of proposed uses to existing and future uses in abutting parcels; identification of major existing facilities; names and addresses of adjacent property owners.
 - B. Site Plan: Site plan (maps) should include, but not be limited to, dimensions and shape of lot; metes and bounds, including easements and their use; existing features, including vegetation, water area, roads, and utilities. (For Site Plan Approvals, see Section 13-5-38, HAR.)
 - C. Construction Plan: Construction plans should include, but not be limited to, existing and proposed changes in contours; all buildings and structures with indicated use and critical dimensions (including floor plans); open space and recreation areas; landscaping, including buffers; roadways, including widths; offstreet parking area; existing and proposed drainage; proposed utilities and other improvements; revegetation plans; drainage plans including erosion sedimentation controls; and grading, trenching, filling, dredging or soil disposal.
 - D. Maintenance Plans: For all uses involving power transmission, fuel lines, drainage systems, unmanned communication facilities and roadways not maintained by a public agency, plans for maintenance shall be included.
 - E. Management Plans: If required, refer to Section 13-5-39, HAR, and Exhibit 3, entitled "Management Plan Requirements, dated September 6, 1994.
 - F. Historic or Archaeological Site Plan. Where there exists historic or archaeological sites on the State or Federal Register, a plan must be submitted including a survey of the site(s); significant features; protection, salvage, or restoration plans.

CONSERVATION DISTRICT USE APPLICATION (Rev. 12/94)

XVI. DEMONSTRATE THAT THE PROPOSED USE IS CONSISTENT WITH THE FOLLOWING CRITERIA:

1. The proposed land use is consistent with the purpose of the Conservation District;
2. The proposed land use is consistent with the objectives of the subzone of the land on which the use will occur;
3. The proposed land use complies with provisions and guidelines contained in Chapter 205A, Hawaii Revised Statutes (HRS), entitled "Coastal Zone Management," where applicable;
4. The proposed land use will not cause substantial adverse impact to existing natural resources within the surrounding area, community or region;
5. The proposed land use, including buildings, structures and facilities, shall be compatible with the locality and surrounding areas, appropriate to the physical conditions and capabilities of the specific parcel or parcels;
6. The existing physical and environmental aspects of the land, such as natural beauty and open space characteristics, will be preserved or improved upon, whichever is applicable;
7. Subdivision of land will not be utilized to increase the intensity of land uses in the Conservation District; and
8. The proposed land use will not be materially detrimental to the public health, safety and welfare.

**CONSERVATION DISTRICT USE PERMIT
APPLICATION AND
FINAL ENVIRONMENTAL ASSESSMENT**

**PROPOSED OVERWATER
DRILLING AND SAMPLING,
KEEHI LAGOON,
HONOLULU, OAHU, HAWAII**

Prepared for:

Hawaii Fueling Facilities Corporation
Honolulu International Airport
300 Rodgers Boulevard
Honolulu, Hawaii 96819

August 6, 1999

Prepared by:

URS Greiner Woodward Clyde
1144 Tenth Avenue, Suite 200
Honolulu, Hawaii 96816-2497

BENJAMIN J. CAYETANO
GOVERNOR



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS DIVISION
400 RODGERS BOULEVARD, SUITE 700
HONOLULU, HAWAII 96819-1880

KAZU HAYASHIDA
DIRECTOR

DEPUTY DIRECTORS
BRIAN K. MINAII
GLENN M. OKIMOTO

IN REPLY REFER TO:

AIR - P
99.0285

May 4, 1999

Mr. John Thatcher
Executive Director
Airlines Committee of Hawaii
Honolulu International Airport
300 Rodgers Boulevard, #62
Honolulu, Hawaii 96819

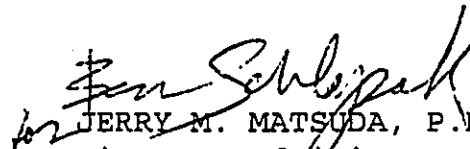
Dear Mr. Thatcher:

Subject: Conservation Use Permit Application

We have received the Conservation Use Permit Application and the Draft Environmental Assessment (EA) for the proposed Overwater Drilling Sampling in Keehi Lagoon. We recommend approval for the application and accept the draft EA as written. I have signed page 3 as the "Landowner" as requested.

If we can be of any additional assistance, please call Terry Kearney, Environmental Engineer, at 838-8817.

Sincerely,


JERRY M. MATSUDA, P.E.
Airports Administrator

Enclosure: Permit application

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

PROJECT: Geotechnical Exploration for
Keehi Lagoon Fuel Oil Pipeline

LOCATION: Keehi Lagoon, Honolulu, Oahu, Hawaii
Tax Map Key: 1-1-070 and 1-2-25

LANDOWNER: State of Hawaii
Department of Transportation
Airports Division
400 Rodgers Boulevard
Honolulu, Hawaii 96819
Contact Person: Jerry Matsuda, Administrator
Telephone: (808) 838-8600
Facsimile: (808) 838-8750

APPLICANT: Hawaii Fueling Facilities Corporation
Honolulu International Airport
300 Rodgers Boulevard
Honolulu, Hawaii 96819
Contact Person: John Thatcher, Executive Director/VP
Telephone: (808) 836-1960
Facsimile: (808) 836-4776

AGENT: URS Greiner Woodward Clyde
1144 Tenth Avenue, Suite 200
Honolulu, Hawaii 96816-2497
Contact Person: James Kwong, Ph.D., P.E.
Telephone: (808) 737-5300
Facsimile: (808) 739-5572

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APPENDIX A CORRESPONDENCE

City and County of Honolulu, Department of Planning and Permitting, 1999/CLOG-3029 (ASK), from Ms. Jan Naoe Sullivan, Director of Planning and Permitting, dated May 11, 1999

State of Hawaii, Department of Land and Natural Resources, Historic Preservation Division, Log No. 23243, Doc. No. 9904EJ10, from Mr. Don Hibbard, Administrator, State Historic Preservation Division, dated April 20, 1999

U.S. Department of the Interior, Fish and Wildlife Service, Letter from Mr. Robert P. Smith, Pacific Islands Manager, dated April 20, 1999

APPENDIX B DRAFT EA COMMENTS AND RESPONSES

State of Hawaii, Department of Transportation, Letter STP8.9129 from Kazu Hayshida, Director of Transportation, dated June 25, 1999

State of Hawaii, Office of Environmental Quality Control, Letter from Ms. Genevieve Salmonson, Director, dated July 12, 1999

State of Hawaii, Department of Health, Letter 99-123/epo from Mr. Gary Gill, Deputy Director for Environmental Health, dated July 7, 1999

Department of the Army, U.S. Army Engineer District, Civil Works Technical Branch Letter from Mr. Paul Mizue, P.E., Acting Chief, dated June 21, 1999

State of Hawaii, Department of Land and Natural Resources, Division of Aquatic Resources, Letter from Mr. Richard Sixberry, Aquatic Biologist, dated July 1, 1999

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

1.0 INTRODUCTION

1.1 Identification of Applicant, Agent, and Landowner

This conservation district use (CDU) application for the Hawaii Fueling Facilities Corporation (HFFC, the applicant), Oahu, Hawaii is being performed by URS Greiner Woodward Clyde (URSGWC, the agent) under contract with HFFC. The landowner of the proposed overwater drilling site is the State of Hawaii, Airports Division.

Figure 1 shows the project site location. The proposed overwater geotechnical exploration activities are located within the City and County of Honolulu, Real Property Assessment Division, Tax Map Key (TMK) 1-1-070 and 1-2-025 (Figure 2). The State DLNR has a pipeline easement that extends from TMK 1-2-025 to TMK 1-1-070. The State DOT, Airports Division owns TMK 1-1-070 and 1-2-025. HFFC leases property on TMK 1-2-025 from the State.

The project site is the property of the State of Hawaii, Department of Transportation, Airports Division according to Executive Order 1016. Keehi Lagoon, an offshore natural water body, is classified by the State of Hawaii, Department of Land and Natural Resources (DLNR) as a "Resource (R)" subzone (Figure 3). According to Hawaii Administrative Rules, Chapter 13-5, the objective of the "R" designation is to develop, with proper management, areas to ensure sustained use of the natural resources of those areas.

All areas noted are classified by the City and County of Honolulu, Department of Land Utilization as Industrial as depicted on Figure 4. Most of the areas are designated I-2 (60') for Intensive Industrial, except for the small area where the potential pipeline alignment begins near the boat marina is classified as I-3 (60') for Waterfront Industrial. The intent of the I-2 designation is to set aside areas for the full range of industrial uses necessary to support the city. The intent of the I-3 designation is to set apart and protect areas considered vital to the performance of port functions and to their efficient operation.

In addition, the Department of Planning and Permitting of the City and County of Honolulu stated that the project is not within the Special Management Area (see Appendix A).

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

1.2 Identification of Proposed Land Use

The purpose of this project is to evaluate the feasibility of installing a new 10-inch diameter, approximately 5,000-foot long, underwater, jet fuel (kerosene) pipeline using trenchless horizontal directional drilling methods (HDD). The project's feasibility will be evaluated by drilling two exploratory borings to depths of approximately 50 to 100 feet below the mudline, or to elevation of -120 feet below mean sea level. According to Section 13-5-22 of Title 13-5, Hawaii Revised Statutes, the proposed identified land use that most closely corresponds to the drilling of the borings is:

P-1 DATA COLLECTION

(D-1) Basic data collection, research, education, and resource evaluation that involves a land use causing ground disturbances (e.g., exploratory wells).

The proposed action requires the applicant to file for a Departmental Permit.

2.0 GENERAL DESCRIPTION OF THE PROPOSED ACTION'S TECHNICAL, ECONOMIC, SOCIAL, AND ENVIRONMENTAL CHARACTERISTICS

The purpose of this project is to drill two overwater exploratory borings to evaluate the feasibility of installing a new 10-inch diameter, approximately 5,000-foot long, underwater, jet fuel (kerosene) pipeline using trenchless horizontal directional drilling methods. The new pipeline will replace two existing 6-inch diameter pipelines located in Keehi Lagoon. Keehi Lagoon is located at the south-central portion of the island of Oahu, near the HIA and the junction of Nimitz Highway and Lagoon Drive (Figure 1). The potential alignment, shown on Figure 5, starts at the pump station on HFFC's Lot 3 Tank Farm on Sand Island Access Road and extends west under Keehi Lagoon to an area just south of Keehi Lagoon Park near the HIA. Figure 6 depicts some of HFFC's facilities in the project area, including the Lot 3 Tank Farm.

