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MEMORANDUM

TO: Gary Hooser, Director
Environmental Health
Office of Environmental Quality Control

FROM: Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

SUBJECT: Final Environmental Assessment (FEA)/Finding of No Significant Impact,
Conservation District Use Application OA-3610

The Department has reviewed Conservation District Use Application OA-3610 and the Final Environmental Assessment (FEA) for the Verizon Telecommunications Tower at the Ko`olau Golf Course, Kāne`ohe, Ko`olaupoko, O`ahu, TMK (1) 4-5-042:008. The Draft Environmental Assessment (DEA) for CDUA OA-3608 was published in OEQC's December 23, 2011 *Environmental Notice*.

The FEA is being submitted to OEQC. We have determined that this project will not have significant environmental effects, and have therefore issued a FONSI. The FONSI does not constitute approval of the CDUA; authority to grant or deny the final permit lies with the Board of Land and Natural Resources.

Please publish this notice in OEQC's upcoming February 23, 2012 *Environmental Notice*. We have enclosed one hard copy of the FEA and one digital. Comments on the draft EA were sought from relevant agencies and the public, and were included in the FEA.

The OEQC Bulletin Publication Form and Project Summary have also been emailed to your office; the project summary is unchanged from the original.

Please contact Michael Cain of our Office of Conservation and Coastal Lands staff at 587-0380 if you have any questions on this matter.

attachments: FEA (digital and hard copy)

PROJECT NAME: VERIZON WIRELESS TELECOMMUNICATION FACILITY
APPLICABLE LAW: HRS 343
TYPE OF DOCUMENT: FEA
ISLAND: O'ahu
DISTRICT: Ko'olaupoko
TMK: (1) 4-5-042:008

APPLICANT: Cellco Partnership dba Verizon Wireless, 300 Kahelu Avenue, Mililani, Hawai'i 96789

DETERMINATION AGENCY: Office of Conservation and Coastal Lands, Department of Land and Natural Resources, PO Box 621, Honolulu, HI 96809. Contact: Michael Cain, (808) 587-0048

CONSULTANT NAME: RealCom Associates, 1506 Mahamoe Place, Honolulu, Hawai'i 96819. Contact: Les Young, (808) 256-2001

PERMITS REQUIRED: CDUP

The proposal calls for a telecommunications facility at the Ko'olau Golf Course in Kane'ohe. The facility includes a thirty-foot tower with 12 panel antennas, six outdoor equipment cabinets, one diesel-fueled emergency generator, and associated conduits and coax cables. The 600 square-foot project area would be enclosed by a six-foot high chain link fence.

The project site is off the paved maintenance access road, approximately 90 feet northwest of the existing maintenance building and 120 feet south of the H-3. Telco and HECO utility poles run along the access road. The area has been previously disturbed, and is currently used as-needed for the storage of soil and sand.

The area immediately to the west is a thick forest with trees rising to fifty feet. This will partially mitigate the visual impact of the structure from H-3.

The applicant has submitted correspondence from the State Historic Preservation Division that no historic properties would be affected by a telecom tower on the site, and from the US Fish and Wildlife Service that no federally listed or proposed species, or proposed or designated critical habitats, occur on the proposed site. No known cultural or recreational activities beyond golfing occur on the parcel.

Environmental Assessment Report

Proposed Verizon Wireless
HON Hawaiian Memorial Cell Site
(VZW Project ID #2004005294)
Ko'olau Golf Club Maintenance Facility
(Portion of TMK No.: [1] 4-5-042: Parcel 001)
Kaneohe, Oahu, Hawaii 96744

February 7, 2012

Project No. 17005-005348.04

Prepared for:

VERIZON WIRELESS
c/o Cades Schutte, LLP
1000 Bishop Street, Suite 1200
Honolulu, Hawaii 96813



For the benefit of business and people

Prepared by:

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- E Natural Resources Impacts, Regulatory Agency Correspondence
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List of Acronyms

| | |
|------------------|--|
| APE | Area of Potential Effects |
| bgs | below ground surface |
| BWS | Board of Water Supply |
| CAA | Clean Air Act |
| CDUA | Conservation District Use Area |
| CO | Carbon monoxide |
| CWA | Clean Water Act |
| DA | Department of the Army |
| dBa | Decibels |
| DEA | Design and Environmental Analysis |
| DLNR | Department of Land and Natural Resources |
| DOFAW | Division of Forestry and Wildlife |
| DOH | State of Hawaii, Department of Health |
| DPP | City and County of Honolulu, Department of Planning and Permitting |
| DPR | City and County of Honolulu, Department of Parks and Recreation |
| EA | Environmental Assessment |
| FCC | Federal Communications Commission |
| FEMA | Federal Emergency Management Agency |
| FIRM | Flood Insurance Rate Map |
| FONSI | Finding of No Significant Impact |
| FPC | First Presbyterian Church |
| GP | City and County of Honolulu, General Plan |
| H ₂ S | Hydrogen Sulfide |
| HAR | Hawaii Administrative Rules |
| HECO | Hawaiian Electric Company |
| HEER | Hazardous Evaluation and Emergency Response |
| HHF | Historic Hawaii Foundation |
| HPU | Hawaii Pacific University |
| HRS | Hawaii Revised Statutes |
| HSPA | Hawaii State Planning Act |
| NAAQS | National Ambient Air Quality Standards |
| NCRPM | Nation Council on Radiation Protection and Measurements |
| NEPA | National Environmental Policy Act |
| NMV | National Map Viewer |
| NO ₂ | Nitrogen dioxide |
| NPA | Nationwide Programmatic Agreement |
| MCBH | Marine Corps Base Hawaii |
| mg/L | Milligrams per liter |
| O ₃ | Ozone |
| OCCL | Office of Conservation and Coastal Lands |
| OHA | Office of Hawaiian Affairs |
| Pb | Lead |
| PM | Particular Matter |
| RF | Radio Frequency |
| SHPD | State Historic Preservation Division |
| SHPO | State Historic Preservation Officer |
| SO ₂ | Sulfur dioxide |
| T&E | Threatened and Endangered |



List of Acronyms (Continued)

| | |
|-------|---|
| TMK | Tax Map Key |
| USACE | United State Army Corps of Engineers |
| USCB | United States Census Bureau |
| USFWS | United States Fish and Wildlife Service |
| USGS | United States Geological Survey |
| VZW | Verizon Wireless |



Executive Summary

Purpose and Need

This Environmental Assessment (EA) for the proposed Verizon Wireless (VZW) HON Hawaiian Memorial Cell Site, to be located at Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road (Portion of Tax Map Key [TMK] Number: [1] 4-5-042: Parcel 001), Kaneohe, Oahu, Hawaii, has been prepared in accordance with the State of Hawaii, Department of Land and Natural Resources (DLNR)-Office of Conservation and Coastal Lands (OCCL), Conservation District Use Application (CDUA) requirements.

Proposed Action

According to VZW, the Proposed Action involves installing a new, 30-foot high self-supporting steel monopole to the northwest of the maintenance facility, and mounting twelve, 8-foot high panel antennas at the top. The finished height of the VZW antenna tips will be flush with the top of the proposed monopole. A 12- by 26-foot (312 square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600 square foot) fence enclosure (Lat/Long: 21° 22' 41.34" N and 157° 48' 01.58" W [NAD83]).

Construction activities that will disturb the ground surface in the vicinity of the proposed project site include: (1) excavating to install a new foundation for the monopole; (2) constructing a new foundation for the equipment cabinets and generator; and (3) erecting a chain-link fence enclosure.

Environmental Consequences

The Proposed Action is not expected to have significant adverse effects on the environment. The Proposed Action involves erecting a monopole in an area located along the central-northern fenceline of the subject parcel. Clearing, grading, and excavation activities required for the proposed project are limited to the immediate vicinity of the subject property. No significant impact to the land is anticipated since previous clearing was undergone in the area for construction of the golf course. Specific environmental resources with the potential for environmental consequences include natural physical and biological resources, noise, view and visual impacts, utilities, cultural resources, socioeconomics, environmental justice, air quality, public access, traffic impacts, land use, access to the area, and health and safety.

The Proposed Action is not expected to impact views and visual impacts, and will not impact natural physical and biological resources, cultural resources, utilities, public access, traffic impacts, land use, access to the area or health and safety. The Proposed Action is expected to have positive impacts on socioeconomics and environmental justice.

Noise levels are anticipated to slightly increase during construction. The emergency generator will increase noise levels during power outages and maintenance activities; however, any noise from the generator will be minimal, occur infrequently, and be used only in emergencies.

Air quality may decrease during construction due to a slight increase in particulate matter in the form of dust. However, due to the remote location and restricted access, public health will not likely be affected. Subsequent to construction, air quality levels are not expected to deviate from current baseline conditions since the cell site will not be equipped with devices that produce emissions.



1.0 INTRODUCTION

This Environmental Assessment (EA) for the proposed Verizon Wireless (VZW) HON Hawaiian Memorial Cell Site (VZW ID #2004005294), to be located at Ko'olau Golf Club Maintenance Facility (Portion of Tax Map Key [TMK] Number: [1] 4-5-042: Parcel 001), Kaneohe, Oahu, Hawaii 96744 (the "subject property"), has been prepared in accordance with the State of Hawaii, Department of Land and Natural Resources (DLNR), Office of Conservation and Coastal Lands (OCCL), Conservation District Use Application (CDUA) requirements.

The proposed cell site will be constructed for the purpose of benefiting the community at large with better cellular telephone reception. This EA was prepared and is being submitted in order to obtain the CDUA permit necessary to build the cell site.

For purposes of this assessment, the term "subject property" is specifically defined as the lease land area that encompasses the "Proposed Action," as defined in Section 3.1 of this report. The "subject parcel" is defined as the entire parcel of land, as identified by a county tax assessor, on which the subject property lies. This assessment was requested in association with leasing an area within the subject parcel where the Proposed Action will affect the subject property.

2.0 SUBJECT PROPERTY/PARCEL DESCRIPTION

2.1 SUBJECT PARCEL/PROPERTY LOCATION

The subject parcel encompasses an irregular-shaped, 219.815 acre parcel of land located at 45-550 Kionaole Road, in a rural, conservation and forest reserve setting, approximately ½-mile west/southwest of the Kionaole Road overpass that crosses the H-3 Freeway in Kaneohe, Oahu, Hawaii (Figures 1 and 2, *Figures tab*).

The subject parcel is further described by the City and County of Honolulu Real Property Tax Assessment Office as TMK Number: (1) 4-5-042: Parcel 001. According to the City and County of Honolulu, Department of Planning and Permitting, the subject parcel/property is located within an area designated as "*P-1, Restricted Preservation*," the State Land Use designation is "*Conservation District*," and it is located in a "*Special Management Area*."

The subject property, identified as the proposed VZW HON Hawaiian Memorial Cell Site (VZW ID #2004005294), comprises a 20- by 30-foot (600 square foot) lease area located along the central-northern fenceline of the subject parcel (Lat/Long: 21° 22' 41.34" N, 157° 48' 01.58" W [NAD83]).

The subject parcel/property lies in the Ko'olaupoko District of the County of Honolulu in the southeast-central coastal sector of the island of Oahu. According to the 1998 United States Geological Survey (USGS) Kaneohe, Hawaii 7.5-minute topographic quadrangle map, the subject property lies at an elevation of approximately 360 feet above mean sea level.



2.2 CURRENT USE OF SUBJECT PARCEL/PROPERTY

The subject parcel, owned by the First Presbyterian Church, is currently operated as the Ko'olau Golf Club, a "top 100" U.S. golf facility, rated as the most challenging golf course in the United States. Carved out of tropical rainforest on the windward side of the Ko'olau mountain range, the Ko'olau Golf Club encompasses three distinct climate zones and features winding ravines, extreme elevation changes, and scenic views of cascading waterfalls, lush tropical rainforests and beautiful ocean vistas.

The subject parcel contains the Ko'olau Clubhouse and associated facilities in the central portion, a maintenance facility on the central-northern border, and the golf course links in the surrounding areas. The golf course grounds are bordered to the north by the H-3 Freeway, to the south by the Ko'olau Mountain Range, to the east by Kionaole Road, and to the west by forest reserve lands bordering the Ko'olau Range.

The subject property, identified as the VZW HON Hawaiian Memorial cell site, comprises an approximately 20- by 30-foot (600 square foot) lease area located along the central-northern fenceline of the subject parcel, bordering the H-3 Freeway (Figures 1 and 2, *Figures* tab). At the time of Bureau Veritas' site visit on August 1, 2008, the subject property occupied an undeveloped clearing to the northwest of the maintenance facility, overlooking the embankment that forms the freeway setback. The ground cover of the proposed project site consisted of exposed soil bordered by dense, low-lying vegetation, bushes and trees to the north and west, and an asphalt-paved roadway to the south and east.

Based on observations during the site visit, the following information was ascertained:

- Hawaiian Electric Company (HECO) maintains a utility pole with three pole-mounted electrical transformers at the northeast corner of the maintenance facility.
- The City and County of Honolulu, Board of Water Supply (BWS) provides county water and sewer services to the subject parcel.

The planned short-term use for the subject parcel is continued operation as a Golf Club with development of the VZW HON Hawaiian Memorial Cell Site on the subject property.

3.0 PROPOSED ACTION

3.1 TECHNICAL CHARACTERISTICS

According to VZW, the Proposed Action involves installing a new 30-foot high self-supporting steel monopole northwest of the maintenance facility, and mounting twelve, 8-foot high panel antennas at the top. The finished height of the VZW antenna tips will be flush with the top of the proposed tower. A 12- by 26-foot (312 square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600 square foot) fenced enclosure (Lat/Long: 21° 22' 41.34" N, 157° 48' 01.58" W [NAD83]).

Construction activities that will disturb the ground surface in the vicinity of the proposed project site include: (1) excavating to install a new foundation for the monopole; (2) constructing a new foundation for the equipment cabinets and generator; and (3) erecting a chain-link fence enclosure.



3.2 ENVIRONMENTAL CHARACTERISTICS

The proposed cell site is located in an area previously developed with the current electrical power through power lines, a utility pole, and transformers. Utility lines will be strung overhead to provide power to the subject property. Clearing, grading, and excavation activities required for the proposed project are limited to the immediate vicinity of the subject property in the area where the proposed equipment shelter will be installed, and in the area of the proposed monopole. No significant impact to the land is anticipated because previous development of the area was conducted during construction of the existing golf course, and all native vegetation was removed.

3.3 SCHEDULE

The project is anticipated to proceed following a FONSI determination by the approving agency, DLNR-OCCL. Construction depends on the receipt of zoning and building permit approvals. Therefore, construction activities are not expected to begin until the early 2012.

3.4 IDENTIFICATION OF ALTERNATIVES

In determining a suitable location for construction of a telecommunications antenna site, several search criteria must be met. Various topographic features in the area must be evaluated, including but not limited to: elevation, terrain, and building obstruction. In addition, the antenna tower(s) can only be located in areas that are appropriately zoned by the local jurisdiction.

The purpose of the VZW HON Hawaiian Memorial Cell Site is to relay signals to a receiving antenna (i.e., personal cell phones) located horizontally outward at some distance. Therefore, the site selection is based on its ability to meet this purpose and the preference of the Radio Frequency team.

The Hawaiian Memorial area was considered the primary location for the VZW Cell Site based on the existing use of the parcel and the height of the location. The area is already flat and open, and easily accessible by Kionaole Road. Additionally, the site was chosen on its ability to blend in with the surrounding area and the availability of utilities. Alternative sites considered would create a greater visual impact.

In choosing a proposed action, several alternatives were evaluated. A nearby Hawaiian Electric substation was considered as a possible location, but the legal provisions to build there made it practically unfeasible. The City and County of Honolulu's Hoomaluhia Park was also considered for installation of a monopole; however, the City and County of Honolulu was not interested in leasing land for such an action, and coverage in that location would not have been optimal for VZW customers. A government-owned property at the entrance of the golf maintenance road was also considered as an option, but the low elevation of the site would have required a considerably taller tower to achieve optimal service. Lastly, the nursery area of the Ko'olau Golf Course was evaluated, but the owners thought that a location closer to the maintenance building would be more suitable.



4.0 PERMITS

Various federal, state, and local government agencies were contacted for information on permits required for the Proposed Action to move forward. Responses from agencies contacted concerning permits for this site are listed below.

- In a response letter dated March 9, 2006, the DLNR-OCCL provided the following information on the proposed project: *“The department notes there is one Conservation District Use Application (CDUA) on file. CDUA OA-1947 was approved by the Board of Land and Natural Resources on March 14, 1987, and was subject to 16 terms and conditions. Currently, the OCCL is processing CDUA OA-3253 for a proposed Consolidation and Subdivision action (Departmental Permit). The Department notes the installation of the proposed antenna and building is an identified land use under Chapter 13-5, Hawaii Administrative Rules (HAR), Section 13-5-22, identified land uses in the Protective subzone, P-6, PUBLIC PURPOSE USES, D-1, “transportation systems, transmission facilities for public utilities, water systems, energy generation facilities utilizing renewable resources for the area (e.g. hydroelectric or wind farms) and communications systems and other such land uses which are undertaken by non-governmental entities which benefit the public and are consistent with the purpose of the Conservation District.” This requires Board Permit. The OCCL notes the following should be submitted with the CDUA: 1) a letter from the landowner regarding their approval for the proposed project; 2) a letter from the Kaneohe Neighborhood Board regarding comments and/or concerns on the proposed project. Lastly, the OCCL notes there is an ongoing enforcement case that needs to be resolved through the Board of Land and Natural Resources (Board). Until the enforcement case is resolved, no CDUA can be processed, pursuant to Hawaii Administrative Rules (HAR), Section 13-5-31 (e), PERMIT APPLICATIONS, “no permit applications shall be processed by the department until any violations pending against the subject parcel are resolved.” A copy of correspondence from the DLNR-OCCL is located in Appendix B.*

In an email dated September 17, 2007 the property owner, First Presbyterian Church, did not indicate any concerns with the proposed action. Also, according to the minutes from the October 19, 2006 Kaneohe Neighborhood Board meeting, the Board is not taking a position on the proposed action, but written comments would be taken. As of the date of this report, Bureau Veritas has not received any comments on this matter. Correspondence from the First Presbyterian Church and minutes from the Kaneohe Neighborhood board meeting can be found in Appendix C, Sections 2 and 1, respectively.

On December 2, 2011, Bureau Veritas spoke with Mr. Michael Cain, Planner with DLNR-OCCL, regarding any enforcement actions or violations filed against the subject parcel. According to Mr. Cain, he is unaware of any enforcement action or violation against the subject parcel and, therefore, permit applications may be processed.

- In a response letter dated July 8, 2005, the United States Army Corps of Engineers (USACE) provided the following comment: *“Based on the information provided and pursuant to Section 10 of the Rivers and Harbors Act (RHA) and Section 404 of the Clean Water Act (CWA), I have determined that there are no waters of the U.S. including wetlands and no proposed placement or discharge of dredged and/or fill material into waters of the U.S. (33 U.S.C. 1344) by these antenna sites and therefore a Department of the Army (DA) permit will not be required. This does not relieve you from obtaining authorizations from the State of Hawaii, or the counties of Honolulu and Maui.”* A copy of correspondence from the USACE is located in Appendix E, Section 3.



In addition, various local government agencies were contacted by the DLNR- OCCL for comments on the CDUA for the proposed VZW cell site.

- Response letters were received from: (1) DLNR-Land Division, (2) DLNR-DOH, Environmental Planning Office, and (3) OHA.

None of these agencies had any comments or objections to the CDUA. Copies of correspondence letters from these agencies are provided in Appendix B.

- A DLNR-OCCL letter stating that the comment period for the CDUA has been closed is provided in Appendix B.

5.0 COMMUNITY CONSULTATION AND NEIGHBORING PROPERTY OWNER CONSULTATION

Bureau Veritas submitted information regarding the Proposed Action to the Honolulu Star Bulletin and requested that a Legal Notice be posted to provide notification of the proposed project to the general public. A Legal Notice describing the Proposed Action was published in the Honolulu Star Bulletin daily newspaper on February 8, 2006. As of the date of this report, Bureau Veritas has not received any responses to the published notice. The Proposed Action has not been a source of controversy in the local community. Documentation of the public notice is presented in Appendix C, Section 1.

The proposed VZW HON Hawaiian Memorial Cell Site was presented to the Kaneohe Neighborhood Board during an October 19, 2006 meeting. The board took no position on the matter, but indicated that written comments on the subject would be accepted. As of the date of this report, no comments have been received by Bureau Veritas. A copy of the minutes from the meeting is included as Appendix C, Section 1.

Bureau Veritas queried local special interest groups about any questions or concerns they may have related to the Proposed Action. On May 3, 2007 and August 6, 2007, Bureau Veritas sent notices to the Sierra Club, Hawaii Chapter, Nature Conservancy, Hawaii's Thousand Friends, and Outdoor Circle. As of the date of this report, no responses have been received from any of these organizations. Copies of correspondence to these organizations are included in Appendix C, Section 3.

The following table contains owner, zoning, and state land use designations for the surrounding parcels.

| Tax Map Key Number | Parcel Owner | Direction from Subject Parcel | Zoning | State Land Use Designation |
|---------------------------|-----------------------------|--------------------------------------|---|-----------------------------------|
| 4-5-042: Parcel 007 | Hawaiian Electric Company | North | P-1 Restricted Preservation | Conservation District |
| 4-5-042: Parcel 012 | City and County of Honolulu | North | P-1 Restricted Preservation | Conservation District |
| 4-5-035: Parcel 010 | Hawaii Pacific University | Northeast | P-1 Restricted Preservation | Conservation District |
| 4-5-042: Parcel 011 | State of Hawaii | Northeast | P-1 Restricted Preservation/ P-2 General Preservation | Conservation District |



| Tax Map Key Number | Parcel Owner | Direction from Subject Parcel | Zoning | State Land Use Designation |
|---------------------|-----------------------------|-------------------------------|-----------------------------|----------------------------|
| 4-5-035: Parcel 001 | City and County of Honolulu | East-Northeast | P-1 Restricted Preservation | Conservation District |
| 4-5-042: Parcel 006 | First Presbyterian Church | South and West | P-1 Restricted Preservation | Conservation District |

The owners of the neighboring properties listed in the table above were contacted for consultation concerning any potential environmental, historical, or cultural impacts the proposed wireless telecommunications facility may have on immediate or directly adjacent properties. The following comments were received:

- In a response to an email dated September 21, 2007, Hawaii Pacific University (HPU) stated, *“After reviewing the Bureau Veritas letter, dated September 14, 2007, concerning the proposed Verizon Wireless Hawaiian Memorial Cell Site, Hawaii Pacific University, determines that the project will not have any impact at the windward Hawaii Loa Campus. Please let me know if you require additional information.”* A copy of correspondence from HPU is presented in Appendix C, Section 2.
- In a response email dated September 17, 2007, the First Presbyterian Church (FPC) stated, *“First Presbyterian Church of Honolulu is in receipt of your Project No. 17005-005348.00 Report dated Sept. 14, 2007, received in today’s mail, Monday, Sept. 17, 2007. Ron Mathieu, Executive Director, is away in Europe until October 2, 2007. I will call this matter to his attention upon his return.”* No additional comments were received. A copy of correspondence from FPC is presented in Appendix C, Section 2.

Second notices were sent out on December 14, 2007 to those neighboring properties that did not respond to Bureau Veritas’ inquiry. The following comments were received:

- In a response letter dated December 28, 2007, the City and County of Honolulu, Department of Parks and Recreation (DPR) stated, *“Thank you for the neighboring landowner consultation regarding the proposed Verizon Wireless HON Hawaiian Memorial Cell Site located at Ko’olau Golf Club. The Department of Parks and Recreation has no concerns or comments on the construction of the proposed cell site and as the proposed improvements will not impact any program or facility of the department, you are invited to remove us as a consulted party to the balance of the EIS process. Should you have any questions, please contact Mr. John Reid, Planner, at 768-3017.”* A copy of correspondence from DPR is presented in Appendix C, Section 2.
- In a response letter dated January 30, 2008, HECO stated, *“Your inquiry was forwarded for review by various departments of Hawaiian Electric Company, Inc. and was recently completed. We apologize for the lateness of our response. The following comments were received from our Engineering and Construction & Maintenance Departments:*
 - (1) *Engineering/Project Management (Kerstan Wong, 543-7059). If HECO’s existing facilities in the project area require relocation and/or new facilities need to be built to serve this project, please include a brief description and environmental analysis of such requirements.*



- (2) *Construction & Maintenance (Paul Nakagawa, 543-7062). HECO will require continued access to our existing facilities within the subject property for operation and maintenance purposes, as covered by existing easements. Should any relocation or addition of facilities become necessary, additional easements may need to be negotiated.*

“Thank you for your inquiry and your efforts to keep us apprised. As the project plans progress, please continue to keep us informed. We will be better able to evaluate any effects on our system facilities further along in the project’s development. We request that development plans show all affected HECO facilities and address any conflicts between the proposed plans and HECO’s existing facilities. Please forward the pre-final development plans to HECO for review.

