

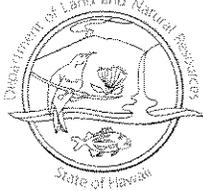
LINDA LINGLE
GOVERNOR OF HAWAII



PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

RECEIVED

03 JUN 24 8:27

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
COASTAL AND OCEANIC RESOURCES
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
MAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

JUN 23 2003

OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

TO: Ms. Genevieve Salmonson, Director
Office of Environmental Quality Control

FROM: Eric T. Hirano, Chief Engineer

SUBJECT: **Final Environmental Assessment (FEA) for Job No. 17-OW-H1, Pearl Harbor (Waimano Ridge) Exploratory Well, Oahu, TMK: 9-7-25: Portion 1, Waimano, Ewa, Oahu**

The Department of Land and Natural Resources has reviewed the comments received during the 30-day public comment period, which began on February 23, 2003. The agency has determined that this project will not have significant environmental effects and has issued a Finding of No Significant Impact (FONSI). Please publish this notice in the July 8, 2003, OEQC Environmental Notice.

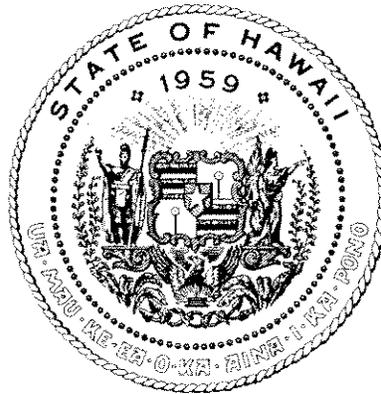
We have enclosed a completed OEQC Publication Form and four (4) copies of the FEA. If you have any questions, please call Mr. Andrew Monden at 587-0229.

DI:ssk
Attachment

JUL 8 2013
FILE COPY

FINAL ENVIRONMENTAL ASSESSMENT

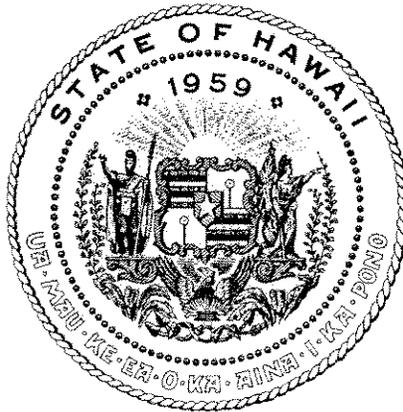
PROPOSED EXPLORATORY WELL
Waimano, Oahu, Hawaii



Engineering Division
Department of Land and Natural Resources
State of Hawaii

**FINAL
ENVIRONMENTAL ASSESSMENT**

**PROPOSED EXPLORATORY WELL
Waimano, Oahu, Hawaii**



May 2003

Prepared for:

**Engineering Division
Department of Land and Natural Resources
State of Hawaii**

Prepared by:

**Belt Collins Hawaii Ltd.
Honolulu, Hawaii**

Table of Contents

I. SUMMARY	1
II. DESCRIPTION OF THE PROPOSED ACTION	2
Project Objective.....	2
Description of the Proposed Action.....	6
Well Drilling.....	6
Pump Test.....	9
Exploratory Well Drilling Schedule.....	9
Exploratory Well Drilling Cost.....	9
III. DESCRIPTION OF THE AFFECTED ENVIRONMENT	9
Existing Land Use.....	9
Land Tenure.....	10
Physiography.....	10
Soil.....	10
Climate.....	11
Hydrology.....	11
Flora and Fauna.....	13
Air Quality.....	13
Sonic Ambiance.....	13
Archaeological, Historical and Cultural Resources.....	14
Natural Hazards.....	14
Visual.....	15
IV. SOCIOECONOMIC SETTINGS	15
Socioeconomic Background of Region.....	15
Economic Impacts Assessment.....	15
Community Issues.....	16
V. PUBLIC FACILITIES AND SERVICES	16
Circulation and Traffic.....	16
Water, Sewer, Electricity and Telephone.....	16
Solid Waste.....	17
Public Services.....	17

VI. RELATIONSHIP TO PUBLIC LAND USE POLICIES	17
State Land Use District	17
State Environmental Policies	17
General Plan of the City and County of Honolulu.....	18
Primary Urban Center Development Plan	18
City and County Land Use Ordinance.....	18
Special Management Area	19
Required Permits and Approvals and Their Status.....	19
VII. SUMMARY OF MAJOR IMPACTS.....	19
VIII. PROPOSED MITIGATION MEASURES	21
IX. ALTERNATIVES CONSIDERED.....	21
No Action.....	21
Alternative Sites.....	22
Alternative Methodology.....	22
X. DETERMINATION.....	22
XI. FINDINGS AND REASONS SUPPORTING THE DETERMINATION	23
XII. COMMENTS FROM AND RESPONSES TO PUBLIC AGENCIES, ORGANIZATIONS, PUBLIC OFFICIALS, AND PROPERTY OWNERS	24
Appendix	
Letters Received During Early Consultation Period.....	

List of Figures

Figure 1	Location Map.....	3
Figure 2	Waimano Facility at Waimano Ridge.....	4
Figure 3	Site Map.....	5
Figure 4	Proposed Exploratory Well Site.....	7
Figure 5	Section Thru Well.....	8
Figure 6	Nearest Existing Wells.....	12

List of Tables

Table 1	Existing Wells in the Vicinity.....	13
---------	-------------------------------------	----

I. SUMMARY:

PROPOSING AGENCY: Department of Land and Natural Resources (DLNR), Engineering Division, State of Hawaii

APPROVING AGENCY: Board of Land and Natural Resources (BLNR), State of Hawaii

GENERAL PROJECT DESCRIPTION: The DLNR is proposing to install an exploratory well on Waimano Ridge at the 620' elevation in Pearl City, Oahu. Included in this initial stage of the project are well drilling, casing, pump testing and water quality evaluation operations. If the well proves successful, it will be outfitted and converted to a permanent production well as part of a subsequent phase for the project. The subsequent phase will also include the development of a second well as a stand-by well. Development of the well facility is intended to replace an existing well system in the Waimano Facility on Waimano Ridge above Pearl City, Oahu.

PROJECT LOCATION: Waimano Ridge, Waimano, Oahu
TMK 9-7-25: Portion of 1

PRELIMINARY DETERMINATION: Anticipated Finding of No Significant Impact (FONSI)

CONSULTED AGENCIES:

Federal Agencies
U.S. Natural Resources Conservation Service

State Agencies
Department of Land and Natural Resources, Land Division
Department of Land and Natural Resources, Forestry and Wildlife Division
Department of Land and Natural Resources, Water Resource Management Division
Department of Health, Environmental Management Division

Department of Health, Environmental
Health Division
Oahu Na Ala Hele Program
State Historic Preservation Division

City Agencies

Department of Design and Construction
Department of Planning and Permitting
Department of Transportation Services
Fire Department

Utility Companies

Honolulu Board of Water Supply
Hawaiian Electric Company Inc.

Others

Waimano Facility Administration

II. DESCRIPTION OF THE PROPOSED ACTION

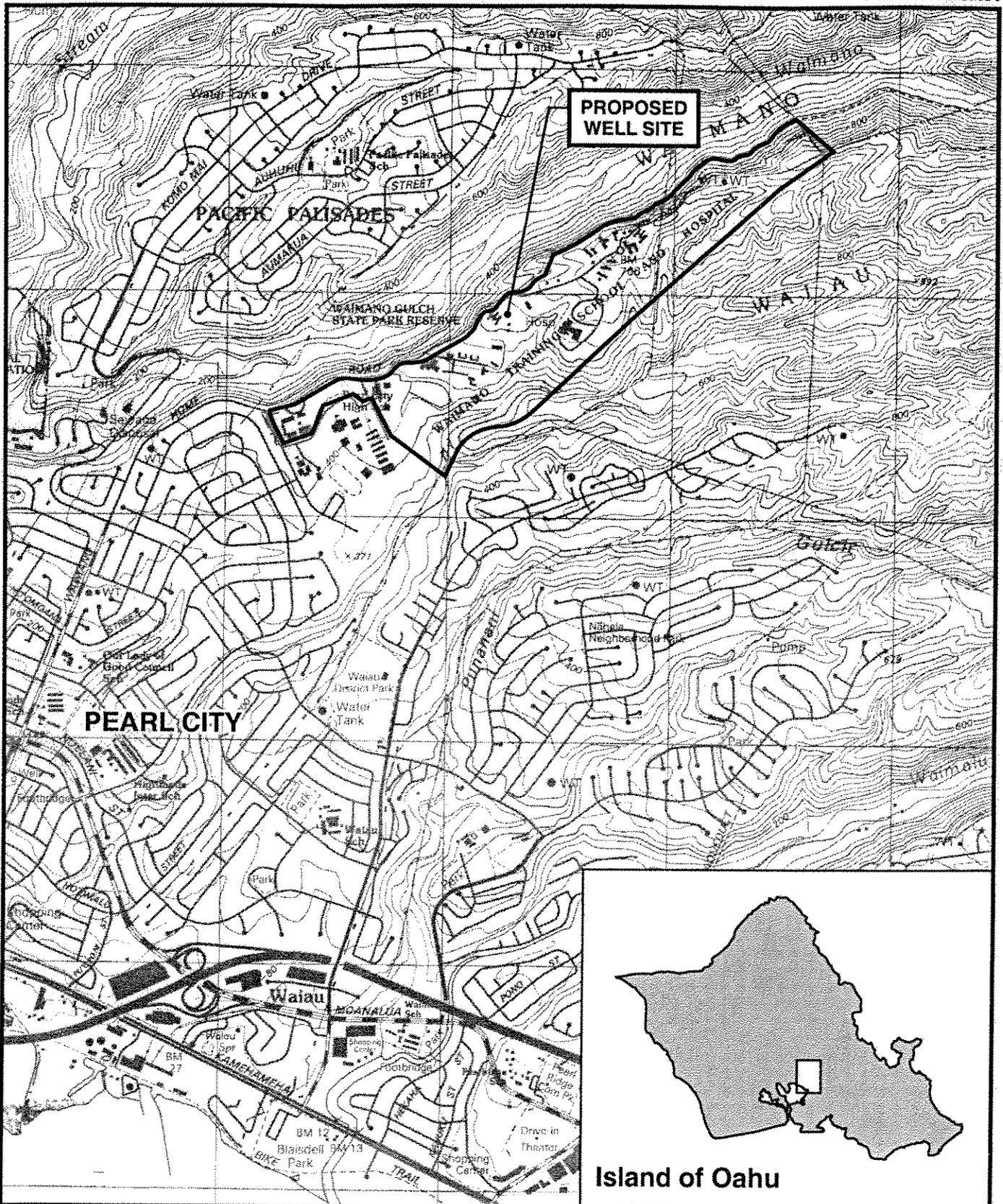
Project Objective

An exploratory well is proposed to be drilled in hopes of finding a replacement source for the two existing wells on the grounds of the State facilities or "Waimano Facility" on Waimano Ridge. Figures 1, 2, and 3 show the location of the proposed well site. The two existing wells, one drilled in 1941 and the other in 1950, have aged and served their purpose and are now in need of replacement.

After the exploratory well is drilled and cased, pump tests will be conducted to determine the quality and quantity of the source. If the exploratory well proves successful, it will be outfitted and converted into a production well. A second well will then be developed at the site as a stand-by well.