The proposed feasibility evaluation includes drilling two (2) overwater borings using a barge-mounted drill rig. The approximate locations of the borings are shown on Figure 5. The borings will be drilled using a 4-inch diameter, steel casing and a 3-inch diameter wireline casing system

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

so that the water used during drilling and sampling will return from inside the casing directly back to the barge. Baffled sediment tanks on the barge will filter the drilling water. Return drilling water will return to the cased drill hole, while the sediment will be collected and properly disposed of on-land. The drilling is planned in areas that have been formerly dredged during the construction of the nearby seaplane runway. Therefore, no adverse environmental impacts are expected to occur as a result of this geotechnical exploration.

The drilling of the borings is expected to take place in August 1999, or as soon as possible, i.e., as soon as the necessary permit(s) are obtained. The geotechnical exploration is estimated to cost \$40,000.

3.0 LIST OF AGENCIES

The following is list of agencies that were consulted during the preparation of this CDU permit application and EA. (Correspondence with comments and responses are provided in Appendices A and B).

3.1 Federal Government

- Department of the Army, U.S. Army Engineer District
- Department of the Interior, Fish and Wildlife Service
- National Marine Fisheries Service, Pacific Islands Area Office

3.2 State of Hawaii

- Department of Health
- Department of Land and Natural Resources
 - Division of Aquatic Resources
 - Division of Boating and Ocean Recreation

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

- Historic Preservation Division
- Land Division
- Department of Transportation
 - Airports Division
- Office of Environmental Quality Control

3.3 City and County of Honolulu

- Department of Planning and Permitting

4.0 DESCRIPTION OF THE AFFECTED ENVIRONMENT

4.1 Existing Structures and Utilities

There are several existing jet fuel oil (kerosene) pipelines already in the area. HFFC, Chevron, and Tesoro currently own and operate the existing pipelines, located in the previously mentioned DLNR pipeline easement. These pipelines consist of HFFC's two (2) 6-inch and one (1) 10-inch diameter pipelines; Chevron's three (3) 4-inch and three (3) 10-inch diameter pipelines; and Tesoro's one (1) 10-inch diameter pipeline. The potential pipeline alignment is approximately parallel to the existing pipelines. The potential pipeline alignment starts at HFFC's facilities on Sand Island Access Road, traverses westerly under Keehi Lagoon and a portion of the seaplane runway approximately 100 to 150 feet south of the southernmost existing pipeline (Texaco) to Lagoon Drive, and continues southerly along the shoreline an average of approximately 10 feet east of and almost parallel to Lagoon Drive, finally connecting at HFFC's existing pipeline as shown in Figure 5.

Figure 6 shows the location of some of the existing HFFC facilities located on either end of the potential pipeline. HFFC facilities consist of a Tank Farm (Lot 2 and Lot 3) on the west end of the alignment, and Storage Tanks at the Airport located on the east end of the alignment.

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

4.2 Existing Access

Access to the facilities located near the east end of the alignment is accomplished via Sand Island Access Road, which has four-lanes and is asphalt-paved. Access to the facilities located near the east end of the alignment is accomplished via Lagoon Drive, which has four-lanes and is asphalt-paved. Lagoon Drive and Sand Island Access Road are connected by Nimitz Highway, a 6-lane, asphalt paved, highway. Lagoon Drive and Nimitz Highway are owned and operated by the City and County of Honolulu; Sand Island Access Road by the State Department of Transportation.

4.3 Flora and Fauna

The U.S. Department of the Interior, Fish and Wildlife Service was consulted in writing regarding the presence of federally endangered, threatened, or candidate species, plant, or wildlife which normally reside within the project area. Their response to URSGWC's letter, provided in Appendix A, stated that the Hawaiian stilt, federally listed as Endangered, may occur within the vicinity of the proposed project area. The National Marine Fisheries Service (NMFS), Pacific Islands Area Office was also consulted, but no written response was obtained at the time of this writing. It does not seem to appear that such species will be found within the project area. In addition, because the project will be located within a previously disturbed site, significant adverse impacts to fish and wildlife resources due to the overwater, barge-based soil sampling are not anticipated.

4.4 Topography

In general, land elevations around Keehi Lagoon, near Sand Island, and the respective surrounding area range from 0 to 8 feet above mean sea level (msl) (USGS, 1983). The project would occur upon State of Hawaii, Airports Division property. Utilities are currently available at both ends, however these existing utilities would not be disrupted by the project.

The ocean elevations in Keehi Lagoon through which the potential pipeline will traverse range from 6 to -38 feet below msl (USGS, 1983). The potential pipeline alignment consists of 5 major legs, and will be installed at a depth of approximately 104 feet below msl at its lowest point. Figure 5 provides the proposed plan and profile of the potential pipeline alignment.

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

4.5 Geology

The project is located near the shoreline on both ends of the potential pipeline alignment. The shoreline consists of rocks and sand, including coral and manmade reefs. Access to the shoreline accomplished by nearby City and County paved roads.

The soil underlying the project sites, including areas near the shoreline, consists of *Fill land, mixed* (FL), which is usually found in areas adjacent to the ocean such as Pearl Harbor and Honolulu. FL consists of materials dredged from the ocean or hauled from nearby areas, debris, and general materials from other sources. The land type is used for urban development including airports, housing areas, and industrial facilities (Foote, 1972).

4.6 Existing Easements

The State DLNR, Land Division and Division of Boating and Ocean Recreation was consulted as to the existence of possible easements in or near the project site. As discussed previously, a 15-foot wide, approximately 4,000-foot long, pipeline easement, depicted in Figure 7, does exist in the immediate area, and extends from an area of existing tank farms south of Pier 60 to Kalewa Drive just south of Keehi Lagoon Park near the HIA. This location coincides with the three existing fuel oil pipelines depicted in Figure 5.

4.7 Historic Sites

The State DLNR, Historic Preservation Division was consulted in writing regarding known or possible historic sites within the project area. Their response to URSGWC's letter, provided in Appendix A, stated that there are no known historic sites at the project location. As previously discussed, there are already existing fuel oil pipelines in the area and the area has been dredged for the seaplane runway.

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

**5.0 IDENTIFICATION AND SUMMARY OF MAJOR IMPACTS AND PROPOSED
MITIGATION MEASURES**

The only major impact foreseen due to this project is the possible affects to coastal waters; however, the following mitigation measures will be used to effectively curtail any adverse effects.

As previously discussed, the overwater borings will be drilled using a 4-inch diameter, steel casing and a 3-inch diameter wireline casing system so that the water used during drilling and sampling will return from inside the casing directly back to the barge. Baffled sediment tanks on the barge will filter the drilling water. Return drilling water will return to the cased drill hole, while the sediment will be collected and properly disposed of on-land.

All collected drilling water and spoils will be stored in 5-gallon buckets. No collected drilling fluids will be discharged into State waters. If there is no observable staining or odor, the normal geotechnical laboratory testing will be performed. If staining or odor is detected, TPH, TCLP for eight RCRA metals, VOCs, BTEX, PCBs, flash point, and paint filter test will be performed to determine if the sediment is a hazardous waste (as required by landfills managed by Waste Management of Hawaii, Inc. who follow 40 CFR 280). The Nanakuli Soil Reclamation Facility, who follows the State DOH UST Technical Guidance Manual, requires additional analyses for total cadmium and lead and PAHs, but only requires TCLP for cadmium, chromium, and lead. If the results are acceptable to the landfill, the material will be disposed of at their facilities. If the results are not acceptable, the sediment will be transported to the U.S. Mainland for proper disposal.

The drilling is planned in areas that have been formerly dredged during the construction of the nearby seaplane runway. Therefore, no adverse environmental impacts are expected to occur as a result of this geotechnical exploration.

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

6.0 ALTERNATIVES TO THE PROPOSED ACTION

6.1 No Action

If the no action alternative were taken, the existing fuel pipeline would continue to be used possibly with detrimental effects to the environment as its useful life diminishes. This is not an acceptable alternative to HFFC or the customers served by HFFC. Implementation of this project would enable HFFC to provide the HIA with an efficient and structurally intact fuel pipeline conveyance system for many years.

7.0 DETERMINATION

This CDU permit application and final EA has characterized the technical and environmental issues of the proposed project, and identified potential impacts and their significance. It is determined that the proposed project will not significantly impact the environment. Therefore, a Negative Declaration and a Finding of No Significant Impact (FONSI) is determined, and an EIS is not required for this project. This determination is based on the significance criteria listed in the EIS Rules, and addressed below:

1. The proposed project would not result in an adverse commitment, loss, or destruction or any natural or cultural resources. The project location is in the suburban neighborhood of Mapunapuna adjacent to the Honolulu International Airport and the center of Honolulu. The project will traverse Keehi Lagoon, but this has already been done in the past with the installation of at least three other pipelines and the seaplane runway, i.e., there will be no change in land use.
2. The range of beneficial uses of the environment would not be curtailed.
3. The project would not conflict with the State's long-term environmental policies of goals and guidelines and any revisions thereof and amendments thereto, court orders, or executive orders. The project is consistent with the purpose of the Conservation District and with the objectives of the subzone of the land on which the use will occur. The project supports the City's intent of the Industrial zoning designation of

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

the subject properties in that the Honolulu International Airport and therefore the City are supported and benefited from this project. No subdivision of land will occur.

4. The proposed project would not adversely affect the economic or social welfare or the community or state. On the contrary, the project will aid in the growth of the City and the HIA through improved fueling facilities.
5. The proposed land use will not be materially detrimental to the public health, safety, and welfare.
6. The project would not involve substantial adverse secondary impacts, such as population changes or effects on public facilities. The proposed land use, including buildings, structures and facilities, is compatible with the locality and surrounding areas, appropriate to the physical conditions and capabilities of the specific parcels.
7. The project would not involve a substantial degradation of environmental quality. As discussed, the water used during drilling and sampling will return from inside the casing directly back to the barge. Baffled sediment tanks on the barge will filter the drilling water. Return drilling water will return to the cased drill hole, while the sediment will be collected and properly disposed of on-land.
8. The project would not include considerable cumulative effect upon the environment nor involves a commitment for larger actions.
9. The proposed land use will not cause substantial adverse impacts to existing natural resources within the surrounding area, community, or region. No rare, threatened, or endangered species, or its habitat, will be adversely affected.
10. The project would not detrimentally affect air quality, water quality, or ambient noise levels. The contractor would be instructed to comply with current State regulations.
11. The project would not affect an environmentally sensitive area such as a flood plain, tsunami and hurricane zone, erosion-prone area, geological hazardous land, estuary,

**CONSERVATION DISTRICT USE APPLICATION
WITH FINAL ENVIRONMENTAL ASSESSMENT**

or fresh waters; however, will involve coastal waters. As discussed previously, the project will not change from current land uses and every effort will be made to minimize any adverse effects to the environment.