“Should it become necessary to relocate HECO’s facilities, appropriate and timely coordination should be conducted through HECO’s Engineering Department. Please submit a request in writing and we will work with you so that construction of the project may proceed as smoothly as possible. A brief description and environmental analysis of any requirements for relocation or new facilities should be included in the DEA. Please note that there may be costs associated with any relocation or addition of facilities, including negotiation of easements that may be required as a result, and that such costs may be borne by the requestor. Because any redesign or relocation of HECO’s facilities may cause lengthy delays, upon determination that HECO facilities will need to be relocated or built, HECO should be notified immediately in order to minimize any delays in or impacts on the project schedule.” The proposed action will not involve the relocation or redesign of HECO facilities. Therefore, the proposed action will not affect any HECO facilities.

A copy of correspondence from HECO is presented in Appendix C, Section 2.

6.0 AFFECTED ENVIRONMENT

6.1 NATURAL RESOURCES – PHYSICAL RESOURCES

Discussions of physical resources of the natural environment include descriptions of earth and water resources, as well as hazardous materials. Components of the earth include topography, geology, and soil. Topography describes the earth’s surface features, including terrain and land forms. Geology studies the solid matter from which the earth is made and includes the history and processes that helped to shape it. Soil is the segment of the earth’s surface particulates formed from a parent material when various environmental conditions cause the breakdown of that material. Water resources include surface water and groundwater.

6.1.1 Earth Resources

6.1.1.1 Baseline Conditions

The subject parcel/property lies in the Ko’olaupoko District of the County of Honolulu in the southeast-central coastal sector of the island of Oahu. The approximate latitude and longitude of the subject parcel/property are 21° 22’ 41.34” N and 157°48’ 01.58” W (NAD83), respectively. According to the 1998 USGS Kaneohe, Hawaii 7.5-minute topographic quadrangle map, the subject property lies at an elevation of approximately 360 feet above mean sea level. The general topographic gradient of the region slopes down gradually from the west to east, from the Ko’olau Mountain Range to Kaneohe Bay (USGS Kaneohe 1998). The topography of the subject property and adjoining land has been graded relatively flat and level.



According to the Soil Survey of Islands of Kauai, Oahu, Maui, Molokai and Lanai (Foote, D.E. et al., 1972), the soil in the vicinity of the subject property consists of Lolekaa Series silty clay with 3 to 8 percent slopes (mapping unit *LoB*). The Lolekaa series consists of well drained, gently sloping to very steep soils on fans and terraces on the windward side of the island of Oahu that developed in old, gravelly colluvium and alluvium.

In a representative profile, the surface layer is dark brown silty clay about 10 inches thick. The subsoil is 46 to more than 70 inches thick. The upper part is dark brown silty clay and the lower part is dark yellowish-brown loam, both of which have subangular blocky structure. The substratum is strongly weathered gravel. The soil is strongly acidic in the surface layer and strongly acidic to extremely acidic in the subsoil. Permeability is moderately rapid, runoff is slow, and the erosion hazard is slight.

6.1.1.2 Proposed Action Impacts and Mitigation

Bureau Veritas reviewed client-supplied materials regarding the Proposed Action at the subject parcel/property and the potential for the Proposed Action to significantly change the earth resources (*e.g.*, wetland fill, deforestation, or water diversion). According to the design information provided to Bureau Veritas, the Proposed Action will involve ground surface disturbance in the immediate vicinity of the subject property. However, construction activities will not involve any significant disturbance to the ground. Since impacts to this resource are minimal, no mitigation measures are necessary.

6.1.2 Water Resources

6.1.2.1 Baseline Conditions

Bureau Veritas reviewed the Aquifer Identification and Classification Technical Report No. 179, published by the Water Resources Research Center at the University of Hawaii, for information on groundwater conditions below the subject property. The report describes the aquifer below the subject property as part of the Ko'olaupoko aquifer system of the Windward aquifer sector on the island of Oahu.

The aquifer is described as an unconfined high-level aquifer of the dike type, occurring in dike compartments. It is a fresh (<250 milligrams per liter [mg/L] Chloride) drinking water source that is currently used and is considered irreplaceable, as well as highly vulnerable to contamination.

The depth to first groundwater beneath the subject property is estimated to be approximately 350 feet below ground surface (bgs) (USGS, Kaneohe, 1998). The direction of groundwater flow is anticipated to follow surface topography and flow in a northeasterly direction towards Kaneohe Bay (USGS, Kaneohe, 1998). However, topography is not always a reliable basis for predicting groundwater flow direction. The local gradient under the subject property may be influenced naturally by zones of higher or lower permeability, or artificially by nearby pumping or recharge, and may deviate from the regional trend.

6.1.2.2 Proposed Action Impacts and Mitigation

Due to the depth of the groundwater, there will be no contact with groundwater during the proposed construction activities. There are no surface waters in the vicinity of the subject property. Therefore, mitigation measures are not necessary.



6.1.3 Hazardous Substances

6.1.3.1 Baseline Conditions

Bureau Veritas performed a database review of the DOH, Hazard Evaluation and Emergency Response (HEER) Office records regarding environmental concerns or violations at the subject property. The subject property was not listed in the HEER database.

6.1.3.2 Proposed Action Impacts and Mitigation

The subject property was assessed for signs of storage, use, or disposal of hazardous materials. The assessment consisted of noting evidence (e.g., drums, unusual vegetation patterns, staining) indicating that hazardous materials are currently or were previously located on the subject property.

At the time of the site inspection walkthrough, potentially hazardous materials were not used or stored at the subject property (proposed project site). No observations were made that indicated potential historical use of hazardous materials at the subject property.

However, the maintenance facility, located approximately 75 to 100 feet southeast of the subject property (proposed project site), typically utilizes petroleum products to lubricate equipment and also uses a solvent parts washer during maintenance activities on various course equipment, including golf carts, mowers and other related machinery. Moreover, the facility utilizes two underground storage tanks that contain gasoline and diesel fuel.

Hazardous materials are not used on the subject property and the maintenance facility is located at a significant distance from the subject property; therefore, hazardous materials will not have an impact on the subject property. Also, the Proposed Action will not involve the use or creation of hazardous substances during the construction or the operation phases. Since no impacts are anticipated, no mitigation measures are necessary.

6.2 NATURAL RESOURCES – BIOLOGICAL RESOURCES

Biological resources of the natural environment include wild plants and animals, both native and alien, which may be affected by the Proposed Action. These species live in an ecological community, or specific habitat, and interact with each other within that community. Ecological communities may include wetlands, oceans, shorelines, mountains, etc. Many laws, including the National Environmental Policy Act (NEPA), were passed to protect these ecological communities from potentially harmful development.

6.2.1 Wetlands

6.2.1.1 Baseline Conditions

The subject property was inspected for the presence of sensitive ecological areas by noting environmental indicators (e.g., wetlands vegetation, floodplains) located on or immediately adjoining the subject property. No sensitive ecological areas were observed on the subject parcel.

Bureau Veritas reviewed the following sources for information regarding wetlands in the vicinity of subject parcel/property, including: (1) available wetlands delineation maps published by the National Wetlands Inventory at the website <http://www.fws.gov/nwi/>, as cited in the 1987 Final Version of the Corps of Engineers Wetlands Delineation Manual; (2) the USGS National Map Viewer (NMV) online database at



<http://nmviewogc.cr.usgs.gov/viewer.htm>; and (3) the 1998 USGS 7.5-Minute Series, Kaneohe, Hawaii Topographic Quadrangle Map, which includes the subject and adjoining properties.

The United States Fish and Wildlife Service (USFWS) National Wetland Map of the area was reviewed at the website, www.fws.gov/. According to the website, the subject property is located within approximately 355 feet of a freshwater forested/shrub wetland.

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) was reviewed to determine if the subject parcel/property is located in a flood hazard area. The subject parcel is located in Zone D, which denotes areas in which flood hazards are undetermined (FEMA/FIRM Map No. 150003C-0270G, revised June 2, 2005).

The USGS 7.5-Minute Topographic Maps (Kaneohe, Oahu, Hawaii, 1968, 1983 & 1998), which includes the subject and adjoining properties, depicted a perennial stream identified as “*Hooleinaiwa Stream*” located approximately 400 feet to the west of the proposed project site.

Bureau Veritas contacted the USACE - Honolulu District Office regarding wetland permitting on the subject property. According to Mr. George Young of the USACE - Honolulu District Office, a Department of the Army permit is not required for the subject property. A copy of the correspondence from the USACE is presented in Appendix E, Section 3.

6.2.1.2 Proposed Action Impacts and Mitigation

According to the baseline conditions described in the previous section, the subject property is not located in a designated wetland; therefore, the Proposed Action will not have an impact on wetlands, flooding, or flood hazards. The proposed action is located within approximately 355-feet of a wetland; however, due to the nature of the project and the fact that no hazardous materials will be released from the site, the proposed action is not expected to affect this wetland. No mitigation measures are being taken since there will be no impact to this resource.

6.2.2 Wilderness Area (47 CFR § 1.1307 [A] [1])

6.2.2.1 Baseline Conditions

The subject parcel includes an existing golf club and associated maintenance facility. Previous grubbing and grading activities removed most native vegetation in the area of the proposed cell site. The subject property consists of an undeveloped clearing adjacent to an embankment located northwest of the maintenance facility.

Bureau Veritas also reviewed <http://www.wilderness.net>, the National Wilderness Preservation System website for information on whether the proposed project site is located within an officially designated wilderness area. According to this website, four federal agencies (the National Park Service, Forest Service, Fish and Wildlife Service, and Bureau of Land Management) manage a total of 756 designated wilderness areas in the US. Two of these Wilderness areas are located in the state of Hawaii, including Hawaii Volcanoes National Park on the island of Hawaii and Haleakala National Park on the island of Maui. Neither area encompasses the subject parcel/property.

6.2.2.2 Proposed Action Impacts and Mitigation

According to the baseline conditions, the project is not located in a wilderness area. Therefore, there will be no impacts and no mitigation measures necessary.



6.2.3 Wildlife Preserve (47 CFR § 1.1307 [A] [2])

6.2.3.1 Baseline Conditions

Bureau Veritas reviewed the website <http://www.fws.gov/refuges/refugeLocatorMaps/Hawaii.html>, maintained by USFWS, for information on whether the proposed project site is located within a designated wildlife preserve. According to this website, there are a total of nine wildlife preserves located within the Hawaiian Islands, including:

1. Hakalau Forest National Wildlife Refuge
2. Hanalei National Wildlife Refuge
3. Huleia National Wildlife Refuge
4. James Campbell National Wildlife Refuge
5. Kakahaia National Wildlife Refuge
6. Kilauea Point National Wildlife Refuge
7. Kealia Pond National Wildlife Refuge
8. Oahu Forest National Wildlife Refuge
9. Pearl Harbor National Wildlife Refuge

None of the nine listed wildlife preserves identified encompasses the subject parcel/property.

6.2.3.2 Proposed Action Impacts and Mitigation

According to the baseline conditions, the project is not located in a wildlife refuge. Therefore, there will be no impacts and no mitigation measures related to this resource.

6.2.4 Listed or Proposed Threatened or Endangered Species and Designated or Proposed Critical Habitats (47 CFR § 1.1307 [A] [3])

6.2.4.1 Baseline Conditions

Bureau Veritas reviewed the USFWS, Honolulu Branch Pacific Islands Endangered Species Index at their website (<http://www.fws.gov/pacificislands/wesa/endspindex.html>) to assess the potential for designated or proposed critical habitats and proposed endangered, endangered, or threatened species to be affected by the proposed action. No critical habitats and proposed endangered, endangered, or threatened species were identified in this review.

Bureau Veritas also contacted the USFWS, Honolulu Office and DLNR- Division of Forestry and Wildlife (DOFAW), Hawaii District Office regarding the presence of listed or proposed threatened or endangered species and designated or proposed critical habitats on the subject property.

The USFWS provided the following comment on the proposed project in a response letter dated November 1, 2005:

- *"We reviewed the information you provided and pertinent information in our files, including data compiled by the Hawaii Natural Heritage Program. To the best of our knowledge, no federally listed or proposed species, or proposed of designated critical habitat, occur on the proposed*



project site. We appreciate the opportunity to provide comments on the proposed project. If you have questions regarding these comments, please contact Fish and Wildlife Biologist Elizabeth Sharpe by telephone at (808) 792-9400.”

The DLNR-DOFAW Oahu District Office provided comment regarding inquiries to its office pertaining to proposed telecommunications projects in a “boiler-plate” response letter dated January 27, 2005, as follows:

- *“We have received proposal(s) for telecommunications antenna cell site(s) as part of your environmental screening review(s). Based on map(s) provided from your office, the project location(s) fall(s) within the highly urbanized settings and pose little threat to protected species that we are aware of. You are, however, urged to consult with other regulatory agencies at the federal, state and local levels to ensure that all aspects of the NEOZ process have been addressed. Our response alone does not constitute final approving authority for your project.*

“The following information is provided to expedite your review of probable environmental impact to wildlife and animals, i.e. plants & animals. Our agency manages a full range of forest reserves, natural area reserves public hunting/game management areas, seabird sanctuaries, and wetland habitats on Oahu. Additionally, we oversee a number of threatened and endangered species which can be found throughout the island, mainly in rural and wildland settings. Maps of these locations are available for review at our office as mailing them to our numerous clients can be an expensive and difficult task.

“In regards to listings for the Threatened and Endangered (T&E) Species, Designation of their Critical Habitats, etc., we urge that you consult with one of the U.S. Fish & Wildlife Service as they are currently engaged in the legal process for such designation. You may also consult with their web page for information on listings (current and proposed).”

Based upon the inquiries, responses, and evaluations noted in this Section, the proposed action will not affect listed or proposed threatened or endangered species and is not located in a designated or proposed critical habitat. Copies of correspondence from the USFWS, Honolulu Office and DLNR-DOFAW, Oahu District Office can be found in Appendix E, Section 2.

6.2.4.2 Proposed Action Impacts and Mitigation

According to the baseline conditions, the project will not affect critical habitats or listed or proposed threatened or endangered species. Therefore, there will be no impacts and no mitigation measures related to these resources.

6.3 NOISE

Noise is generally regarded as unwelcome sound that can distract from normal activities. The negative impacts of noise on the environment are collectively known as noise pollution. Noise pollution is usually generated from cars, aircrafts, humans, animals, and industrial sites. Areas with an excess of noise pollution are generally caused by poor planning. NEPA regulations indicate that projects should be analyzed for potential noise pollution so that good planning and mitigation takes place before they are implemented.

Depending on the level and duration of the noise pollution, it may have a harmful effect on human health. Minor levels of noise pollution can cause agitation or annoyance, while significant levels may cause hearing loss. The State of Hawaii, Department of Health (DOH) under Title 11, Chapter 46 of the Hawaii Administrative Rules sets the maximum permissible sound level for a Class A zone, which includes



“preservation” zones at 55 decibels (dBa) for daytime (7 am to 10 pm) and 45 dBa for nighttime (10 pm to 7 am). This standard does not apply to emergency generators. If noise is to be emitted above the permissible sounds level, then a permit must be obtained prior to the related activities.

6.3.1 Baseline Conditions

The Ko’olau Golf Club is subject to small amounts of noise due to maintenance and nearby road activity. Activities that produce noise include mowing, landscaping, and traffic from the nearby highway.

6.3.2 Proposed Action Impacts and Mitigation

The proposed cell site is located northwest of the maintenance facility. The site will include an emergency backup generator. The Proposed Action will create a minimal increase in noise levels due to the emergency backup generator, which will only run in the event of a power outage and for short test periods as a regular maintenance activity. However, the impact should be minimal the proposed cell site will be located in the back area of the golf course, situated away from any residential areas.

During construction and installation activities, noise levels might increase slightly. If the noise levels are to be above the standards stipulated in Title 11, Chapter 46 of the Hawaii Administrative Rules, then a permit will be acquired. Subsequent to construction activities, the proposed action will not have a significant impact on noise levels since the generator will run only during a power outage and for short periods as a regular maintenance activity. The emergency generator will be enclosed in the equipment shelter, which will help to reduce the noise levels. Emergency generators are exempt from the maximum permissible sounds levels under Title 11, Chapter 46 of the Hawaii Administrative Rules.

6.4 VIEW AND VISUAL IMPACTS

6.4.1 Baseline Conditions

The Proposed Action will be located in the rear portion of the golf course, away from residential areas. Therefore, there should not be a significant impact to the views in the area. Photographs of the subject site are included behind the *Photos* tab.

6.4.2 Proposed Action Impacts and Mitigation

The Proposed Action is located in the rear of the existing golf course. Views of this site are only visible from the golf course grounds and Interstate H-3; therefore, the proposed project site does not affect scenic vistas and view planes and will not create a significant visual impact. Also, the monopole would be comparable in height to the surrounding trees and power line poles.

6.5 UTILITIES

6.5.1 Baseline Conditions

Water and sewer services are provided by the BWS. Electricity is provided directly to the subject property by HECO.

6.5.2 Proposed Action Impacts and Mitigation

The Proposed Action will use existing utility services provided directly to the subject parcel. The utilities will be connected to the proposed cell site via overhead lines. The effects of the proposed action on utilities will be mitigated by the fact that the monopole will be comparable in height to the utility poles.



6.6 CULTURAL RESOURCES

Cultural resources include districts, sites, buildings, structures, or objects significant in Hawaiian and American history, architecture, archeology, engineering, or culture that are listed, or are eligible for listing, in the National and/or State Register of Historic Places, which may be impacted by the Proposed Action's Area of Potential Effects (APE) for direct or visual effects.

The APE for direct effects is defined by the Nationwide Programmatic Agreement (NPA) as *"the area of potential ground disturbance and any property, or any portion thereof, that will be physically altered or destroyed"* by the Proposed Action. The APE for visual effects is defined by the NPA as *"the geographic area, in which the (Proposed Action) has the potential to introduce visual elements that diminish or alter the setting, including the landscape, where the setting is a character-defining feature of a Historic Property that makes it eligible for listing in the National Register."* In the case of the subject property, the APE for visual effects is 0.5 mile from the Proposed Action.

6.6.1 Baseline Conditions

According to a historic properties assessment of the proposed cell site, conducted by T.S. Dye & Colleagues, Archaeologists, Inc., the proposed cell site is located within the Kāne'ohe lands awarded to Queen Kalama, wife of Kamehameha III during the Great Mahele of 1848. In 1867, the Queen and C.C. Harris established the Kaneohe Plantation to raise sugarcane. However, due to the irregular topography, it is not likely that the subject parcel was used for sugarcane production. The area was used for animal pastures and cattle raising around 1890. The general vicinity of the project area was used for pineapple cultivation, cattle grazing and truck farming during the early to mid 1900s. In 1974, the property was transferred to the estate of Iolani School, and in 1998, the parcel was bought by Ko'olau Golf Partners, LLC.

Several historical archeological assessments have been conducted in the general area, including archaeological monitoring and data recovery investigations during the development of the golf course. Several sites have been identified in the vicinity of the proposed cell site, but none of them are located within the project area. Additionally, there are no historic properties listed on the State or National Register of Historic Properties within 0.5 miles of the proposed VZW project site. A copy of T.S. Dye's Historic Properties Assessment Report is included in Appendix F.

6.6.2 Proposed Action Impacts and Mitigation

In accordance with the *NPA for Review of Effects on Historic Properties for Certain Undertakings Approved by the FCC*, which was adopted by the Federal Communications Commission (FCC) on March 7, 2005, Bureau Veritas submitted the New Tower Submission Packet (FCC Form 620) to the DLNR-State Historic Preservation Division (SHPD) for review by the State Historic Preservation Officer (SHPO) on January 10, 2006.

Consultation with the SHPO was initiated for their review of potential impacts to districts, sites, buildings, structures or objects, significant in Hawaiian and American history, architecture, archeology, engineering or culture, that are listed, or are eligible for listing, in the National and/or State Register of Historic Places, which may be impacted by the proposed action's APE for direct or visual effects.

Bureau Veritas subcontracted T.S. Dye & Colleagues, Archaeologists, Inc. to conduct a historic properties assessment of the Proposed HON Hawaiian Memorial Cell Site. According to the assessment, dated October 4, 2007, there are no historic properties within the APE for direct or visual effects. A copy of the T.S. Dye report is presented in Appendix F.



In a response letter (Log No: 2006.0072/Doc No: 0601ST02) dated January 11, 2006, the SHPO indicated that no historic properties or architectural concerns will be affected by this project. A copy of correspondence from the SHPO is presented in Appendix D, Section 1.

Bureau Veritas contacted the DLNR-SHPD; Office of Hawaiian Affairs (OHA); City and County of Honolulu, Department of Planning and Permitting (DPP); Historic Hawaii Foundation (HHF); and the native Hawaiian group "Hui Malama," regarding districts, sites, buildings, structures, or objects significant in Hawaiian history, architecture, archeology, engineering, or culture that are listed, or are eligible for listing, in the National Register of Historic Places and may be located on the subject parcel/property. Responses from these agencies are as follows:

- The DLNR-SHPD provided comment on the proposed project in a response letter dated January 24, 2006, as follows: *"We believe that no historic properties will be affected by this undertaking because: (c) previous grubbing/grading has altered the land; (d) an acceptable archaeological assessment or inventory survey found no historic properties; (f) other: previous inventory survey (Shun et al 1987, SHPD Report No. O-388) and other in-depth studies of the current project area (e.g., Meeker 1995, SHPD Report No. O-1416)"* In the event that historic resources, including human remains, are identified, all work needs to cease in the immediate vicinity; the find needs to be protected from additional disturbance; and, the State Historic Preservation Division, Oahu Section, needs to be contacted immediately at (808) 692-8015." A copy of correspondence from the SHPO is located in Appendix D, Section 1.
- In a response letter dated July 12, 2005, the OHA Oahu District Office provided the following comment on the proposed project: *"The Office of Hawaiian Affairs (OHA) is in receipt of your June 27, 2005 request for comment on the above listed project, TMK Number: (1) 4-5-42: Parcel 1. OHA offers the following comments: OHA has no comments concerning the proposed project at this time. OHA further requests your assurances that if the project goes forward, should iwi or Native Hawaiian cultural or traditional deposits be found during ground disturbance, work will cease, and the appropriate agencies will be contacted pursuant to applicable law. Thank you for the opportunity to comment. If you have any questions or concerns, please contact Mr. Jesse Yorck at (808) 594-0239."* A copy of correspondence from OHA is located in Appendix D, Section 2.
- In a response letter dated January 25, 2006, the DPP provided the following comment on the proposed project: *"Please note that in the State of Hawaii, its historic preservation program was established within the State Department of Land and Natural Resources (DLNR), Historic Preservation Division (SHPD), pursuant to Chapter 6E, Hawaii Revised Statutes (HRS). Therefore, we recommend that you contact SHPD for information concerning the potential impacts of this proposal on historical and/or cultural resources. Similarly, because the site is located within the State Land Use Conservation District, which is also administered by the Department of Land and Natural Resources (DLNR) and not within the land use jurisdiction of the City and County of Honolulu, we suggest that you contact the DLNR regarding comments on the proposed telecommunications antenna."* A copy of correspondence from the DPP is presented in Appendix E, Section 1.
- As of the date of this report, Bureau Veritas has not received responses from the HHF or Hui Malama. However, these groups typically do not respond to such inquiries. Copies of letters sent to these organizations are included in Appendix D, Section 2.

Based on clearance from the SHPO, dated January 24, 2006, the proposed project will not affect historic places. However, in the case that cultural resources are found during construction activities, effects will



be mitigated by ceasing work and notifying the DLNR-SHPD must be notified. Therefore, should historic resources, including human skeletal remains, be identified during construction activities associated with the proposed action, all work will cease in the immediate vicinity of the find until additional consultation with the DLNR-SHPD is conducted and appropriate evaluation of the resources has been completed.

6.7 SOCIO-ECONOMICS

Socioeconomics describes the link between economic activity and social life, where one has an effect on the other. Many things can affect socioeconomic activities such as new technology, a change in the environment, and development. Effects of economics on social life can include redistribution of wealth and an alteration in quality of life.

6.7.1 Baseline Conditions

According to the United States Census Bureau (USCB) website, the town of Kaneohe (zip code 96744) had a population of 54,415 during the 2000 census. Approximately 70.5% of homes were owner-occupied, the per capita income was \$24,520, and 5.3% of individuals were living below the poverty line.

6.7.2 Proposed Action Impacts and Mitigation

The proposed project will benefit the community at large by providing adequate telecommunications coverage and service to customers within and passing through the general surrounding area. Under the proposed action, people in the Kaneohe area will be able to communicate better with others when using their VZW cell phones.

6.8 ENVIRONMENTAL JUSTICE

Environmental justice is a movement that defines the environment as “where people live and work.” The movement seeks to balance the burden that is borne by minorities, women, the poor, and those who are generally discriminated against by redistributing these burdens (such as industrial developments that pollute the area) out of a select group of neighborhoods and making various goods more accessible.

6.8.1 Baseline Conditions

The USCB website has estimated percentages of people with various backgrounds residing in Kaneohe (zip code 96744) from the 2000 Census. According to the website, in 2000 the population of this area was approximately 79.3% minority (non-Caucasian) and 3.8% of families and 5.3% of individuals were living below the poverty line.

6.8.2 Proposed Action Impacts and Mitigation

The Proposed Action would provide no environmental burden to minorities, women, or the poor since the previous sections have demonstrated that there will be no major adverse consequence resulting from the proposed action. The proposed action will, in fact, have a positive impact on environmental justice because all people with VZW phones will benefit from increased cell phone reliance in the Kaneohe area. Since there are no adverse environmental justice impacts, then mitigation is not necessary.