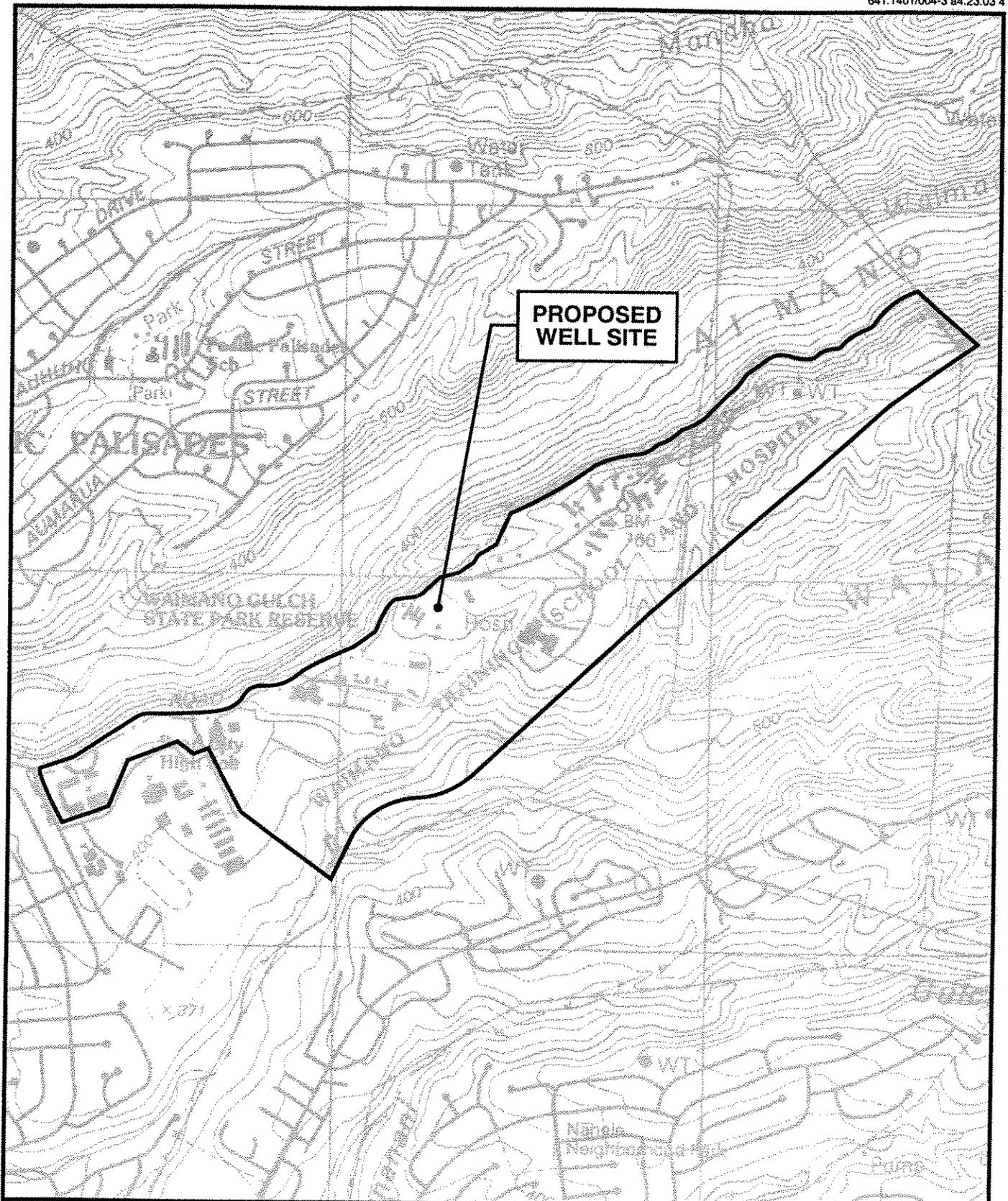
The DLNR is seeking a yield of 136,000 gallons per day (gd) from the proposed site. This is the same yield that has been allocated by the State Commission on Water Resource Management to the two existing wells that currently serve the Waimano Facility. Present usage from the existing wells is approximately 118,000 gd.

Upon conversion of the test well into a production well, the State plans to turn over the facility to the Honolulu Board of Water Supply (BWS) for use with its City and County water system.



0 500 1000 2000
SCALE IN FEET

Figure 1
LOCATION MAP
Prepared for: State DLNR
Prepared by: Belt Collins Hawaii
2003



NORTH

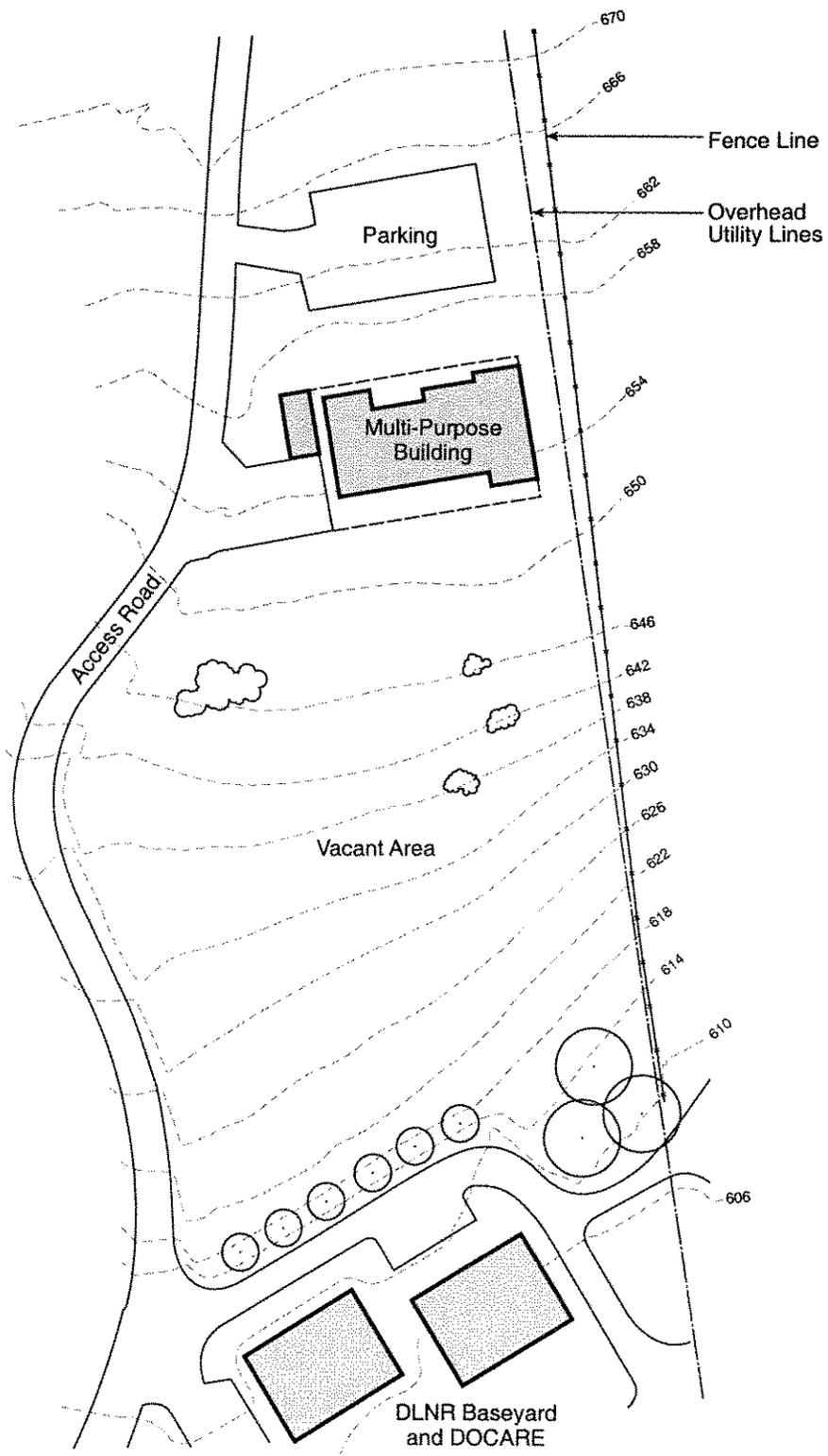
0 600 1200



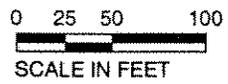
SCALE IN FEET

Figure 2
WAIMANO FACILITY AT
WAIMANO RIDGE

Prepared for: State DLNR
Prepared by: Belt Collins Hawaii
2003



NORTH



**Figure 3
SITE MAP**

Prepared for: State DLNR
Prepared by: Belt Collins Hawaii
2003

Should water quality from the well tests be unacceptable for potable use and too costly for treatment, the well will be capped and used possibly for future monitoring purposes. An alternative well site would then be explored.

Description of the Proposed Action

The DLNR is proposing an exploratory well on an approximately 15,000 sq. ft. site within a 242-acre parcel (see Figure 4) owned by the State of Hawaii and administered by the DLNR and Department of Health (DOH). The existing State facilities on the parcel were operated by the former Waimano Training School and Hospital (WTSH) of the DOH. The parcel is identified as Tax Map Key 9-7-25: portion of 1.

Access to the well site is via Waimano Home Road and an existing interior road for the Waimano Facility.

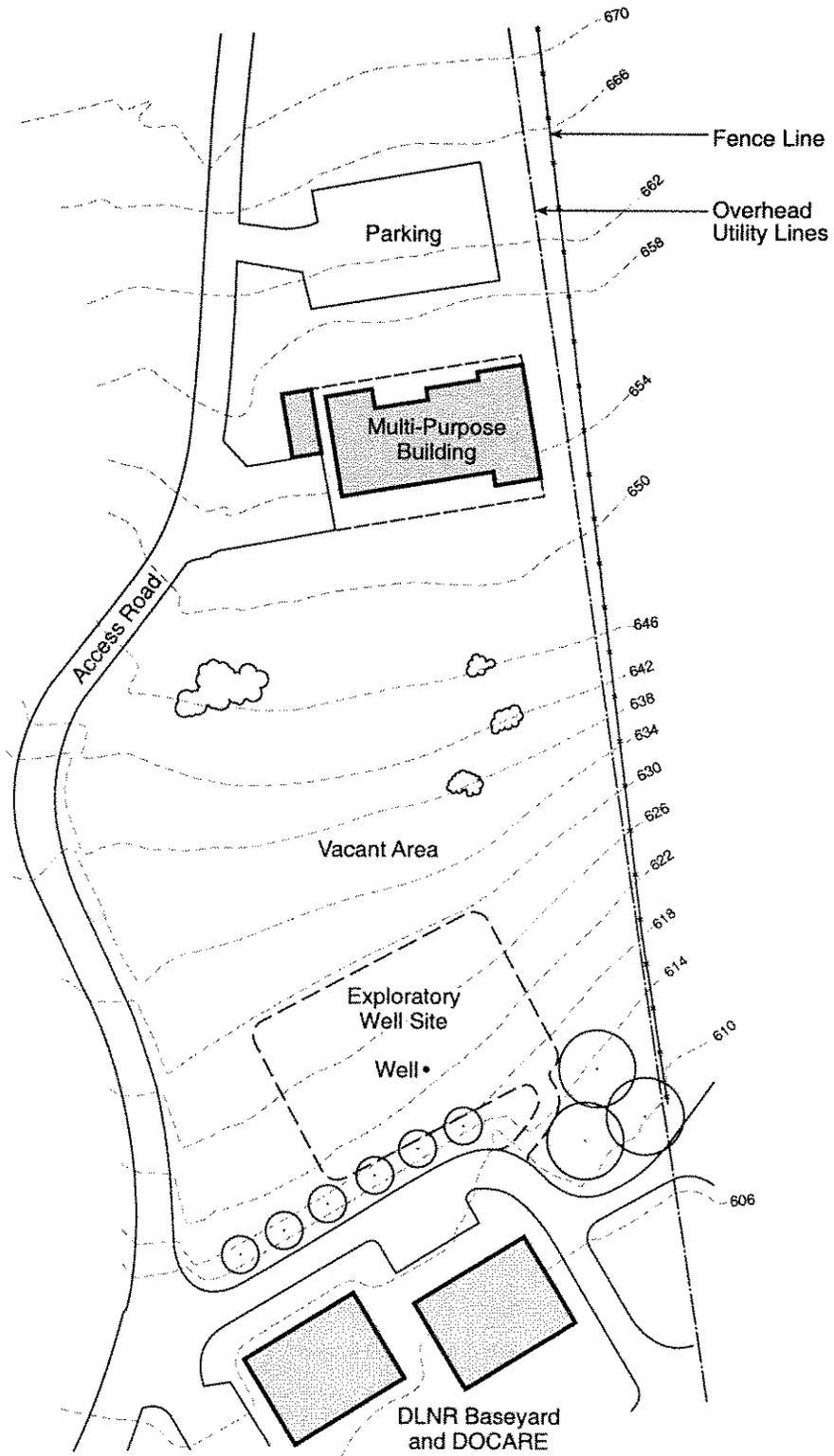
This Environmental Assessment (EA) has been prepared for the exploratory phase of the well project, i.e., the drilling, casing, and pump testing operations. If test results are favorable and a decision is made to move forward with the production phase, another EA will be prepared to cover the outfitting, installation of accessory facilities, and production operations of the well including the drilling, outfitting, and production operations of the second or stand-by well.

Well Drilling

The initial work for the well drilling requires site clearing and minor grading of an approximately 100' x 150' well site at approximately the 620' (above mean sea level [msl]) elevation. A drill rig will be mobilized at the site, and other support equipment will be brought to the property. The rig will drill an approximately 23-inch diameter hole approximately 640' deep (see Figure 5) to accommodate a steel casing and grouting of the annular space. After installing the casing, the contractor using the same hole, will drill an approximately 15-inch diameter hole to a depth of approximately 740'. The final depth of the well will be adjusted based on actual conditions encountered.

In drilling the hole, either a percussion or rotary drilling method will be used. A self-contained mobile engine operated by diesel fuel will be used to provide power for the drill rig.

The percussion method employs a repeated raising and dropping of a heavy chisel bit within the hole and a periodic bailing of the cuttings. The bailed material is not expected to contain any contaminants.