12. The project does not adversely affect identified scenic vistas or view planes, and the existing physical and environmental aspects of the land, such as natural beauty and open space characteristics, will be preserved.

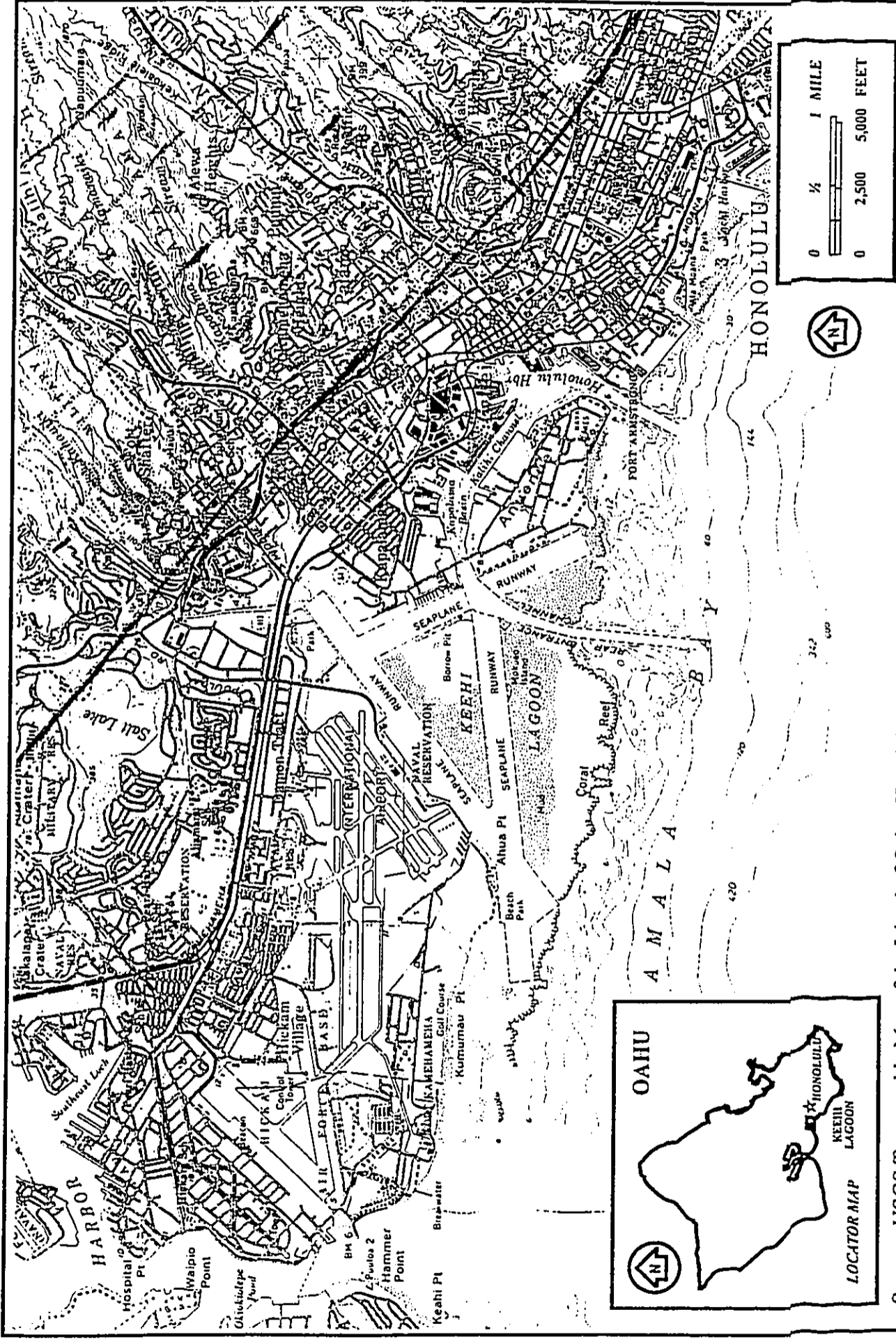
13. The project does not require substantial energy consumption.

8.0 REFERENCES

Documents reviewed during preparation of this CDU permit application and final EA include:

- City and County of Honolulu, Department of Finance, Real Property Assessment Division. *Tax Map and Ownership Records: Island 1, Zone 1, Section 1, Plat 070 and Island 1, Zone 1, Section 2, Plat 025.*
- City and County of Honolulu, Department of Land Utilization. *Land Use Ordinance.* August 1997.
- City and County of Honolulu, Department of Land Utilization. *Zoning Maps 5 and 6.*
- Foote, Donald E., et al. U.S. Department of Agriculture, Soil Conservation Service. *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii.* August 1972.
- State of Hawaii, Department of Land and Natural Resources, Division of Boating and Ocean Recreation. *Pipeline Easement Map.*
- State of Hawaii, Department of Land and Natural Resources, Division of Water and Land Development. *Hawaii Administrative Rules, Title 13, Chapter 5, Conservation District and Conservation District Map.* September 6, 1994.

FIGURES



Source: USGS Topographic Map of the Island of Oahu, Honolulu County, Hawaii, 1954

C100003554

CDU PERMIT APPLICATION & ENVIRONMENTAL ASSESSMENT

URS GREINER WOODWARD CLYDE

PROJECT LOCATION
KEEHI LAGOON, OAHU, HAWAII

FIGURE
1

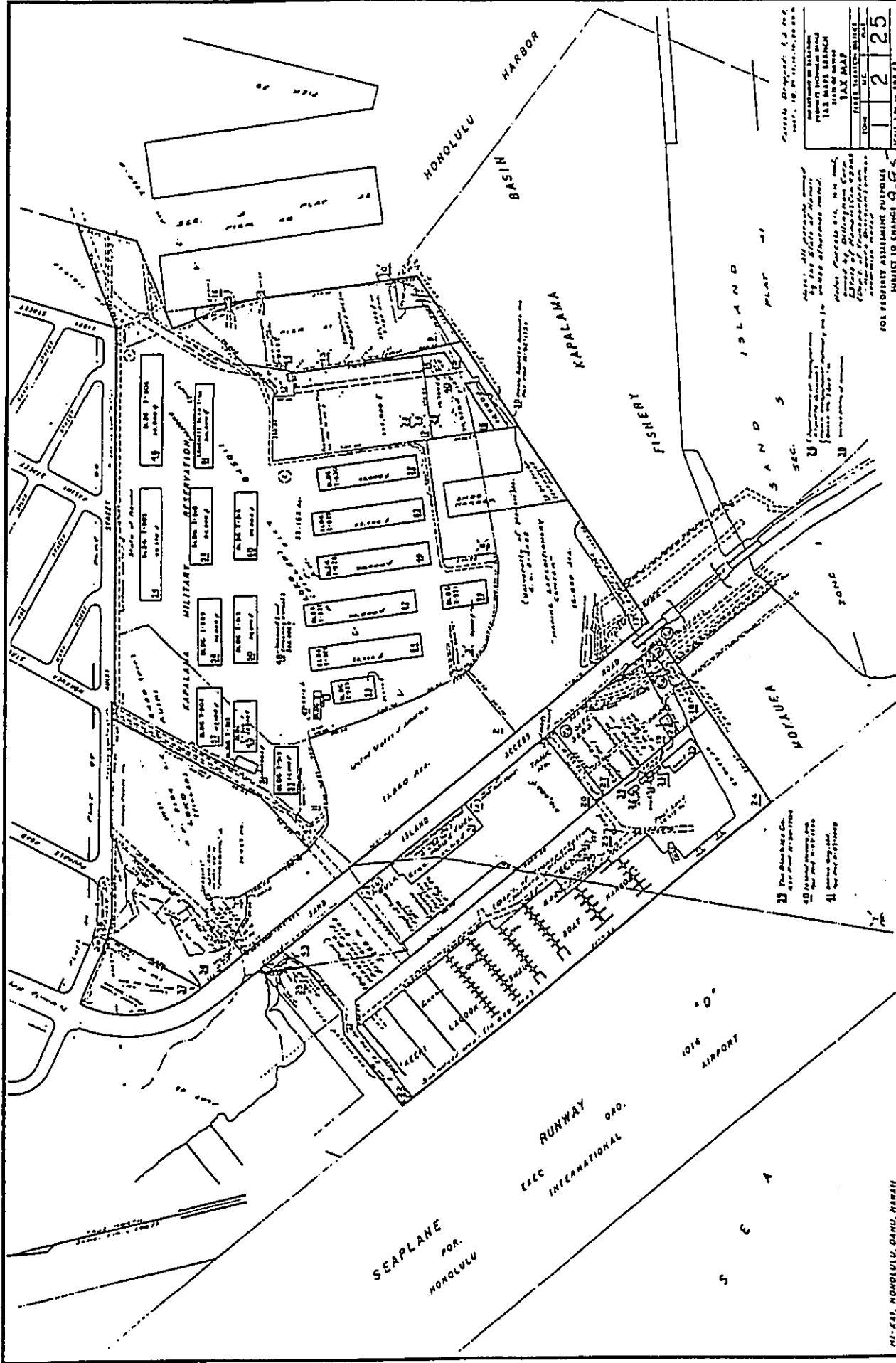
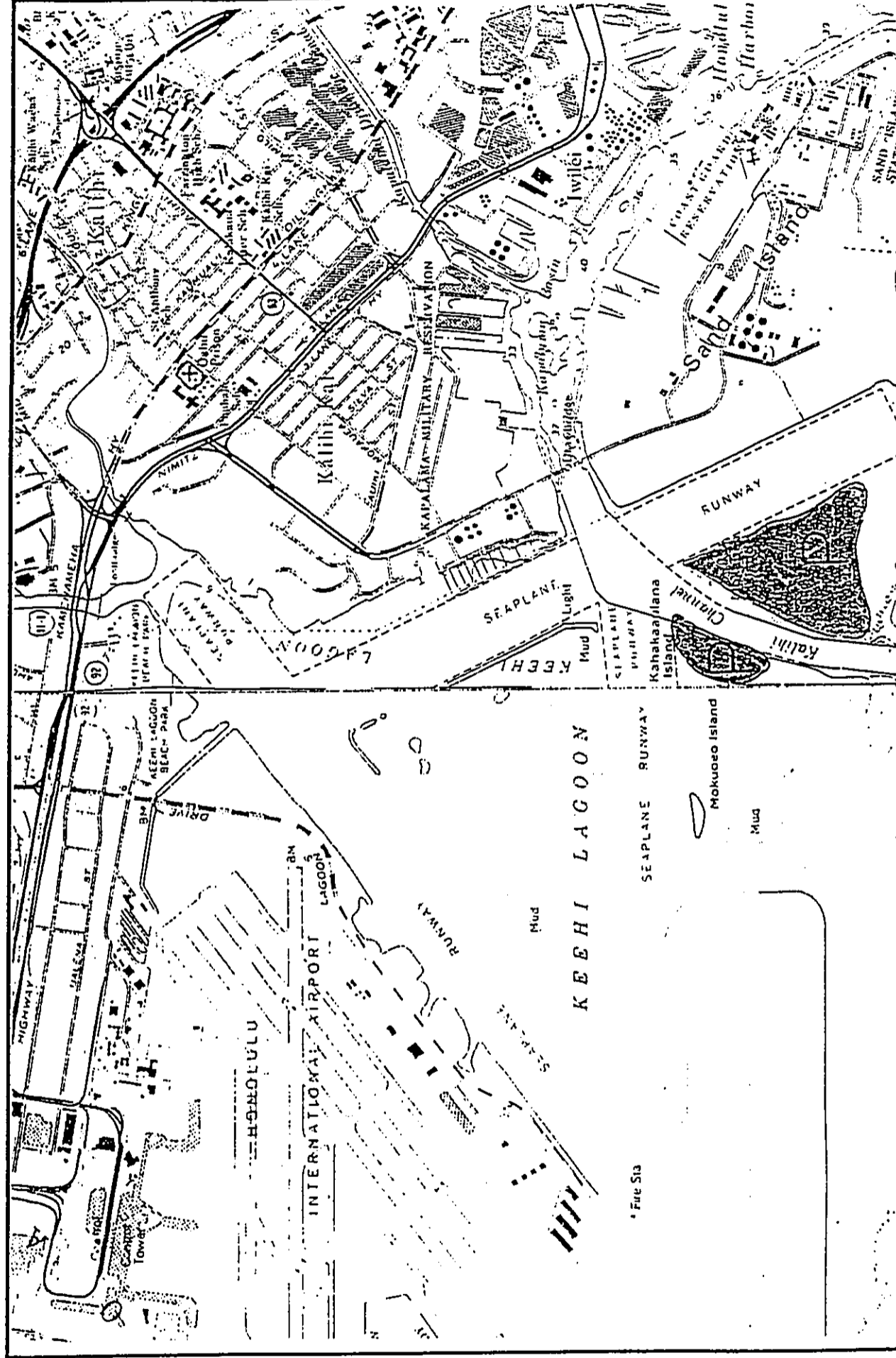