6.9 AIR QUALITY

The US Congress passed the Clean Air Act (CAA) in 1963 to reduce air pollution and regulate emissions. Several amendments have been passed since its inception that stipulates specific emission regulations according to industry. The CAA mainly focuses on the following points: clearing the air of commonly



found pollutants; regulating automobile emissions; regulating interstate and international air pollution; cleaning the air in national parks; reducing acid rain and toxic pollutants; protecting the ozone layer; enforcing permits; and providing a pathway for public participation. Various states, including Hawaii, have since developed their own set of air quality standards that must, at a minimum, match those of the CAA.

6.9.1 Baseline Conditions

The DOH, Clean Air Branch has seven air monitoring stations set up on the island of Hawaii. These stations monitor for levels sulfur dioxide (SO₂) and hydrogen sulfide (H₂S), as stipulated in the National Ambient Air Quality Standards (NAAQS) set by the EPA. The State of Hawaii has stricter standards for carbon monoxide (CO) and nitrogen dioxide (NO₂) than are set by the NAAQS, and also requires levels of H₂S to be regulated. According to the “Annual Summary 2007 Hawaii Air Quality Data”, none of the monitoring stations reported concentrations above Hawaii standards for any of the materials monitored. The Hawaii standards for these substances are listed in the following table.

| Pollutant | CO | NO ₂ | SO ₂ | Pb | O ₃ | PM ₁₀ | PM _{2.5} | H ₂ S |
|------------------------------------|------------------|-----------------|-----------------------------|-----------|----------------|-------------------|-------------------|------------------|
| Averaging Time | 1-hour 8-hour | Annual | 3-hour 24-hour Annual | Quarterly | 8-hour | 24-hour Annual | 24-hour Annual | 1-hour |
| Standard (µg/m³) | 10,000 5,000 | 70 | 1,300 365 80 | 1.5 | 150 | 150 50 | 35 15 | 35 |

Notes:

Source: DOH, Clean Air Branch Website

Pb: Lead

O₃: Ozone

PM: Particulate matter

6.9.2 Proposed Action Impacts and Mitigation

The cell site will not be equipped with any devices that would release emissions once construction is complete. During construction, there will be an increase in the amount of airborne particulate matter in the form of dust; however, workers will adhere to applicable regulations to reduce dust resulting from normal construction activities.

6.10 PUBLIC ACCESS

Hawaii is known for its beautiful shoreline and mountain areas. These resources are important to both the Hawaiian culture and the tourism industry, so it is important to maintain easy public access to these areas.

6.10.1 Baseline Conditions

The project site is located at the maintenance facility of Ko’olau Golf Club, and does not include any public access to mountain areas.

6.10.2 Proposed Action Impacts and Mitigation

Since the project site is located at the maintenance facility of Ko’olau Golf Club, the Proposed Action is not expected to affect public access to the shoreline or to mountain areas. Therefore, no mitigation measures are necessary.



6.11 TRAFFIC IMPACTS

Since the proposed cell site will not be used as a regular public or private gathering area, and traffic to and from the site will only be for small, routine maintenance operations, Bureau Veritas believes that traffic will not be affected by the project and a traffic impact survey is, therefore, not necessary. The Proposed Action will not affect traffic and does not require a traffic impact survey.

6.12 LAND USE

Land use pertains to the human modification of the natural environment, including deforestation, soil degradation, water usage, etc. Human-created land use divides land according to zones, land ownership, parcels, etc. The human division of land use is targeted towards a goal for the region and to promote smart growth of a particular area.

6.12.1 Baseline Conditions

The subject parcel is described by the City and County of Honolulu, Real Property Tax Assessment Office as the land lying in TMK Number: (1) 4-5-042: Parcel 001. According to the DPP, the county zoning designation for the subject parcel is "*P-1 Restricted Preservation*," the State Land Use Ordinance designation is "*Conservation*," and it is located in a "*Special Management Area*."

The subject property (VZW HON Hawaiian Memorial cell site) comprises an approximately 20- by 30-foot (600 square foot) lease area located along the central-northern fenceline of the subject parcel, bordering the H-3 Freeway. The subject property occupies an undeveloped clearing to the northwest of the maintenance facility, overlooking the embankment that forms the freeway setback. The ground cover of the proposed project site consists of exposed soil bordered by dense, low-lying vegetation, bushes and trees to the north and west, and an asphalt-paved roadway to the south and east.

6.12.2 Proposed Action Impacts and Mitigation

According to the DPP, the county zoning designation for the subject parcel is "*P-1, Restricted Preservation*," the State Land Use Ordinance designation is "*Conservation District*," and it is located in a "*Special Management Area*." The proposed action area consists of a small clearing near the golf club maintenance facility. The installation of the proposed cell site will not affect the current land use.

6.13 ACCESS TO THE AREA

6.13.1 Baseline Conditions

Access to the project site is provided from Kionaole Road, an asphalt-paved roadway. The site is located along the central-northern fenceline of the subject parcel, at the maintenance facility of the Ko'olau Golf Club.

6.13.2 Proposed Action Impacts and Mitigation

The operation phase of the Proposed Action will not have a significant affect on access to the area, as travel to the project site will be only for periodic maintenance activities. Therefore, no mitigation is necessary.



6.14 HEALTH AND SAFETY

The National Council on Radiation Protection and Measurements (NCRPM) has established limits for human exposure to radio frequency (RF). The maximum permissible level for RF exposure is 580 microwatts per square centimeter over a 30-minute period. FCC guidelines for RF exposure limits are identical to that of the NCRPM guidelines.

6.14.1 Baseline Conditions

The project site is located at Ko'olau Golf Club's maintenance facility with health and safety concerns related to transportation activities to and from the site. Health may be affected from emissions from vehicular use, and safety concerns are associated with activities such as traveling on narrow roadways.

6.14.2 Proposed Action Impacts and Mitigation

The levels of RF typically found near cellular base station transmitters are significantly lower than the exposure limit established by the FCC and NCRP. Calculations for a worst-case scenario show that to be exposed at levels near the limit, a person would have to remain in the main transmitting beam, at the height of the antenna and within a few feet of the antenna. The height of the monopole will be 30 feet agl; therefore, it is unlikely that a person will be exposed to RF levels in excess of the guidelines.

The Proposed Action is expected to increase safety in the project area because better cellular coverage in the area will allow emergencies to be reported immediately, thereby increasing public safety. Therefore, no mitigation is necessary.

7.0 COMPLIANCE WITH PLANS AND PROGRAMS

7.1 STATE LAND USE DISTRICT

Under Chapter 205, HRS, lands in the State of Hawaii are classified into State Land Use Districts by the State of Hawaii Land Use Commission. The four land use districts are Urban, Rural, Agricultural, and Conservation. The proposed VZW Hawaiian Memorial Cell Site is located in an area classified as a State Land Use Conservation District.

7.1.1 Conservation District

Conservation districts include areas necessary for protecting watersheds and water sources; preserving scenic and historic areas; providing park lands, wilderness and beach reserves; conserving indigenous or endemic plants, fish, and wildlife; preventing floods and soil erosion; forestry; open space areas; conservation of natural or scenic resources; areas of value for recreational purposes; other related activities and other permitted uses. The conservation district is divided up into subzones defined in Title 13 Chapter 5 of the HAR. The five subzones are Protective, Limited, Resource, General, or Special. The Proposed VZW HON Hawaiian Memorial Cell Site is located in the "General" subzone.

The proposed action will take place in a Conservation District in an already developed area; therefore, the project will not have an effect on the items listed for Conservation Districts because of the following:

- According to Section 4.1.2 of this EA, the proposed action will not affect water resources;
- The subject property is in a developed maintenance area and the monopole will be comparable in height to surrounding utility poles and vegetation, thereby not affecting scenic areas;



- According to Section 4.6 of this EA, the proposed action is not located within the APE for effects to historic areas;
- The subject property is located at an existing golf course that is not being used or proposed being used for park land;
- According to Section 4.2.2 of this EA, the proposed action is not located in a wilderness area;
- The proposed action is not located at or adjacent to any beaches;
- The proposed action is located in a developed area where previous grubbing and grading has already removed endemic plants;
- According to Section 4.2.1 of this EA, the proposed action is not located in a flood zone;
- According to Section 4.1.1 of this EA, the proposed action will have little to no effect on soil;
- The proposed action will not involve the destruction of any forested areas; and
- The proposed action will be located at an existing maintenance facility and not in an open space or recreational areas.

7.1.2 General Subzone

The objective of this subzone is to designate open space where specific conservation uses may not be defined, but where urban use would be premature. The general subzone encompasses lands with topography, soils, climate not normally adaptable or presently needed for urban, rural or agricultural use; and land suitable for farming, flower gardening, nurseries, orchards, or grazing.

The main purpose of the general subzone is to prevent premature urban development. The proposed action is not urban in nature as it does not provide facilities for public use; therefore, the proposed action is in compliance with the general subzone criteria.

7.2 HAWAII STATE PLANNING ACT

The Hawaii State Planning Act (HSPA) was created to guide for future long-range development of the state, to provide for wise use of Hawaii's resources, and to improve coordination among different agencies and levels of government in the planning process. The goals of the HSPA are to, "create a strong, viable economy; a desired physical environment; and physical, social, and economic well-being for the people of Hawaii."

7.2.1 Population

The HSPA provides for objectives in planning population growth so that it is "consistent with the achievement of physical, economic, and social objectives." The Proposed Action is for a telecommunications site that neither provides a facility for populations to gather nor presents a significant environmental effect that would deter people from living in the area; therefore, the Proposed Action is not expected to impact population.



7.2.2 Economy – In General

Objectives for general economic matters in the HSPA include increasing and diversifying employment and the economic base of the state, especially on neighbor islands. While the VZW HON Hawaiian Memorial Cell Site will not directly increase employment or economic bases, it will allow for better business communications during the planning and operation phases of achieving these objectives.

7.2.3 Economy – Agriculture

The HSPA's objectives for the agriculturally-related economy include, *“developing diversified agriculture while maintaining the sugar and pineapple industries.”* The Proposed Action is not located in an agriculturally zoned area; therefore, it will not affect agriculturally-related economic goals.

7.2.4 Economy – Visitor Industry

The HSPA plans for the continued growth of the visitor industry as part of Hawaii's economy. While the Proposed Action will not affect the growth of the visitor industry either adversely or beneficially, it will provide for better telecommunications for those visitors in the Kaneohe area.

7.2.5 Economy – Federal Expenditures

The Proposed Action does not involve federal expenditures; therefore, it will not affect the objectives set forth in this section of the HSPA.

7.2.6 Economy – Potential Growth Activities

Objectives for potential growth activities discussed in the HSPA pertain to, achieving the increase and diversification of Hawaii's economic base. One of the policies for achieving this objective is to *“increase research and development of businesses and services in the telecommunications and information industries.”* The development of the Proposed VZW HON Hawaiian Memorial Cell Site helps to carry out this policy and achieve the objective for potential growth activities.

7.2.7 Economy – Information Industry

The objective for the information industry is to position *“Hawaii as the leading dealer in information businesses and services in the Pacific Rim.”* To help achieve this goal, one of the listed policies is to *“encourage the continued development and expansion of telecommunications infrastructure serving Hawaii to accommodate future growth in the information industry.”* The Proposed Action is to develop a telecommunications site, which will help Hawaii attain its objective for the information industry.

7.2.8 Physical Environment – Land-Based, Shoreline, and Marine Resources

The HSPA's objectives for land based shoreline and marine resources are for, *“prudent use of Hawaii's land-based, shoreline, and marine resources; and effective protection of Hawaii's unique and fragile environmental resources.”* The Proposed Action is located at a significant distance from the shoreline; therefore, marine resources will not be affected by the proposed action.



7.2.9 Physical Environment – Scenic, Natural Beauty, and Historic Resources

The HSPA's objective for scenic, natural beauty and historic resources is for, "*enhancement of Hawaii's scenic assets, natural beauty, and multi-cultural/historical resources.*" The proposed action will comply with this objective because the proposed action:

- Will be constructed in an area that was already altered during construction of the existing golf course and maintenance facility; therefore it will not be disturbing native vegetation
- Will not alter any existing waterways
- According to the DLNR-DOFAW and USFWS, will not affect any critical habitats or endangered species
- Will have no impact on trees in the area
- The proposed monopole will be of comparable height to the existing power lines and vegetation at the subject property

7.2.10 Physical Environment – Land, Air, and Water Quality

The HSPA is striving to maintain and improve good land, air, and water quality within the physical environment while developing a greater public awareness of these resources. According to the analyses and conclusions discussed in Section 4.1 of this report, the Proposed Action is not expected to significantly impact these aspects of the physical environment because air quality will only temporarily decrease due to dust generated during the construction phase, and contact with groundwater is highly unlikely due to the depth of ground water (approximately 145 to 160 feet below ground level).

7.2.11 Facility Systems – In General

Arrangements for facility systems developments in the HSPA includes, "*Planning for the State's facility systems in general shall be directed towards achievement of the objective of water, transportation, waste disposal, and energy and telecommunication systems that support statewide social, economic, and physical objectives.*" Later sections in the HSPA discuss each topic in more detail.

7.2.12 Facility Systems – Solid and Liquid Wastes

Objectives for solid and liquid waste facility systems outlined in the HSPA include, "*maintaining public health and sanitation standards and providing for sufficient sewer facilities.*" The Proposed Action is only expected to produce solid wastes during the construction phase that will be properly disposed of; therefore, impacts will be minimal and the project will be in compliance with the HSPA's objectives.

7.2.13 Facility Systems – Water

The HSPA provided objective for water facility systems is to, "*adequately accommodate water resource needs for domestic, agricultural, commercial, industrial, and recreational uses.*" The Proposed Action will not consume or affect the distribution of water; therefore, it is in compliance with the outlined objective.



7.2.14 Facility Systems – Transportation

According to the HSPA, the State should strive to, “*achieve current and future transportation needs for both people and goods; and develop a transportation system that will accommodate growth.*” The proposed action will not affect transportation objectives.

7.2.15 Facility Systems – Energy

Under the HSPA, Hawaii should strive towards dependable energy facility systems, increasing energy self-sufficiency, providing energy security, and reducing greenhouse gas emissions. The Proposed Action will not impede the first three objectives and is in compliance with the fourth objective because low to negligible emissions will be released from the cell site.

7.2.16 Facility Systems – Telecommunications

According to the HSPA, “*Planning for the State’s telecommunications facility systems shall be directed towards the achievement of dependable, efficient, and economical statewide telecommunications systems capable of supporting the needs of the people.*” The Proposed Action is for a telecommunications site that is intended to increase communication for those in the Kaneohe area with VZW telephones; therefore, the Proposed Action is in compliance with the HSPA’s telecommunications facility systems objective.

7.2.17 Socio-Cultural Advancement – Housing

The objectives for housing outlined in the HSPA include “*greater opportunities for people to secure reasonably priced, safe, sanitary homes; orderly development of residential areas sensitive to community needs; and development and provision of affordable rental housing by the State.*” The Proposed Action will not provide new housing or take away existing housing; therefore, it will not affect the housing objectives for the State of Hawaii.

7.2.18 Socio-Cultural Advancement – Health

Objectives for health outlined in the HSPA include, “*fulfilling basic individual health needs and maintaining a healthy environment.*” The proposed action will be in compliance with health objectives and will not have a significant effect on public health due to RF being controlled by the FCC guidelines, which limit human exposure to a maximum permissible level of 580 microwatts per square centimeter over a 30-minute period. This level is identical to that of the NCRPM. The levels typically found near cellular base station transmitters are significantly lower than this level. Calculations for a worst case scenario show that, to be exposed at levels near the FCC limits a person would have to remain in the main transmitting beam, at the height of the antenna and within a few feet of the antenna. Therefore, it is unlikely that a person will be exposed to RF levels in excess of the guidelines.

7.2.19 Socio-Cultural Advancement – Education

Objectives for education outlined in the HSPA are that, “*education shall be directed towards achievement of educational opportunities to fulfill the needs, responsibilities, and aspirations of the people of Hawaii.*” The Proposed action is for a telecommunications site to be located near a golf course maintenance facility; therefore, it will not adversely affect objectives associated with education.



7.2.20 Socio-Cultural Advancement – Social Services

The HSPA objective outlined for social services is to, “*improve public and private social services to enable citizens to become more self-reliant.*” The Proposed Action will allow for people in the Kaneohe area with VZW to communicate better with others, thereby increasing self-reliance. Therefore, the Proposed Action helps achieve the objective for social services advancement.

7.2.21 Socio-Cultural Advancement – Leisure

The HSPA objective outlined for advancement- leisure is to, “*allocate an adequate provision of resources to accommodate diverse cultural, artistic, and recreational needs for present and future generations.*” The Proposed Action is located near a golf club maintenance facility; therefore it will not be taking away from any recreational, cultural or artistic resources.

7.2.22 Socio-Cultural Advancement – Individual Rights and Personal Well-Being

The objective outlined in the HSPA for individual rights and personal well-being is for “*increased opportunities and protection of individual rights, to enable individuals to fulfill their socio-economic needs.*” The Proposed Action is expected to help individuals fulfill their socio-economics needs and aspirations by providing more reliable cellular phone service in the Kaneohe area.

7.2.23 Socio-Cultural Advancement – Culture

The HSPA objective outlined for culture is to, “*enhance cultural identities, traditions, values, customs, and arts of Hawaii’s people.*” Section 6.6 of this report states that baseline conditions show that no cultural resources are located within the project area; however, if culturally significant subsurface deposits should be located during the construction phase of the project, the DLNR-SHPD will be contacted to set appropriate mitigation measures in place.

7.2.24 Socio-Cultural Advancement – Public Safety

HSPA objectives outlined for public safety are to, “*assure public safety and protection of property, optimum readiness in all phases of emergency management; and promoting community responsibility for the welfare and safety of the people.*” The Proposed Action is expected to increase public safety in the area by providing cell phone services in times of power outage, natural disasters and times of emergency.

7.2.25 Socio-Cultural Advancement – Government

HSPA objectives outlined for government are for, “*efficient, effective and responsive government services at all levels of the State; and fiscal integrity, responsibility and efficiency in the State and County Governments.*” The Proposed Action is not related to government activities; therefore, it will not affect any objectives associated with the government.

7.3 CITY AND COUNTY OF HONOLULU GENERAL PLAN

The proposed action was evaluated to confirm that it is in compliance with the City and County of Honolulu General Plan (GP), as amended in 2002. According to the document, the GP was established to address the future growth of the metropolitan area of Honolulu in regards to physical, social, economic, and environmental concerns. The following subsections analyze the proposed action’s compliance with the GP’s objectives and policies.



7.3.1 Population

The population objectives for the City and County of Honolulu are to, *“control population growth to avoid social, economic, and environmental disruptions; plan for anticipated future population growth; and maintain a pattern of population distribution allowing people to live and work in harmony.”* The proposed HON Hawaiian Memorial cell site will comply with the population objectives designated for Honolulu because the proposed action:

- Will provide cellular phone service to current and future VZW customers that may move into the area; thus planning for future growth.
- The proposed cell site is not a public facility, will not be providing housing or commercial services; therefore, it will not contribute to population growth.

7.3.2 Economic Activity

The objectives for economic activity for the City and County of Honolulu are to, *“promote employment opportunities that enable the people of Oahu to attain a decent standard of living; maintain the viability of Oahu’s visitor industry; maintain the viability of agriculture; make full use of the economic resources of the sea; prevent large scale unemployment; and increase the amount of Federal spending, bring about orderly economic growth.”* The proposed HON Hawaiian Memorial cell site will comply with the economic objectives designated for Honolulu because the proposed action:

- Will provide cellular phone service to current residents, businesses and visitors of the County of Honolulu; therefore, increasing productivity
- Will not increase resort development or tourism since the site is to be placed in a conservation district
- Will not affect current or potential use of agricultural lands, because it will be located near a golf course maintenance facility and not on agricultural land
- Will not affect the fishing industry, or ocean research

7.3.3 The Natural Environment

The objectives for the preserving the City and County of Honolulu are to, *“protect and preserve the natural environment; and preserve and enhance natural monuments and scenic views for the benefits of residents and visitors.”* The proposed HON Hawaiian Memorial cell site will comply with the objectives for preserving the natural environment designated for Honolulu because the proposed action:

- Will be constructed in an area that was already altered during construction of the existing golf course and associated maintenance facility
- Is located in the maintenance area of the golf course and therefore not in a scenic viewing area
- Involves installing a monopole comparable in height to the surrounding vegetation and utility poles, thereby not affecting views of the area
- Is located in Zone D, which denotes areas where flood hazards are undetermined



- Will not alter any existing waterways
- Will not cause a significant increase in noise pollution and air pollution and will not contribute to water pollution
- According to the DLNR-DOFAW and USFWS, will not affect any critical habitats or endangered species
- Will have no impact on trees in the area

7.3.4 Housing

The objectives for housing for the City and County of Honolulu are to, *“provide decent affordable housing for all people; reduce speculation in land and housing; provide people with living environments that are reasonably close to employment, recreation, and commercial centers and adequately served by public utilities.”* The proposed action will not provide housing or take away existing housing; therefore, it will not affect the housing objectives for the City and County of Honolulu.

7.3.5 Transportation and Utilities

The objectives for transportation and utilities for the City and County of Honolulu are to, *“create a transportation system enabling people and goods to move safely and efficiently and with a reasonable cost, serve all people, and offer a variety of convenient and attractive modes of travel; meet the need for an adequate supply of water and environmentally sound waste disposal; maintain high level of service for all utilities; and maintain transportation and utility systems.”*

The proposed action will have no affect on transportation objectives for the City and County of Honolulu. However, the proposed action will provide cellular phone service to customers located in the Kaneohe area, thus improving the use and efficiency of cell phones in the neighborhood. Additionally, the cell site will connect to the existing electrical utility pole in the area.

7.3.6 Energy

The objectives for energy for the City and County of Honolulu are to, *“maintain an adequate, dependable and economic supply of energy; conserve energy through more efficient management of its use; fully utilize proven alternative sources of energy; develop and apply new, locally available energy resources; and establish a continuing energy information program.”* The proposed action will comply with the energy objectives designated for Honolulu because the proposed action will not require a substantial amount of energy to operate the cell site.

7.3.7 Physical Development and Urban Design

The objectives for physical development and urban design for the City and County of Honolulu are to, *“ensure developments are timely, well designed, and appropriate to the areas they will be located; develop Honolulu, Aiea, and Pearl City as the Island’s primary urban center; develop a secondary urban center in Ewa; maintain development characteristics in the urban-fringe and rural areas that make them desirable; create and maintain attractive, meaningful and stimulating environments; promote and enhance social and physical character of older towns and neighborhoods.”* The proposed action will comply with the Physical Development and Urban Design objectives designated for Honolulu because the proposed action:



- Will not affect open space
- Will not significantly alter the area because it the area was previously altered during its former use as pasture land and in more recent construction of the existing golf course and associated maintenance facility

7.3.8 Public Safety

The objectives for public safety for the City and County of Honolulu are to, *“prevent and control crime and maintain public order; and protect people and their property from natural disasters and other emergencies.”*

The proposed action will comply with the Public Safety objectives designated for Honolulu because the proposed action will provide cell phone service to VZW customers during power outages, during natural disasters, and in times of emergency. Also, better coverage in the area will allow crimes to be reported immediately, thereby increasing public safety.

7.3.9 Health and Education

The objectives for health and education for the City and County of Honolulu are to, *“protect the health of people; provide a wide range of educational opportunities; and make Honolulu the center of higher education in the Pacific.”* The education objectives for Honolulu will not be affected by the proposed action. The proposed action will comply with the health objectives for Honolulu because the proposed action:

- Will not have a significant effect on air and noise pollution in the area and will not effect water pollution as discussed in Sections 6.1.2, 6.3 and 6.9
- Will not have a significant effect on public health due to RF being controlled by the FCC guidelines, which limit human exposure to a maximum permissible level of 580 microwatts per square centimeter over a 30-minute period. These levels are identical to that of the NCRPM. The levels typically found near cellular base station transmitters are significantly lower than this level. Calculations for a worst-case scenario show that to be exposed at levels near the FCC limits, a person would have to remain in the main transmitting beam, at the height of the antenna, and within a few feet of the antenna. Therefore, it is extremely unlikely that a person will be exposed to RF levels in excess of the guidelines

7.3.10 Culture and Recreation

The objectives for culture and recreation for the City and County of Honolulu are to, *“foster the multiethnic culture; protect cultural, historic, architectural, and archaeological resources; foster the visual and performing arts; and provide a wide range of recreational facilities and services.”*

An archeological assessment was prepared for the proposed action to establish whether any cultural, historic, or archeological properties would be disturbed during the proposed construction activities. According to T.S. Dyes Archeological report (see Appendix B), no archeological or historic properties will be affected by the proposed action.

7.3.11 Government Operations and Fiscal Management

The objectives for government operations and fiscal management for City and County of Honolulu are to, *“promote increased efficiency, effectiveness, and responsiveness in the provisions of government*



services; and ensure fiscal integrity, responsibility, and efficiency by the government in carrying out its responsibilities.” This project is privately funded; therefore, it will not affect government operations or fiscal management.