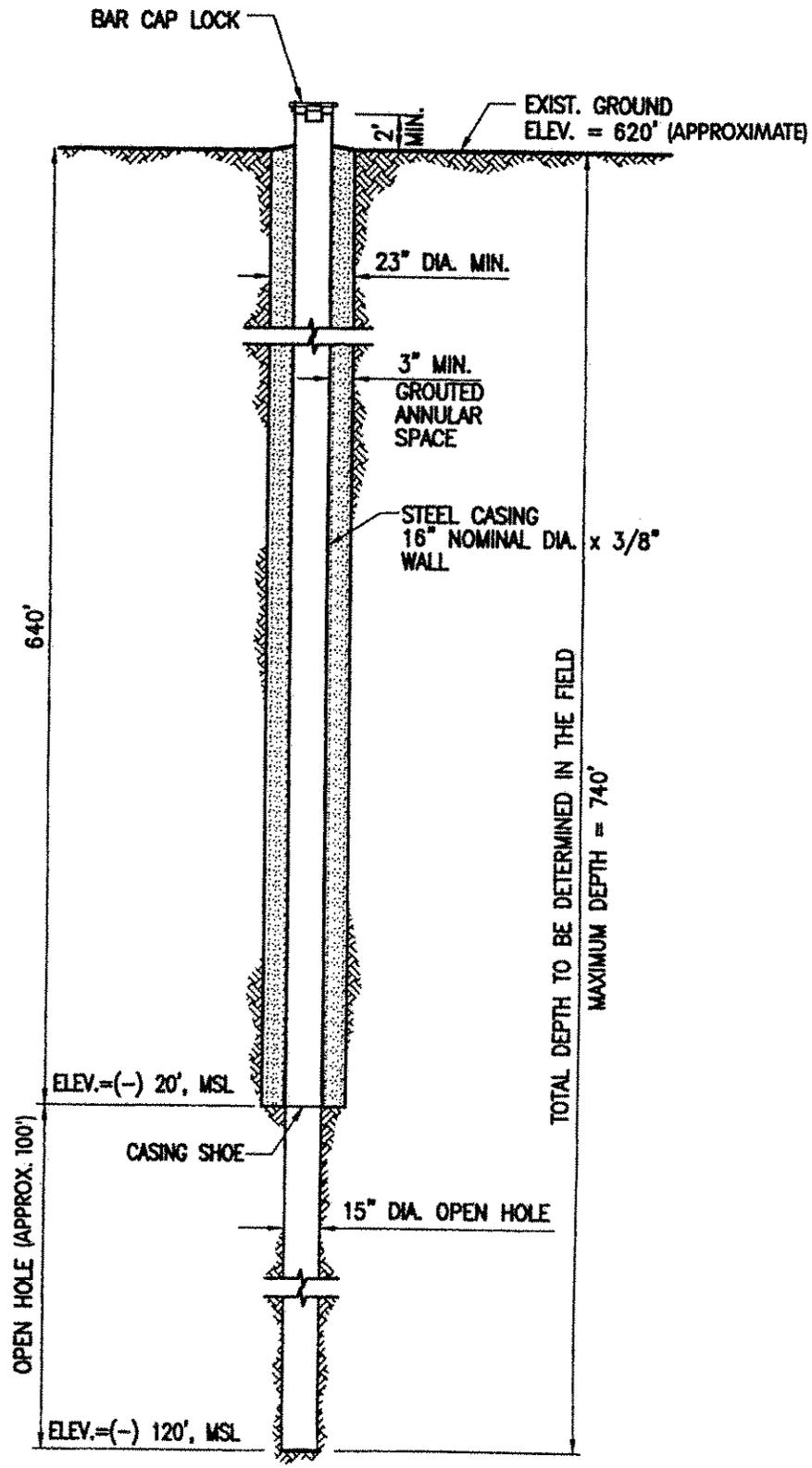
NORTH

0 25 50 100

SCALE IN FEET

Figure 4
PROPOSED EXPLORATORY
WELL SITE

Prepared for: State DLNR
Prepared by: Belt Collins Hawaii
2003



NOT TO SCALE

Figure 5
SECTION THRU WELL

Prepared for: State DLNR
Prepared by: Belt Collins Hawaii
2003

Alternatively, the rotary method employs a drill bit that rotates in the borehole while circulating fluid is pumped down the drill stem. The circulating fluid, comprised of air and a little fluid (water and soap), is then forced back up the hole to the surface, carrying with it drill cuttings. The drill cuttings are then directed into an adjacent excavated pit.

Pump Test

After drilling, casing and grouting of the annular spacing, the pump tests are undertaken. Two tests are conducted. The first test, known as the step-drawdown test, consists of pumping the water from the well at various pumping rates to estimate the well's hydraulic capacity (quantity withdrawn per foot of drawdown).

After the step-drawdown test is concluded, a five to seven day constant rate pump test is performed. The primary objective of this test is to determine the quality of water the well will produce on a continuous basis.

After the pump tests are completed, the contractor's test pump is removed. The well is capped, the drill rig and ancillary equipment are taken off the site, and the area surrounding the well is restored to its previous condition.

Exploratory Well Drilling Schedule

Work on the exploratory well is preliminarily projected to begin in 2003, depending on the availability of funding. The drilling and subsequent pump tests are expected to take a total of approximately five to six months to complete.

Exploratory Well Drilling Cost

The preliminary cost estimate for the exploratory well and pump test is approximately \$480,000. Funding for the project will be from State sources; no federal monies are involved.

III. DESCRIPTION OF THE AFFECTED ENVIRONMENT

Existing Land Use

The Waimano Facility on Waimano Ridge was previously known as the Waimano Training School and Hospital. It operated as an institution designed to accommodate the needs of mentally-challenged youths and young adults. The initial buildings and subsequent major facilities were constructed between 1936 and 1977. The complex has since expanded its use to include other State uses, such as those by the Department of Public Safety (DPS), DLNR-Division of Conservation and Resources Enforcement (DOCARE), DPS-Sheriff's office, DOH's Laboratory, and Department of Education's

Pearl City Cultural Center. Hence, the name, Waimano Training School and Hospital (WTSH), was no longer applicable.

The project site is located in a vacant area between the DLNR's baseyard and a multi-purpose building within the State facility grounds. A small ravine is located to the southeast of the site, and the main interior access road for the Waimano Facility is located to the west. The project site has been rough graded and used in the past as a reserve and possibly a temporary storage area.

Land Tenure

The 242-acre property on Waimano Ridge is owned by the State of Hawaii, and under Executive Order 1020 (issued May 10, 1943) is designated for use as a State facility.

Physiography

The proposed 15,000 sq. ft. well site is located in a large open area of approximately 100,000 sq. ft. This vacant land gradually slopes seaward from northeast to southwest with a gradient of approximately 12 percent. Elevation of the project site is about 620' msl.

There are no distinct physiographic features such as ravines, rock outcrops or promontories within the site. The land was altered during the development of the former WTSH.

Soil

The U.S. Department of Agriculture, Natural Resources Conservation Service classifies the soil on the project site as Fill Land, Mixed (FL), and Manana Silty Clay Loam, 6 to 12 percent slopes (MoC). The FL land type generally occurs in areas filled with material dredged from the ocean or hauled from nearby areas. It is usually used for urban development.

The MoC soil type generally consists of well-drained material in the uplands of Oahu. They developed from weathered basic igneous rock. Depending on the depth, the soil is comprised of silty clay loam, silty loam, and soft, weathered basic igneous rock. A nonporous, pan-like sheet, 1/8- to 1/4-inch thick, occurs in the subsoil at depths ranging from 15 to 50 inches. Permeability of this soil is moderately rapid above the sheet and moderate below. Runoff from it is medium, and the erosion hazard is moderate.

The Land Study Bureau's Detailed Land Classification system shows the project area in an urban area and does not indicate any agricultural productivity rating of A to E.

Climate

The average annual rainfall for the area is about 50 inches. Average monthly temperatures are mild ranging from about 72°F in the winter to about 78°F in the summer. Winds are predominantly from the northeast.

Hydrology

Surface Water: There are no natural surface water features on the project site. A natural ravine is located on the southeast side of the multi-purpose building and well site. It has a depth of approximately 50' to 60' and does not carry any perennial flow of water. Further southeast of the ravine is Waiiau Gulch and an unnamed stream, which flows through the Pearl City residential community and discharges into East Loch of Pearl Harbor.

To the northwest across the State access road from the well site is Waimano Gulch. Waimano Stream flows through this natural feature and eventually joins with Waiawa Stream to discharge into Middle Loch of Pearl Harbor.

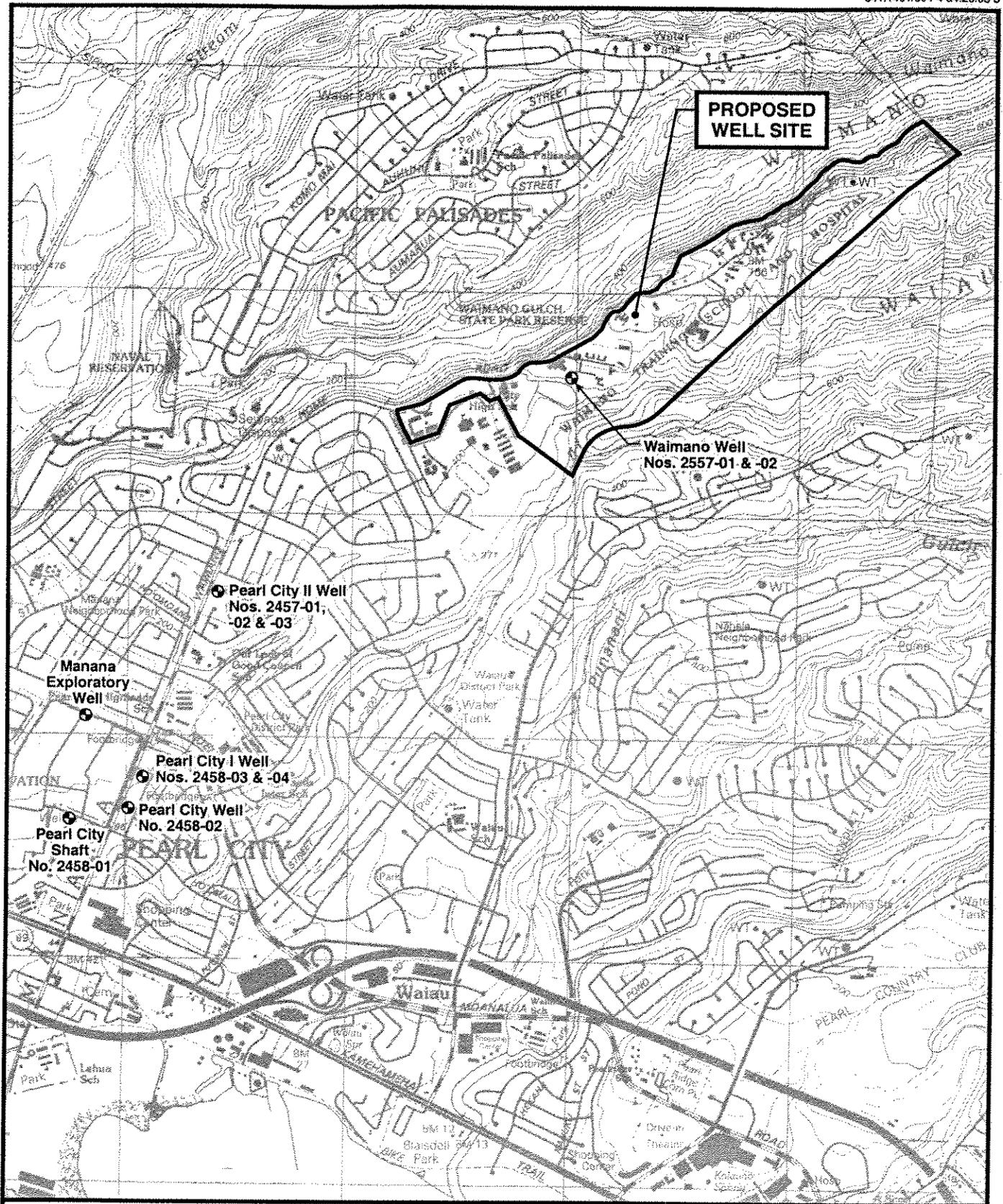
Groundwater: The project site is located in the Waimalu Aquifer Sector of the Pearl Harbor Groundwater Management Area (GMA). This aquifer is recharged by rainfall in the Koolau Mountains above Pearl City, Waimalu, and Aiea.

The basal aquifer is a lens-shaped body of fresh water floating upon salt water. Along the coast, the basal lens is hydrologically confined by coastal plain deposits. These deposits are not very permeable and retard outflow of freshwater to the sea. Thus, a buildup of ground water level occurs inland of the deposits or caprock. According to records of Waimano Well Nos. 1 and 2, the static head of the basal lens at the project site is estimated to be approximately 20' msl¹ or about 600' below the surface of the site.

The Commission on Water Resource Management (CWRM) for the State of Hawaii has established the sustainable yields for the aquifer sectors in the Pearl Harbor GMA. The Waimalu Aquifer Sector has a sustainable yield of 45 million gallons per day (mgd). It has a current allocation or permitted use of 46.793 mgd.

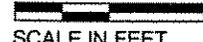
Figure 6 and Table 1 identify the existing wells located nearest, within the same ridge of the project site. Wells 2557-01 and 2557-02 are the existing Waimano Facility wells that are planned to be replaced by the proposed project. The others are BWS wells (except one that is shown to be Oahu R&L) located makai of the project area. The pump tests on the exploratory well are not expected to adversely impact the ongoing use of any of these wells.