FIGURE 2B

TAX MAP
TMK 1-2-025

CDU PERMIT APPLICATION & ENVIRONMENTAL ASSESSMENT

URS GREINER WOODWARD CLYDE



Source: State of Hawaii, Department of Land and Natural Resources, Land Division

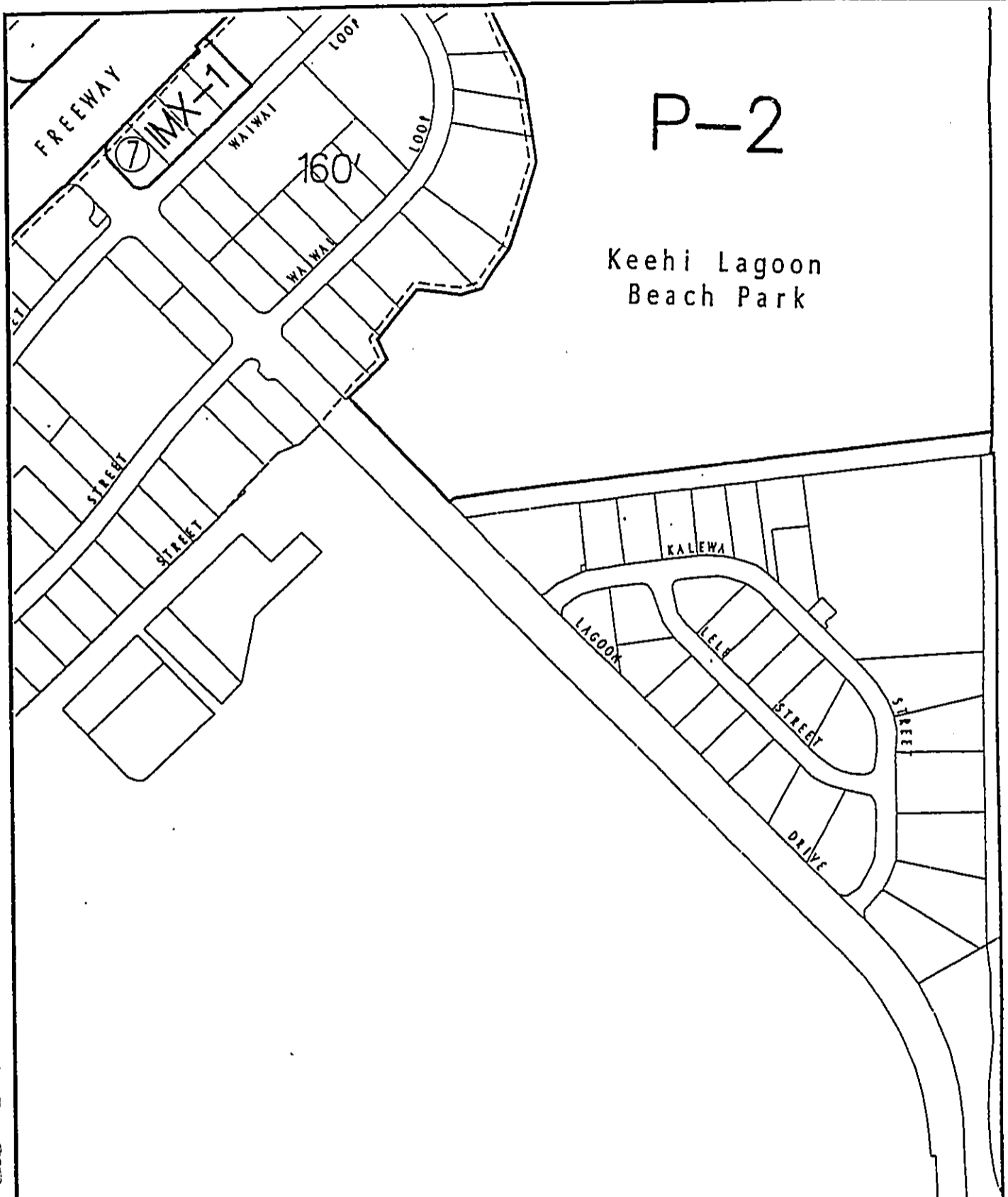
C100003554

CDU PERMIT APPLICATION & ENVIRONMENTAL ASSESSMENT

URS GREINER WOODWARD CLYDE

CONSERVATION DISTRICT MAP

FIGURE 3



P-2

Keehi Lagoon
Beach Park

Source: City and County of Honolulu, Department of Land Utilization

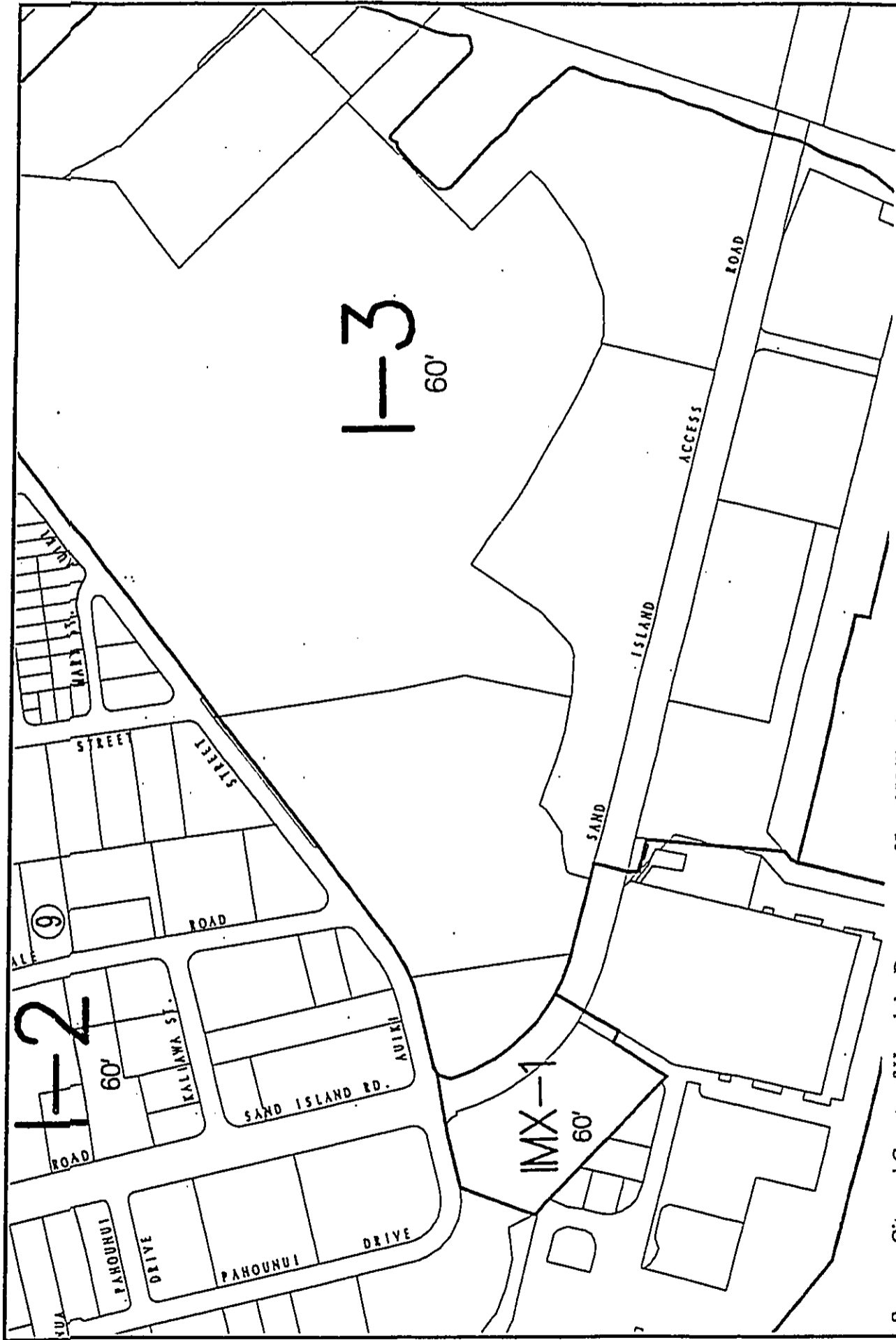
C100003554