7.4 KOOLAUPOKO SUSTAINABLE COMMUNITIES PLAN

The Koolaupoko Sustainable Communities Plan was created to preserve the natural, scenic, cultural, historic and agricultural resources of the Koolaupoko community.

7.4.1 Open Space Preservation

The open space preservation policies established by the Koolaupoko Community are to, *“protect scenic views, provide recreation and promote access to shoreline and mountain areas; define the boundaries of communities and provide buffers between agricultural uses, residential neighborhoods and other uses; create a system of linear greenways along roadways and drainage ways; and prevent development in areas susceptible to landslides and similar hazards.”* The proposed cell site is located in a developed area where the surrounding vegetation will be comparable to the height of the monopole; therefore, it will not affect open space areas.

7.4.2 Island Based Parks and Recreation

The island-based parks and recreation policies established by the Koolaupoko Community are to, *“employ appropriate screening and siting; ensure environmental compatibility in the design and construction of park facilities; integrate recreational opportunities with the characteristics of the surrounding community; establish the Kaneohe area as the top priority for creating new shoreline access and/or beach parks in Koolaupoko; and take steps to make future beach accretion public land perpetuity.”*

The proposed action is located on private land, near a golf course maintenance facility; therefore, it will not impact any Island-based parks or recreation areas.

7.4.3 Community Based Parks

The community-based parks policies established by the Koolaupoko Community are to, *“increase the inventory of community-based parks to provide appropriately located sports and recreation facilities; provide for more intensive use of some existing facilities serving areas in which expansion of site area is constrained; require developers of new residential projects to provide land for open space and recreation purposes, rather than paying the park dedication fee; and pursue installation of greenways along streams and drainage channels.”*

The proposed action is located on private land, near a golf course maintenance facility; therefore, it will not impact any community-based parks.

7.4.4 Historic and Cultural Resources

The historic and cultural resources policies established by the Koolaupoko Community are to, *“emphasize physical references to Koolaupoko’s history and cultural roots; protect existing visual landmarks and support creation of new, culturally appropriate landmarks; preserve significant historic features; and retain significant vistas associated with archaeological features.”*

Section 4.6 of this report describes measures taken to secure possible historic and cultural resources in the area of the proposed action.



7.4.5 Agricultural Uses

The agricultural use policies established by the Koolaupoko Community are to, *“encourage small-lot agricultural uses and prevent conversion of agricultural lands to non-agricultural uses; adopt development and public works standards that are appropriate and cost-effective for rural, agricultural areas; provide supporting infrastructure, services and facilities to foster and sustain agricultural operations; and implement policies and incentives to promote active, long-term agricultural uses.”*

The proposed action is located on private land, near a golf course maintenance facility; therefore, it will not impact any agricultural uses.

7.4.6 Residential Uses

The residential use policies established by the Koolaupoko Community are to, *“modify residential street design to provide emphasis on safe, accessible, convenient and comfortable pedestrian routes, bus stops and bike routes; maintain the predominantly low-rise, low-density, single family character of the region; protect the integrity of existing residential neighborhoods; reduce average density guidelines to 2-8 units per acre in urban fringe areas and 0.2 -4 units per acre in rural areas.”*

The proposed action is located on private land, near a golf course maintenance facility; therefore, it will not impact any residential uses.

7.4.7 Commercial and Industrial Uses

The commercial and industrial use policies established by the Koolaupoko Community are to, *“identify and define commercial and industrial uses in various categories appropriate to the character and needs of Koolaupoko’s communities, including: rural commercial centers, neighborhood commercial centers, community commercial centers, town centers, and areas supporting light and extractive industries; limit the area devoted to commercial and industrial centers to current sites; expand the use of mixed-use commercial-residential designations, and apply mixed-use industrial-commercial designations to existing industrial sites in Kailua and Kaneohe; and rezone the frontage of Hekili street in Kailua to commercial to avoid its future use as industrial.”*

The proposed action is located on private land, near a golf course maintenance facility; therefore, it will not impact any commercial and/or industrial uses.

7.4.8 Institutional Uses

The institutional use policies established by the Koolaupoko Community are to, *“retain the open space character of existing institutional campuses; and site and design campus facilities to respect the scenic context and adjacent residential areas.”*

The proposed action is located on private land, near a golf course maintenance facility; therefore, it will not impact any institutional uses.

7.4.9 Military Uses

The military use policies established by the Koolaupoko Community are to, *“assume MCBH and Bellows AFS will remain under military control; and encourage the state to continue to pursue the release of unused military lands for civilian uses, with special attention to securing permanent civilian use of all Bellows shorefront areas and provision of greater civilian shoreline access at MCBH.”*



The proposed action is located on private land, near a golf course maintenance facility; therefore, it will not impact any military uses.

7.4.10 Transportation Systems

The transportation system policies established by the Koolau-poko Community are to, *“reduce reliance on the private passenger vehicle by promoting transportation system management and travel demand management measures for both commuting and local trips; provide adequate and improved mobility between communities, shopping, and recreation centers, especially by enhancing pedestrian, bicycle and transit modes of travel; maintain adequate person-carrying capacity for peak-period commuting to and from work in the Primary Urban Center; and recommend no new highway widenings or interchange construction except widening to accommodate bikeways.”* The proposed action will not have any impact on transportation systems.

7.4.11 Water Systems Development

The water systems development policies established by the Koolau-poko Community are to, *“integrate management of all potable and non-potable water sources, including groundwater, stream water, storm water, and effluent, following State and City legislative mandates; and adopt and implement water conservation practices in the design of new developments and the modification of existing uses including landscaped areas and as a major element in integrated water resource planning.”*

Due to the estimated depth of groundwater below the proposed cell site, the proposed action is not expected to encounter groundwater during construction activities and the cell site will not obstruct any surface water bodies. Therefore, the cell site will have no effect on water systems.

7.4.12 Wastewater Treatment

The wastewater treatment policies established by the Koolau-poko Community are to, *“connect all wastewater produced within the Urban Community and Rural Community boundary areas to municipal or military sewer service systems; where feasible, use water recycling as a water conservation measure; and mitigate visual, noise, and odor impacts associated with wastewater collection and treatment systems, especially when they are located adjacent to residential designated areas.”*

The proposed action will not produce any wastewater; therefore, wastewater treatment policies do not pertain to the proposed action.

7.4.13 Electrical and Communications Systems

The electrical and communications systems policies established by the Koolau-poko Community are to, *“design system elements and incrementally replace facilities such as sub-stations, transmission lines and towers to avoid or mitigate any potential adverse impacts on scenic and natural resource values and residential neighborhoods and to enhance system reliability; place new utility lines underground; coordinate improvements with other infrastructure improvement efforts such as roadway widening; and establish a long-range program for systematically relocating existing lines underground.”*

The proposed action will be located in an area that was previously developed and has existing utilities.



7.4.14 Solid Waste Handling and Disposal

The solid waste handling and disposal policies established by the Koolaupoko Community are to, *“continue efforts to establish more efficient waste reduction, diversion and collection systems without adverse impact on residents; and further encourage green waste recycling.”*

The proposed action will produce a small amount of waste during construction activities that will be properly disposed of; however, during the operation phase no wastes will be produced.

7.4.15 Drainage Systems

The drainage systems policies established by the Koolaupoko Community are to, *“promote drainage system design, which emphasizes control and minimization of polluted run-off and the retention of storm water on-site and in wetlands; view storm water as a potential source of water for recharge of the aquifer that should be retained for absorption rather than quickly moved to coastal waters; select natural and man-made vegetated drainageways and retention basins as the preferred solution to drainage problems wherever they can promote water recharge, help control non-point source pollution, and provide passive recreation benefits; and keep drainageways clear of debris to avoid flooding problems.”* The proposed action is for the installation of a telecommunications system; therefore, it will have no affect on drainage systems.

7.4.16 School and Library Facilities

The school and library facility policies established by the Koolaupoko Community are to, *“approve new residential developments only after the State Department of Education certifies that adequate school facilities will be available when the development is completed; and support State efforts to require that developers pay their fair share of costs needed to ensure provision of adequate school facilities.”*

The proposed action is for the installation of a telecommunications system; therefore, it will have no affect on school and library facilities.

7.4.17 Civic and Public Safety Facilities

The civic and public safety facility policies established by the Koolaupoko Community are to, *“provide adequate staffing and facilities to ensure effective and efficient delivery of basic governmental services and protection of public safety; and locate civic facilities in areas suitable for the volume of users.”*

The proposed action is for the installation of a telecommunications system; therefore, it will have no affect on civic and public safety facilities.

7.4.18 Other Community Facilities

The policy established by the Koolaupoko Community for other community facilities is as follows: *“other major public, quasi-public or private facilities or utilities which provide essential community services but which have a major adverse impact on surrounding land uses should be considered through a City review process, such as the Plan Review Use process, which provides public notification, review by appropriate agencies, opportunities for public comment, and approval by the City Council.”*

The proposed action may fall under other community facilities; however, no major adverse impacts are expected because the community at-large does not use the area. Additionally, this EA was prepared to document potential impacts and mitigation measures.



7.4.19 Urban Design

The urban design policies established by the Koolau Community are to, “*adopt policies and principles to enhance the natural environment and preserve the aesthetic character of the community.*” The aesthetic character of the community will be preserved because the subject property is not located in an area used by the community at-large and the proposed monopole will be comparable in height to the surrounding utility poles and vegetation.

8.0 FINDINGS

We have prepared this EA for the proposed VZW HON Hawaiian Memorial Cell Site (subject property) in conformance with the State of Hawaii DLNR-OCCL’s CUA requirements. The findings presented in this Section are based on Bureau Veritas’ understanding of the subject property location and the proposed action at the subject property; as such action is described in Section 2.0. Should modifications to the location of the subject property or proposed action be made in the future, then additional inquiries may be prudent.

According to the DOH Rules (I 1-200-12), an applicant or agency must determine whether an action may have significant impact on the environment, including all phases of the project, its expected consequences both primary and secondary, its cumulative impact with other projects, and its short-and long-term effects. In making the determination, the Rules establish “Significant Criteria” to be used as a basis for identifying whether significant environmental impact will occur. According to the Rules, an action shall be determined to have significant impact on the environment if it meets any one of the following criteria:

(1) Involves an irrevocable commitment to loss or destruction of any natural or cultural resources;

The proposed project site is located in the existing Ko’olau Golf Club. This area was extensively altered during previous development of the golf club grounds and available photographs of the site show obvious disturbances and clearings. In addition, according to DLNR-SHPD, no archaeological or historical sites are known to exist within the immediate area of the proposed project site.

(2) Curtails the range of beneficial uses of the environment;

The proposed cell site will be located in an area of the golf course that is only used by maintenance personnel and will use existing utilities located on the subject parcel; therefore, the proposed cell site will not affect the existing use of the golf course and will not reduce the environments beneficial uses.

(3) Conflicts with the State’s long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS; and any revisions thereof and amendments thereto, court decisions, or executive orders;

The proposed project is not expected to have a significant impact on the surrounding natural environment or historical areas of the existing community. Additionally, it will have no negative economic or social impacts on the area. Therefore, it is consistent with the Environmental Policies established in Chapter 344, HRS, and the NEPA.



(4) Substantially affects the economic or social welfare of the community or state;

The proposed cell site is anticipated to have no growth impact on regional population. The proposed cell site will be located in a portion of the subject parcel only used by maintenance personnel; therefore, it will not interfere with the current use of the golf course. The construction of the cell site will have no social or economic impacts to the area, except to provide better telecommunications service.

(5) Substantially affects public health;

Impacts to public health may be affected by air and noise during construction; however, these will be insignificant or not detectable.

(6) Involves substantial secondary impacts, such as population changes or effects on public facilities;

The proposed project is anticipated to have no growth impact on the regional population. In addition, the proposed cell site will be located away from public facilities and in an area accessed by maintenance personnel; therefore, it will have very little effect on public facilities.

(7) Involves a substantial degradation of environmental quality;

The proposed project is located in an area with existing electrical power. The proposed activities will be limited to the immediate area of the proposed cell site and will blend in with existing uses in the area; therefore, the proposed action will not involve substantial degradation of environmental quality.

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

The proposed action is designed to maintain the given space, and benefit the community at large. No views will be obstructed or be visually incompatible with the surrounding area.

(9) Substantially affects a rare, threatened or endangered species or habitat;

According to USFWS determinations, the subject property does not lie within or immediately adjacent to any proposed or designated critical habitat, wetland or coral reef. Moreover, USFWS has responded that federally listed endangered, threatened, or proposed species are not known to inhabit the proposed project site.

(10) Detrimentially affects air or water quality or ambient noise levels;

The proposed project is not anticipated to detrimentally affect air or water quality or ambient noise levels of the area. The project will have a slight impact on noise levels, due to the emergency generator; however, the generator will only be run in the event of a power outage and for short test periods as a regular maintenance activity.



(11) Affects or is likely to suffer damage by being located in an environmentally sensitive area, such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, freshwater, or coastal waters;

According to the FEMA/FIRM Map No. 150001-0090 C, revised September 28, 1990) for the County of Honolulu, Hawaii, the subject property lies within Flood Zone D, an area in which the flood hazards are undetermined.

In addition, the USACE has determined that there are no waters of the United States at the proposed project site and, therefore, a Department of the Army permit will not be required for this project.

Based on the above criteria, there are no environmentally sensitive areas associated within the proposed project.

(12) Substantially affects scenic vistas and view planes identified in county or state plans or studies;

The proposed subject property is located in the rear of the existing golf course. Views of this site are only visible from the golf course grounds and the monopole will be comparable in height to surrounding utility poles and vegetation; therefore, the proposed project site does not effect scenic vistas and view planes.

(13) Requires substantial energy consumption.

Construction of the proposed project will not require substantial energy consumption relative to other similar projects.

None of the inquiries made or documents reviewed during this EA indicated direct evidence of significant negative environmental conditions with respect to the proposed action at the subject property.

This report prepared by:

Lori Ford
Senior Project Manager
Health, Safety and Environmental Services

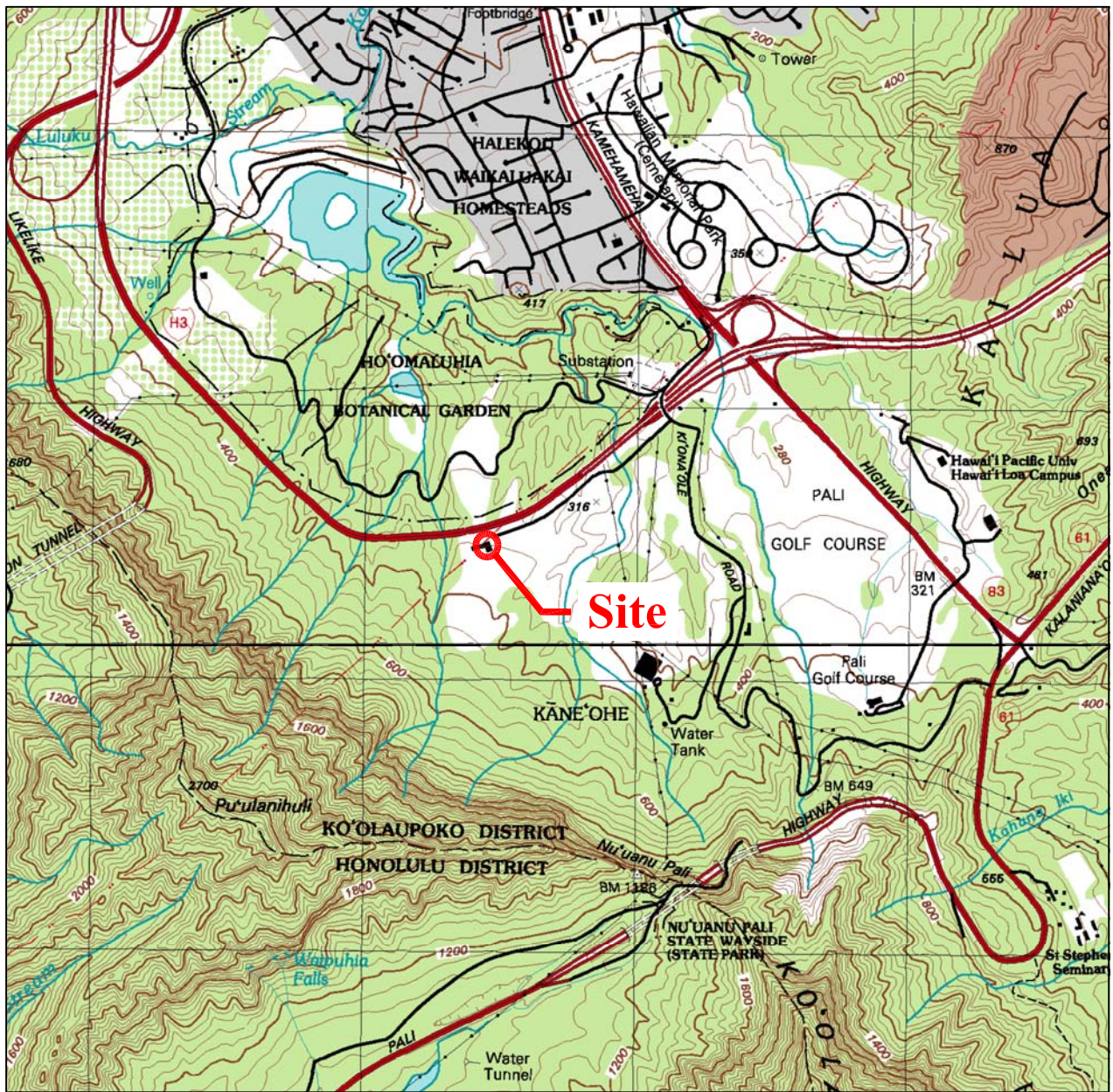
This report reviewed by:

Tim Swartz
Senior Project Manager
Health, Safety and Environmental Services

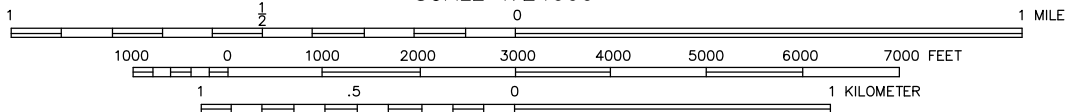
February 7, 2012
Project No. 17005-005348.04




FIGURES

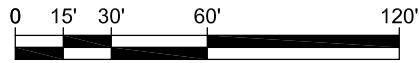
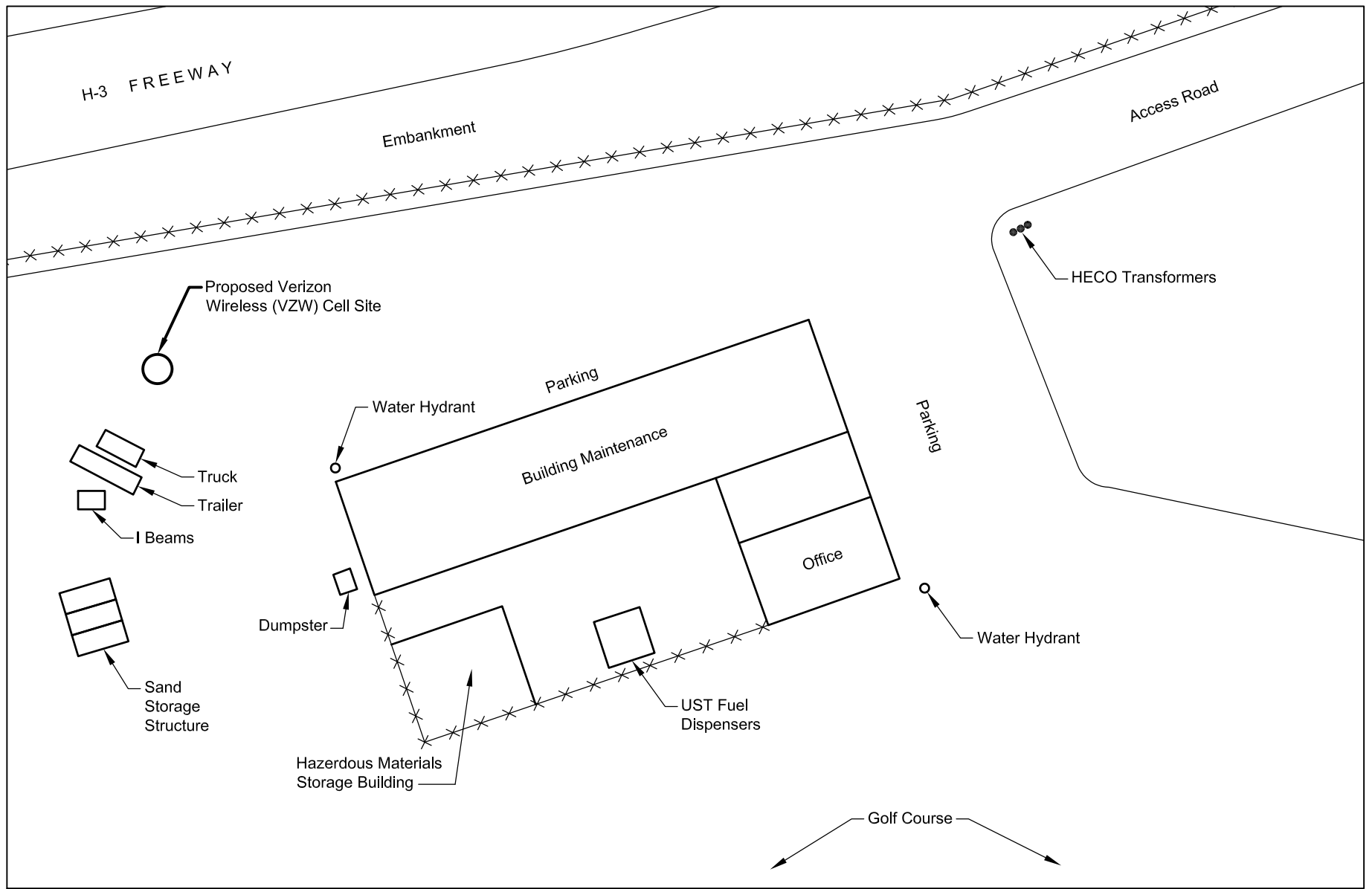



SCALE 1:24000



Portion of 7.5-minute Series (Topographic) Maps
 United States Department of Interior
 United States Geological Survey
 Kaneohe & Honolulu Quadrangle, City & County of Honolulu, Hawaii
 1998

| | | | | | |
|--|--------------|-----------------|-----------|--|-----------------|
|  BUREAU VERITAS | Project No.: | 17005-005348.05 | Title: | Site Location Map | FIGURE 1 |
| | Date: | 08/05/08 | Location: | VZW HON Hawaiian Memorial Cell Site 45-550 Kionaole Road Kaneohe, Oahu, Hawaii | |
| | Revised By: | DG | Client: | Verizon Wireless (VZW) / Cades Schutte, LLP | |
| | Checked By: | MA | | | |



| | | |
|---|---------------------------------|---|
|  | Project No.: 17005-005348.05 | Title: Site Vicinity Map |
| | Date: 08/05/08 | Location: VZW HON Hawaiian Memorial Cell Site 45-550 Kionaole Road Kaneohe, Oahu, Hawaii |
| | Revised By: DG | Client: Verizon Wireless (VZW) / Cades Schutte, LLP |
| | Checked By: MA | |

**FIGURE
2**



PHOTOGRAPHS



| | | | |
|--|--------------------|--|-------------------|
| Project Number 17005-005348.05 | Description | Access road to cell site and maintenance building looking west | Photo 1 |
| | Site Name | VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii | Photo Date |
| | Client | Verizon Wireless (VZW) / Cades Schutte, LLP | 8/1/2008 |



| | | | |
|--|--------------------|--|-------------------|
| Project Number 17005-005348.05 | Description | View of proposed VZW antenna tower site looking west from access road | Photo 2 |
| | Site Name | VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii | Photo Date |
| | Client | Verizon Wireless (VZW) / Cades Schutte, LLP | 8/1/2008 |



| | | | |
|--|--------------------|--|-------------------|
| Project Number 17005-005348.05 | Description | Truck, trailer, I-beams west of the proposed cell site | Photo 3 |
| | Site Name | VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii | Photo Date |
| | Client | Verizon Wireless (VZW) / Cades Schutte, LLP | 8/1/2008 |



| | | | |
|--|--------------------|--|-------------------|
| Project Number 17005-005348.05 | Description | Golf cart tires and other maintenance debris in the brush west of the proposed cell site | Photo 4 |
| | Site Name | VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii | Photo Date |
| | Client | Verizon Wireless (VZW) / Cades Schutte, LLP | 8/1/2008 |



| | | | |
|--|--------------------|---|-------------------|
| Project Number 17005-005348.05 | Description | View of H-3 Freeway looking northwest from the area of the proposed cell site | Photo 5 |
| | Site Name | VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii | Photo Date |
| | Client | Verizon Wireless (VZW) / Cades Schutte, LLP | 8/1/2008 |



| | | | |
|--|--------------------|--|-------------------|
| Project Number 17005-005348.05 | Description | Concrete sand storage structure located southwest of proposed cell site | Photo 6 |
| | Site Name | VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii | Photo Date |
| | Client | Verizon Wireless (VZW) / Cades Schutte, LLP | 8/1/2008 |



| | | | |
|--|--------------------|--|-------------------|
| Project Number 17005-005348.05 | Description | View of hazardous materials storage building located south of the maintenance building and southeast of the proposed cell site | Photo 7 |
| | Site Name | VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii | Photo Date |
| | Client | Verizon Wireless (VZW) / Cades Schutte, LLP | 8/1/2008 |



| | | | |
|--|--------------------|---|-------------------|
| Project Number 17005-005348.05 | Description | View of fuel dispensers located south of the maintenance building and southeast of the proposed cell site | Photo 8 |
| | Site Name | VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii | Photo Date |
| | Client | Verizon Wireless (VZW) / Cades Schutte, LLP | 8/1/2008 |