¹ State Division of Water Resource Management well inventory files.



NORTH

0 500 1000 2000



SCALE IN FEET

Figure 6
NEAREST EXISTING WELLS

Prepared for: State DLNR
Prepared by: Belt Collins Hawaii
2003

Table 1. Existing Wells in the Vicinity

Well No.	Well Name	Owner/ User	Year Drilled	Ground Elevation	Depth (total)	Static Head (in elev.)
2557-01	Waimano Well No. 1	State	1941	495'	512'	21.1'
2557-02	Waimano Well No. 2	State	1950	495'	592'	21.1'
2457-01	Pearl City II Well #1	BWS	1957	267'	398'	19.7'
2457-02	Pearl City II Well #2	BWS	1957	267'	415'	18.6'
2457-03	Pearl City II Well #3	BWS	1968	272'	423'	16.3'
2458-01	Pearl City Shaft	BWS	1940	111'	151'	18.9'
2458-02	Pearl City Well	Oahu R&L	1952	117'	155'	17.2'
2458-03	Pearl City I Well #1	BWS	1953	120'	150'	18.7'
2458-04	Pearl City I Well #2	BWS	1953	120'	140'	17.5'
2458-05	Manana Expl Well	BWS	1998	137'	277'	13.7'

Source: Commission on Water Resource Management

Pump tests of the proposed exploratory well will include water quality testing to determine the potability of the ground water source. If the water quality does not meet drinking water standards, treatment or alternative uses for the well will be considered.

Flora and Fauna

The existing vacant site is primarily covered by guinea grass, wedia, beggarweed, and crabgrass with small clusters of avocado, plum, pua-kenikeni, calabash, gold, and mango trees as well as royal palms in the project area. No distinct wildlife habitat or critical wildlife habitat as identified by the federal government occurs on the property. Typically, urban species of birds forage or visit the area.

Air Quality

The quality of the air in this upper elevation is very good. There are no major sources of air pollution such as agricultural burning, dairy farms, manufacturing plants, and incinerators. Auto emissions from vehicular traffic on Hookie Street (nearest City street) are not a factor.

Sonic Ambiance

The predominant source of noise in the project vicinity is the traffic on the main access road through the State facilities. The level of noise from this source, however, is not substantial or of any consequence. The traffic volume is light and is generated by a limited number of uses in the area.

Archaeological, Historical and Cultural Resources

The Historic Preservation Division of the State Department of Land and Natural Resources has indicated that there are no archeological concerns within or near to the developed portion of the project area. Also, since the exploratory well will not have any permanent buildings, there are no architectural concerns.

In discussions with people familiar with the history and long-time use of the area, there are no long-standing and traditional gathering of natural resources within the project site. Two informants were interviewed and provided verbal information about past and present access through the State facility grounds and to the mauka State lands.² According to the informants, the first buildings on the State land were built about 1920 apparently for what was known as the Waimano Home. Eventually, thirty-nine buildings constructed between 1936 and 1977 were established at part of the Waimano Training School and Hospital. Today, other uses are located on the property and the complex has taken a new name, Waimano Facility.

Access through the State facility to the mauka lands has been primarily by community groups and organizations for recreational purposes. They've included Boy Scout camping trips, flower gathering, hiking, and scenic walks. There has also been maintenance and monitoring activities by Hawaiian Electric Co., Inc. (HECO) on its utility lines and DOCARE for its forest and conservation lands. Pig hunters gain access to the mauka lands through a separate route outside of the State facility grounds.

Those parties who have secured permission from the State facilities administration office, have traversed the State property using the main access road to the locked gate at the mauka border of the State facilities, where they were allowed to proceed past the locked gate to reach the mauka lands. Notably, these travelers have used the paved main road through the State grounds and have not used any portion of the proposed well site for their access. Hence, the proposed well site is not anticipated to hinder or obstruct any access for traditional or cultural gathering rights. In a memorandum to DLNR's consultant, dated January 9, 2003, the Oahu Na Ala Hele indicated that after reviewing the project site location map, it did not see any obvious negative impact on the adjacent Waimano Trail or Ewa Forest Reserve.

Natural Hazards

The project site would be susceptible to brush fire and possibly severe high winds as a result of its location near the forest areas of the mauka lands. The drilling operation and pump tests would be located in a clearing where the potential of brush fire would be minimal. Although the project site is situated on a ridge, the topography at the anticipated well location does not lend itself to potential landslides or land slippage.

² The interviewees were Mr. Mike Tamanaha who has worked at the Waimano Facilities since 1979 and is now the Administrator for the facilities, and Mr. Mike Ioane who has worked at the State facilities since 1984 and is now the General Construction and Maintenance Supervisor.

Also, the drilling and testing procedures would be relatively short-term and temporary. It is anticipated that these operations can be interrupted or postponed until more favorable weather conditions prevail.

The Flood Insurance Rate Map (FIRM) of the City and County of Honolulu indicates that the project area is located within Zone D, areas in which flood hazards are undetermined.

Visual

There are no adjacent residential areas that would be directly impacted by the well's drill rig. The nearest residential area is the Pacific Palisades subdivision on the next ridge to the northwest. View of the approximately 80- to 100-foot high drill rig, would be integrated with the visual scene of the State facility on Waimano Ridge. Facilities at the State site stretch more than 6,000' along the top of the ridge and are situated approximately 1,400' across the Waimano Gulch.

The proposed drill rig may be partially visible from areas below the State facilities. Distance, terrain, and existing vegetation would reduce any direct view of the proposed project.

Once the well has been drilled and cased, the drill rig will be removed and no major structural feature will be visible. The drilling and testing operations are expected to occur over a five to six month period.

IV. SOCIOECONOMIC SETTING

Socioeconomic Background of Region

The project site is located above the residential area of Pearl City. This large, thriving residential community was built on former sugar cane land and was considered to be the outskirts of Honolulu when urbanization moved out toward Ewa and Central Oahu in the 1960's and early 1970's.

Commercial and industrial uses comprise the lower elevations of Pearl City, primarily along Kamehameha Highway and part of Lehua Avenue and Waimano Home Road. Public facilities include a public library, community parks, police station, fire station, City corporation yard, district court, as well as, schools and playgrounds.

Economic Impacts Assessment

Successful development of the well will fulfill the need to upkeep the existing infrastructure, and to continually and adequately serve the community. These

improvements will assure the continued economic benefits provided by ongoing jobs and income as well as government revenues from income, property and sales taxes.

Community Issues

The proposed action is not considered a land use that will generate social impacts. Its ultimate purpose is to provide a replacement for an existing utility that serves land uses, such as residential, commercial, industrial, public facilities, etc. The proposed action is not expected to generate public land use issues.

Public concerns would be more on the project's effect on the natural environment. Such concerns would include the drilling and pump testing impacts on the existing water resources of the area, and the natural and cultural environment of the site.

V. PUBLIC FACILITIES AND SERVICES

Circulation and Traffic

Access to the well site is provided by Waimano Home Road and an interior access road serving the State facilities. Waimano Home Road, which is a City right-of-way, extends from Kamehameha Highway to the entry gate of the State facilities approximately 2,000' beyond Hookiekie Street. The gate is just mauka of the Waimano Facility administration building and Pearl City Cultural Center.

Beyond the gate, the access road, which is owned and maintained by the State, winds through the State facilities to the top of the building complex. It has an average grade of approximately 7 percent and a posted speed limit of 15 mph. The proposed well site is located approximately 2,000' above the entry gate.

Water, Sewer, Electricity and Telephone

The existing water system at the State facilities consists of two wells at elevation 495'. The well pumps, rated at 250 and 400 gallons per minute (gpm), respectively, pump the water to a 100,000 gallon underground concrete reservoir at the 611' elevation. Adjacent to the reservoir is a booster pump station, consisting of two 1,800 gpm pumps that transmit the water from the reservoir through a 6" pipe, to two storage tanks (590,000 and 100,000 gallons) at elevation 868', above the State facilities. Gravity fed 6" and 12" lines then feed the distribution system that serves the State facilities on the property.

Water from the State's water system, or from a water truck brought in by the contractor, will be used for the drilling of the well.

The Waimano Facility is currently served by a sewer system that connects with the City and County system along Waimano Home Road at Hookiekie Street. The primary trunk line is a 12" gravity line along the main access road through the facility. Since the crew of the well contractor is expected to use portable toilets that are brought to the site, there would be no impact to the existing on-site sewer system.

HECO and Verizon Hawaii serve the Waimano Facility via overhead lines that generally run along the east side of the State complex. Electricity by HECO will not be required to power the well pumping equipment as a mobile generator using diesel fuel will provide the needed electrical power.

Although telephone service by Verizon Hawaii is available in the project area, cellular telephones are expected to provide communications for the construction crew.

Solid Waste

The debris from the site preparation stage will be removed from the property and hauled away to a commercial landfill. Very little solid waste is expected to be generated since the site is occupied predominantly by low groundcover.

Solid waste generated during operations will be collected and hauled away to a commercial landfill. Very little solid waste is expected to be generated since much of the materials and supplies used during the drilling and testing operations will be recycled or used again for another project. Once the pump test is completed, all equipment and generated solid waste will be removed from the site. The well will be capped and left for the next stage if it proves successful during the pump tests.

Public Services

The project site is located within existing police, fire protection, and medical service areas. Access to the property, in the event of emergencies, is provided by an improved State and City road.

VI. RELATIONSHIP TO PUBLIC LAND USE POLICIES

State Land Use District

The proposed well site is located in the Urban District and is a permitted use.

State Environmental Policies

The proposed action is consistent with the State Environmental Policy (Chapter 344, HRS) relating to "safeguarding the State's unique natural environmental characteristics in a manner which will foster and promote the general welfare, create and maintain

conditions under which humanity and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of the people of Hawaii.”

Further, if the exploratory well proves successful and is developed into a production well, it will replace two existing but aging wells in the current water system on Waimano Ridge. This replacement will assure long-term service for the area, and maintain the quality of life for the residents of Hawaii.

General Plan of the City and County of Honolulu

There are seven subject areas that provide the framework for the City's objectives and policies. These public policies address all aspects of health, safety, and welfare of the people of Oahu. The proposed project is consistent with the objectives and policies relating to the Transportation and Utilities Element of the General Plan. In particular, it is consistent with the Transportation and Utilities Element, Objective B: “To meet the needs of the people of Oahu for adequate supply of water...,” and its Policy 1 which states to “develop and maintain an adequate supply of water for both residents and visitors.”

Primary Urban Center Development Plan

The Development Plans (DPs) of the City and County of Honolulu are intended to implement the objectives and policies of the General Plan. The Primary Urban Center (PUC) DP covers the area from Waiialae-Kahala to Pearl City. The proposed action is compatible with the current PUC DP, which designates the project area as a Public Facility to reflect the State facilities on the Waimano property. The temporary nature of the exploratory well and the absence of any permanent building are compatible with the special provisions of the DP that relate to the protection of views and scenic amenities. The proposed project will not impact any of the Special Districts of the PUC.

The current Public Facilities Map of the DP does not show the existing Waimano Wells. These wells are to be replaced by the new well if the proposed exploratory well is successful.

The current draft (May 2002) of the PUC DP Update designates the project area as Institutional. One of its policies on water allocation and system development is to expedite system upgrades and capacity improvements to serve projected population increases.

City and County Land Use Ordinance

The Land Use Ordinance designates the property as R-5 Residential. The proposed action is a permitted use in this zoning district.

Special Management Area

The mauka boundary of the Special Management Area (SMA) is on the makai side of Kamehameha Highway. The project site is located outside of the SMA and, therefore, is not subject to the SMA Rules and Regulations of the City and County of Honolulu.

Required Permits and Approvals and Their Status

In addition to this document, which is being prepared in compliance with the provisions of Chapter 343, Hawaii Revised Statutes, the proposed action will require a grading permit from the City Department of Planning and Permitting, and a Well Construction Permit and Water Use Permit from the State Commission on Water Resource Management. Finally, all discharges from drilling operations will be to a disposal pit within the project site, and pump test waters will be discharged into an adjacent ravine on the southeastern side of the site. Thus, a National Pollutant Discharge Elimination System (NPDES) Permit will be required if discharges are, in fact, released into State waters.

VII. SUMMARY OF MAJOR IMPACTS

During site preparation of the project, the existing vacant site will be placed in productive use. During installation of the drill rig, well drilling, casing operations, and pump tests, the proposed action will generate some dust and noise, but will not adversely affect any neighboring residents. The Pacific Palisades subdivision above Pearl City, the nearest residential area, is located across Waimano Gulch, more than 1,400' from the well site. Pearl City Uplands subdivision, the nearest residential area makai and downwind of the project site, is located more than 3,500' from the proposed well. The overall noise level from the drilling operations will not exceed the State restrictions on maximum levels at residential property lines.

Immediately to the southwest or makai of the well site is a complex of offices and baseyard buildings used by DLNR and DOCARE. It is anticipated that the driveway for this complex will be used for access to the well site. Use of the driveway for the well construction and testing will be coordinated with the adjacent State facility.