CDU PERMIT APPLICATION &
ENVIRONMENTAL ASSESSMENT

URS GREINER WOODWARD CLYDE

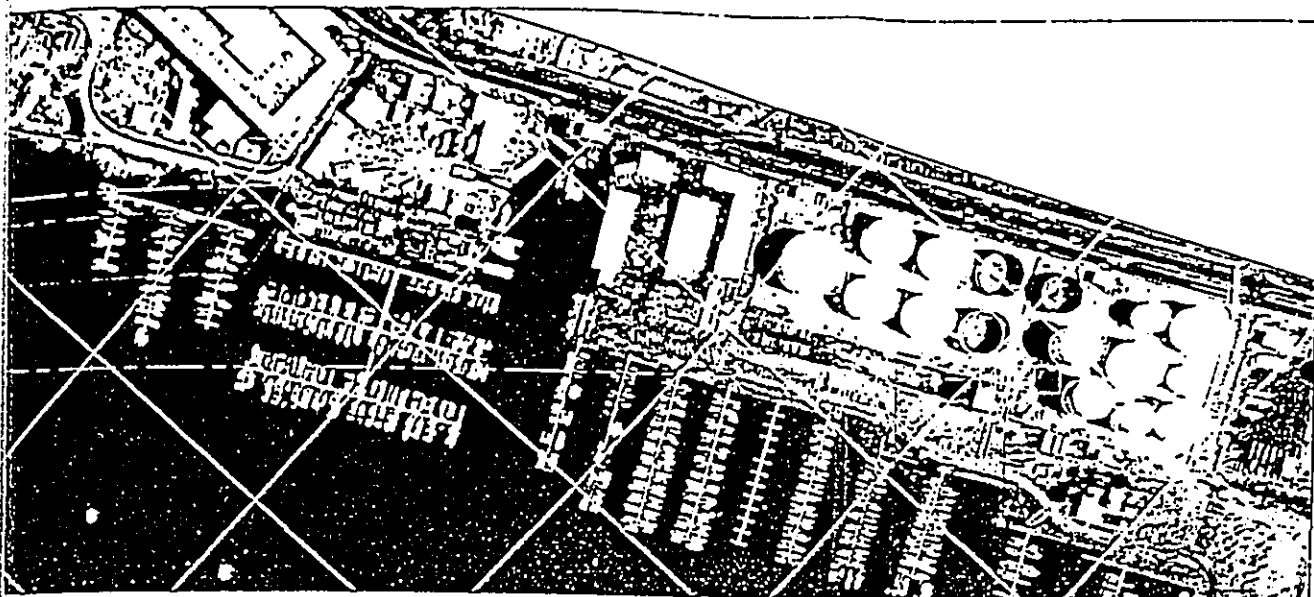
ZONING MAP
(TMK 1-1-070)

FIGURE
4A



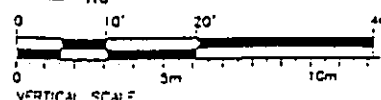
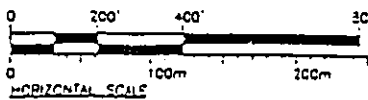
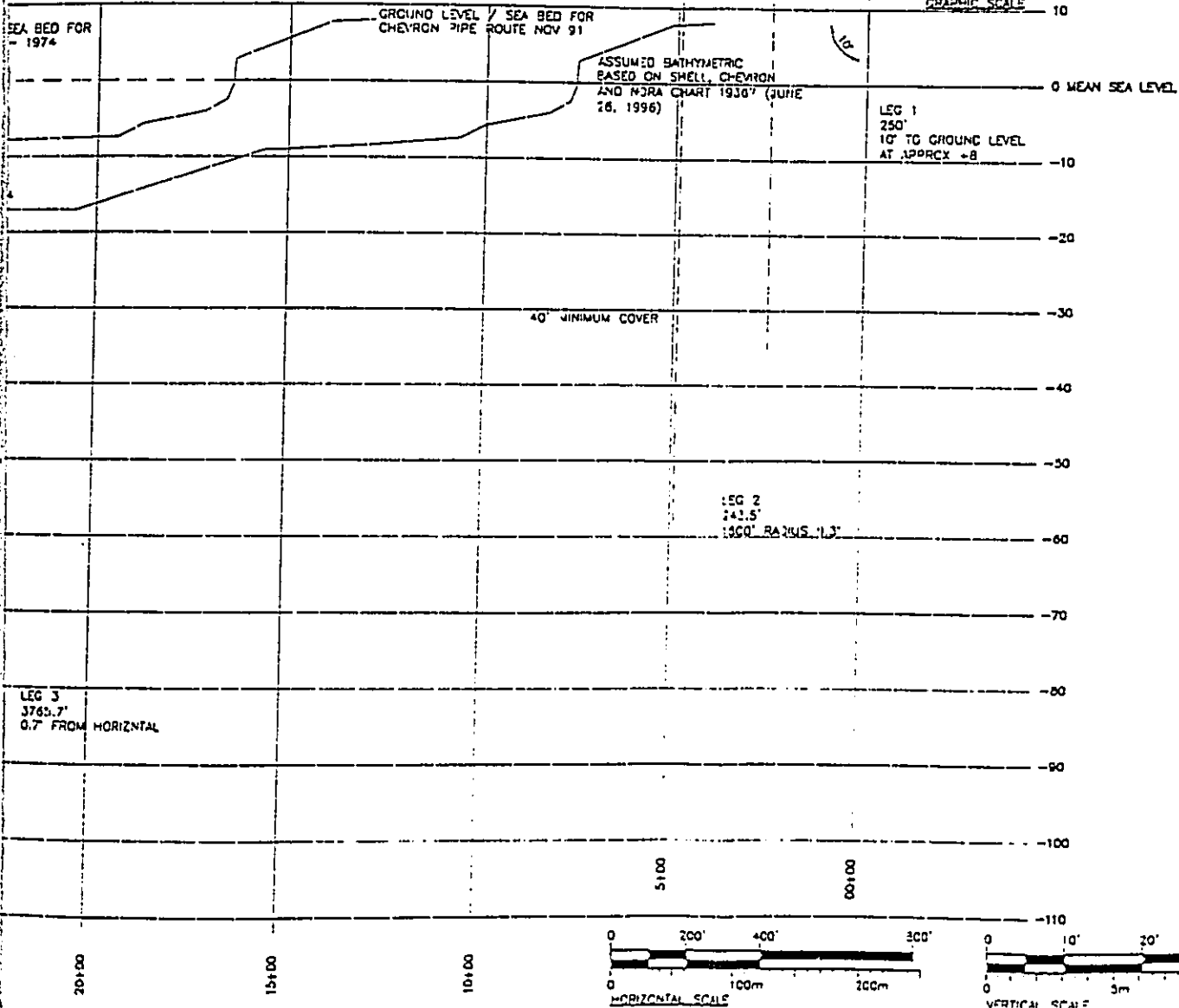
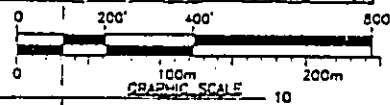
Source: City and County of Honolulu, Department of Land Utilization

C10003554	CDU PERMIT APPLICATION & ENVIRONMENTAL ASSESSMENT	ZONING MAP (TMK 1-2-025)	FIGURE 4B
URS GREINER WOODWARD CLYDE			