APPENDIX A

LIST OF SOURCES/REFERENCES



LIST OF SOURCES/REFERENCES

CONTACTS:

Agency and division/source: U.S. Fish & Wildlife Service (USFWS)
Name/title of representative: Mr. Patrick Leonard, Ph.D., Field Supervisor
Location of agency: Honolulu, Oahu, Hawaii
Agency telephone number: (808) 792-9400

Agency and division/source: DLNR – Department of Forestry & Wildlife (DOFAW)
Name/title of representative: Mr. Pat Costales, Oahu Branch Manager
Location of agency: Honolulu, Oahu, Hawaii
Agency telephone number: (808) 587-0166

Agency and division/source: DLNR – Department of Forestry & Wildlife (DOFAW)
Name/title of representative: Mr. Peter Young, Chairperson
Location of agency: Honolulu, Oahu, Hawaii
Agency telephone number: (808) 587-0166

Agency and division/source: DLNR – State Historic Preservation Division (SHPD)
Name/title of representative: Ms. Melanie Chinen, Administrator/ Mr. Peter Young, Chairperson
Location of agency: Honolulu, Oahu, Hawaii
Agency telephone number: (808) 692-8015

Agency and division/source: Office of Hawaiian Affairs (OHA); Hawaiian Rights Div.
Name/title of representative: Mr. Clyde W. Namu’o, Administrator
Location of Agency: Honolulu, Oahu, Hawaii
Agency Telephone Number: (808) 594-1888

Agency and division/source: U.S. Army Corp of Engineers – Honolulu District
Name/title of representative: Mr. George Young, Director / Ms. Paulette Choy, Staff
Location of Agency: Honolulu, Oahu, Hawaii
Agency Telephone Number: (808) 438-1091

Agency and division/source: Historic Hawaii Foundation (HHF)
Name/title of representative: Ms. Kiersten Faulkner, Executive Director
Location of Agency: Honolulu, Oahu, Hawaii
Agency Telephone Number: (808) 523-2900

Agency and division/source: Hui Malama
Name/title of representative: Mr. Charles K. Maxwell, Sr. – Po’o (President)
Location of Agency: PO Box 365 Ho’olehua, HI 96729
Agency Telephone Number: 808-553-5738



LIST OF SOURCES/REFERENCES (Continued)

Agency and division/source: OHA
Name/title of representative: Mr. Clyde Nāmuʻo, Chief Administrator
Location of Agency: Honolulu, Oahu, Hawaii
Agency Telephone Number: (808) 594-1888

Agency and division/source: The Nature Conservancy
Location of Agency: P.O. Box 96, Kunia, Oahu, Hawaii 96759
Agency Telephone Number: (808) 621-2008

Agency and division/source: Sierra Club – Hawaii Chapter
Name/title of representative: Mr. Lucienne De Naie, Chair
Location of Agency: P.O. Box 2577, Honolulu, Oahu, Hawaii 96803
Agency Telephone Number: (808) 572-8331

Agency and division/source: Kaneʻohe Outdoor Circle
Name/title of representative: Ms. Mary Yannell, President
Location of Agency: P.O. Box 32, Kaneʻohe, Oahu, Hawaii 96744
Agency Telephone Number: unknown

Agency and division/source: Hawaii's Thousand Friends
Name/title of representative: Ms. Donna Wong, Executive Director
Location of Agency: 25 Malanui Avenue, Suite 102 #282, Kailua, Hawaii 96734
Agency Telephone Number: (808) 262-0682

REFERENCES:

Name of publication: Phase I Environmental Site Assessment of the Proposed Hawaiian Memorial Cell Site (#2004005294), Located at Koolau Golf Course (Portion of Tax Map Key [TMK] No.: [1] 4-5-042: Parcel 1), Kaneohe, Oahu, Hawaii

Author of publication: Bureau Veritas North America, Inc.
Date of publication: June 28, 2007

Name of publication: U.S.G.S. 7.5-Minute Series Kaneohe, Hawaii Quad
Author of publication: United States Geological Survey (USGS)
Date of publication: 1998

Name of publication: United States Fish and Wildlife Service
Author of publication: <http://www.fws.gov/refuges/refugeLocatorMaps/Hawaii.html>



LIST OF SOURCES/REFERENCES (Continued)

Name of publication: Flood Insurance Rate Map, City and County of Honolulu, Map No. 150003C-0270G
Author of publication: Federal Emergency Management Agency
Date of publication: June 2, 2005

Name of publication: Tower Construction Notification System (TCNS) online website (<http://wireless2.fcc.gov/TribalHistoricNotification/login-notifier.htm>)
Author of publication: Federal Communications Commission (FCC)
Date of publication: 2005

Name of publication: National Programmatic Agreement
Author of publication: FCC
Date of publication: September 2004 / March 7, 2005

Name of publication: National Map Viewer – Wetland information
Author of publication: <http://nationalmap.usgs.gov>

Name of publication: National Scenic Trails Map and Guide
Author of publication: BLM, Federal Highway Administration, USFS, National Park Service
Date of publication: Revised June 2004

Name of publication: Hawaii State Planning Act
Author of publication: State of Hawaii
Date of publication: 2005

Name of publication: City and County of Honolulu General Plan
Author of publication: Department of Planning and Permitting
Date of publication: 1992

Name of publication: Koolaupoko Sustainable Communities Plan
Author of publication: Department of Planning and Permitting
Date of publication: August 2000

Name of publication: Hawaii Administrative Rules Title 13 Chapter 5 – Conservation District
Author of publication: Department of Land and Natural Resources
Date of publication: September 6, 1994



LIST OF SOURCES/REFERENCES (Continued)

Name of publication: Information on Human Exposure to Radiofrequency Fields From Cellular and PCS Radio Transmitters

Author of publication: Federal Communications Commission Office of Engineering & Technology

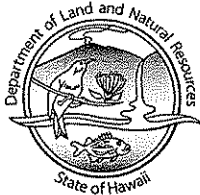
Date of publication: January 1998



APPENDIX B

REGULATORY AGENCY CORRESPONDENCE FOR PERMITTING

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

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

ROBERT K. MASUDA
DEPUTY DIRECTOR - LAND

DEAN NAKANO
ACTING 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
KAOHOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

REF: OCCL:DH

Correspondence: OA-06-192

Douglas Oringer
Clayton Group Services
970 North Kalaheo Avenue, Suite C-316
Kailua, Hawaii 96734

MAR - 9 2006

Dear Mr. Oringer,

SUBJECT: Request for Information Regarding Verizon Wireless Installation of Antenna Facility Located at Koolau Golf Course, Kaneohe, Island of Oahu, Subject Parcel TMK: (1) 4-5-042:001

The Department of Land and Natural Resources' (DLNR), Office of Conservation and Coastal Lands (OCCL) is in receipt of your email via the Chairpersons Office, dated February 27, 2006, regarding your request for information regarding Verizon Wireless Installation of an Antenna Facility, located at the Koolau Golf Course, Kaneohe, Island of Oahu, Subject Parcel TMK: (1) 4-5-042:001.

According to your information, the work consists constructing and installing a new antenna communications facility; consisting of a 35-foot metal antenna monopole, a 336 square foot equipment shelter (12 ft. x 28 ft), and fence. The site will be located adjacent to the golf course's maintenance building area, and access will be from the existing paved road that runs parallel to H-3 Freeway.

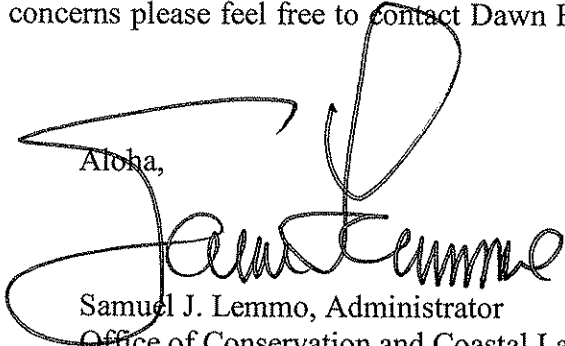
The department notes there is one Conservation District Use Applications (CDUA) on file. CDUA OA-1947 was approved by the Board of Land and Natural Resources (Board) on March 13, 1987, and was subject to 16 terms and conditions. Currently, the OCCL is processing CDUA OA-3253 for a proposed Consolidation and Subdivision action (Departmental Permit).

The Department notes the installation of the proposed antenna and building is an identified land use under Chapter 13-5, Hawaii Administrative Rules (HAR), Section 13-5-22, identified land uses in the Protective subzone, P-6, PUBLIC PURPOSE USES, D-1, " transportation systems, transmission facilities for public utilities, water systems, energy generation facilities utilizing the renewable resources of the area (e.g. hydroelectric or wind farms) and communications systems and other such land uses which are undertaken by non-governmental entities which benefit the public and are consistent with the purpose of the Conservation District." This requires a Board Permit.

The OCCL notes the following should be submitted with the CDUA: 1) a letter from the landowner regarding their approval for the proposed project; 2) a letter from the Kaneohe Neighborhood Board regarding comments and/or concerns on the proposed project.

Lastly, the OCCL notes there is an ongoing enforcement case that needs to be resolved through the Board of Land and Natural Resources (Board). Until the enforcement case is resolved, no CDUA can be processed, pursuant to Hawaii Administrative Rules (HAR), Section 13-5-31 (e), PERMIT APPLICATIONS, "no permit applications shall be processed by the department until any violations pending against the subject parcel are resolved.

Should you have any questions and/or concerns please feel free to contact Dawn Hegger of at 587-0380.

Aloha,

Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

c: ODLO
Chairman
Pat Costales- DOFAW
Koolau Golf Partners

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



RECEIVED
DIVISION

DEC 13 P 2:54

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

GUY H. KAULUKUKUI
FIRST DEPUTY

WILLIAM M. TAM
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
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

ref:OCCL:MC

CDUA OA-3609
180 Day Expiration Date: May 30, 2012

DEC 13 2011

MEMORANDUM:

PK

To: DLNR

- Division of Forestry and Wildlife
- Historic Preservation Division
- Land Division

- Office of Hawaiian Affairs
- United States Fish and Wildlife Service
- Department of Health

PK

FROM: Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

SUBJECT: REQUEST FOR COMMENTS – CONSERVATION DISTRICT USE APPLICATION OA-3609
Verizon Telecommunications Facility

LOCATION: Ko`olau Golf Course, Kāne`ohe, Ko`olaupoko, O`ahu

TMK: (1) 4-5-042:008

Please find Conservation District Use Application (CDUA) OA-3609 for a proposed telecommunications tower on the above subject parcel. We would appreciate any comments your agency or office has on the application.

Please contact Michael Cain at 587-0048, should you have any questions on this matter.

If no response is received by the suspense date of January 21, 2012, we will assume there are no comments.

() Comments Attached

() No Comments

Signature

PK

Attachments: CDUA; Cover Letter



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

RECEIVED
OFFICE OF CONSERVATION
AND COASTAL LANDS

2011 DEC 27 A 11:49

In reply, please refer to:
File:
EPO-11-276

December 21, 2011

DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

Mr. Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands
State of Hawaii
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Lemmo:

**SUBJECT: Request for Comments – Conservation District Use Application OA-3609
Verizon Telecommunications Facility, Koolau Golf Course, Kaneohe,
Koolau, Oahu
TMK: (1)4-5-042:008**

Thank you for allowing us to review and comment on the subject document. The document was routed to the various branches of the Environmental Health Administration. We have no comments at this time, but reserve the right to future comments. We strongly recommend that you review all of the Standard Comments on our website:
www.hawaii.gov/health/environmental/env-planning/landuse/landuse.html. Any comments specifically applicable to this application should be adhered to.

The same website also features a Healthy Community Design Smart Growth Checklist (Checklist). The Hawaii State Department of Health, Built Environment Working Group, recommends that State and county planning departments, developers, planners, engineers and other interested parties apply the healthy built environment principles in the Checklist whenever they plan or review new developments or redevelopments projects. We also ask you to share this list with others to increase community awareness on healthy community design.

If there are any questions about these comments please contact the Environmental Planning Office at 586-4337.

Sincerely,

A handwritten signature in cursive script that reads "Genevieve Salmonson".

GENEVIEVE SALMONSON, Acting Manager
Environmental Planning Office



RECEIVED
OFFICE OF CONSERVATION
AND COASTAL LANDS

STATE OF HAWAII
OFFICE OF HAWAIIAN AFFAIRS

711 KAPI'OLANI BOULEVARD, SUITE 500
HONOLULU, HAWAII 96813

2012 JAN 25 A 8:37

DEPT OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

HRD11/6057

January 19, 2012

Michael Cain
Office of Conservation and Coastal Lands
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii'i 96809

Re: Conservation District Use Application OA-3609
Verizon Wireless Telecommunications Facility Construction
Kāne'ohe, Island of O'ahu
Tax Map Key Parcel (1) 4-5-042:008

Aloha e Michael Cain,

The Office of Hawaiian Affairs (OHA) is in receipt of your December 13, 2011 request for comments on a Conservation District Use Application (CDUA) to support the construction of a telecommunications facility (project) proposed by Verizon Wireless (the applicant) in Kāne'ohe on the Island of O'ahu. The project will be constructed in a 600 square foot lease area situated within a larger tax map key parcel in the General Subzone of the State Land Use Conservation District. A thirty-foot high tower with twelve (12) panel antennas and a chain link fence to enclose the project area will be constructed. Six (6) equipment cabinets and an emergency generator will be installed. The project area has been previously disturbed and is currently utilized for material (soil and sand) storage to support the operations of the Ko'olau Golf Course. Electrical power will be provided via an existing overhead line.

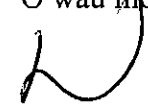
The State of Hawai'i Historic Preservation Officer has already conducted a National Historic Preservation Act-Section 106 review of this project and determined that no historic properties will be affected. The U.S. Fish and Wildlife Service has also reviewed this project and believes no federally listed or proposed species, or proposed or designated critical habitat occur within or near the project area.

OHA has no objections to seeing this CDUA move forward. Based on the information in your December 13, 2011 letter to the applicant's representative (RealCom Asscoaites, LLC), it is our understanding that the preparation of a draft environmental assessment (DEA) is required to support the CDUA. We look forward to seeing the DEA prepared as required.

Michael Cain
Office of Conservation and Coastal Lands
Department of Land and Natural Resources
January 19, 2012
Page 2 of 2

Thank you for providing an opportunity to provide comments. Should you have any questions or concerns, please contact Keola Lindsey at 594-0244 or keolal@oha.org.

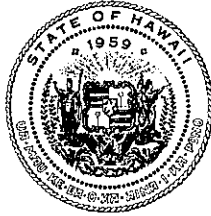
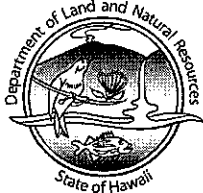
'O wau iho nō me ka 'oia'i'o,



Richard Pezzulo
Interim Chief Executive Officer

RP:kl

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

GUY H. KAULUKUKUI
FIRST DEPUTY

WILLIAM M. TAM
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
KAILOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

REF:OCCL:MC
FILE NO.: OA-3609

180-Day Expiration Date: May 30, 2012

Les Young
RealCom Associates LLC
1506 Ala Mahamoe Street
Honolulu, HI 96819

JAN 24 2012

Dear Mr. Young,

SUBJECT: END OF COMMENT PERIOD
Conservation District Use Application (CDUA) OA-3609
Verizon Telecommunications Tower
Ko'olau Golf Course, Kāne'ohe, Ko'olaupoko, O'ahu
(1) 4-5-042:008

This letter is regarding the Conservation District Use Application (CDUA) for the telecommunications tower on the above subject property. We have attached copies of the comments received at our office.

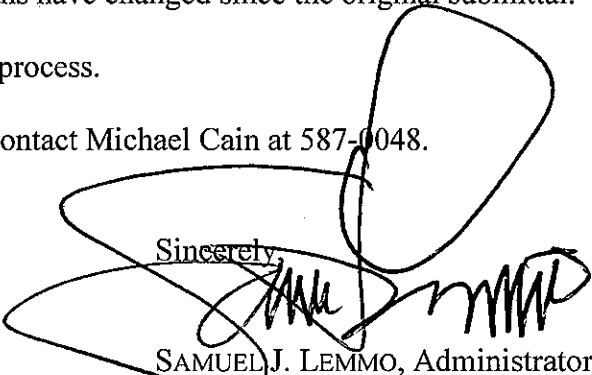
OCCL did not receive any substantial comments on the proposal, and will continue to process the application.

Please submit two hard copies and two digital copies of the Final EA. We also request that you submit a new project summary if the plans have changed since the original submittal.

Early response will expedite the review process.

Should you have any questions, please contact Michael Cain at 587-0048.

Sincerely,


SAMUEL J. LEMMO, Administrator
Office of Conservation and Coastal Lands



APPENDIX C

COMMUNITY CONSULTATION CORRESPONDENCE



SECTION 1

**Honolulu Star Bulletin Newspaper
Public Legal Notice**

AND

Kaneohe Neighborhood Board Meeting

IN THE MATTER OF
PUBLIC NOTICE TO NEWSPAPER
AND/OR RESIDENTS

)
)
)
) **AFFIDAVIT OF PUBLICATION**
)
)
)
)

STATE OF HAWAII)
) SS.
City and County of Honolulu)

Carrie Asuncion _____ being duly sworn,
deposes and says that she is a clerk, duly authorized to
execute this affidavit of MidWeek Printing, Inc., publisher
of MidWeek and the Honolulu Star-Bulletin, that said
newspapers are newspapers of general circulation in the
State of Hawaii, and that the attached notice is true notice
as was published in the aforementioned newspapers as
follows:

MidWeek _____ times on _____

Honolulu Star-Bulletin _____ 1 _____ times on _____
02/08/2006

And that affiant is not a party to or in any way interested in
the above entitled matter.

_____ *C. Asuncion* _____

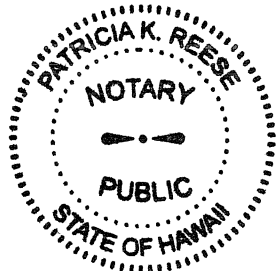
Subscribed to and sworn before me this 8th day
of February A.D. 20 06

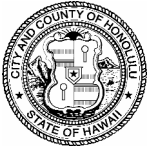
_____ *Patricia K. Reese* _____
Notary Public of the First Judicial Circuit
State of Hawaii

My commission expires October 07, 2006

Ad# 05521151

**PUBLIC NOTICE TO NEWSPAPER
AND/OR RESIDENTS**
Pursuant to FCC rules regarding reviews under
Section 106 of the National Historic Preservation
Act (NHPA), Verizon Wireless (VZW) is providing
notice of the proposed VZW Hawaiian Memorial
Cell Site (VZW Project ID #2004005294) located at
the Ko'olau Golf Club Maintenance Facility, 45-550
Kionaole Road (TMK: [1] 4-5-42; Parcel 1 [Portion]),
approximately 1/2-mile W/SW of the Kionaole Road
overpass that crosses the H-3 Freeway in
Kaneohe, Oahu, Hawaii (Lat/Long: 21.3783° N,
157.8003° W [WGS84/NAD83]). VZW proposes
installing a new 35-foot high steel monopole to the
NW of the maintenance complex above the H-3
Freeway, and mounting twelve, 8-foot high panel
antennas at the top. The finished height of the
antenna tips will be flush with the top of the tower at
35 feet AGL. A pre-fabricated equipment shelter will
also be installed at grade by the base of the
monopole, and the proposed facility will be secured
within a chain-link fenced enclosure. Proposed
construction activities will disturb the ground
surface for installation of the monopole, equipment
shelter, and underground utility lines. Interested
parties who wish to submit comments and/or
concerns regarding the potential for this project to
impact historic structures and/or cultural resources
may contact Douglas Oringer by mail at 970 N.
Kalaheo Avenue, Suite C-316, Kailua, Oahu,
Hawaii 96734, or by telephone at (808) 531-6708.
(SB05521151 2/8/06)





KANEOHE NEIGHBORHOOD BOARD NO. 30

c/o NEIGHBORHOOD COMMISSION • 530 SOUTH KING STREET ROOM 400 • HONOLULU, HAWAII, 96813
PHONE (808) 527-5749 • FAX (808) 527-5760 • INTERNET: <http://www.honolulu.gov>

REGULAR MEETING MINUTES THURSDAY, OCTOBER 19, 2006 WINDWARD COMMUNITY COLLEGE AKOAKOA HALE

CALL TO ORDER: Chair Roy Yanagihara called the meeting to order at 7:05 p.m., a quorum was present.

MEMBERS PRESENT: Rick Karasaki, Clyde Morita, Patty Yamashiro-Hironaka, John Sabas, Felipe San Nicolas, Wendell Lum, Roy Yanagihara, Paul Friel, John Flanigan, Glenn Ida, Larry Zdvoracek, Bill Sager. (12 of 17)

MEMBERS ABSENT: Niko Koga, Elizabeth Gaisthia, and L. C. Morris. (2 vacancies)

GUESTS: Thomas K. Perri, Dianne English, Harry Kumabe, Cynthia Chun (King Intermediate School, Principal), Derek Kimura, Ted Kanemori (Alii Shores Subdivision), Tammy and Ikaika Rodriguez, Annette Tashiro (WNSWCG), Major Janna Mizuo and Lt. Robert Robinson (Honolulu Police Department-District 4, Kaneohe), Ed Birdsong, Senator Clayton Hee, Captain Elliot Mattos (Honolulu Fire Department-Kaneohe), Jean Wallace, Representative Pono Chong, Les Young, Art Machado, Jr. (Kaneohe Christmas Parade), Lea Albert (Windward District Office- DOE), Justin Dotson (Honolulu Advertiser), Leve and Keala Watson, Scott Sunaoka (Hope Chapel-Kaneohe Bay), David Cramer, Nola J. Frank (Neighborhood Commission Office staff).

FILLING OF VACANCIES SUBDISTRICT 1 AND 11: There were no interested persons present to fill the vacancies.

APPROVAL OF SEPTEMBER 2006 Regular MEETING MINUTES – Flanigan moved and Zdvoracek seconded to approve the September regular meeting minutes as circulated. The motion carried unanimously, 9-0-0.

APPROVAL OF AUGUST AGENDA PLANNING AND COMMITTEES' MEETING MINUTES – No minutes were available.

TREASURER'S REPORT: Deferred.

7:10 Sabas arrived (10 members present).

PUBLIC SAFETY AND MILITARY REPORT:

Marine Corps Base Hawaii (MCBH)– Sarah Fry was unable to attend tonight's meeting; the monthly written report was available for interested persons to review.

PUBLIC INPUT AND RESIDENTS' CONCERNS:

Kaneohe Christmas Parade – Art Machado, Chairperson for the parade circulated a 2006 Kaneohe Christmas Parade entry form including parade information, and noted: the theme for this year's Christmas parade is "The Twelve Days of Christmas" which is schedule for Saturday, December 2, 2006. T-shirts are available for purchase and donations are welcomed. In past years the Honolulu Police Department participated at no charge. However, this year it would cost approximately \$3,000 to hire off-duty officers. The committee is currently seeking a waiver from Mayor Hannemann to have officers participate as a community service. The parade will include nine bands and various community organizations. They are looking for volunteers from community members to help out with this huge undertaking. Parade meetings are held on the last Wednesday of each month, and more frequently the closer we get to the parade date. For more information contact Art Machado at (B) 845-4111 or (H) 239-9003.

Questions, answers and comments: 1) Kaneohe Christmas Parade is the longest running parade in the state, and this year they are looking at having 5,000 participants. Chair Yanagihara added it has been a long-standing practice of the Board to assist. Machado offered the Chair a VIP car to ride in the parade. Chair asked if a letter in support of the



waiver to the Mayor would help. Machado answered yes. With no objections from the Board Chair Yanagihara will draft a letter to Mayor Hannemann.

Art Machado, Jr. was thanked for attending the meeting.

Kaneohe Bay Drive – Lum expressed a safety concern on the makai end of Kaneohe Bay Drive near Kawa Street next to the HECO substation where the road completed by the State Department of Transportation is very narrow. Photos were available for interested persons to review.

Questions and comments:

Chair inquired if the basic positioning road widening left enough room for ADA or regular pedestrians to walk. Lum replied there are only parallel lines on the roadway. The speed limit is 35 miles per hour, but drivers' speed. Chair added, due to funding could it be a possibility that the area was not included in the plans.