To the northeast and mauka of the well site is a multi-purpose building. Recently, the building has been in use by the DPS on a limited basis. Installation and testing of the exploratory well should not interfere with the DPS operations in the building.

Construction of the project will not impact traffic on the nearby City roads and State's main access road, except when the drill rig and associated equipment are first brought to the site, and later removed and transported back to their baseyard. The transportation of this equipment will involve slow moving vehicles, which may affect traffic along

their route. A crew of four will operate the drill rig and generate a nominal volume of traffic when commuting daily to the site.

During drilling operations, drill cuttings and fluid will be discharged from the well. These cuttings and fluid will be retained in an excavated pit within the construction area of the exploratory well.

During the pump tests, water from the well will be discharged into an adjacent ravine on the southeastern side of the site. As part of the contractor's "best management practices" for the site, the water will be conveyed via a pipeline to the deeper portion of the ravine to avoid soil erosion along its route. The ravine is dry and leads to an unnamed intermittent stream that winds its way through Pearl City and eventually into East Loch of Pearl Harbor. If required, a NPDES permit will be obtained from the DOH for the discharge. The quantity of discharge could reach as much as 700 gallons per minute.

The discharge of pump test water is expected to be of potable quality and compatible with, or of better quality than any water that flows through the ravine and connects with the adjacent stream or drainage way.

Drawing groundwater from the aquifer during the pump tests is not expected to impact the flow of the nearby Waimano Stream. The streambed elevation is about 275' msl and does not intersect the basal lens which has a local head of approximately 20' in the area. This difference in elevation indicates that there would not be any seepage of the groundwater into the stream.

It is expected that pumpage from the proposed exploratory well will have no measurable effect on the water level at the other vicinity wells since they are over 1,000' away and outside the normal area of influence. The nearby Waimano Wells are to be replaced by the exploratory well turned production well, if the pump tests are successful, and thus the new well will be the only well operating in the area.

The quality of the well water will not be known until pump testing is completed. The results of water quality testing will determine if the water is potable and acceptable with or without treatment for use in the BWS system.

The visual effect of the drilling rig will be integrated with the visual scene of the Waimano Facility. Its distant location from the Momilani subdivision and nearby Pacific Palisades will make the structure unobtrusive. Once the drilling operation is completed, the rig will be removed and an at-grade cap will be installed on the well.

VIII. PROPOSED MITIGATION MEASURES

During the site preparation stage, the contractor will work only during normal daylight hours. During drilling and testing operations, however, nighttime work is expected to occur. Since the distance of the site from residential communities is more than 1,600' (Pacific Palisades) and 3,500' (Upper Pearl City), noise is not expected to be a problem. Further, the proposed project will comply with the Hawaii Administrative Rules (HAR) of the DOH, Chapter 11-46, on "Community Noise Control." If noise levels are expected to exceed the state limitations at the adjacent property lines, a variance will be sought from the State DOH.

Fugitive dust is not expected to impact any homes. The nearest homes are more than 1,600' from the well site and distant from any project operations. If dust becomes a problem for the adjacent State buildings, temporary dust screens will be erected. Construction activities will comply with the provisions of HAR, Chapter 11-60.1, "Air Pollution Control," Section 11-60.1-33, Fugitive Dust.

Best management practices will be employed, where necessary, to mitigate potential discharge of pollutants from drilling fluid or construction/operational activities into existing surface waters. Such practices would include the use of earth berms or silt containment measures to prevent surface runoff from discharging into nearby streams.

Similar measures would also be used to prevent the release of petroleum products or other potential hazardous material of the construction/operational activities from entering State waters. Regular inspection of vehicles and storage areas will be a contract requirement to be performed by the drilling contractor. The contractor shall be responsible to confirm there are no leaks that would potentially affect water quality. Absorbent pads or other containment devices will be kept on site by the contractor and used, as required, at fuel transfer points during fueling operations.

Water from pump tests will be discharged to an existing ravine and will be of potable quality. A NPDES permit will be obtained from the State DOH as required.

No mitigation measures will be necessary on traffic, however, slow moving construction vehicles transporting heavy equipment to and from the site will be scheduled during off-peak hours.

IX. ALTERNATIVES CONSIDERED

No Action

An alternative to the proposed action is to refrain from proceeding with the installation of the exploratory well. Although this option was available, it was not considered. The

proposed action is necessary to replace a pair of aging wells that have served their purpose and are in need of replacement.

Alternative Sites

The selection of the proposed well site at elevation 620' results from the need to replace two existing wells at elevation 495', to effectively tie-in with the existing BWS system in Pearl City, and to match the existing water pressure system in Waimalu. The proposed site is vacant and has adequate room for the well construction.

An alternative site was explored at the 860' elevation above the State facility buildings. This site would be in proximity to the 590,000- and 100,000-gallon tanks where storage for the well water would be readily available. The 860' elevation well would require a booster pump to convey water from the well to the storage tanks and a power line to the area to run the pumps. Water from the tanks would then gravity feed the existing 6" and 12" distribution lines primarily following the existing access road.

Construction of the well at elevation 860' would appear to be the most practical since it would utilize the location of the mauka tank for gravity-feed distribution. To develop a well at a higher elevation site would entail, however, greater cost due to the depth to ground water, and required piping and electrical infrastructure. Thus, constructing a new well at the same general location of the wells to be replaced and utilizing their existing accessory infrastructure is more cost effective. The replacement well will utilize the existing booster pump to transmit the well water up to the 860' elevation tanks, and there, the water is gravity-fed to the State facilities via its distribution system.

Alternative sites outside of the State facility grounds would not be feasible if they must be connected or tied-in with the Waimano Facility system.

Alternative Methodology

The drilling contractor will determine the method for drilling the exploratory well. The percussion method is a drilling procedure that employs an impact operation in the well hole. It utilizes a sharp bit on a cable that is repeatedly raised and dropped in the hole to cut a depth. The other method, rotary drilling, utilizes a drill bit that bores a hole to reach depth. The contractor will usually make a determination after inspecting soil and geology reports on the site.

X. DETERMINATION

This EA demonstrates that the proposed action is not anticipated to have a significant adverse effect on the environment and that an Environmental Impact Statement is not

warranted. A Finding of No Significant Impact, therefore, is determined for this project.

XI. FINDINGS AND REASONS SUPPORTING THE DETERMINATION

The following findings and reasons demonstrate that the proposed action will not have significant adverse impacts on the environment and, consequently, support the above determination.

- The proposed action will occur on a site that has already been disturbed. Its open field location will not interfere with any access to traditional gathering sites of important cultural resources. The exploration project will involve long-term use of water in the area only if pump tests show that an adequate and sustainable supply is available.
- The proposed action will not curtail the range of beneficial uses of the environment. The project site is currently vacant and is planned for productive use through the implementation of the proposed action. The site has not been designated by the State or City for any other long-term economic use.
- As provided in Section VI of this document, the proposed action is consistent with the State's long-range environmental policies and guidelines (Chapter 344, HRS).
- The proposed action is expected to have a beneficial effect on the economy. Its construction and testing operations will generate work and personal income and stir spending throughout the county and state.
- The equipment used for site preparation, well drilling, and pump testing will be using petroleum products that could leak from their engines or hydraulic systems. The construction contractor will be required to maintain its equipment in good working order, monitor for leaks, and employ safety precautions. If there is a petroleum spill, the contractor will be responsible for all necessary remedial actions and cleanups. The public health of the community would not be jeopardized.
- The proposed action will not involve secondary impacts that dramatically increase resident population. If the exploratory well proves successful, the new source will replace the existing well system that currently serves the State facilities at Waimano.
- The proposed action calls for minor site improvements in a small area and will not change the general character of the land.
- The proposed well project is part of a two-phase development. The first phase consists of exploration and testing. If the first phase proves successful, the second

phase is implemented and a permanent well facility is established. No other development is contemplated nor is it part of a larger-scale project.

- The proposed action will be located on vacant land within an existing State facility and is not expected to adversely affect any known rare, threatened, or endangered flora or fauna species.
- The anticipated impacts associated with project construction and operations, such as erosion, sedimentation, fugitive dust and noise, are short-term and temporary. They will be minimized or prevented from occurring by implementation of mitigative measures in accordance with applicable federal, state and city laws, statutes, ordinances, rules, regulations, and construction best management practices.
- The project site is not located in a hazard-prone area or an area subject to a 100-year flood.
- The project site is not included in any public document as a scenic resource.
- The proposed action, which is short-term and temporary, will not require substantial energy consumption.

XII. COMMENTS FROM AND RESPONSES TO PUBLIC AGENCIES, ORGANIZATIONS, PUBLIC OFFICIALS, AND PROPERTY OWNERS

The Draft EA for this project was transmitted to the following agencies, utility companies, organizations, public officials, and property owners for review and comment. The parties who responded are indicated below and a copy of their correspondence and the proposing agency's response is provided in this section. Comments from these agencies, organizations and individuals, which are applicable, have been incorporated into this Final EA.

	Agencies responding with comments	Agencies responding with no comments
Federal Agencies		
U.S. Department of Agriculture, Natural Resources Conservation Service		
U.S. Department of the Army, Army Engineer District, Honolulu	X	
U.S. Department of the Interior, Geological Survey, Water Resources Division		

	Agencies responding with comments	Agencies responding with no comments
State Agencies		
Department of Business, Economic Dev. and Tourism, Office of Planning		
Department of Health, Environmental Planning Office	X	
Department of Land and Natural Resources, Forestry and Wildlife Division		
Department of Land and Natural Resources, Historic Preservation Division		X
Department of Land and Natural Resources, Land Division		
Office of Environmental Quality Control	X	
Office of Hawaiian Affairs		
City and County of Honolulu Agencies		
Department of Design and Construction	X	
Department of Facility Maintenance		X
Department of Parks and Recreation		X
Department of Planning and Permitting	X	
Department of Transportation Services	X	
Fire Department	X	
Police Department	X	
Utility Companies		
Hawaiian Electric Company, Inc.		X
Verizon Hawaii		
Community Groups		
Manana Community Association	X	
Elected Officials		
State Senator Cal Kawamoto		
State Senator David Y. Ige		
State Representative Roy M. Takumi		
State Representative Mark Takai		
Councilmember Gary H. Okino		
Property Owners		
Waimano Facility (Formerly Waimano Training School and Hospital)		
Pearl City High School		



REPLY TO
ATTENTION OF:

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

March 28, 2003

RECEIVED

MAR 28 2003

377

Regulatory Branch

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Koyama:

This letter responds to your request, dated March 17, 2003, for review and comments on the Draft Environmental Assessment (DEA) for the Proposed Exploratory Wells, Waimano, Oahu, Hawaii. Based on the information provided in the DEA I have determined that there are no waters of the United States including wetlands at the project site and therefore a Department of the Army (DA) permit will not be required for this project.

If you have any questions concerning this determination, please contact William Lennan of my staff at 438-6986 or FAX 438-4060, and reference File No. 200300331.

Sincerely,

A handwritten signature in cursive script, appearing to read "George P. Young".

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

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

Mr. George P. Young, P.E., Chief
Regulatory Branch
U.S. Army Engineer District, Honolulu
Department of the Army
Fort Shafter, Hawaii 96858-5440

Dear Mr. Young:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 28, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. We acknowledge your determination that there are no waters of the United States including wetlands at the project site, and therefore, a Department of the Army Permit will not be required.

We appreciate your comments on the DEA.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric T. Hirano".

ERIC T. HIRANO
Chief Engineer

DI:ek

c: Glen Koyama, Belt Collins Hawaii

LINDA LINGLE
GOVERNOR OF HAWAII



PETER T. YOUNG, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCES MANAGEMENT

DEPUTY
ERNEST Y. W. LAU

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING, ROOM 555
601 KAMOKILA BOULEVARD
KAPOLEI, HAWAII 96707

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

March 11, 2003

Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

LOG NO: 31820
DOC NO: 0303st02
Architecture

Dear Mr. Koyama:

SUBJECT: Chapter 6E (HRS) Review
Draft Environmental Assessment
Proposed Exploratory Well at Waimano Training School and Hospital
Waimano, Oahu, Hawaii
TMK: (1) 9-7-025:001

Thank you for the letter dated February 21, 2003, regarding the Draft Environmental Assessment Plan for the proposed exploratory well at Waimano, Oahu. We have no comments to make at this time.

Thank you for the opportunity to comment. Should you have any questions regarding architecture please contact Susan Tasaki at 692-8032.

Aloha,

P. Holly McEldowney, Acting Administrator
State Historic Preservation Division

ST:jk

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

TO: Ms. P. Holly McEldowney, Acting Administrator
State Historic Preservation Division

FROM: Eric T. Hirano, Chief Engineer 

SUBJECT: **Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 11, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. We acknowledge that you have no comments on the DEA at this time.

We appreciate your time and effort in reviewing the DEA.