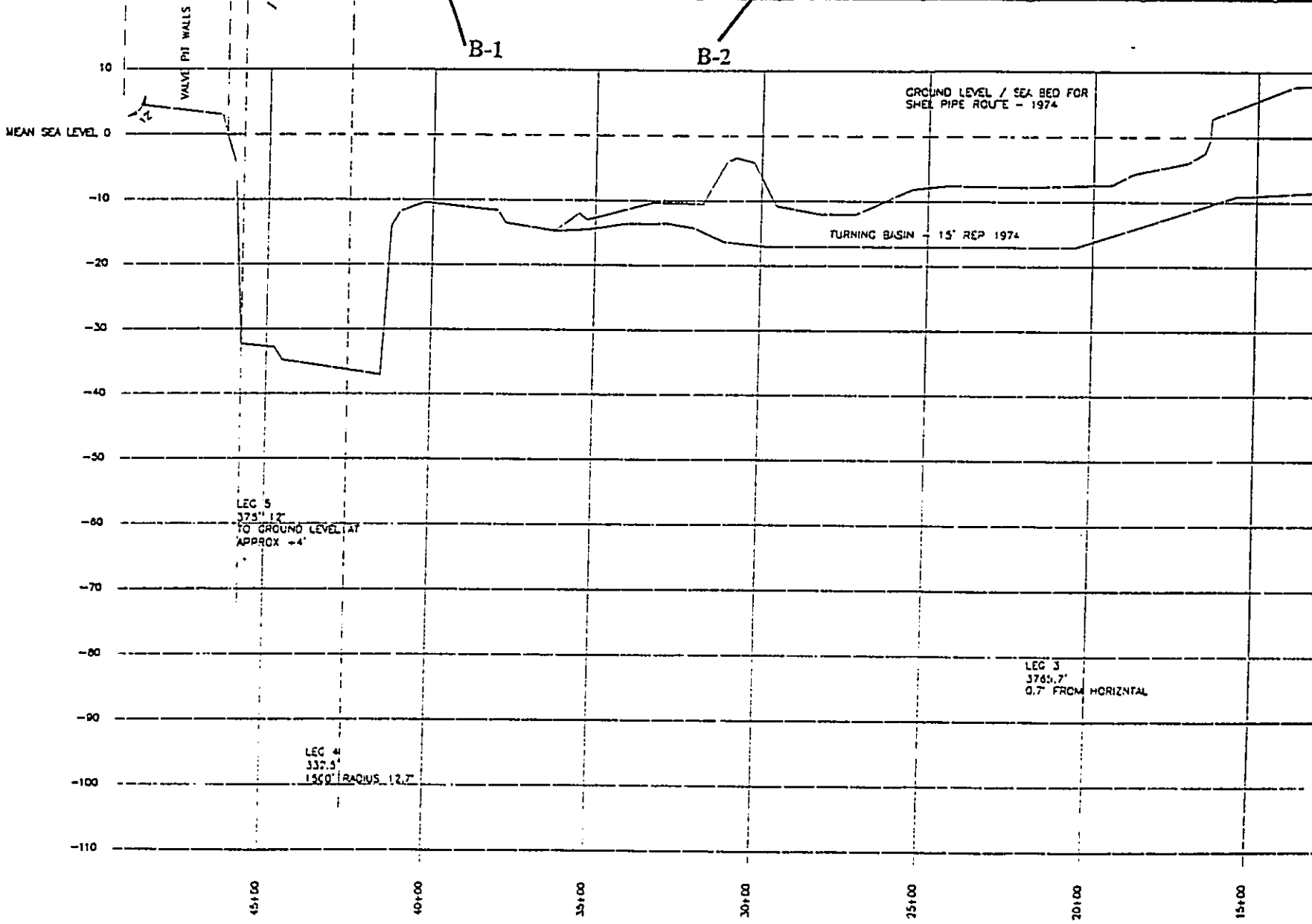
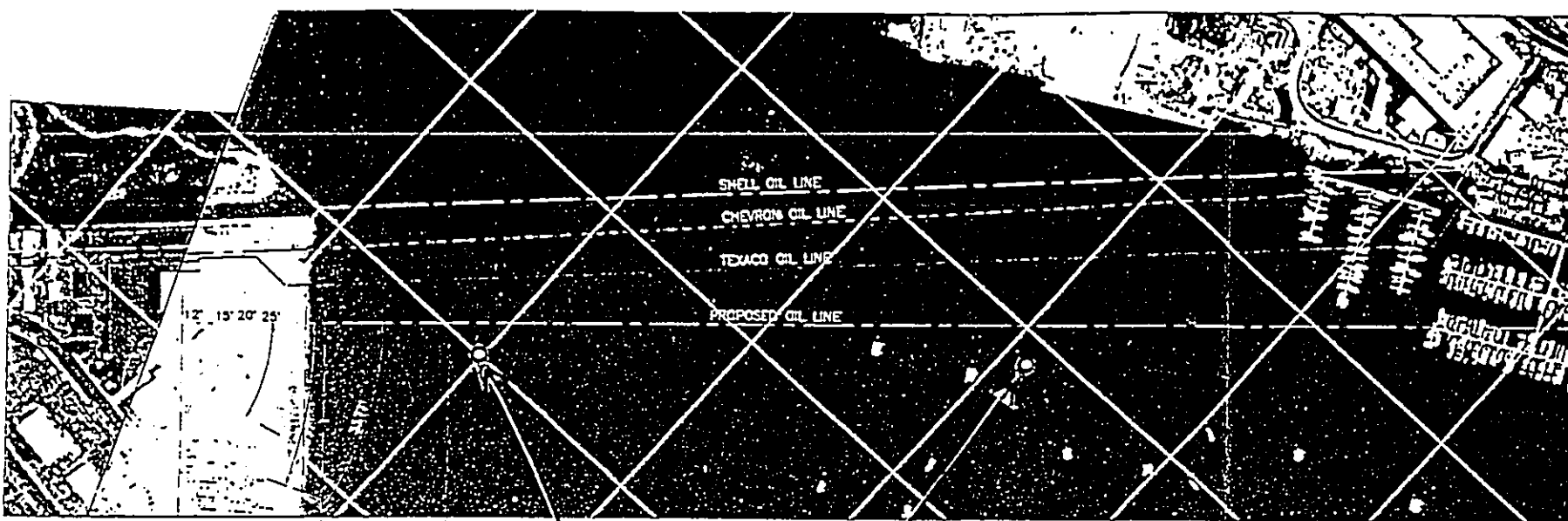
1 MAP GRID = 500'

PHOTOGRAPHS BY
AIR SURVEY HAWAII, INC.
PHOTO No.'s
1665 1-20 & 1-21
12-16-98



PRELIMINARY SET

International	HAWAII FUELING FACILITIES CORP HONOLULU, HAWAII		PLAN, PROFILE, PROPOSED BORINGS	HFFC NO. 20 SHE. NO. 1488 LEGS. NO. C10004L30 MAR-11-1998
			KEEHI LAGOON, PIPELINE CROSSING HONOLULU, HAWAII.	DRAWING NO. FIGURE 5

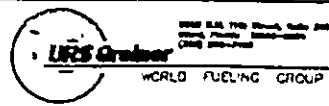


NO.	DATE	BY	DESCRIPTION OF REVISIONS

DESIGNED R.N.P.
 DRAWN N.J.R.
 CHECKED NAME

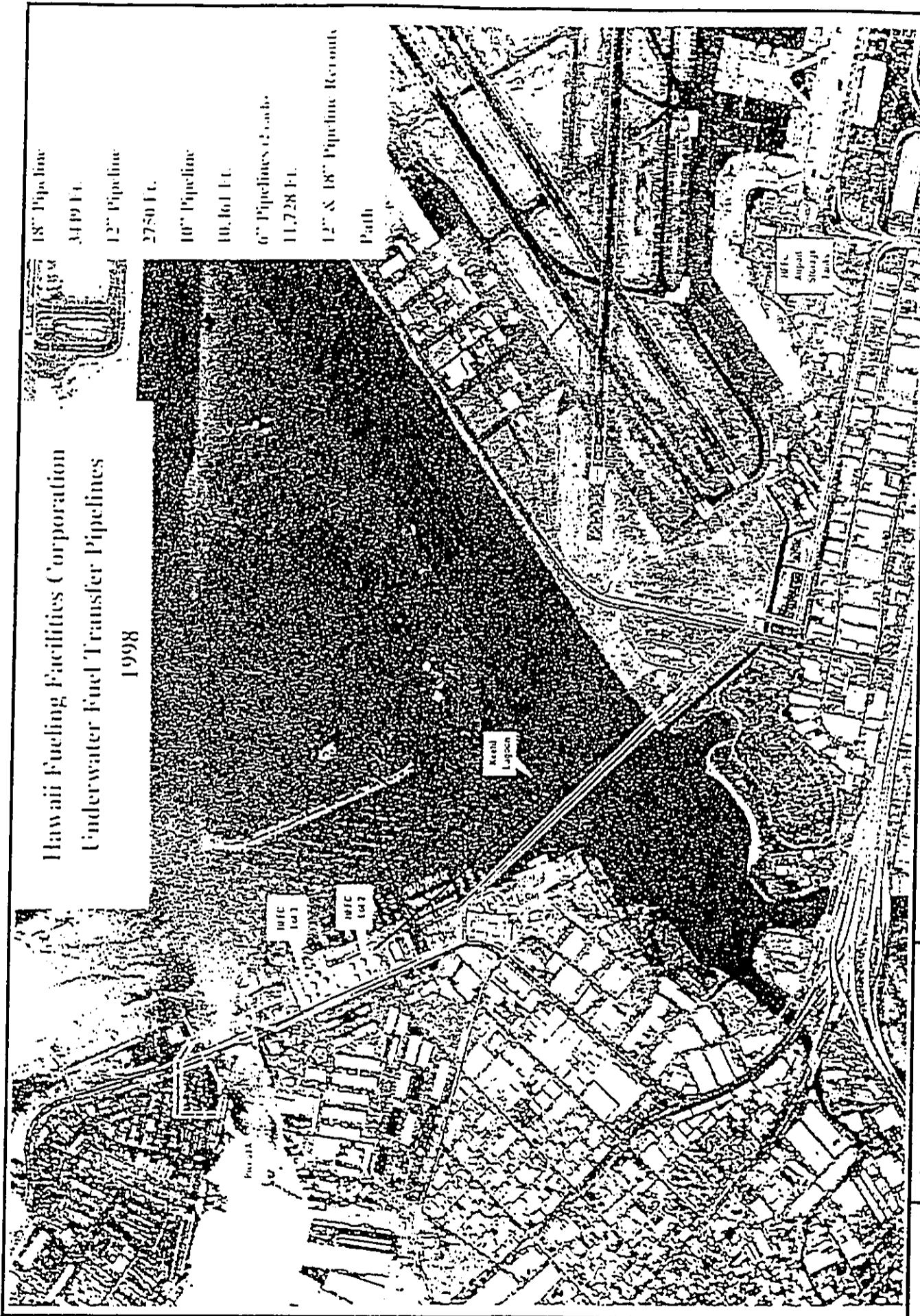
THE WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Signature