Chair asked how dangerous is the situation and how immediate should the project be revisited. Lum did not know the answer, but said he thinks the project was done by the previous administration He has recently started following the project although he does not live in Subdistrict 12. Chair added the next step would be to follow up with (DOT). Ida relayed he witnessed students going in the opposite direction near the end where vehicles have to merge left to get in the proper lane to go makai. Pedestrians are unaware that the cars merge. He offered to assist Lum on the matter. Lum added the opposite side of Kawa Stream has no sidewalk. This item will be placed on the November agenda for follow up.

7:26 p.m. Sager arrived (11 members present)

Kaneohe District Park Diving Boards – Leve Watson spoke in favor of resuming the community based springboard diving program at Kaneohe District Park. A brief history of the springboards used under the supervision of lifeguards was given. He is requesting board support not to remove the diving equipment and resume the program that had successfully met the recreational needs of the community. The issues have been addressed with the City Department of Parks and Recreation and Corporation Counsel since 1995. Handouts were available for interested persons to review.

Questions and comments:

Chair asked Les Chang, Director of the Department of Parks and Recreation, the timeframe the neighborhood board has if they want to take a position with regards to diving boards. Are there any set plans or dates for the removal of the diving boards? Chang responded there is more to the issue and discussion has been ongoing for several months. There are demands by others for usage of the pool and the decision will be made in-house. It was decided to move the diving boards to the designated Veterans Memorial Aquatic Center (specialized facility) at the Central O'ahu Regional Park. This item will be placed on the November agenda for board consideration.

Leve Watson was thanked for attending the meeting.

Po'ailani Facility on Pahia Street – David Cramer circulated three handouts and noted: The existing care home is a 30 to 50 beds facility. Po'ailani Inc. purchased the two and a half acre property in March 2006 and has done significant improvements to the property and existing homes adding value to the neighborhood. Concern was expressed to Senator Hogue about the Hawaii Revised Statutes criteria for care homes in residential areas and the Senator directed Cramer to the State Department of Health and the City Department of Planning and Permitting. Cramer stated if the statutes have no power, what power does the community have to prevent care homes from having as many beds as they want? He stated that care homes should be limited as to how many beds the facility can have.

Questions, answers and comments:

1. Chair asked if the questions of concern were posed to Senator Hogue. Cramer replied the Senator pointed him in the right direction but seemed to avoid the issue. There is a concerted effort by the City and State for care homes, by lifting the regulations in flood zones.

2. Chair mentioned that objections could be made to whatever changes to the flood elevation, concern for the patients relative to building without permits to standard. Cramer noted the house is located in the middle of the neighborhood with only one lane. He added 50 mentally and drug challenged in the neighborhood is too much.
3. Lum relayed that every parcel in Kaneohe is in a flood zone and owners must have flood insurance. Cramer replied the care home property boarders a floodway. Lum added more information is needed from the Department of Planning and Permitting and requirement when making the loan for purchase.
4. Chair explained that a lot of materials were distributed to digest tonight. Cramer was invited to attend the Agenda Planning and Committees' meeting on Tuesday, November 7, Kaneohe Community and Senior Center at 7 pm.

David Cramer was thanked for attending the meeting.

PUBLIC SAFETY AND MILITARY REPORTS:

Honolulu Police Department – Lt. Robinson reported the following:

1. The statistics have been consistent with a significant increase in hazardous driving (100).
2. Announced the Narcotics/Vice Division plans to attend neighborhood board meetings more frequently.
3. Follow up regarding staffing of the department – Police Chief Correa previously asked for 330 new positions; 260 for patrol; and assigned 15 new officers. Last year 113 officers graduated from the academy. There are approximately 151 on leave yearly (retirement, resignation, termination, military duty). For the entire department there are 2,108 authorized positions of which 1,894 are filled and 106 in training. There are 226 officers legible for retirement. An outside agency is currently auditing the patrol division.

Questions, answers and comments:

1. Relative to the earthquake no priority calls were taken and uneventful regarding crime. Additional staff was called in to assist. The issue of officers' cell phones down during the power outage will be addressed, which will be a good opportunity to evaluate procedures.
2. To report suspected drug activity it is advised to call the Narcotics/Vice Division, District 4 Crime Reduction Unit, or the State's Drug Abatement Unit. Investigations are ongoing and results are not reported until the case is closed. Calling 911 is inefficient because when suspects see officers' in uniform responding they usually leave.
3. With regards to landlord liability, according to the Drug Abatement Division the house could be confiscated.
4. Machado remarked that one of the key issues is to get the media involved. Lt. Robinson added is neighbors banning together in strength and starting a Neighborhood Security Watch.
5. Chair asked Major Mizuo and Lt. Robinson to stay for agenda item regarding the Alii Shores subdivision residents' concerns/King Intermediate School principal's response. They both agreed.

Honolulu Fire Department –Captain Mattos reported the following:

1. Statistics for the month of September 2006 included structure 1, rubbish 1, vehicle 2, medical 69 and miscellaneous 21.
2. Fire Safety Tip: When selecting Halloween costumes, ensure that they are flame-resistant, made of lightweight fabric, brightly colored, and clearly visible to motorists. Decorate costumes and bags with reflective tape. Keep the length of costumes short to prevent tripping. A natural mask of cosmetics is better than a mask that may restrict breathing or obscure vision. Children should carry flashlights to light their way.
3. The Honolulu Fire Department (HFD) would like to remind the community that the HFD provides assistance to the Honolulu Emergency Services Department (HESD) by responding cooperatively when the need for emergency care arises. Due to the HFD's 42 fire stations and the HESD's ambulance units, they are able to

respond expeditiously in a very short amount of time to provide quality patient care and protect the citizens of the City and County of Honolulu.

Captain Mattos was thanked for attending the meeting.

COMMUNITY ANNOUNCEMENTS: There were no community announcements.

ELECTED OFFICIALS' REPORTS:

Mayor's Representative – Les Chang, representing the Mayor's office, gave the following report:

1. Follow up – a) The brick wall located at Kamehameha Highway and Halekou Road was investigated by the building code inspector on October 17 and determined the wall was constructed with a building permit and is in accordance to the approved plans. The wall is within the property and no violation was noted. b) The request for a stoplight at the intersection of Kamehameha Highway and Halekou Road has been referred to the State Department of Transportation since the intersection is under their jurisdiction. c) In response to an inquiry if as to whether a residence on Halekou Road is a halfway house, the investigation revealed a two story, one-family detached dwelling and a one story, one-family detached dwelling on the property. Eight unrelated persons occupy the two-story dwelling at the front of the property and six unrelated persons occupy the one story dwelling to the rear of the property. A notice of violation was issued.
2. Mayor's Honolulu News highlights:
 - ❖ Team Aloha Basketball Team (12 women) received a plaque for winning the Nike Storm and Swish Fall Shootout tournament in Santa Barbara beating two California teams. The team was chosen by Hawaii sportswriters and is an outgrowth of the Basketball Jamboree that Mayor Hannemann has sponsored for the past 13 years. b) The High-Capacity Transit Corridor meeting is scheduled for Tuesday, October 24, 2006, 7:00 p.m. at Hee'ia Elementary School cafeteria. Everyone was encouraged to attend.
 - ❖ A Remembrance Walk was held on September 10 to mark the anniversary of the September 11, 2001, terrorists' attacks on America. Ceremonies were held at HPD's Alapai Station, Honolulu Fire Department headquarters, the Prince Kuhio Federal Building and Honolulu Hale. Mayor Hannemann this will make this an annual City event.
 - ❖ Leeward residents have praised the City for its campaign and cleanup of beaches on the Waianae Coast.
3. Kaneohe District Park Dive Boards – Relative to Mr. Watson's presentation about the removal of the diving boards from Kaneohe District Park to the Central O'ahu Regional Park, Chang said the issue is complicated and that the pool is heavily used by the community. Although not always convenient, there is a world class facility as the Central O'ahu Regional Park, and management would like to keep the Kaneohe District Park Pool as a community recreation pool for primary use. There are also liability issues.

Questions and comments:

1. Lum relayed he called Councilmember Barbara Marshall's office to rectify the point of the guardrails on Lilipuna Road, which he assumes is in the Capital Improvement Projects (CIP). He added that reflectors were installed going clockwise on the Coconut Island curve. Councilmember Marshall replied that new reflectors were put in. Lum gave Chang a copy of a letter dated April 2005 from Councilmember Marshall's office relative to the Kaneohe Highway Bridge rehabilitation. Follow up will be done.
2. The last update on the Haiku Stairs was between the Mayor and the Governor. There is no solid information to share, but other options are being considered.
3. San Nicolas again reported a strong odor (sewage smell) from a possible manhole located at the intersection of Kahekili Kamehameha Highway and Kamau Place. Follow up will be done.

4. Will the bus shelter from the old bus stop across from Star Market on Kamehameha Highway be moved to the new relocated bus stop? Follow up will be done.
5. Les Chang was thanked for all his follow up reports. It was noted now the State must be approached for their follow up reports.

Les Chang was thanked for attending the meeting.

Councilmember Barbara Marshall –Councilmember Marshall distributed her written report and gave the following report:

- 1) The bus stop across from Star Market on Kamehameha Highway has been relocated to Windward Mall. According to the Department of Transportation Services (DTS) more benches are to be put in this week and possible a shelter.
- 2) Absentee voting starts on Tuesday, October 24, 2006 at Windward Mall.
- 3) Included in the written report are few of the Charter Amendments on the ballot to be voted on that she feels strongly about.
- 4) The High-Capacity Transit presentation will be submitted to the City Council on November 1, 2006 for a decision. Scheduled hearing will be held starting November 20, 2006 at the Windward Community College. Council member Marshall will keep the board updated.
- 5) The next 3 Talk is scheduled for Wednesday, November 8, 2006, Waimanalo Public Library at 7 p.m.: Wednesday, December 6, 2006, Kaneohe Community & Senior Center at 7 p.m.

Questions, answers and comments:

- 1) Relative to the written report and the Charter Amendment and recommendation about the Salary Commission, Morita asked are they not an independent entity. In response, the Salary Commission is independent and gives recommendations.
- 2) Regarding the relocated bus stop on Kamehameha Highway, Lum informed the Councilmember that he walked the area and saw that a bench was installed. He wanted to know if the entire structure would be relocated. In answer, the elderly utilizes the bus stop and the shelter needs to be replaced. Follow up will be done.
- 3) Sabas thanked the Councilmember for stating her positions on the Charter Amendments. He asked if there was an update regarding the Kamehameha School issue. Councilmember Marshall replied she is awaiting an answer from Corporation Counsel.
- 4) Morita noted that the Councilmember had no opinion regarding Charter Amendments 1 and 2. In answer, Councilmember Marshall said she had no strong opinion and it is a personal decision. She explained concerns relative to redistricting every two years, which could affect more voters.

Councilmember Barbara Marshall was thanked for attending the meeting.

Governor's Representative – Kathy Thomason and Scott Ishikawa were unable to attend tonight's meeting; the Governor's Update was available for interested persons to review. Chair Yanagihara stated the board would like to have a representative from the State Department of Transportation (SDOT) attend future board meetings to address issues such as the walkway near Castle High School and the request for a stoplight at the intersection of Kamehameha Highway and Halekou Road. He added that some months back the board was promised that a representative from SDOT would return to board meetings with updates. Thus far no one has showed up.

U.S. Congressman Ed Case – No representative present.

Senator BOB Hogue – No representative present.

Senator Clayton Hee – Senator Hee mentioned that board issues are City issues. The board was encouraged to submit resolutions to assist district legislators with potential legislation for upcoming legislature session.

For efficiency, it was recommended complaints regarding traffic lights are emailed to his office, and he will receive the responses directly and the response would be relayed to the community.

Questions, answers and comments:

1. Resolutions not addressed when submitted the first time can be reintroduced the second year.
2. Relative to the concern about the care home on Pahia Street, amending the existing law would not help because the other party could be grand-fathered in. The concern to the City Department of Planning and Permitting (DPP) should be the flood zone. It was suggested that the State Department of Health might be of assistance.

Senator Clayton Hee was thanked for attending the meeting.

Representative Ken Ito – No representative present

Representative Pono Chong – Representative reported on follow up issues:

- A letter was sent to the Kokokahi Drive residents.
- The Lilipuna/Waikalua Streets sidewalk issue: According to the federal law the DOT must be aware of available funding, hire a coordinator, and then proceed with the project. Chair stated that the board would like an update from DOT at the November meeting.

Questions, answers and comments: Regarding the Lilipuna/Waikalua sidewalk issue, once the project coordinator is hired the funding will be looked at, the City makes a request to DOT who then requests the release of the money from the Governor.

Representative Pono Chong was thanked for attending the meeting.

COMMUNITY GROUPS AND ORGANIZATIONS:

Hawaii Pacific University – No representative was present. Chair asked that this item be removed from future agendas.

Hope Chapel – Scott Sunaoka reported letters of thanks were received from students who benefited from the school drive, with donations still being accepted. Hope Chapel plans to make the school drive an annual event. Approximately 100 members from the congregation are in Iraq. Several months ago cookies were sent to the soldiers from the church. Care packages will be sent to the soldiers from Christmas. Chair Yanagihara thanked Suneoka and Hope Chapel for the good work they are doing in the community.

Scott Sunaoka was thanked for attending the meeting.

UNFINISHED BUSINESS:

Kokokahi Place Peter Cooper Property Follow up – Ed Birdsong (spokesperson for Pohai Nani and the Kokokahi Community Association) gave the following update:

Concerns previously expressed were zoning, easement, and drainage, with continued work to resolve the issues. A Draft Environmental Assessment (DEIS) is being prepared. A call to the Department of Planning and Permitting informed him that no activity on the 56 acres is in process at this time. To his understanding the R-10 property has been sold for the development of condominium units. Abutting owners continue to be contacted. Requested to be placed on the November agenda with an updated report.

Questions, answers and comments:

1. Chair mentioned to his understanding there has been no follow up from the Department of Land and Natural Resources (DLNR). Birdsong said he did not know for certain, but the DLNR Board may meet in December or January.
2. Lum noted the 30 days has passed if the DEIS is being worked on. In answer, the deadline was September 22, 2006, but extended until November 1 for responses.
3. Property owner Peter Cooper with the following: He owns the 56 acres of property; the Draft EIS is specifically for the acreage; received a permit in 1980 for a road and grading; the original house burned down six years ago; the Conditional Use Permit (CUP) came with the property he inherited. He stated he is not developing the hillside. The Preservation-1 section of the property is in the process for a barn and a few more horses.
4. Chair mentioned the issue is the Condominium Property Regime (CPR) action. Cooper replied the property has a split residential zone (R-10) one house on the left the other on the right. He receives two separate property tax bills.
5. Chair asked if the CPR allows the right to build multiple complexes. The response was there are two buildings, one zoned R-10 and one where the previous house was. It is allowed by law to construct another house (R-10) where the previous one burned down and Cooper stated he is not asking for more.
6. Zdvoracek remarked he does not understand the condominium process. In answer, according to the law one cannot build more than is allowed. The CPR allows one TMK and two condominium units on the lot; the CPR does not increase density.
7. Birdsong inquired how is it that Cooper is receiving two tax bills but has only one TMK because of different zoning on the property. Birdsong agreed with what Cooper was explaining and noted details would be worked out. The issue is the property for sale. The board was asked to assist because what Cooper mentioned would be passed on to the new property owner.
8. Cooper added the final Environmental Assessment binds the development to the property, could possible change the process repeated.
9. This item will be placed on the November agenda for an updated report.

Ed Birdsong and Peter Cooper were thanked for attending the meeting.

Ali'i Shores Subdivision Residents' Concern – King Intermediate School Principal Response – Chair recapped that last month the problem was brought to the board by Ali'i Shores subdivision residents and circulated handouts.

King Intermediate School Principal Cynthia Chun circulated and read a letter of response to the Board members relative to concerns expressed by the Ali'i Shores subdivision residents about student behavior and attitudes off campus. The school will continue to promote positive behaviors to the students and good relationships with the neighbors. The disrespectful actions of a few students should not be considered the norm for the rest of the school. The staff continues to seek ways to improve the education offered to the students who are part of the community and have a right to walk through any public street safely. Thoughtful suggestions and ideas are appreciated. Chun added if a fight occurs off campus the school would still like to be notified.

Ted Kanemori, Ali'i Shores Neighborhood Security Watch update – A meeting took place on October 16, 2006 with the Police Department, King Intermediate School principal Cynthia Chun, Windward Complex Area Superintendent Lea Albert, Representative Pono Chong and Ali'i Shores residents. Items of discussion were jaywalking, criminal property damage, fighting, loitering, and drugs. Assistance was asked for in the following areas: jaywalking, consequences for unaccepted behavior off campus, slowing of cars (after school) near Kamehameha Highway and Hee'ia Street not yielding to students in crosswalk, effective way of rules to reach students, better control of school dances (suggested day dances rather than night). During an HPD discussion the matter was brought up of girls leaving the school dance early walking around in the dark unescorted.

Per Cynthia Chun if a fight occurs off campus the school would still like to be notified.

Questions, answers and comments:

1. Sager commented it seems expected if a student is misbehaving off campus the school should be notified. Kanemori responded, the Citizens Patrol sign waves with HPD and are not confrontational. They are only there to observe. Sager added it seems difficult to identify the troublemaker.
2. Principal Chun relayed that the school's yearbook is in color and sometimes used to identify students. however hard that may be.
3. Sager added the small problems must be corrected before addressing the bigger problems.
4. Kanemori stated the fact of the matter is that kids know right from wrong and reiterated to have a police officer speak with the student at the beginning of the school year regarding rules, regulations, consequences, etc.
5. Chair commented that the Neighborhood Security Watch (NSW) could be adult figures for the students.
6. Lt. Robinson voiced it is good to hear that the community and school is working together.
7. Major Mizuo relayed that the NSW does make a difference. Unfortunately things can or cannot change. Everything starts from the home where kids are taught to be neighborly and respectful. Principal Chun was commended for doing a good job.
8. Chair noted he is glad the problem is being worked through and would keep this item on the agenda for updates.
9. Principal Chun distributed a DVD for interested persons to review.

Principal Cynthia Chun and Ted Kanemori were thanked for attending the meeting. Lt. Robinson and Major Mizuo were thanked for staying for this agenda item.

Haiku Stairs Update – No report.

NEW BUSINESS:

Verizon Repeater Antenna Installation (no formal presentation, written comments accepted) – Chair announced that written comments would be accepted, but the board is taking no position on the matter.

Citizen of the Year Nominations – This item has been deferred until the December meeting.

COMMITTEE REPORTS: Committee reports were deferred.

ANNOUNCEMENTS: Discussion ensued relative to the next Planning & Committees' meeting scheduled for November 7, 2006, which is Election Day. **Flanigan moved and seconded by Zdvoracek to move the meeting to Wednesday, November 8, 2006 to McDonalds. The motion carried unanimously.**

- ❖ The next agenda Planning & Committees' Meeting will be held on Wednesday, November 8, 2006, McDonald's by Castle High School, at 7:00 p.m.
- ❖ The next Regular Board Meeting will take place at the Windward Community College Akoakoa Room on Thursday, November 16, 2006, at 7:00 p.m.

ADJOURNMENT – The meeting was adjourned at 9:55 p.m.

Submitted by,
Nola J. Frank, Neighborhood Assistant
Reviewed by,
Chair Roy Yanagihara
Secretary, Patty Yamashiro-Hironaka



SECTION 2

Landowner

AND

Neighboring Landowners

Christine Yott/USA/VERITAS
09/17/2007 02:08 PM

To Katie Garst/USA/VERITAS@VERITAS
cc
bcc
Subject Fw: Info Requested from FPC
Ref



Christine Yott
Staff Consultant, Honolulu Regional Office
Bureau Veritas North America, Inc.
Health, Safety, and Environmental Services
970 N. Kalaheo Ave., Suite C-316, Kailua, HI 96734
p: 808.531.6708 x17, c: 808.479.3456, f: 808.537.4084
christine.yott@us.bureauveritas.com
www.us.bureauveritas.com

----- Forwarded by Christine Yott/USA/VERITAS on 09/17/2007 02:08 PM -----



Moe <moe@fpchawaii.org>

09/17/2007 02:05 PM

To Christine Yott/USA/VERITAS@VERITAS
cc
Subject Info Requested from FPC

Aloha Christine,

First Presbyterian Church of Honolulu is in receipt of your Project No. 17005-005348.00 Report dated Sept. 14, 2007, received in today's mail, Monday, Sept. 17, 2007.

Ron Mathieu, Executive Director, is away in Europe until October 2, 2007.

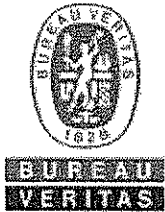
I will call this matter to his attention upon his return.

Sincerely,

Moe Hinkforth
Administrative Dept. Asst.
First Presbyterian Church of Honolulu
(808) 532-1114

Christine Yott/USA/VERITAS
09/21/2007 11:34 AM

To Katie Garst/USA/VERITAS@VERITAS
cc
bcc
Subject Fw: Project:17005-005348.00
Ref



Christine Yott
Staff Consultant, Honolulu Regional Office
Bureau Veritas North America, Inc.
Health, Safety, and Environmental Services
970 N. Kalaheo Ave., Suite C-316, Kailua, HI 96734
p: 808.531.6708 x17, c: 808.479.3456, f: 808.537.4084
christine.yott@us.bureauveritas.com
www.us.bureauveritas.com

----- Forwarded by Christine Yott/USA/VERITAS on 09/21/2007 11:34 AM -----

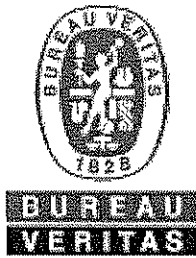


"Dorothy Inouye"
<dinouye@hpu.edu>
09/21/2007 11:25 AM

To Christine Yott/USA/VERITAS@VERITAS
cc "Steve I. Hendricks" <shendricks@hpu.edu>
Subject Project:17005-005348.00

After reviewing the Bureau Veritas, dated September 14, 2007, concerning the proposed Verizon Wireless Hawaiian Memorial Cell Site, Hawai'i Pacific University, determines that the project will not have any impact at the windward Hawai'i Loa campus. Please let me know if you require additional information. Thank you.

Dorothy T. Inouye
Administrative Assistant to the
Vice President
Administration
Hawai'i Pacific University
45-045 Kamehameha Highway
Kaneohe, Hawai'i 96744
Telephone: (808)236-3581
Facsimile: (808)236-3522
Email: dinouye@hpu.edu



September 14, 2007

First Presbyterian Church
45-550 Kionaole Road
Kaneohe, Oahu, Hawaii 96744

Project No. 17005-005348.00

Subject: Landowners Consultation for Proposed Verizon Wireless (VZW) HON Hawaiian Memorial Cell Site (VZW Project ID #2004005293), located at Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road (Portion of Tax Map Key [TMK] No.: [1] 4-3-005: Parcel 069), Kaneohe, Oahu, Hawaii 96744

Dear sir or madame:

Bureau Veritas North America, Inc. (Bureau Veritas) has been retained by Verizon Wireless to conduct a site evaluation for the Federal Communications Commission (FCC) of the above-reference proposed cellular wireless telecommunications project.

Pursuant to FCC rules regarding review under the National Environmental Policy Act (NEPA), we are contacting you for information with regards to any potential environmental, historical, or cultural impacts the proposed wireless telecommunications facility may have on immediate or directly adjacent properties. The proposed cell site is to be located on your property.

Project Description

The subject parcel, currently owned by the First Presbyterian Church, is an irregular-shaped property containing 219.815 acres of land area in a rural setting below the Ko'olau Mountain Range on the Windward side of the island of Oahu, approximately ½ mile west/southwest of the Kionaole Road overpass that crosses the H-3 Freeway in Kaneohe, Oahu, Hawaii.

The subject parcel contains the Ko'olau Clubhouse and associated facilities in the central portion, a maintenance facility on the central-northern border, and the golf course links in the surrounding portions. The Ko'olau Golf Club grounds are bordered to the north by the H-3 Freeway, to the south by the Ko'olau Mountain Range, to the east by Kionaole Road, and to the west by Forest Reserve lands bordering the Ko'olau Range.

The subject property, identified as the VZW HON Hawaiian Memorial cell site, comprises an approximately 20- by 30-foot (600 square foot) lease area located along the central-northern fenceline of the subject parcel, bordering the H-3 Freeway (Figures 1 and 2, *Figures* tab). At the time of Bureau Veritas' site visit, the subject property occupied an undeveloped clearing to the northwest of the maintenance facility, overlooking the embankment that forms the freeway setback. The ground cover of the proposed project site consisted of exposed soil bordered by dense, low-lying vegetation, bushes and trees to the north and west, and an asphalt-paved roadway to the south and east.

Based on observations during the site visit, the following information was ascertained:

Bureau Veritas North America, Inc.

970 North Kalanooa Avenue Suite C-316

Kaunua, HI 96734

Main: (808) 531.6708

Fax: (808) 537.4084

www.us.bureauveritas.com



First Presbyterian Church
January 21, 2008

Page 2
Project No. 17007-007457.00

- Hawaiian Electric Company (HECO) maintains a utility pole with three pole-mounted electrical transformers at the northeast corner of the maintenance facility.
- The City and County of Honolulu, Board of Water Supply (BWS) provides county water and sewer services to the subject parcel.

The planned short-term use for the subject parcel is continued operation as a Golf Club with development of the VZW HON Hawaiian Memorial Cell Site on the subject property.