DI:ek

c: Glen Koyama, Belt Collins Hawaii

LINDA LINGLE
GOVERNOR OF HAWAII



RECEIVED

CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

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

MAR 13 01 0:17

03-051/epo

In reply, please refer to:
File:

03-051/epo

March 11, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Crispin:

Subject: Draft Environmental Assessment (DEA)
Proposed Exploratory Well
Waimano, Oahu
TMK: 9-7-025:001 (por)

Thank you for the opportunity to review and comment on the subject proposal. The DEA was routed to the various branches of the Environmental Health Administration. We have the following comments:

Clean Water Branch (CWB)

1. The Army Corps of Engineers should be contacted to identify whether a Federal permit (including a Department of Army permit) is required for this project. Pursuant to Section 401(a)(1) of the Federal Water Pollution Act (commonly known as the "Clean Water Act"), a Section 401 Water Quality Certification is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge into the navigable waters...."
2. A National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for the following activities:
 - a. Storm water associated with industrial activities, as defined in Title 40, Code of Federal Regulations, Sections 122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi);

(Note: After March 10, 2003, an NPDES permit will be required for construction activities, including clearing, grading, and excavation that result in the disturbance of one (1) acre or more.)

- b. Construction activities, including clearing, grading, and excavation that result in the disturbance of equal to or greater than five (5) acres of total land area. The total land area includes a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under a larger common plan of development or sale. **An NPDES permit is required before the commencement of the construction activities.**
- c. Discharge of treated effluent from leaking underground storage tank remedial activities;
- d. Discharge of once through cooling water less than one (1) million gallons per day;
- e. Discharge of hydrotesting water;
- f. Discharge of construction dewatering effluent;
- g. Discharge of treated effluent from petroleum bulk stations and terminals;
- h. Discharge of treated effluent from well drilling activities;
- i. Discharges of treated effluent from recycled water distribution systems;
- j. Discharges of storm water from a small municipal separate storm sewer system;
and
- k. Discharge of circulation water from decorative ponds or tanks.

The CWB requires that a Notice of Intent (NOI) to be covered by a NPDES general permit for any of the above activities be submitted at least 30 days before the commencement of the respective activities. The NOI forms may be picked up at our office or downloaded from our website at <http://www.state.hi.us/doh/eh/cwb/forms/genl-index.html>.

3. The applicant may be required to apply for an individual NPDES permit if there is any type of activity in which wastewater is discharged from the project into State waters, and/or coverage of the discharge(s) under the NPDES general permit(s) is not permissible. An application for the NPDES permit is to be submitted at least 180 days before the commencement of the activities. The NPDES application forms may also be picked up at our office or downloaded from our website at <http://www.state.hi.us/doh/eh/cwb/forms/indiv-index.html>.

Mr. Glen T. Koyama

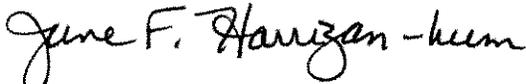
March 11, 2003

Page 3

4. Hawaii Administrative Rules, Section 11-55-38, also requires the owner to either submit a copy of the NOI or NPDES permit application to the State Department of Land and Natural Resources, State Historic Preservation Division (SHPD) or demonstrate to the satisfaction of the DOH that the project, activity, or site covered by the NOI or application has been or is being reviewed by SHPD.

If you have any questions, please contact the CWB at (808) 586-4309.

Sincerely,



JUNE F. HARRIGAN-LUM, MANAGER
Environmental Planning Office

c: CWB

LINDA LINGLE
GOVERNOR OF HAWAII

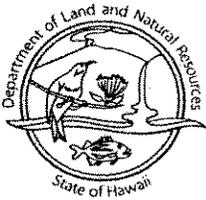


PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

TO: Ms. June F. Harrigan-Lum, Manager
Department of Health
Environmental Planning Office

FROM: Eric T. Hirano, Chief Engineer 

SUBJECT: Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii

Thank you for your letter of March 11, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. We acknowledge the comments made by the Clean Water Branch of your office and provide the following response.

1. We have received a letter from the Corps of Engineers indicating that there are no waters of the United States including wetlands at the project site, and therefore, no Department of the Army Permit is required.
2. The Department of Land and Natural Resources is planning to submit an application for a National Pollutant Discharge Elimination System (NPDES) general permit coverage prior to construction. Submittal of a Notice of Intent (NOI) under the NPDES general permit will be made at least 30 days prior to the commencement of project construction.
3. No discharge of wastewater from the proposed project will be made directly into State waters. Hence, no individual NPDES Permit is anticipated for the project.
4. The State Historic Preservation Division has reviewed the proposed action and has commented on the project's DEA.

We appreciate your comments on the proposed project.

DI:ek

c: Glen Koyama, Belt Collins Hawaii

LINDA LINGLE
GOVERNOR OF HAWAII



RECEIVED

GENEVIEVE SALMONSON
DIRECTOR

MAR 22 10 28 14

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

235 SOUTH BERETANIA STREET
SUITE 702
HONOLULU, HAWAII 96813
Telephone (808) 586-4185
Facsimile (808) 586-4186
Email: oeqc@health.state.hi.us

March 19, 2003

Mr. Andrew Monden
Engineering Branch, Land Division
Department of Land and Natural Resources, State of Hawai'i
P.O. Box 621
Honolulu, Hawai'i 96809

Ms. Deidre Mamiya
Land Division
Department of Land and Natural Resources, State of Hawai'i
P.O. Box 621
Honolulu, Hawai'i 96809

Mr. Glen Koyama
Belt Collins Hawai'i Ltd.
2153 North King Street, Suite 200
Honolulu, Hawai'i 96819

Dear Ms. Mamiya and Messrs. Monden and Koyama:

Having reviewed the draft environmental assessment (DEA) for the Proposed Exploratory Well at Waimano Ridge (at the 620-foot elevation) at Tax Map Key 9-7-25, portion of parcel 01, on land owned by the Estate of James Campbell in the judicial district of 'Ewa, the Office of Environmental Quality Control offers the following comments for your consideration.

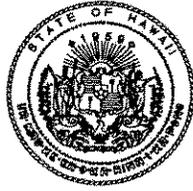
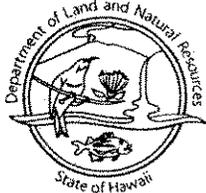
1. **ACCESS TO THE WAIMANO TRAILHEAD:** The trail is popular with various groups for recreational purposes. Please notify the Department of Land and Natural Resources of any work which may impede trail access.
2. **GUIDELINES FOR SUSTAINABLE BUILDING DESIGN IN HAWAII, AND THE USE OF RECYCLED GLASS:** Please refer to our website at <http://www.state.hi.us/health/oeqc/index.html> for guidance documents.
3. **INDIGENOUS AND POLYNESIAN INTRODUCED PLANTS FOR USE IN PUBLIC LANDSCAPING:** Please consider the use of native, indigenous and polynesian introduced plants in restorative landscaping.

If you have any questions concerning this letter, please call Leslie Segundo, Environmental Health Specialist, at (808) 586-4185; alternatively, you may send electronic mail to him at lsegund@mail.health.state.hi.us. Thank you for the opportunity to comment.

Sincerely,

GENEVIEVE SALMONSON
Director

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

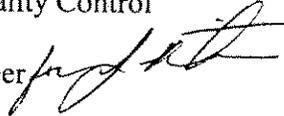
PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

TO: Ms. Genevieve Salmonson, Director
Office of Environmental Quality Control

FROM: Eric T. Hirano, Chief Engineer 

SUBJECT: **Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 19, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. Your letter made reference to TMK 9-7-25, portion of parcel 01 as owned by the Estate of James Campbell. According to our research of TMK maps prepared by the State Tax Office, the parcel is owned by the State of Hawaii, and an Executive Order designates its use for public facilities.

Mr. Mike Tamanaha, Administrator of the Waimano Facility, is in charge of access through the State complex and to the trail above the State facility. Mr. Tamanaha has been consulted on the proposed exploratory well and will be informed, as needed, about the project's progress and construction.

The proposed exploratory well is an interim operation that may or may not lead to a permanent facility, depending on pump test results. The Guidelines for Sustainable Building Design in Hawaii, and the Use of Recycled Glass would not be applicable to the proposed project.

Should the test results prove successful, the exploratory well will be converted into a permanent production well and the Guidelines as well as the use of native, indigenous and Polynesian introduced plants will be considered in the project's building design and landscaping.

We appreciate your comments on the proposed project.

DI:ek

c: Glen Koyama, Belt Collins Hawaii

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

850 SOUTH KING STREET • HONOLULU, HAWAII 96813
Telephone: (808) 523-4414 • Fax: (808) 527-6743 • INTERNET: www.co.honolulu.hi.us

RECEIVED

MAR 27 - 2 03 10

10:00 AM

JEREMY HARRIS
MAYOR



ERIC G. CRISPIN, AIA
DIRECTOR

BARBARA KIM STANTON
DEPUTY DIRECTOR

2003/ELOG-658 (MH)

March 31, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819-4554

Dear Mr. Koyama:

Waimano Ridge Proposed Exploratory Well Draft Environmental Assessment

In response to your request for comments of February 20, 2003, we have reviewed the subject Draft Environmental Assessment and have the following comments to offer:

1. How will the proposed well tie-in with the existing Board of Water Supply (BWS) system in Pearl City? The Final Environmental Assessment (FEA) should disclose the size/alignment of the connecting line to tie-in with the existing BWS system and who will be responsible for the project cost.
2. According to the Draft Environmental Assessment, page 11, "The Waimalu Aquifer Sector has a sustainable yield of 45 million gallons per day (mgd). It has a current allocation or permitted use of 46.793 mgd."

Since the current allocation or permitted use is approximately 1.793 mgd over the sustainable yield of the Waimalu Aquifer Sector, the FEA should discuss any potential negative impacts on the ground water supply.

3. Regarding comments 1 and 2 above, we recommend that the State consult with the BWS and disclose the appropriate information in the FEA.

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
March 31, 2003
Page 2

Should you have any questions, please contact Matt Higashida of our staff at 527-6056.

Sincerely yours,



 ERIC G. CRISPIN, AIA
Director of Planning and Permitting

EGC:js

cc: Board of Water Supply
Department of Land and Natural Resources
Office of Environmental Quality Control

p:/Planning/DivFunction/Ea-eis/2003/Waimano Ridge Proposed Exploratory Well DEA

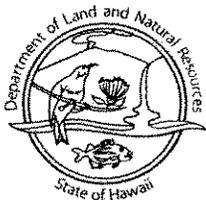
LINDA LINGLE
GOVERNOR OF HAWAII



PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

JUN 3 2003

Mr. Eric G. Crispin, AIA, Director
Department of Planning and Permitting
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Crispin:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 31, 2003 regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu.

The water system for the Waimano Facility includes 6" and 12" distribution lines and smaller water laterals to individual buildings. Should the proposed exploratory well prove successful during pump tests, plans will be developed for the project's next phase to convert the exploratory well into a production well and provide a connection to the Honolulu Board of Water Supply's (BWS) system at the State property's makai boundary. A detailed description of the subsequent phase will be provided in a separate EA for that phase. The BWS has been briefed and partially involved in the initial planning of the new well site. Construction of the project will be financed by the State Department of Land and Natural Resources.

The proposed action calls for an exploratory well that will determine if there is sufficient water to pump from the site. If the new well proves successful, it will be converted to a production well to replace the two existing wells within the State complex. Pumpage from the new well will not be more than what is currently permitted from the two existing wells, and hence, would not change the on-going groundwater conditions of the area.

The BWS is cognizant of the aquifer's status and has been in discussions with the proposing agency on the project during the initial concept discussions.

We appreciate your comments on the DEA.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric T. Hirano".
ERIC T. HIRANO
Chief Engineer

DI:ek

c: Glen Koyama, Belt Collins Hawaii

DEPARTMENT OF FACILITY MAINTENANCE
CITY AND COUNTY OF HONOLULU

10-00 ULUOHIA STREET, SUITE 215 • KAPOLEI, HAWAII 96707
Phone: (808) 692-5054 • Fax: (808) 692-5857

RECEIVED

APR 10 10 31 20

APR 10 10 31 20

JEREMY HARRIS
MAYOR



LARRY J. LEOPARDI
DIRECTOR AND CHIEF ENGINEER

ALVIN K.C. AU
DEPUTY DIRECTOR

IN REPLY REFER TO:

PRO 03-010

February 25, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Koyama:

Subject: DRAFT ENVIRONMENTAL ASSESSMENT
PROPOSED EXPLORATORY WELL
WAIMANO, OAHU, HAWAII, TMK: 9-7-25: PORTION OF 1

The Department of Facility Maintenance does have any comments at this time.

If you have any questions, please call Laverne Higa at 692-5111.

Very truly yours,

A handwritten signature in cursive script that reads "Larry J. Leopardi".

LARRY J. LEOPARDI
Director and Chief Engineer

LJL:lh

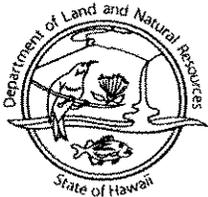
LINDA LINGLE
GOVERNOR OF HAWAII



PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

JUN 3 2003

Mr. Larry J. Leopardi, Director and Chief Engineer
Department of Facility Maintenance
City and County of Honolulu
10-00 Uluohia Street, Suite 215
Kapolei, Hawaii 96707

Dear Mr. Leopardi:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of February 25, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. We are assuming your letter really meant to say that there are no comments on the DEA at this time.