AIRPORT GROUP International

HAWAII FUELING HONOLULU



Hawaii Fueling Facilities Corporation
 Underwater Fuel Transfer Pipelines
 1998

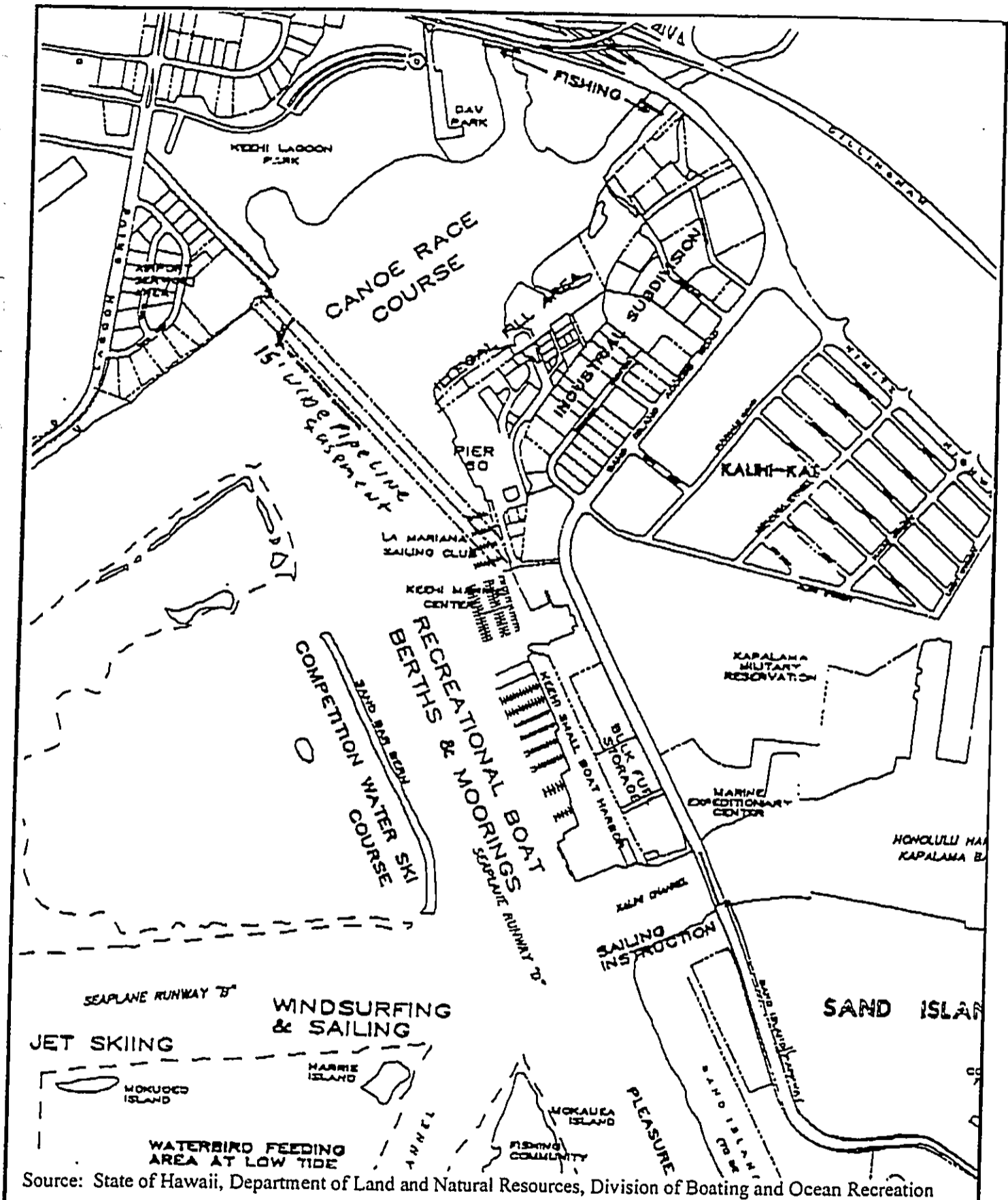
C100003554

CDU PERMIT APPLICATION &
 ENVIRONMENTAL ASSESSMENT

URS GREINER WOODWARD CLYDE

EXISTING HFFC FACILITIES

FIGURE
 6



Source: State of Hawaii, Department of Land and Natural Resources, Division of Boating and Ocean Recreation

C100003554	CDU PERMIT APPLICATION & ENVIRONMENTAL ASSESSMENT	EXISTING PIPELINE EASEMENT	FIGURE 7
URS GREINER WOODWARD CLYDE			

APPENDIX A

Correspondence

City and County of Honolulu, Department of Planning and Permitting, 1999/CLOG-3029 (ASK), from Ms. Jan Naoe Sullivan, Director of Planning and Permitting, dated May 11, 1999

State of Hawaii, Department of Land and Natural Resources, Historic Preservation Division, Log No. 23243, Doc. No. 9904EJ10, from Mr. Don Hibbard, Administrator, State Historic Preservation Division, dated April 20, 1999

U.S. Department of the Interior, Fish and Wildlife Service, Letter from Mr. Robert P. Smith, Pacific Islands Manager, dated April 20, 1999

MAY-11-99 TUE 15:55

PLANNING & PERMITTING

FAX NO. 8085276743

P. 01
Rvd/s

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

630 SOUTH KING STREET • HONOLULU, HAWAII 96813
PHONE: (808) 523-4414 • FAX: (808) 527-6743

JEREMY HARRIS
MAYOR



JAN NAOE SULLIVAN
DIRECTOR

LORETTA K.C. CHEE
DEPUTY DIRECTOR

1999/CLOG-3029 (ASK)

May 11, 1999

Ms. Bernice Pabingwit
Environmental Engineer
URS Greiner Woodward Clyde
1144 10th Avenue, Suite 200
Honolulu, Hawaii 96816-2497

Dear Ms. Pabingwit:

Special Management Area Review

Tax Map Key : Off-shore of Keehi Lagoon
Type of Project: Test drilling

The proposed project at the above location has been reviewed. We find that it:

- Is not within the Special Management Area.
- Is within the Special Management Area, but is not defined as "development" and is therefore, exempt (Section 25-1.3 [2][], Chapter 25, Revised Ordinances of Honolulu).

Should you have any questions, please contact the Coastal Lands Branch at 523-4077.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Jan Naoe Sullivan".

For JAN NAOE SULLIVAN
Director of Planning
and Permitting

JNS:am

posse doc no. 4324

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



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APR 26 1999

TIMOTHY E. JOHNS, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES
JANET E. KAWELO

DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
Kakuhihewa Building, Room 555
601 Kamokila Boulevard
Kapelei, Hawaii 96707

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
CONSERVATION AND RESOURCES
ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
LAND
STATE PARKS
WATER RESOURCE MANAGEMENT

April 20, 1999

Bernice M. B. Pabingwit
Senior Staff Engineer
URS Greiner Woodward Clyde
1144 10th Avenue, Suite 200
Honolulu, HI 96816-2497

LOG NO: 23243 ✓
DOC NO: 9904EJ10

Dear Ms. Pabingwit:

SUBJECT: Chapter 6E-42 Historic Preservation Review -- Jet Fuel Pipeline Within
Keehi Lagoon
Moanalua, Kona, O'ahu
TMK: 1-1

Thank you for the opportunity to review this project which proposes installation of an underwater jet fuel pipeline located in Keehi Lagoon, starting at the west shore of Keehi Lagoon and extending to the Hawaii Fueling Facilities Corporation Lot 3 Tank Farm on Sand Island Access Road. A review of our records shows that there are no known historic sites at the project location. This area of the shoreline has been enlarged with fill soils during development of the airport and Honolulu harbor. Therefore, we believe that this project will have "no effect" on historic sites.

If you have any questions please call Elaine Jourdane at 692-8027.

Aloha,

Don Hibbard, Administrator
State Historic Preservation Division

EJ:jk



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Pacific Islands Ecoregion
300 Ala Moana Boulevard, Room 3-122
Box 50088
Honolulu, Hawaii 96850

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APR 21 1999

In reply refer to: KBF

APR 20 1999

Bernice Pabingwit
Environmental Engineer
URS Greiner Woodward Clyde
1144 10th Avenue Suite 200
Honolulu, HI 96816-2497

Re: Request for List of Endangered Species at Keehi Lagoon, Honolulu, Oahu, Hawaii

Dear Ms. Pabingwit:

The U.S. Fish and Wildlife Service (Service) received your March 30, 1999, letter requesting information on listed, proposed, and candidate endangered and threatened species that may occur at a proposed project-site in Keehi Lagoon. The proposed project includes a feasibility investigation involving two geotechnical over-water borings from barge-mounted drill rig and the installation of a new 10-inch diameter, 3,000-foot long, underwater jet fuel pipeline using trenchless horizontal directional drilling methods.

The Service has reviewed the maps provided with your request and pertinent information in our files, including maps prepared by the Hawaii Heritage Program of the Nature Conservancy. The Hawaiian stilt (*Himantopus mexicanus knudseni*), federally listed as Endangered may occur within the vicinity of the proposed project area. Although federally listed sea turtles are not known to nest in the proposed project area, individuals may be present in the surrounding waters. We recommend that you contact the Pacific Islands Area Office with the National Marine Fisheries Service (NMFS) for information on federally listed species under NMFS jurisdiction.

We appreciate your concern for endangered species and look forward to reviewing the Environmental Assessment for the proposed project. If you have questions or comments, please contact Fish and Wildlife Biologist Kevin Foster (808/541-3441).

Sincerely,

Robert P. Smith
Pacific Islands Manager

cc: NMFS-PAO, Honolulu
EPA-Region IX, Honolulu
DLNR, Hawaii
DAR, Hawaii
CZMP, Hawaii
CWB, Hawaii

*We recommend that you obtain a copy of this report for information about federally protected waterbirds and migratory birds that occur at Keehi Lagoon.
Noda, E.K. 1989. Ke'ehi Lagoon Avifaunal Surveys 1989. Edward K. Noda & Associates. p20.

APPENDIX B

Draft EA Comments and Responses

State of Hawaii, Department of Transportation, Letter STP8.9129 from Kazu Hayshida, Director of Transportation, dated June 25, 1999

State of Hawaii, Office of Environmental Quality Control, Letter from Ms. Genevieve Salmonson, Director, dated July 12, 1999

State of Hawaii, Department of Health, Letter 99-123/epo from Mr. Gary Gill, Deputy Director for Environmental Health, dated July 7, 1999

Department of the Army, U.S. Army Engineer District, Civil Works Technical Branch Letter from Mr. Paul Mizue, P.E., Acting Chief, dated June 21, 1999

State of Hawaii, Department of Land and Natural Resources, Division of Aquatic Resources, Letter from Mr. Richard Sixberry, Aquatic Biologist, dated July 1, 1999

BENJAMIN J. CAYETANO
GOVERNOR



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

KAZU HAYASHIDA
DIRECTOR
DEPUTY DIRECTORS
BRIAN K. MINAII
GLENN M. OKIMOTO

IN REPLY REFER TO:

STP 8.9129

June 25, 1999

TO: THE HONORABLE TIMOTHY E. JOHNS, CHAIR
BOARD OF LAND AND NATURAL RESOURCES
DEPARTMENT OF LAND AND NATURAL RESOURCES

ATTN: MR. DEAN Y. UCHIDA, LAND ADMINISTRATOR

FROM: KAZU HAYASHIDA *KH*
DIRECTOR OF TRANSPORTATION

SUBJECT: CONSERVATION DISTRICT USE APPLICATION OA-2939D
TO DRILL (2) EXPLORATORY BORINGS AT KEEHI LAGOON,
HONOLULU, HAWAII

Thank you for the opportunity to provide comments on the subject application.

We have coordinated this project with the applicant and recommend approval of the permit.

We appreciate the opportunity to provide comments.

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99 JUN 29 8 23
DEPT. OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

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DIVISION OF
LAND MANAGEMENT
JUN 29 3 37 PM '99

URS Greiner Woodward Clyde

A Division of URS Corporation

August 6, 1999
C1000035545F

1144 10th Avenue, Suite 200
Honolulu, HI 96816-2497
Tel: 808.737.5300
Fax: 808.739.5572
Offices Worldwide

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

Subject: **Comment on Conservation District Use Application, File No. OA-2939D
Drilling of Two Geotechnical Exploratory Borings at Keehi Lagoon**

Dear Mr. Hayashida:

Thank you for your comment (letter addressed to Mr. Dean Uchida, Administrator, Land Division, State DLNR, dated June 25, 1999) regarding the subject project. We appreciate your support of this project and thank you for the time you have taken to review the EA and provide comments.