According to Verizon Wireless, the proposed action involves installing a new 30-foot high, self-supporting steel monopole to the northwest of the maintenance facility, along the northern fenceline that separates the Golf Club parcel from the H-3 Freeway, and mounting twelve, 8-foot high panel antennas at the top. A 12- by 26-foot (312-square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600square foot) fenced enclosure.

Construction activities will have a minor impact to the ground surface. Figures showing the location and design of the proposed cell site, as well as recent photographs of the site, are included as attachments.

Recent History

Review of reasonably ascertainable historical records has established the ownership of the subject parcel/property since 1848. According to the Final Environmental Impact Statement (EIS) Report for the Ko'olau Golf Club project, *"during the Great Mahele of 1848, Queen Kalama, wife of King Kamehameha III, was awarded title to the ahupua'a of Kaneohe and Kailua. In 1867, the Queen and C.C. Harris established the Kaneohe Plantation to raise sugarcane. However, due to the irregular topography, it is unlikely that the subject parcel/property was used for sugarcane production. After the Queen's death in 1870, C.C. Harris purchased the lands from the heir, Charles Kanaina, and upon Harris' death in 1881, his daughter, Nannie R. Rice, inherited his lands. In 1917, Harold K. L. Castle purchased the land from Mrs. Rice."* [page 7].

From 1900 to 1930, numerous small farms plots were reportedly leased throughout the area, most of which fronted the Old Pali Road (now Kionaole Road). According to a historical land use map contained in the Final EIS report, the region of the subject property (proposed project site) was utilized as animal pasture from the 1920s through the 1950s. Available tax assessment records confirm that the land was leased to Kaneohe Ranch Co., Ltd. in the 1930s and subleased to Hygienic Dairy, Ltd. for grazing dairy cattle by 1955. In 1974, upon the death of H. K. L. Castle, his estate donated several pieces of land, including the subject parcel, to Iolani School. In 1987, Iolani School sold the subject parcel to the Minami Group (USA) Inc. In 1998, Ko'olau Golf Partners LLC acquired the subject parcel and in 2006, the subject parcel was sold to the First Presbyterian Church.

Historic topographic maps dating from 1941 to 1983 and aerial photographs dated 1965 and 1978 depicted the area of the subject property as undeveloped land covered with dense vegetation. According to Ko'olau Golf Club personnel, the maintenance facility adjoining the subject property (proposed VZW project site) was built in 1989. Based on website sources, construction of the Ko'olau Golf Club was originally completed in 1991.



First Presbyterian Church
January 21, 2008

Page 3
Project No. 17007-007457.00

Information Request

Attached for your review, records and consideration as part of this request are (1) figures and construction drawings of the proposed VZW project site and (2) recent photographs taken at the proposed site.

Per FCC NEPA review process guidelines, please provide *written* documentation as to whether or not the proposed action has the potential to impact the immediate area within 30 days, either to the address shown on the first page, via fax at 808.537.4084, or by email at christine.yott@us.bureauveritas.com.

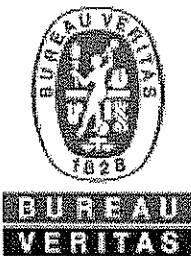
If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

Regards,

Christine Yott
Staff Consultant
Bureau Veritas North America, Inc.

/cy

Attachments: 1) VZW HON Hawaiian Memorial Cell Site Figures and Construction Drawings
2) VZW HON Hawaiian Memorial Cell Site Photographs



Second Notice

December 14, 2007

First Presbyterian Church
45-550 Kionaole Road
Kaneohe, Oahu, Hawaii 96744

Project No. 17005-005348.00

Subject: Landowners Consultation for Proposed Verizon Wireless (VZW) HON Hawaiian Memorial Cell Site (VZW Project ID #2004005293), located at Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road (Portion of Tax Map Key [TMK] No.: [1] 4-3-005: Parcel 069), Kaneohe, Oahu, Hawaii 96744

Dear Sir or Madame:

Bureau Veritas North America, Inc. (Bureau Veritas) has been retained by Verizon Wireless to conduct a site evaluation for the Federal Communications Commission (FCC) of the above-reference proposed cellular wireless telecommunications project.

Pursuant to FCC rules regarding review under the National Environmental Policy Act (NEPA), we are contacting you for information with regards to any potential environmental, historical, or cultural impacts the proposed wireless telecommunications facility may have on immediate or directly adjacent properties. The proposed cell site is to be located on your property.

Project Description

The subject parcel, currently owned by the First Presbyterian Church, is an irregular-shaped property containing 219.815 acres of land area in a rural setting below the Ko'olau Mountain Range on the Windward side of the island of Oahu, approximately ½ mile west/southwest of the Kionaole Road overpass that crosses the H-3 Freeway in Kaneohe, Oahu, Hawaii.

The subject parcel contains the Ko'olau Clubhouse and associated facilities in the central portion, a maintenance facility on the central-northern border, and the golf course links in the surrounding portions. The Ko'olau Golf Club grounds are bordered to the north by the H-3 Freeway, to the south by the Ko'olau Mountain Range, to the east by Kionaole Road, and to the west by Forest Reserve lands bordering the Ko'olau Range.

The subject property, identified as the VZW HON Hawaiian Memorial cell site, comprises an approximately 20- by 30-foot (600 square foot) lease area located along the central-northern fenceline of the subject parcel, bordering the H-3 Freeway (Figures 1 and 2, *Figures* tab). At the time of Bureau Veritas' site visit, the subject property occupied an undeveloped clearing to the northwest of the maintenance facility, overlooking the embankment that forms the freeway setback. The ground cover of the proposed project site consisted of exposed soil bordered by dense, low-lying vegetation, bushes and trees to the north and west, and an asphalt-paved roadway to the south and east.

Bureau Veritas North America, Inc.

970 North Kalahan Avenue Suite C-316

Kaunua, HI 96734

Main: (808) 531.6708

Fax: (808) 537.4084

www.us.bureauveritas.com



First Presbyterian Church
January 21, 2008

Page 2
Project No. 17007-007457.00

Based on observations during the site visit, the following information was ascertained:

- Hawaiian Electric Company (HECO) maintains a utility pole with three pole-mounted electrical transformers at the northeast corner of the maintenance facility.
- The City and County of Honolulu, Board of Water Supply (BWS) provides county water and sewer services to the subject parcel.

The planned short-term use for the subject parcel is continued operation as a Golf Club with development of the VZW HON Hawaiian Memorial Cell Site on the subject property.

According to Verizon Wireless, the proposed action involves installing a new 30-foot high, self-supporting steel monopole to the northwest of the maintenance facility, along the northern fenceline that separates the Golf Club parcel from the H-3 Freeway, and mounting twelve, 8-foot high panel antennas at the top. A 12- by 26-foot (312-square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600square foot) fenced enclosure.

Construction activities will have a minor impact to the ground surface. Figures showing the location and design of the proposed cell site, as well as recent photographs of the site, are included as attachments.

Recent History

Review of reasonably ascertainable historical records has established the ownership of the subject parcel/property since 1848. According to the Final Environmental Impact Statement (EIS) Report for the Ko'olau Golf Club project, *"during the Great Mahele of 1848, Queen Kalama, wife of King Kamehameha III, was awarded title to the ahupua'a of Kaneohe and Kailua. In 1867, the Queen and C.C. Harris established the Kaneohe Plantation to raise sugarcane. However, due to the irregular topography, it is unlikely that the subject parcel/property was used for sugarcane production. After the Queen's death in 1870, C.C. Harris purchased the lands from the heir, Charles Kanaina, and upon Harris' death in 1881, his daughter, Nannie R. Rice, inherited his lands. In 1917, Harold K. L. Castle purchased the land from Mrs. Rice."* [page 7].

From 1900 to 1930, numerous small farms plots were reportedly leased throughout the area, most of which fronted the Old Pali Road (now Kionaole Road). According to a historical land use map contained in the Final EIS report, the region of the subject property (proposed project site) was utilized as animal pasture from the 1920s through the 1950s. Available tax assessment records confirm that the land was leased to Kaneohe Ranch Co., Ltd. in the 1930s and subleased to Hygienic Dairy, Ltd. for grazing dairy cattle by 1955. In 1974, upon the death of H. K. L. Castle, his estate donated several pieces of land, including the subject parcel, to Iolani School. In 1987, Iolani School sold the subject parcel to the Minami Group (USA) Inc. In 1998, Ko'olau Golf Partners LLC acquired the subject parcel and in 2006, the subject parcel was sold to the First Presbyterian Church.

Historic topographic maps dating from 1941 to 1983 and aerial photographs dated 1965 and 1978 depicted the area of the subject property as undeveloped land covered with dense vegetation. According to Ko'olau Golf Club personnel, the maintenance facility adjoining the subject property (proposed VZW project site) was built in 1989. Based on website sources, construction of the Ko'olau Golf Club was originally completed in 1991.



First Presbyterian Church
January 21, 2008

Page 3
Project No. 17007-007457.00

Information Request

Attached for your review, records and consideration as part of this request are (1) figures and construction drawings of the proposed VZW project site and (2) recent photographs taken at the proposed site.

Per FCC NEPA review process guidelines, please provide *written* documentation as to whether or not the proposed action has the potential to impact the immediate area within 30 days, either to the address shown on the first page, via fax at 808.537.4084, or by email at christine.yott@us.bureauveritas.com.

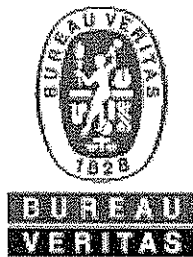
If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

Regards,

Christine Yott
Staff Consultant
Bureau Veritas North America, Inc.

/cy

Attachments: 1) VZW HON Hawaiian Memorial Cell Site Figures
2) VZW HON Hawaiian Memorial Cell Site Photographs



September 14, 2007

HAWAIIAN ELECTRIC COMPANY
900 Richards Street
Honolulu, Hawaii 96813

Project No. 17005-005348.00

Subject: Neighboring Landowners Consultation for Proposed Verizon Wireless (VZW) HON Hawaiian Memorial Cell Site (VZW Project ID #2004005293), located at Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road (Portion of Tax Map Key [TMK] No.: [1] 4-3-005: Parcel 069), Kaneohe, Oahu, Hawaii 96744

Dear Sir or Madame:

Bureau Veritas North America, Inc. (Bureau Veritas) has been retained by Verizon Wireless to conduct a site evaluation for the Federal Communications Commission (FCC) of the above-reference proposed cellular wireless telecommunications project.

Pursuant to FCC rules regarding review under the National Environmental Policy Act (NEPA), we are contacting you for information with regards to any potential environmental, historical, or cultural impacts the proposed wireless telecommunications facility may have on immediate or directly adjacent properties. The parcel where the proposed cell site is to be located is northeast of your property.

Project Description

The subject parcel, currently owned by the First Presbyterian Church, is an irregular-shaped property containing 219.815 acres of land area in a rural setting below the Ko'olau Mountain Range on the Windward side of the island of Oahu, approximately ½ mile west/southwest of the Kionaole Road overpass that crosses the H-3 Freeway in Kaneohe, Oahu, Hawaii.

The subject parcel contains the Ko'olau Clubhouse and associated facilities in the central portion, a maintenance facility on the central-northern border, and the golf course links in the surrounding portions. The Ko'olau Golf Club grounds are bordered to the north by the H-3 Freeway, to the south by the Ko'olau Mountain Range, to the east by Kionaole Road, and to the west by Forest Reserve lands bordering the Ko'olau Range.

The subject property, identified as the VZW HON Hawaiian Memorial cell site, comprises an approximately 20- by 30-foot (600 square foot) lease area located along the central-northern fenceline of the subject parcel, bordering the H-3 Freeway (Figures 1 and 2, *Figures* tab). At the time of Bureau Veritas' site visit, the subject property occupied an undeveloped clearing to the northwest of the maintenance facility, overlooking the embankment that forms the freeway setback. The ground cover of the proposed project site consisted of exposed soil bordered by dense, low-lying vegetation, bushes and trees to the north and west, and an asphalt-paved roadway to the south and east.

Based on observations during the site visit, the following information was ascertained:

Bureau Veritas North America, Inc.

970 North Kalaniana'olaha Avenue Suite C-316

Kaunua, HI 96734

Main: (808) 531.6708

Fax: (808) 537.4084

www.us.bureauveritas.com



- Hawaiian Electric Company (HECO) maintains a utility pole with three pole-mounted electrical transformers at the northeast corner of the maintenance facility.
- The City and County of Honolulu, Board of Water Supply (BWS) provides county water and sewer services to the subject parcel.

The planned short-term use for the subject parcel is continued operation as a Golf Club with development of the VZW HON Hawaiian Memorial Cell Site on the subject property.

According to Verizon Wireless, the proposed action involves installing a new 30-foot high, self-supporting steel monopole to the northwest of the maintenance facility, along the northern fenceline that separates the Golf Club parcel from the H-3 Freeway, and mounting twelve, 8-foot high panel antennas at the top. A 12- by 26-foot (312-square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600square foot) fenced enclosure.

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From 1900 to 1930, numerous small farms plots were reportedly leased throughout the area, most of which fronted the Old Pali Road (now Kionaole Road). According to a historical land use map contained in the Final EIS report, the region of the subject property (proposed project site) was utilized as animal pasture from the 1920s through the 1950s. Available tax assessment records confirm that the land was leased to Kaneohe Ranch Co., Ltd. in the 1930s and subleased to Hygienic Dairy, Ltd. for grazing dairy cattle by 1955. In 1974, upon the death of H. K. L. Castle, his estate donated several pieces of land, including the subject parcel, to Iolani School. In 1987, Iolani School sold the subject parcel to the Minami Group (USA) Inc. In 1998, Ko'olau Golf Partners LLC acquired the subject parcel and in 2006, the subject parcel was sold to the First Presbyterian Church.

Historic topographic maps dating from 1941 to 1983 and aerial photographs dated 1965 and 1978 depicted the area of the subject property as undeveloped land covered with dense vegetation. According to Ko'olau Golf Club personnel, the maintenance facility adjoining the subject property (proposed VZW project site) was built in 1989. Based on website sources, construction of the Ko'olau Golf Club was originally completed in 1991.



HECO
January 21, 2008

Page 3
Project No. 17005-005348.00

Information Request

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Per FCC NEPA review process guidelines, please provide *written* documentation as to whether or not the proposed action has the potential to impact the immediate area within 30 days, either to the address shown on the first page, via fax at 808.537.4084, or by email at christine.yott@us.bureauveritas.com.

If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

Regards,

Katie Garst
Environmental Consultant
Bureau Veritas North America, Inc.

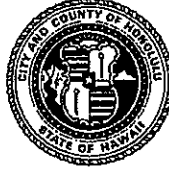
/kg

Attachments: 1) VZW HON Hawaiian Memorial Cell Site Figures
2) VZW HON Hawaiian Memorial Cell Site Photographs

DEPARTMENT OF PARKS AND RECREATION
CITY AND COUNTY OF HONOLULU

KAPOLEI HALE, 1000 ULUOHIA STREET, STE. 309 • KAPOLEI, HAWAII 96707
Phone: (808) 768-3003 • FAX: 768-3053 • Internet: www.honolulu.gov

MUFI HANNEMANN
MAYOR



LESTER K. C. CHANG
DIRECTOR

DANA L. TAKAHARA-DIAS
DEPUTY DIRECTOR

December 28, 2007

Ms. Katie Garst
Environmental Consultant
Bureau Veritas
970 North Kalaheo Avenue C-316
Kailua, Hawaii 96734

Dear Ms. Garst:


Subject: Proposed Verizon Wireless Cell Site located at Koolau Golf Club
Maintenance Facility

Thank you for the neighboring landowner consultation regarding the proposed
Verizon Wireless HON Hawaiian Memorial Cell Site located at Koolau Golf Club.

The Department of Parks and Recreation has no concerns or comments on the
construction of the proposed cell site and as the proposed improvements will not
impact any program or facility of the department, you are invited to remove us as a
consulted party to the balance of the EIS process.

Should you have any questions, please contact Mr. John Reid, Planner, at
768-3017.

Sincerely,


LESTER K. C. CHANG
Director

LKCC:mk
(236662)

Christine Yott/USA/VERITAS
09/21/2007 11:34 AM

To Katie Garst/USA/VERITAS@VERITAS
cc
bcc
Subject Fw: Project:17005-005348.00
Ref



Christine Yott
Staff Consultant, Honolulu Regional Office
Bureau Veritas North America, Inc.
Health, Safety, and Environmental Services
970 N. Kalaheo Ave., Suite C-316, Kailua, HI 96734
p: 808.531.6708 x17, c: 808.479.3456, f: 808.537.4084
christine.yott@us.bureauveritas.com
www.us.bureauveritas.com

----- Forwarded by Christine Yott/USA/VERITAS on 09/21/2007 11:34 AM -----



"Dorothy Inouye"
<dinouye@hpu.edu>
09/21/2007 11:25 AM

To Christine Yott/USA/VERITAS@VERITAS
cc "Steve I. Hendricks" <shendricks@hpu.edu>
Subject Project:17005-005348.00

After reviewing the Bureau Veritas, dated September 14, 2007, concerning the proposed Verizon Wireless Hawaiian Memorial Cell Site, Hawai'i Pacific University, determines that the project will not have any impact at the windward Hawai'i Loa campus. Please let me know if you require additional information. Thank you.

Dorothy T. Inouye
Administrative Assistant to the
Vice President
Administration
Hawai'i Pacific University
45-045 Kamehameha Highway
Kaneohe, Hawai'i 96744
Telephone: (808)236-3581
Facsimile: (808)236-3522
Email: dinouye@hpu.edu

RECEIVED
2/14/08

EIS



January 30, 2008

Ms. Katie Garst, Env. Consultant
Bureau Veritas North America, Inc.
970 Kalaheo Avenue - Suite C-316
Kailua, Hawaii 96734

Dear Ms. Garst:

**Re: ESA for Neighboring Landowners
Proposed Verizon Wireless HON Hawaiian
Memorial Cell Site (VZW Project #2004005293)
Ko'olau Golf Club Maintenance Facility
Kaneohe, Oahu (TMK 4-3-005: Parcel 069)**

Your inquiry was forwarded for review by various departments of Hawaiian Electric Company, Inc. and was recently completed. We apologize for the lateness of our response. The following comments were received from our Engineering and Construction & Maintenance Departments:

- (1) Engineering/Project Management (Kerstan Wong, 543-7059). If HECO's existing facilities in the project area require relocation and/or new facilities need to be built to serve this project, please include a brief description and environmental analysis of such requirements.
- (2) Construction & Maintenance (Paul Nakagawa, 543-7062). HECO will require continued access to our existing facilities within the subject property for operation and maintenance purposes, as covered by existing easements. Should any relocation or addition of facilities become necessary, additional easements may need to be negotiated.

Thank you for your inquiry and your efforts to keep us apprised. As the project plans progress, please continue to keep us informed. We will be better able to evaluate any effects on our system facilities further along in the project's development. We request that development plans show all affected HECO facilities and address any conflicts between the proposed plans and HECO's existing facilities. Please forward the pre-final development plans to HECO for review.

Ms. Katie Garst
January 30, 2008
Page Two

Should it become necessary to relocate HECO's facilities, appropriate and timely coordination should be conducted through HECO's Engineering Department. Please submit a request in writing and we will work with you so that construction of the project may proceed as smoothly as possible. A brief description and environmental analysis of any requirements for relocation or new facilities should be included in the DEA. Please note that there may be costs associated with any relocation or addition of facilities, including negotiation of easements that may be required as a result, and that such costs may be borne by the requestor. Because any redesign or relocation of HECO's facilities may cause lengthy delays, upon determination that HECO facilities will need to be relocated or built, HECO should be notified immediately in order to minimize any delays in or impacts on the project schedule.

Sincerely,



Kirk S. Tomita
Senior Environmental Scientist

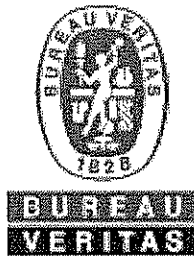
cc: K. Wong/R.Liu
P. Nakagawa





SECTION 3

Special Interest Groups



May 3, 2007

Kane'ohe Outdoor Circle
Kathy Martin, President
P.O. Box 32
Kane'ohe, Oahu, Hawaii 96744

Project No. 17005-05348.00

Subject: Community Group Notification of the Proposed Verizon Wireless HON Hawaiian Memorial Cell Site, Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road, Kaneohe, Oahu, Hawaii 96744

Dear Ms. Martin:

Bureau Veritas North America, Inc. (Bureau Veritas) has been retained by Verizon Wireless to conduct a site evaluation for the Federal Communications Commission (FCC), of the above-referenced proposed cellular wireless telecommunications project.

Pursuant to FCC NEPA rules, we are contacting you in your function as a community-interest group for your comments in regards to the proposed wireless telecommunications facility.

Project Description

The subject parcel, owned by Ko'olau Golf Partners LLC, is currently operated as the Ko'olau Golf Club, a top 100 U.S. golf facility, rated as the most challenging golf course in the United States. Carved out of tropical rainforest on the windward side of the Ko'olau mountain range, the Ko'olau Golf Club encompasses three distinct climate zones and features winding ravines, extreme elevation changes, and scenic views of cascading waterfalls, lush tropical rainforests and beautiful ocean vistas.

The subject parcel contains the Ko'olau Clubhouse and associated facilities in the central portion, a maintenance facility on the central-northern border, and the golf course links in the surrounding areas. The golf course grounds are bordered to the north by the H-3 Freeway, to the south by the Ko'olau Mountain Range, to the east by Kionaole Road, and to the west by Forest Reserve lands bordering the Ko'olau Range.

The subject property, identified as the VZW HON Hawaiian Memorial cell site, comprises an approximately 12- by 30-foot (360 square foot) lease area located along the central-northern fenceline of the subject parcel, bordering the H-3 Freeway (Figures 1 and 2, *Figures* tab). At the time of Bureau Veritas' site visit, the subject property occupied an undeveloped clearing to the northwest of the maintenance facility, atop the embankment that forms the Freeway setback. The ground cover at the proposed project site consisted of partially cleared, exposed soil bordered by dense low-lying vegetation, bushes and trees to the north and west, and an asphalt-paved roadway to the south and east.

Based on observations during the site visit, the following information was ascertained:

Bureau Veritas North America, Inc.

970 North Kalaboo Avenue Suite C-316

Kaunua, HI 96734

Main: (808) 531.6708

Fax: (808) 537.4084

www.us.bureauveritas.com



Ms. Kathy Martin, President
Kane'ohē Outdoor Circle

Page 2
Project No. 17005-05348.00
January 21, 2008

- Hawaiian Electric Company (HECO) maintains a utility pole with three pole-mounted electrical transformers at the northeast corner of the maintenance facility.
- The City and County of Honolulu, Board of Water Supply (BWS) provides county water and sewer services to the subject parcel.

The planned short-term use for the subject parcel is continued operation as a Golf Club with development of the VZW HON Hawaiian Memorial Cell Site on the subject property.

According to Verizon Wireless, the proposed action involves installing a new 30-foot high, self-supporting steel monopole to the northwest of the maintenance facility, along the northern fenceline that separates the Golf Club parcel from the H-3 Freeway, and mounting twelve, 8-foot high panel antennas at the top. A 12- by 26-foot (312-square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600square foot) fenced enclosure.

Construction activities will have a minor impact to the ground surface.

Information Request

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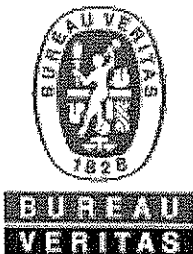
If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

Regards,

Christine Yott
Staff Consultant
Bureau Veritas North America, Inc.

/kg

Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



Second Notice

August 6, 2007

Kane'ohe Outdoor Circle
Kathy Martin, President
P.O. Box 32
Kane'ohe, Oahu, Hawaii 96744

Project No. 17005-05348.00

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Kane'ohe Outdoor Circle

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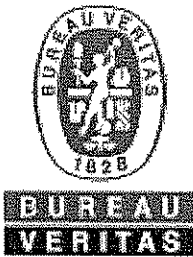
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Regards,

Christine Yott
Staff Consultant
Bureau Veritas North America, Inc.

/kg

Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



May 3, 2007

Sierra Club – Hawaii Chapter
Gary Coffin, Chair/Conservation
P.O. Box 2577
Honolulu, Oahu, Hawaii 96803

Project No. 17005-05348.00

Subject: Community Group Notification of the Proposed Verizon Wireless HON Hawaiian Memorial Cell Site, Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road, Kaneohe, Oahu, Hawaii 96744

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970 North Kalhco Avenue Suite C-316

Kalua, HI 96734

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Fax: (808) 537.4084

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Mr. Gary Coffin, Chair Conservation
Sierra Club – Hawaii Chapter

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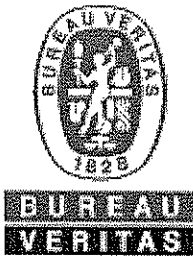
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Regards,

Christine Yott
Staff Consultant
Bureau Veritas North America, Inc.