We appreciate your time and effort in reviewing the DEA and thank you for your response.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric T. Hirano".

ERIC T. HIRANO
Chief Engineer

DI:ek
c: Glen Koyama, Belt Collins Hawaii

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

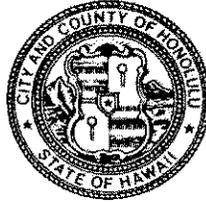
650 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 523-4564 • Fax: (808) 523-4567
Web site: www.co.honolulu.hi.us

RECEIVED

2003-03-04 09:23:10

800-421-1111

JEREMY HARRIS
MAYOR



TIMOTHY E. STEINBERGER, P.E.
ACTING DIRECTOR

GEORGE T. TAMASHIRO, P.E.
ASSISTANT DIRECTOR

WW.P 03-082

March 3, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819-4554

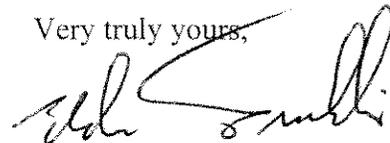
Dear Mr. Koyama:

Subject: Draft Environmental Assessment, Proposed Exploratory Well
Waimano, Oahu, Hawaii, TMK: 9-7-25: Portion of 1

We have reviewed the subject Draft Environmental Assessment and note that the project will have no impact to the existing on-site sewer system. Based on this finding, the Wastewater Division, Planning Branch has no objections to the subject project.

If there are any changes or questions, please contact Richard Leong at 527-5863.

Very truly yours,


for TIMOTHY E. STEINBERGER, P.E.
Acting Director

LINDA LINGLE
GOVERNOR OF HAWAII



PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

Mr. Timothy E. Steinberger, P.E., Acting Director
Department of Design and Construction
City and County of Honolulu
650 South King Street, 11th Floor
Honolulu, Hawaii 96813

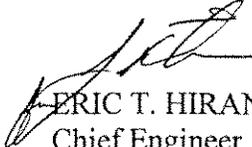
Dear Mr. Steinberger:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 3, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. We acknowledge that you have no objections to the proposed exploratory well.

We appreciate your comment on the DEA.

Sincerely,

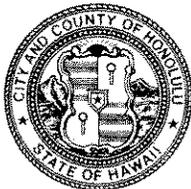

ERIC T. HIRANO
Chief Engineer

DI:ek
c: Glen Koyama, Belt Collins Hawaii

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 3RD FLOOR • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4529 • FAX: (808) 523-4730 • INTERNET: www.co.honolulu.hi.us

JEREMY HARRIS
MAYOR



CHERYL D. SOON
DIRECTOR

GEORGE "KEOKI" MIYAMOTO
DEPUTY DIRECTOR

TP2/03-22250R

March 28, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Koyama:

Subject: Waimano Exploratory Well

In response to your February 20, 2003 letter, we reviewed the draft environmental assessment for the subject project. Our only comment is that the larger vehicles required for the construction phase of the project should be kept off of Waimano Home Road until after the morning peak period. This will ensure smooth traffic flow on Waimano Home Road and pedestrian safety (especially for area school children).

Should you have any questions regarding this matter, please contact Faith Miyamoto of the Transportation Planning Division at 527-6976.

Sincerely,

A handwritten signature in black ink, appearing to read "Cheryl D. Soon".

CHERYL D. SOON
Director

LINDA LINGLE
GOVERNOR OF HAWAII



PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

Ms. Cheryl D. Soon, Director
Department of Transportation Services
City and County of Honolulu
650 South King Street, 3rd Floor
Honolulu, Hawaii 96813

Dear Ms. Soon:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 28, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. The large vehicles that will transport the heavy equipment and material to and from the well site during the construction and completion phase of the project will be scheduled for non-peak hours.

We appreciate your comments on the DEA.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric T. Hirano".

ERIC T. HIRANO
Chief Engineer

DI:ek

c: Glen Koyama, Belt Collins Hawaii

DEPARTMENT OF PARKS AND RECREATION
CITY AND COUNTY OF HONOLULU

1000 ULUOHIA STREET, SUITE 309 • KAPOLEI, HAWAII 96707
TELEPHONE: (808) 692-5561 • FAX: (808) 692-5131 • INTERNET: www.co.honolulu.hi.us

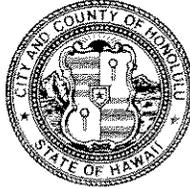
RECEIVED

MAR 13 11 29 AM '03

WILLIAM D. BALFOUR, JR.
DIRECTOR

EDWARD T. "SKIPPA" DIAZ
DEPUTY DIRECTOR

JEREMY HARRIS
MAYOR



March 11, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Koyama:

Subject: Draft Environmental Assessment
Proposed Exploratory Well
Waimano, Oahu, Hawaii, TMK 9-7-25: Portion of 1

Thank you for the opportunity to review and comment on the Draft Environmental Assessment relating to the proposed exploratory water wells at DLNR's Waimano Facility on Waimano Ridge.

The Department of Parks and Recreation has no comments or concerns on this project, and we may be deleted from the consulted parties to the environmental assessment process.

Should you have any questions, please contact Mr. John Reid, Planner, at 692-5454.

Sincerely,

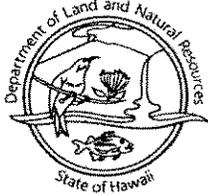
A handwritten signature in black ink that reads "W.D. Balfour, Jr." with a stylized flourish at the end.

WILLIAM D. BALFOUR, JR.
Director

WDB:mk (J. Reid, ESO)
(22221)

cc: Mr. Don Griffin, Department of Design and Construction

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

Mr. William D. Balfour, Jr., Director
Department of Parks and Recreation
City and County of Honolulu
1000 Uluohia Street, Suite 309
Kapolei, Hawaii 96707

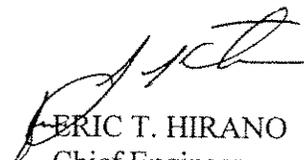
Dear Mr. Balfour:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 11, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. We acknowledge that you have no comments on the proposed project.

We appreciate your time and effort in reviewing the DEA and thank you for your response.

Sincerely,


ERIC T. HIRANO
Chief Engineer

DI:ek

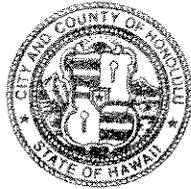
c: Glen Koyama, Belt Collins Hawaii

POLICE DEPARTMENT
CITY AND COUNTY OF HONOLULU

801 SOUTH BERETANIA STREET
HONOLULU, HAWAII 96813 - AREA CODE (808) 529-3111
<http://www.honolulu.police.org>
www.co.honolulu.hi.us

RECEIVED
MAR 31 PM 14:00
BELT COLLINS HAWAII LTD

JEREMY HARRIS
MAYOR



LEE D. DONOHUE
CHIEF

GLEN R. KAJIYAMA
PAUL D. PUTZULU
DEPUTY CHIEFS

OUR REFERENCE SK-DK

March 25, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Koyama:

Thank for the opportunity to review and comment on the Draft Environmental Assessment for the Proposed Exploratory Well in Waimano.

During the preparation, drilling, and testing operations, this project may have a negative impact on calls for police services in the area because of noise complaints. However, when it is completed, there should be negligible impact.

Sincerely,

LEE D. DONOHUE
Chief of Police

By 
KARL GODSEY
Assistant Chief of Police
Support Services Bureau

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

JUN 3 2003

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

Lee D. Donohue, Chief of Police
Police Department
City and County of Honolulu
801 South Beretania Street
Honolulu, Hawaii 96813

Dear Chief Donohue:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 25, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. During drilling and testing of the exploratory well, the proposed project will comply with State noise regulations, as provided under Hawaii Administrative Rules, Chapter 46, Community Noise Control and file a Community Noise Permit as required. It is true that should the well be converted into a permanent production well, it would have minimum noise impact on surrounding areas.

We appreciate your comments on the DEA.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric T. Hirano".

ERIC T. HIRANO
Chief Engineer

DL:ek

c: Glen Koyama, Belt Collins Hawaii

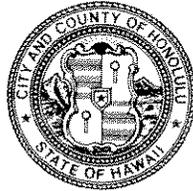
FIRE DEPARTMENT
CITY AND COUNTY OF HONOLULU

3375 KOAPAKA STREET, SUITE H425 • HONOLULU, HAWAII 96819 • 1869
TELEPHONE: (808) 831-7761 • FAX: (808) 831-7750 • INTERNET: www.honolulufire.org



ATILIO K. LEONARDI
FIRE CHIEF

JOHN CLARK
DEPUTY FIRE CHIEF



JEREMY HARRIS
MAYOR

March 20, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Koyama:

Subject: Draft Environmental Assessment
Proposed Exploratory Well
Waimano, Oahu, Hawaii
Tax Map Key: 9-7-025: 001

We received your letter dated February 20, 2003, requesting our review and comments on the Draft Environmental Assessment for the above-mentioned project. The Honolulu Fire Department has no objections to the project.

Should you have any questions, please call Battalion Chief Lloyd Rogers of our Fire Prevention Bureau at 831-7778.

Sincerely,

A handwritten signature in black ink that reads "Attilio K. Leonardi".

ATTILIO K. LEONARDI
Fire Chief

AKL/SD:bh

LINDA LINGLE
GOVERNOR OF HAWAII

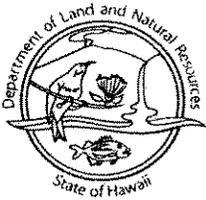


PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

Attilio K. Leonardi, Fire Chief
Fire Department
City and County of Honolulu
3375 Koapaka Street, Suite H425
Honolulu, Hawaii 96819-1869

Dear Chief Leonardi:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

Thank you for your letter of March 20, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. We acknowledge that you have no objections to the proposed project.

We appreciate your comments on the DEA.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric T. Hirano".

ERIC T. HIRANO
Chief Engineer

DI:ek
c: Glen Koyama, Belt Collins Hawaii

GEN-6 (EIS/EA)

RECEIVED

FEB 10 -7 PM 2:15

BELT COLLINS



February 5, 2003

Mr. Glen T. Koyama
BeltCollins
2153 North King Street - Suite 200
Honolulu, HI 96819

Dear Mr. Koyama:

**Re: Proposed Exploratory Well
Waimano, Oahu, Hawaii
TMK 9-7-28: Portion of 1**

Thank you for the opportunity to comment on the January 2003 draft EA of the subject project, as proposed by the Department of Department of Land and Natural Resources, State of Hawaii. We have reviewed the document and have no comments at this time.

HECO reserves the opportunity to further comment on the protection of existing powerlines and electric power facilities that may be affected by the project until construction plans are finalized. Again, thank you for the opportunity to comment on this draft EA.

Sincerely,

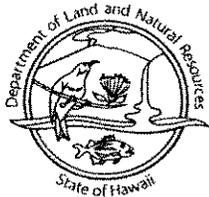
Kirk S. Tomita
Senior Environmental Scientist

cc: Ms. Genevieve Salmonson (OEQC)
Mr. Dennis Imada (DLNR)

WINNER OF THE EDISON AWARD
FOR DISTINGUISHED INDUSTRY LEADERSHIP



LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

JUN 3 2003

Mr. Kirk S. Tomita
Senior Environmental Scientist
Hawaiian Electric Company, Inc.
P.O. Box 2750
Honolulu, Hawaii 96840-0001

Dear Mr. Tomita:

**Draft Environmental Assessment for Job No. 17-OW-H1,
Proposed Exploratory Well, TMK 9-7-25: Portion of 01,
Waimano, Oahu, Hawaii**

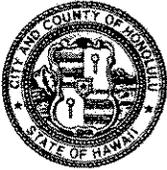
Thank you for your letter of February 5, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu. We acknowledge that you have no comments on the proposed project at this time.

We appreciate your time and effort in reviewing the DEA and thank you for your response.

Sincerely,


ERIC T. HIRANO
Chief Engineer

DI:ek
c: Glen Koyama, Belt Collins Hawaii



PEARL CITY NEIGHBORHOOD BOARD NO. 21

c/o NEIGHBORHOOD COMMISSION • 530 SOUTH KING STREET, ROOM 400 • HONOLULU, HAWAII 96813

March 12, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii, Ltd.
2153 North King Street, Suite 200
Honolulu, HI 96819

Dear Mr. Koyama,

Subject: Draft Environmental Assessment (EA)
Proposed Exploratory Well
Waimano, Ewa, Oahu, Hawaii
Tax Map Key: 9-7-25: POR. 1

RECEIVED

MAR 12 10 41 AM '03

BELT COLLINS HAWAII

The Pearl City Neighborhood Board No. 21 reviewed the above January 2003 document. At its February 27, 2003 regular meeting, the Board voted, 10-0-0, that they have no significant objections on the contents of the Draft EA, except that construction work noise be mitigated during drilling operations.

We also request that the Department of Land and Natural Resources (DLNR), Engineering Division inform the Board of the results of the evaluation for acceptance of permanent well sites and that periodic reports of their on-going well development on Waimano Ridge be submitted for further comments and/or input.