Your comment and this response will be included in the final EA. Please contact us if you have any questions or require additional information

Very truly yours,

URS Greiner Woodward Clyde



James K.W. Kwong, Ph.D., P.E.
Manager, Geo-Engineering

JK/bp

BENJAMIN J. CAYETANO
GOVERNOR

RECEIVED



RECEIVED

GENEVIEVE SALMONSON
DIRECTOR

99 JUL 19 P 2: 31

STATE OF HAWAII

99 JUL 16 A 8: 22

OFFICE OF ENVIRONMENTAL QUALITY CONTROL

DEPT. OF WATER &
LAND DEVELOPMENT

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

DEPT. OF WATER &
LAND DEVELOPMENT

July 12, 1999

Mr. Dean Uchida, Administrator
Land Division
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

RECEIVED
DIVISION OF
LAND MANAGEMENT
JUL 15 1 17 PM '99

Dear Mr. Uchida:

Subject: Draft EA to Drill Two Exploratory Borings at Keehi Lagoon

Thank you for the opportunity to review and comment on the subject document. We have the following comment.

1. According to the environmental assessment, "the sediment [from the drilling] will be collected and properly disposed of on-land." Please disclose where the sediments will be disposed. Will the materials be tested for contamination before disposal? If not, please describe why.

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

Sincerely,

Genevieve Salmonson
Genevieve Salmonson
Director

c: URS Greiner Woodward Clyde
HFFC

RECEIVED
DIVISION OF
LAND MANAGEMENT
JUL 19 10 44 AM '99

URS Greiner Woodward Clyde

A Division of URS Corporation

August 6, 1999
C1000035545F

1144 10th Avenue, Suite 200
Honolulu, HI 96816-2497
Tel: 808.737.5300
Fax: 808.739.5572
Offices Worldwide

Ms. Genevieve Salmonson, Director
State of Hawaii
Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, HI 96813

Subject: **Comment on Conservation District Use Application, File No. OA-2939D
Drilling of Two Geotechnical Exploratory Borings at Keehi Lagoon**

Dear Ms. Salmonson:

Thank you for your comment (letter addressed to Mr. Dean Uchida, Administrator, Land Division, State DLNR, dated July 12, 1999) regarding the subject project. In response, the spoils collected from the drilling will be collected and classified. The spoils will be stored in 5-gallon buckets. If there is no observable staining or odor, the normal geotechnical laboratory testing will be performed. If staining or odor is detected, TPH, TCLP for eight RCRA metals, VOCs, BTEX, PCBs, flash point, and paint filter test will be performed to determine if the sediment is a hazardous waste (as required by landfills managed by Waste Management of Hawaii, Inc. who follow 40 CFR 280). The Nanakuli Soil Reclamation Facility, who follows the State DOH UST Technical Guidance Manual, requires additional analyses for total cadmium and lead and PAHs, but only requires TCLP for cadmium, chromium, and lead. If the results are acceptable to the landfill, the material will be disposed of at their facilities. If the results are not acceptable, the sediment will be transported to the U.S. Mainland for proper disposal.

Your comment and this response will be included in the final EA. Please contact us if you have any questions or require additional information

Very truly yours,

URS Greiner Woodward Clyde



James K.W. Kwong, Ph.D., P.E.
Manager, Geo-Engineering

JK/bp

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



BRUCE S. ANDERSON, Ph.D., M.P.H.
DIRECTOR OF HEALTH

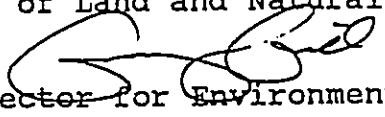
STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 3378
HONOLULU, HAWAII 96801

In reply, please refer to:
File:

July 7, 1999

99-123/epo

TO: Dean Y. Uchida, Administrator
Land Division
Department of Land and Natural Resources

FROM: Gary Gill 
Deputy Director for Environmental Health

SUBJECT: CONSERVATION DISTRICT USE APPLICATION

RECEIVED
DIVISION OF
LAND MANAGEMENT
JUL 8 1 27 PM '99

Applicant: Hawaii Fueling Facilities Corporation
File No.: OA-2939D
Request: Two Exploratory Borings at Keehi Lagoon
Location: Honolulu, Hawaii
TMK: Submerged Land - Keehi Lagoon

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

Water Pollution

1. The applicant should consult the U.S. Army Corps of Engineers, Honolulu Engineer District, regarding the Department of Army permit requirements.
2. There shall be no discharge of drilling effluent into State waters unless the applicant has obtained an applicable discharge permit from the Clean Water Branch.

Should you have any questions on these comments, please contact Mr. Ed Chen of the Clean Water Branch at 586-4309.

URS Greiner Woodward Clyde

A Division of URS Corporation

August 6, 1999
C1000035545F

1144 10th Avenue, Suite 200
Honolulu, HI 96816-2497
Tel: 808.737.5300
Fax: 808.739.5572
Offices Worldwide

Mr. Gary Gill, Deputy Director for Environmental Health
State of Hawaii
Department of Health
P.O. Box 3378
Honolulu, HI 96801

Subject: **Comment on Conservation District Use Application, File No. OA-2939D
Drilling of Two Geotechnical Exploratory Borings at Keehi Lagoon**

Dear Mr. Gill:

Thank you for your comment (letter 99-123/epo addressed to Mr. Dean Uchida, Administrator, Land Division, State DLNR, dated July 7, 1999) regarding the subject project. In response, we provide the following:

1. We have initiated contact with the Department of the Army, U.S. Army Engineer District, Honolulu. The proposed geotechnical exploratory borings will comply with Section 10 DA permit requirements. Their letter and our responses to their comments will be included in the final EA.
2. Drilling fluid returns to the barge will be collected in baffled sediment tanks for recycling in continuous drilling and sampling. All collected drilling water and spoils will be disposed of in accordance with State regulations. No collected drilling fluids will be discharged into State waters.

Your comment and this response will be provided in the final EA. Please contact us if you have any questions or require additional information

Very truly yours,

URS Greiner Woodward Clyde



James K.W. Kwong, Ph.D., P.E.
Manager, Geo-Engineering

JK/bp



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

REPLY TO
ATTENTION OF

June 21, 1999

Civil Works Technical Branch

Mr. Dean Y. Uhida, Administrator
State of Hawaii
Department of Land and Natural Resources
Land Division
PO Box 621
Honolulu, Hawaii 96809

Dear Mr. Uchida:

Thank you for the opportunity to review and comment on the Conservation District Use Application OA-2939D to Drill Two Exploratory Borings at Keehi Lagoon, Honolulu, Oahu (TMKs 1-1-70 and 1-2-25). 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 Section 10 DA permit will be required for this activity. For further information, please contact Mr. William Lennan of our Regulatory Section at 438-9258 and refer to file number 990000387.

b. The flood hazard information provided on page 9 of the DEA is correct.

Sincerely,

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

RECEIVED
DIVISION OF
LAND MANAGEMENT
JUN 21 9 35 AM '99

URS Greiner Woodward Clyde

A Division of URS Corporation

August 6, 1999
C1000035545F

1144 10th Avenue, Suite 200
Honolulu, HI 96816-2497
Tel: 808.737.5300
Fax: 808.739.5572
Offices Worldwide

Mr. Paul Mizue, P.E.
Acting Chief, Civil Works Technical Branch
Department of the Army
U.S. Army Engineer District, Honolulu
Fort Shafter, HI 96858-5440

Subject: **Comment on Conservation District Use Application, File No. OA-2939D
Drilling of Two Geotechnical Exploratory Borings at Keehi Lagoon**

Dear Mr. Gill:

Thank you for your comment (letter addressed to Mr. Dean Uchida, Administrator, Land Division, State DLNR, dated June 21, 1999) regarding the subject project. In response to file number 990000387, we provide the following:

1. Mr. William Lennan of the Regulatory Section at 438-9258 was contacted regarding the Section 10 DA Permit. The proposed geotechnical exploratory borings will comply with the Army permit requirements.
2. Recognition of correct flood hazard information on page 9 of the draft EA is acknowledged.

Your comment and this response will be provided in the final EA. Please contact us if you have any questions or require additional information

Very truly yours,

URS Greiner Woodward Clyde



James K.W. Kwong, Ph.D., P.E.
Manager, Geo-Engineering

JK/bp

Suspense Date: July 1, 1999

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Aquatic Resources
Honolulu, Hawaii

MEMORANDUM

To: William Devick, Administrator *WD*
From: Richard Sixberry, Aquatic Biologist
Subject: Comments on Conservation District Use Permit OA-2939D

Comments Requested By: Dean Uchida, Land Division

Date of Request: 6/9/99

Date Received: 6/10/99

Summary of Project

Title: Exploratory Borings

Proj. Hawaii Fueling Facilities Corporation

Location: Keehi Lagoon, Oahu

Brief Description:

The applicant proposes to drill two overwater exploratory borings to evaluate the feasibility of installing a new 10-inch diameter, approximately 5,000-foot long underwater, jet fuel pipeline using trenchless horizontal directional drilling methods.

Comments:

The activity proposed is not likely to diminish further, aquatic resource values in this area of Keehi Lagoon which was previously dredged and modified for a seaplane runway. Some turbidity may occur, but potential impacts adverse to the existing resident aquatic resource populations should be minimal and temporary.

URS Greiner Woodward Clyde

A Division of URS Corporation

August 6, 1999
C1000035545F

1144 10th Avenue, Suite 200
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Offices Worldwide

Mr. William Devick, Administrator
State of Hawaii
Department of Land and Natural Resources
Division of Aquatic Resources
1151 Punchbowl Street, Room 330
Honolulu, HI 96813-5097

**Subject: Comment on Conservation District Use Application, File No. OA-2939D
Drilling of Two Geotechnical Exploratory Borings at Keehi Lagoon**


Dear Mr. Devick:

Thank you for your comment (letter of responses requested by Mr. Dean Uchida, Administrator, Land Division, State DLNR, dated July 1, 1999) regarding the subject project. We appreciate your support of this project and thank you for the time you have taken to review the EA and provide comments.

Your comment and this response will be included in the final EA. Please contact us if you have any questions or require additional information

Very truly yours,

URS Greiner Woodward Clyde



James K.W. Kwong, Ph.D., P.E.
Manager, Geo-Engineering

JK/bp