Thank you for allowing us to submit recommendations for this proposed project.

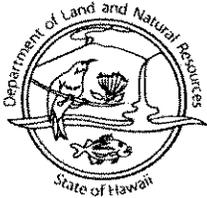
Very Truly Yours,

Albert K. Fukushima
Chair

CC: Office of Environmental Quality Control
Dennis Imada, DLNR Engineering Division
Pearl City Neighborhood Board No. 21 Members
Neighborhood Commission Office



LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

ENGINEERING DIVISION
POST OFFICE BOX 373
HONOLULU, HAWAII 96809

JUN 3 2003

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

Mr. Albert K. Fukushima, Chair
Pearl City Neighborhood Board No. 21
c/o Neighborhood Commission
530 South King Street, Room 400
Honolulu, Hawaii 96813

Dear Mr. Fukushima:

Draft Environmental Assessment
Proposed Exploratory Well, Job No. 17-OW-H1
Waimano, Oahu, Hawaii, TMK 9-7-25: Portion of 01

Thank you for your letter of March 12, 2003, regarding the Draft Environmental Assessment (DEA) for the proposed exploratory well at Waimano, Oahu.

We acknowledge the Neighborhood Board's vote on the contents of the DEA and the recognition that there would be no significant impact on the area.

During drilling and testing of the exploratory well, the proposed project will comply with State noise regulations, as provided under Hawaii Administrative Rules, Chapter 46, Community Noise Control and file a Community Noise Permit as required.

Should the pump tests on the exploratory well prove successful, the Department of Land and Natural Resources will forward information on the permanent well's progress to the Neighborhood Board.

We appreciate your comments on the DEA.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric T. Hirano".

ERIC T. HIRANO
Chief Engineer

DI:ek

c: Glen Koyama, Belt Collins Hawaii

APPENDIX

Letters Received During Early Consultation Period

LINDA LINGLE
GOVERNOR OF HAWAII



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

RECEIVED

CHYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

2003 JUN 24 PM 2:38

BELT COLLINS HAWAII LTD.

In reply, please refer to:
File:

02-323/epo

January 23, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street 200
Honolulu, Hawaii 96819-4554

Dear Mr. Koyama:

Subject: Pre-Consultation for Environmental Assessment (PEA)
Proposed Pearl Harbor Exploratory Well, Waimano, Oahu

Thank you for the opportunity to review and comment on the subject proposal. The PEA was routed to the various branches of the Environmental Health Administration. We have the following comments:

Clean Water Branch (CWB)

I. A National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for the following activities:

- a. Storm water associated with industrial activities, as defined in Title 40, Code of Federal Regulations, Sections 122.26(b)(14)(i) through 122.26(b)(14)(ix) and 122.26(b)(14)(xi);
- b. Storm water associated with construction activities that involve the disturbance of five (5) acres or greater, including clearing, grading, and excavation;

Note: After March 10, 2003, an NPDES permit will be required for construction activities, including clearing, grading, and excavation that result in the disturbance of one (1) acre or more.

- c. Discharge of treated effluent from leaking underground storage tank remedial activities;
- d. Discharge of once-through cooling water less than one (1) million gallons per day;

- e. Discharge of hydrotesting water;
- f. Discharge of construction dewatering effluent;
- g. Discharge of treated effluent from petroleum bulk stations and terminals;
- h. Discharge of treated effluent from well drilling activities;
- i. Discharges of treated effluent from recycled water distribution systems;
- j. Discharges of storm water from a small municipal separate storm sewer system; and
- k. Discharge of circulation water from decorative ponds or tanks.

Any person requesting to be covered by a NPDES general permit for any of the above activities should file a Notice of Intent with the Department of Health, Clean Water Branch (CWB) at least 30 days prior to commencement of any respective activities. An NPDES permit is required before the commencement of the construction activities; and

2. The applicant may be required to apply for an individual NPDES permit if there is any type of activity in which wastewater is discharged from the project into State waters, and/or coverage of the discharge(s) under the NPDES general permit(s) is not permissible. An application for the NPDES permit is to be submitted at least 180 days before the commencement of the activities. The NPDES application forms may also be picked up at our office or downloaded from our website at <http://www.state.hi.us/doh/eh/cwb/forms/indiv-index.html>.

If you have any questions, please contact the CWB at (808) 586-4309.

Clean Air Branch (CAB)

Control of Fugitive Dust

There is a potential for fugitive dust emissions during all phases of the project. Proposed construction activities will occur on the grounds of a training school and hospital, and will be in proximity to existing residence, thereby exacerbating potential dust problems.

It is recommended that a dust control management plan be developed which identifies and addresses all activities that have a potential to generate fugitive dust. Implementation of adequate dust control measures during all phases of development and construction activities is warranted. Construction activities must comply with provisions of Hawaii Administrative Rules, Chapter 11-60.1, "Air Pollution Control," Section 11-60.1-33, Fugitive Dust.

If you have any questions, please contact the Clean Air Branch at (808) 586-4200.

Mr. Glen T. Koyama

January 23, 2003

Page 3

Noise, Radiation and Indoor Air Quality (NRIAQ) Branch

All project activities shall comply with the Administrative Rules of the Department of Health, Chapter 11-46, on "Community Noise Control".

If you have any questions, please contact the NRIAQ at (808) 586-4701.

Sincerely,

A handwritten signature in cursive script that reads "June F. Harrigan-Lum".

JUNE F. HARRIGAN-LUM, MANAGER
Environmental Planning Office

c: CWB
CAB
NRIAQ

LINDA LINGLE
GOVERNOR OF HAWAII



ERIC HIRANO, ACTING DIRECTOR
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCES MANAGEMENT

STATE OF HAWAII

REC'D 300 JAN 13 PM 3:22

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING, ROOM 555
801 KAMOKILA BOULEVARD
KAPOLEI, HAWAII 96707

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

January 9, 2003

Mr. Glen Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819

LOG NO: 31396
DOC NO: 0212st07
Architecture

Dear Mr. Koyama:

**SUBJECT: Chapter 6E(HRS) Review
Waimano Training School and Hospital
Well Site, TMK 9-7-025:001 , O'ahu**

Thank you for the submittal dated December 12, 2002 showing two possible sites for an exploratory well in the Waimano Training School and Hospital grounds that would encompass 5,000 to 10,000 sq. ft. in size to accommodate drilling and testing operations. In response to your request for information on existing archaeological resources or features that might be present at the two possible well sites, we believe that there are no archaeological concerns within or near to the developed portion of the property. Since the exploratory well will not affect any building, we have no architectural concerns. However should any structure be proposed, we would need the age of the nearby buildings and the siting of the structure to determine if there will be an affect on historic resources.

Thank you for the opportunity to comment. Should you have any questions regarding architecture, please contact Susan Tasaki at 692-8032. Should you have any questions, regarding archaeology, please feel free to call Sara Collins at 692-8026 or Elaine Jourdane at 692-8027.

Aloha,

P. Holly McEldowney

P. Holly McEldowney, Acting Administrator
State Historic Preservation Division

ST:ak



Oahu Na Ala Hele
Trails & Access Program

RECEIVED

2003 JAN 16 PM 2:11

BELT COLLINS HAWAII

MEMORANDUM

January 9, 2003

TO: Glen Koyama, Belt Collins Hawaii LTD.

FROM: Aaron Lowe, Oahu Trails and Access Specialist - PH# (808) 973-9782

SUBJECT: Pearl Harbor (Waimano Ridge) Exploratory Well

Based on the location shown on the provided site map, we see no obvious negative impact to the adjacent Waimano Trail or Eva Forest Reserve. However, if at any time during the project your company finds that the project will possibly interfere with public access to the trail or will compromise the trail view corridor in any way, we ask that you notify us promptly.

Mahalo,

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

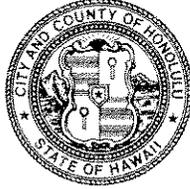
650 SOUTH KING STREET • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4414 • FAX: (808) 527-6743 • INTERNET: www.co.honolulu.hi.us

RECEIVED

2003 JAN 13 PM 2:32

DEPT. OF PLANNING & PERMITTING

JEREMY HARRIS
MAYOR



ERIC G. CRISPIN, AIA
Acting DIRECTOR
BARBARA KIM STANTON
DEPUTY DIRECTOR

2002/ELOG-3646 (MH)

January 7, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819-4554

Dear Mr. Koyama:

Environmental Assessment (EA) Proposed Pearl Harbor
(Waimano Ridge) Exploratory Well, Waimano, Oahu, Hawaii

In response to your request for comments of December 19, 2002, in the preparation of the Draft EA we have the following comments to offer:

1. The Draft Environmental Assessment (DEA) should include a section on how the proposed Pearl Harbor (Waimano Ridge) Exploratory Well project is consistent with, the Objectives and Policies of the General Plan, the existing Primary Urban Center Development Plan (PUC DP), and the draft revised PUC DP.
2. Please identify the Tax Map Key(s) of the proposed site.
3. We look forward to reviewing and commenting on the DEA.

Should you have any questions, please contact Matt Higashida of our staff at 527-6056.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Eric G. Crispin".

ERIC G. CRISPIN, AIA
Acting Director of Planning and Permitting

EGC:js

cc: Department of Land and Natural Resources
Office of Environmental Quality Control
g:/Planning/DivFunction/Ea-eis/2002/EA for Proposed Pearl Harbor (Waimano Ridge) Exploratory Well

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

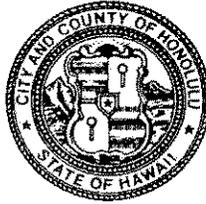
650 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 523-4564 • Fax: (808) 523-4567
Web site: www.co.honolulu.hi.us

RECEIVED

2003 JAN 09 PM 3:57

BELT COLLINS HAWAII

JEREMY HARRIS
MAYOR



RAE M. LOUI, P.E.
DIRECTOR

GEORGE T. TAMASHIRO, P.E.
ASSISTANT DIRECTOR

WW.P 03-011

January 8, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819-4554

Dear Mr. Koyama:

Subject: Environmental Assessment, Proposed Pearl Harbor
(Waimano Ridge) Exploratory Well, Waimano, Oahu

We have reviewed your request on behalf of the State Department of Land and Natural Resources (DLNR) for DLNR's proposed exploratory well in the Waimano Training School and Hospital (WTSH) property on Waimano Ridge above Pearl City. We note that the land area around the proposed well site is zoned R-5 Residential.

Our Wastewater Division, Planning Branch, is interested in reviewing the project's Environmental Assessment as it impacts on any wastewater collection and distribution systems in the area.

If there are any questions, please contact Richard Leong at 527-5863.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Rae M. Loui".

RAE M. LOUI, P.E.
Director

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

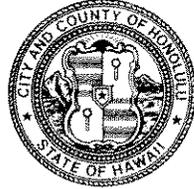
650 SOUTH KING STREET, 3RD FLOOR • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4529 • FAX: (808) 523-4730 • INTERNET: www.co.honolulu.hi.us

RECEIVED

2003 JAN 15 PM 1:38

BELT COLLINS HAWAII

JEREMY HARRIS
MAYOR



CHERYL D. SOON
DIRECTOR

GEORGE "KEOKI" MIYAMOTO
DEPUTY DIRECTOR

TP12/02-19545R

January 9, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819-4554

Dear Mr. Koyama:

Subject: Pearl Harbor (Waimano Ridge) Exploratory Well

In response to your December 19, 2002 letter, we reviewed the project information provided and have no comments to offer at this time.

Should you have any questions regarding this matter, please contact Faith Miyamoto of the Transportation Planning Division at 527-6976.

Sincerely,

A handwritten signature in black ink, appearing to read "Cheryl D. Soon".

CHERYL D. SOON
Director

FIRE DEPARTMENT
CITY AND COUNTY OF HONOLULU

3375 KOAPAKA STREET, SUITE H425 • HONOLULU, HAWAII 96819-1869
TELEPHONE: (808) 831-7761 • FAX: (808) 831-7750 • INTERNET: www.honolulufire.org

RECEIVED

700 JAN -8 PM 3: 54

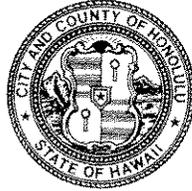
BELT COLLINS HAWAII



ATTILIO K. LEONARDI
FIRE CHIEF

JOHN CLARK
DEPUTY FIRE CHIEF

JEREMY HARRIS
MAYOR



January 6, 2003

Mr. Glen T. Koyama
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819-4554

Dear Mr. Koyama:

Subject: Environmental Assessment (EA)
Proposed Pearl Harbor (Waimano Ridge) Exploratory Well
Waimano, Oahu, Hawaii

We received your letter dated December 19, 2002, requesting our comments for the above-mentioned project. The Honolulu Fire Department has no objections to the project.

Should you have any questions, please call Battalion Chief Lloyd Rogers of our Fire Prevention Bureau at 831-7778.

Sincerely,

A handwritten signature in black ink, appearing to read "Attilio K. Leonardi".

ATTILIO K. LEONARDI
Fire Chief

AKL/SK:bh

cc: Eric Yuasa, State of Hawaii, Department of Land and Natural Resources