/kg

Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



Second Notice

August 6, 2007

Sierra Club – Hawaii Chapter
Gary Coffin, Chair/Conservation
P.O. Box 2577
Honolulu, Oahu, Hawaii 96803

Project No. 17005-05348.00

Subject: Community Group Notification of the Proposed Verizon Wireless HON Hawaiian Memorial Cell Site, Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road, Kaneohe, Oahu, Hawaii 96744

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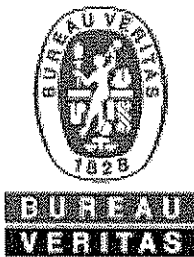
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Christine Yott
Staff Consultant
Bureau Veritas North America, Inc.

/kg

Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



May 3, 2007

The Nature Conservancy
P.O. Box 96
Kunia, Oahu, Hawaii 96759

Project No. 17005-05348.00

Subject: Community Group Notification of the Proposed Verizon Wireless HON Hawaiian Memorial Cell Site, Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road, Kaneohe, Oahu, Hawaii 96744

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Kaunua, HI 96734

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The Nature Conservancy
January 21, 2008

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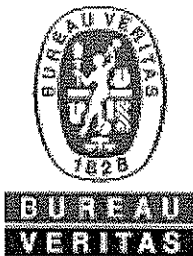
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Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



Second Notice

August 6, 2007

The Nature Conservancy
P.O. Box 96
Kunia, Oahu, Hawaii 96759

Project No. 17005-05348.00

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The Nature Conservancy
January 21, 2008

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According to Verizon Wireless, the proposed action involves installing a new 30-foot high, self-supporting steel monopole to the northwest of the maintenance facility, along the northern fenceline that separates the Golf Club parcel from the H-3 Freeway, and mounting twelve, 8-foot high panel antennas at the top. A 12- by 26-foot (312-square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600square foot) fenced enclosure.

Construction activities will have a minor impact to the ground surface.

Information Request

As noted, we are contacting you to request your comments in regards to the proposed project.

Per FCC NEPA review process guidelines, please provide *written* documentation of your comments within 30 days, either to the address shown on the first page, via fax at 808.537.4084, or by email at christine.yott@us.bureauveritas.com.

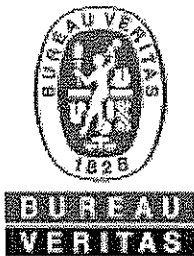
If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

Regards,

Christine Yott
Staff Consultant
Bureau Veritas North America, Inc.

/kg

Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



November 9, 2007

Hawaii's Thousand Friends
Donna Wong, Executive Director
25 Maluniu Avenue, Suite 102 #282
Kailua, Oahu, Hawaii 96834

Project No. 17005-005348.00

Subject: Community Group Notification of the Proposed Verizon Wireless HON Hawaiian Memorial Cell Site, Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road, Kaneohe, Oahu, Hawaii 96744

Dear Ms. Wong:

Bureau Veritas North America, Inc. (Bureau Veritas) has been retained by Verizon Wireless to conduct a site evaluation for the Federal Communications Commission (FCC), of the above-referenced proposed cellular wireless telecommunications project.

Pursuant to FCC NEPA rules, we are contacting you in your function as a community-interest group for your comments in regards to the proposed wireless telecommunications facility.

Project Description

The subject parcel, owned by Ko'olau Golf Partners LLC, is currently operated as the Ko'olau Golf Club, a top 100 U.S. golf facility, rated as the most challenging golf course in the United States. Carved out of tropical rainforest on the windward side of the Ko'olau mountain range, the Ko'olau Golf Club encompasses three distinct climate zones and features winding ravines, extreme elevation changes, and scenic views of cascading waterfalls, lush tropical rainforests and beautiful ocean vistas.

The subject parcel contains the Ko'olau Clubhouse and associated facilities in the central portion, a maintenance facility on the central-northern border, and the golf course links in the surrounding areas. The golf course grounds are bordered to the north by the H-3 Freeway, to the south by the Ko'olau Mountain Range, to the east by Kionaole Road, and to the west by Forest Reserve lands bordering the Ko'olau Range.

The subject property, identified as the VZW HON Hawaiian Memorial cell site, comprises an approximately 12- by 30-foot (360 square foot) lease area located along the central-northern fenceline of the subject parcel, bordering the H-3 Freeway (Figures 1 and 2, *Figures* tab). At the time of Bureau Veritas' site visit, the subject property occupied an undeveloped clearing to the northwest of the maintenance facility, atop the embankment that forms the Freeway setback. The ground cover at the proposed project site consisted of partially cleared, exposed soil bordered by dense low-lying vegetation, bushes and trees to the north and west, and an asphalt-paved roadway to the south and east.

Based on observations during the site visit, the following information was ascertained:

Bureau Veritas North America, Inc.

970 North Kalanooa Avenue Suite C-316

Kailua, HI 96734

Main: (808) 531-6708

Fax: (808) 537-4084

www.us.bureauveritas.com



Ms. Donna Wong, Executive Director
Hawaii's Thousand Friends

Page 2
Project No. 17005-005348.00
January 21, 2008

- Hawaiian Electric Company (HECO) maintains a utility pole with three pole-mounted electrical transformers at the northeast corner of the maintenance facility.
- The City and County of Honolulu, Board of Water Supply (BWS) provides county water and sewer services to the subject parcel.

The planned short-term use for the subject parcel is continued operation as a Golf Club with development of the VZW HON Hawaiian Memorial Cell Site on the subject property.

According to Verizon Wireless, the proposed action involves installing a new 30-foot high, self-supporting steel monopole to the northwest of the maintenance facility, along the northern fenceline that separates the Golf Club parcel from the H-3 Freeway, and mounting twelve, 8-foot high panel antennas at the top. A 12- by 26-foot (312-square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600square foot) fenced enclosure.

Construction activities will have a minor impact to the ground surface.

Information Request

As noted, we are contacting you to request your comments in regards to the proposed project.

Per FCC NEPA review process guidelines, please provide *written* documentation of your comments within 30 days, either to the address shown on the first page, via fax at 808.537.4084, or by email at christine.yott@us.bureauveritas.com.

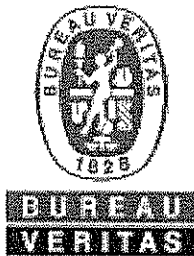
If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

Regards,

Katie Garst
Environmental Consultant
Bureau Veritas North America, Inc.

/kg

Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



Second Notice

December 17, 2007

Hawaii's Thousand Friends
Donna Wong, Executive Director
25 Maluniu Avenue, Suite 102 #282
Kailua, Oahu, Hawaii 96834

Project No. 17005-005348.00

Subject: Community Group Notification of the Proposed Verizon Wireless HON Hawaiian Memorial Cell Site, Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road, Kaneohe, Oahu, Hawaii 96744

Dear Ms. Wong:

Bureau Veritas North America, Inc. (Bureau Veritas) has been retained by Verizon Wireless to conduct a site evaluation for the Federal Communications Commission (FCC), of the above-referenced proposed cellular wireless telecommunications project.

Pursuant to FCC NEPA rules, we are contacting you in your function as a community-interest group for your comments in regards to the proposed wireless telecommunications facility.

Project Description

The subject parcel, owned by Ko'olau Golf Partners LLC, is currently operated as the Ko'olau Golf Club, a top 100 U.S. golf facility, rated as the most challenging golf course in the United States. Carved out of tropical rainforest on the windward side of the Ko'olau mountain range, the Ko'olau Golf Club encompasses three distinct climate zones and features winding ravines, extreme elevation changes, and scenic views of cascading waterfalls, lush tropical rainforests and beautiful ocean vistas.

The subject parcel contains the Ko'olau Clubhouse and associated facilities in the central portion, a maintenance facility on the central-northern border, and the golf course links in the surrounding areas. The golf course grounds are bordered to the north by the H-3 Freeway, to the south by the Ko'olau Mountain Range, to the east by Kionaole Road, and to the west by Forest Reserve lands bordering the Ko'olau Range.

The subject property, identified as the VZW HON Hawaiian Memorial cell site, comprises an approximately 12- by 30-foot (360 square foot) lease area located along the central-northern fenceline of the subject parcel, bordering the H-3 Freeway (Figures 1 and 2, *Figures* tab). At the time of Bureau Veritas' site visit, the subject property occupied an undeveloped clearing to the northwest of the maintenance facility, atop the embankment that forms the Freeway setback. The ground cover at the proposed project site consisted of partially cleared, exposed soil bordered by dense low-lying vegetation, bushes and trees to the north and west, and an asphalt-paved roadway to the south and east.

Bureau Veritas North America, Inc.

970 North Kalaho Avenue Suite C-316

Kailua, HI 96734

Main: (808) 531.6708

Fax: (808) 537.4084

www.us.bureauveritas.com



Ms. Donna Wong, Executive Director
Hawaii's Thousand Friends

Page 2
Project No. 17005-005348.00
January 21, 2008

Based on observations during the site visit, the following information was ascertained:

- Hawaiian Electric Company (HECO) maintains a utility pole with three pole-mounted electrical transformers at the northeast corner of the maintenance facility.
- The City and County of Honolulu, Board of Water Supply (BWS) provides county water and sewer services to the subject parcel.

The planned short-term use for the subject parcel is continued operation as a Golf Club with development of the VZW HON Hawaiian Memorial Cell Site on the subject property.

According to Verizon Wireless, the proposed action involves installing a new 30-foot high, self-supporting steel monopole to the northwest of the maintenance facility, along the northern fenceline that separates the Golf Club parcel from the H-3 Freeway, and mounting twelve, 8-foot high panel antennas at the top. A 12- by 26-foot (312-square foot) pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a 20- by 30-foot (600square foot) fenced enclosure.

Construction activities will have a minor impact to the ground surface.

Information Request

As noted, we are contacting you to request your comments in regards to the proposed project.

Per FCC NEPA review process guidelines, please provide *written* documentation of your comments within 30 days, either to the address shown on the first page, via fax at 808.537.4084, or by email at christine.yott@us.bureauveritas.com.

If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

Regards,

Katie Garst
Environmental Consultant
Bureau Veritas North America, Inc.

/kg

Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



APPENDIX D

CULTURAL IMPACTS
AGENCY AND ORGANIZATION CORRESPONDENCE



SECTION 1

**State of Hawaii
Department of Land and Natural Resources (DLNR)
State Historic Preservation Division (SHPD)**

AND

Oahu DLNR-SHPD Historic Sites List

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

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

ROBERT K. MASUDA
DEPUTY DIRECTOR - LAND

DEAN NAKANO
ACTING 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

January 24, 2006

Mr. Douglas Oringer, Project Engineer
Clayton Group Services, Inc.
970 North Kalaheo Avenue, Suite C-316
Kailua, Hawaii 96734

LOG NO: 2006.0082
DOC NO: 0601CM12
Archaeology

Dear Mr. Oringer:

**SUBJECT: National Historic Preservation Act (NHPA) Section 106 Review [Federal]-
VZW HON Hawaiian Memorial Cell Site (VZW Project ID# 2004005294)
FCC Telecommunications Cell Site, Ko'olau Golf Club Maintenance Facility
Kane'ohe, Kane'ohe Ahupua'a, Ko'olaupoko District, Island of O'ahu
TMK: (1) 4-5-042:001**

The project consists of installing a new 35-foot high steel monopole adjacent to the golf course maintenance building, including twelve panel antennas at the top (tips flush with top of monopole). A pre-fabricated equipment shelter will be constructed at the ground level, near the base of the monopole. A fenced enclosure will be installed around these facilities.

We believe that **no historic properties will be affected** by this undertaking because:

- a) intensive cultivation has altered the land
- b) residential development/urbanization has altered the land
- c) previous grubbing/grading has altered the land
- d) an acceptable archaeological assessment or inventory survey found no historic properties
- e) this project has gone through the historic review process, and mitigation has been completed
- f) other: *previous inventory survey (Shun et al 1987, SHPD Report No. O-388) and other in-depth studies of the current project area (e.g., Meeker 1995, SHPD Report No. O-1416)*

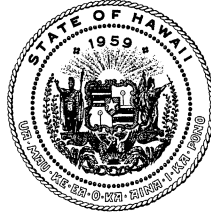
In the event that historic resources, including human skeletal remains, are identified, all work needs to cease in the immediate vicinity; the find needs to be protected from additional disturbance; and, the State Historic Preservation Division, O'ahu Section, needs to be contacted immediately at (808)692-8015.

Aloha,

Peter Young, Chair
State Historic Preservation Officer

CM:dlb

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

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

ROBERT K. MASUDA
DEPUTY DIRECTOR - LAND

DEAN NAKANO
ACTING DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
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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

JAN 11 2006

Mr. Douglas Oringer
Clayton Group Services, Honolulu Regional Office
970 North Kalaheo Avenue, Suite C-316
Kailua, Oahu, Hawai'i 96734

Log No.: 2006.0072
Doc No.: 0601ST02
Architecture

Dear Mr. Oringer:

**SUBJECT: National Historic Preservation Act Section 106 Review
VZW HON Hawaiian Memorial Cell Site (VZW Project ID# 2004005294)
FCC Telecommunications Cell Site, Ko'olau Golf Club Maintenance Facility
Kaneohe, Island of O'ahu, Hawaii
TMK: (1) 4-5-042:001**

Thank you for the submittal dated June 27, 2005. We apologize for the late response. The proposed project is for a new Verizon Wireless (VZW) cell phone antenna tower located at the Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road. The project involves the installation of a new 35-foot-high steel monopole, mounting of twelve, 8-foot-high panel antennas at the top, installation of a pre-fabricated equipment shelter at ground level by the base of the monopole, and installation of a fenced enclosure.

The maintenance facility was built in 1989. Therefore, we concur that the determination for the architectural concerns of the proposed project is "no historic properties affected."

Thank you for the opportunity to comment. Should you have any questions regarding architectural concerns, please call Susan Tasaki at 692-8032.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter T. Young".

Peter T. Young
State Historic Preservation Officer

ST:jen

National and State Register of Historic Places

| SITE NUMBER | CROSS LIST NUMBER | SITE NAME | TAX MAP KEY | HAWAII REGISTER | NATIONAL REGISTER |
|--------------------|--------------------------|--|--|------------------------|--------------------------|
| 80-01-0241 | | Kupopolo Heiau | 6-1-005:016 | 9/5/1978 | 6/4/1973 |
| 80-01-0249 | | Pu'u o Mahuka Heiau | 5-9-005:068 | 1/29/1981 | 12/29/62 1966 |
| 80-01-0257 | | Kalou Fishpond | 5-8-001:015,055 | 1/30/1981 | |
| 80-02-1038 | | Kahuku Habitation Area | 5-6-003:010 | | 9/11/1972 |
| 80-02-2501 | | Burial Platform | 5-7-002:003 | | 8/14/1973 |
| 80-02-9745 | | Opana Radar Site | 5-7-002:002 | 6/2/1990 | 9/19/91 |
| 80-02-9816 | | Kahuku Plantation Supervisor's House | 5-6-010:158 | 7/25/1998 | 9/19/91 4/19/94NHL |
| 80-03-0181 | | Ukanipo Heiau | 8-1-001:019 | | 8/13/1982 |
| 80-03-1183 | | Ka'ena Complex | 6-9-002:006,009 8-1-001:006,016 | 6/9/1988 | |
| 80-03-2887 | | Kea'au Talus Sites | 8-3-001:012 | 9/14/1985 | 5/4/1987 |
| 80-04-0218 | | Kukaniloko Birthing Place | 7-1-001:004 | 4/16/94 | 4/11/73 |
| 80-04-0226 | | Pohaku Lanai | 6-6-007:007 | 11/26/1986 | |
| 80-04-1334 | | Waialua Courthouse | 6-6-009:023 | 2/20/1979 | |
| 80-04-1337 | | Kawailoa Ryusenji Temple (demolished) | 6-1-005:001 | | 11/21/1978 |
| 80-04-1348 | | Waialua School (Hale'iwa | 6-6-013:012 | 5/3/1980 | 8/11/1980 |
| 80-04-9050 | | Kealii O Ka Malu Church | 6-6-008:017 | 8/26/2000 | |
| 80-05-9746 | | William L. & Mary T. Hopper | 7-5-027:010 | 6/2/1990 | |
| 80-06-0293 | | Hanawao Heiau | 5-2-002:001 | 1/29/1981 | |
| 80-06-0301 | | Huilua Fishpond | 5-2-005:021 | 2/20/1979 | 12/29/62 1966 |
| 80-06-0313 | | Moli'i Fishpond | 4-9-003:001,002, | | 12/5/1972 |
| 80-06-0528 | | Kualoa Ahupuaa Historical District | 4-9-004:001, 4-9-005:001, portion of 4-9-006:001 | | 10/16/1974 |
| 80-06-1003 | | Burial Cave, Ka'a'awa | 5-1-005:001 | 1/29/1981 | |
| 80-06-1078 | | Waikane Taro Flats | 4-8-006:001 | | 4/11/73 |
| 80-06-1101 | | Small Heiau | 4-9-004, 4 | | 3/14/1973 |
| 80-06-9803 | | Elma Schadt House (a.k.a. "The Coral House") | 4-9-008:012 | 7/19/1997 | |
| 80-06-9815 | | Waikane Store | 4-8-003:001 | 7/25/1998 | |
| 80-07-1181 | | Wai'anae District | 8-5-002: | | 1/21/1974 |
| 80-07-9993 | | Wai'anae Plantation | 8-5-003:011 | 2/20/1979 | |
| 80-08-0149 | | Nioiula Heiau | 8-8-001:001 | 7/18/1978 | |
| 80-08-1179 | | Wet Taro System | 8-5-006:001 | 11/26/1986 | |
| 80-08-1385 | | Wheeler Field Wheeler AFB | 7-7, Various | | 5/28/1987 |
| 80-08-9708 | | Waialua Agricultural Company | 9-1-017:049 | | 8/19/1974 |
| 80-08-9756 | | Kamaunu Residence | 8-9-006:039 | 7/17/1992 | |
| 80-08-9761 | | Railway Rolling Stock | 9-1-017:049 | 9/28/1992 | |
| 80-08-9807 | | Schofield Barracks Historic District | 7-7, Various | 9/27/1997 | 7/31/1998 |
| 80-08-9808 | | Schofield Barracks Stockade | 7-7, Various | 9/27/1997 | 8/24/1998 |
| 80-09-0107 | | Keaiwa Heiau | 9-9-011:001,002, | 2/20/1979 | 11/9/1972 |

National and State Register of Historic Places

| SITE NUMBER | CROSS LIST NUMBER | SITE NAME | TAX MAP KEY | HAWAI'I REGISTER | NATIONAL REGISTER |
|--------------------|--------------------------|---|--------------------|-------------------------|--------------------------|
| 80-09-1345 | | Wakamiya Inari Shrine | 9-4-010:041,098 | 8/31/1979 | 1/8/1980 |
| 80-09-1375 | | Tsoong Nyee Society Cook House | 9-4-010:004 | 11/26/1986 | |
| 80-09-9777 | | Kipapa School Building B | 9-5-021:002 | 10/31/1994 | |
| 80-09-9802 | | Honolulu Plantation Manager's Residence | 9-8-030:050 | 7/19/1997 | |
| 80-10-0093 | | Pohaku ka Luahine | 1-1-013:001 | | 7/23/1973 |
| 80-10-0319 | | Kahalu'u Fishpond | 4-7-011:001 | 6/30/2007 | 3/14/1973 |
| 80-10-0327 | | He'eia Fishpond | 4-6-005:001 | | 1/17/1973 |
| 80-10-0329 | | Leleahina Heiau | 4-6-014:005 | | 3/20/1973 |
| 80-10-0354 | | Kawa'ewa'e Heiau | 4-5-033:001 | | 8/21/1972 |
| 80-10-1153 | | Kapapa Island Complex | 4-4-008:004 | 1/29/1981 | 8/21/1972 |
| 80-10-1165 | | Kahalu'u Taro Loi | 4-7-051:004 | | 3/14/1973 |
| 80-10-1360 | | Kane'ohe Ranch Building | 4-5-035:003 | 6/27/1983 | 6/5/1987 |
| 80-10-1383 | | Edric Cook Residence | 4-3-025:035 | 8/15/1987 | |
| 80-10-1386 | | Kane'ohe Naval Air Station | 4-4-008:001 | | 5/28/1987 |
| 80-10-9747 | | Gerald A. Dolan Residence | 4-4-006:009,015 | 6/2/1990 | |
| 80-11-0359 | | Pahukini Heiau | 4-2-015:003 | | 9/11/1972 |
| 80-11-0371 | | Ulu Po Heiau | 4-2-013:031 | 9/21/1981 | 11/9/1972 |
| 80-11-1017 | | Mokapu Burial Area | 4-4-008:001 | 7/25/1981 | 11/15/1972 |
| 80-11-1362 | | KAWAIOLOA TRAINING SCHOOL FOR GIRLS: | 4-2-006:002 | 11/5/1984 | |
| 80-11-1362 | | Gymnasium | | | |
| 80-11-1362 | | Hilltop Cottage | | | |
| 80-11-1362 | | Hookipa Cottage | | | |
| 80-11-1362 | | Maluhia Cottage | | | |
| 80-11-1362 | | Manoa Cottage | | | |
| 80-11-9009 | | 2 Aalapapa Pl. (a.k.a. "Hilltop House", "Puuhonua", or "Bird Lady's House") | 4-3-008:087 | 6/24/2006 | |
| 80-11-9037 | | Miles and Kathy Anderson | 4-3-004:064 | 6/30/2007 | |
| 80-11-9748 | | Mark Robinson Beach House | 4-3-018:045 | 6/29/1990 | |
| 80-11-9760 | | Charles and Mae Boettcher Residence | 4-3-016:004 | 9/28/1992 | 4/26/2002 |
| 80-11-9763 | | Robert McCorriston Beach House | 4-3-006:058 | 6/28/1993 | |
| 80-12-2722 | | Beach Midden Site | 9-1-074:036 | 7/25/1981 | |
| 80-12-9714 | | Oahu Railway & Land | 8-9 & 9-1 | | 12/1/1975 |
| 80-12-9786 | | Ewa Plantation Villages | 9-1-017: por. of | 2/24/1996 | |
| 80-13-0143 | | 'Oki'okiolepe Pond | 9-1-001:001 | | 3/14/1973 |
| 80-13-1356 | | U.S.S. Bowfin | 9-9-003:031 | 7/30/1982 | 11/16/82 |
| 80-13-1376 | | HICKAM AIR FORCE BASE | 9-9 Various | | 9/16/85 NHL |
| 80-13-1382 | | ARTILLERY DISTRICT OF HONOLULU: | | | 6/5/1984 |
| 80-13-1382 | | Battery Hasebrouck | 9-9-001:013 | | |

National and State Register of Historic Places

| SITE NUMBER | CROSS LIST NUMBER | SITE NAME | TAX MAP KEY | HAWAI'I REGISTER | NATIONAL REGISTER |
|--------------------|--------------------------|--|--------------------------|-------------------------|--------------------------|
| 80-13-1382 | | Battery Hawkins | 9-9-001:013 | | |
| 80-13-1382 | | Battery Hawkins Annex | 9-9-001:013 | | |
| 80-13-1382 | | Battery Jackson | 9-9-001:013 | | |
| 80-13-1382 | | Battery Randolph | 2-6-005:001 | | |
| 80-13-1382 | | Battery Selfridge | 9-9-001:013 | | |
| 80-13-1384 | | CINCPAC FLT Headquarters, Commander in Chief, Pacific Fleet, Pearl Harbor. Makalana Crater | 9-9-002:004 (portion) | | 5/28/1987 9/7/87 NHL |
| 80-13-9817 | | U.S.S. Missouri Battleship | 9-9-03 | 6/24/2006 | 5/14/1971 |
| 80-13-9992 | | Pearl Harbor Naval Base | 9-1-Various | 9 | 1/29/64 |
| 80-14-0409 | | Kaniakapupu | 2-2-054:001 | 6/13/1986 | 10/15/1986 |
| 80-14-1161 | | Nu'uuanu Petroglyph Complex | 2-2-021:007 | 2/20/1979 | 3/14/1973 |
| 80-14-1300 | | Punchbowl Crater and National Memorial Cemetery of the Pacific | 2-2-005:001, 002 | 1/13/1975 | 1/11/1976 |
| 80-14-1302 | 80-14-1346 | Palama Fire Station | 1-5-005:014 | 7/19/1980 | 4/21/76 |
| 80-14-1307 | 80-14-1321 | Hawaii State Library | 2-1-25:01 | | 12/1/1978 |
| 80-14-1307 | | Hawaiian Electric Company | 2-1-16:01 | | 12/1/1978 |
| 80-14-1307 | 80-14-1321 | The Kamehameha Statue | 2-1-25:03 | | 12/1/1978 |
| 80-14-1307 | 80-14-1321 | Mission Memorial Building | 2-1-33:07 | | 12/1/1978 |
| 80-14-1307 | 80-14-1321 | State Capitol/Grounds | 2-1-24:All | | 6/19/1973 |
| 80-14-1307 | 80-14-1321 | State Tax Office | 2-1-26:22 | | 12/1/1978 |
| 80-14-1307 | 80-14-1321 | Territorial Office Building | 2-1-25:03 | | 12/1/1978 |
| 80-14-1307 | 80-14-1321 | YMCA | 2-1-17:01,02 | | 12/1/1978 |
| 80-14-1307 | 80-14-1321 | YWCA | 2-1-17:09 | | 12/1/1978 |
| 80-14-1307 | 80-14-1321 | Honolulu Hale/Grounds | 2-1-33:07 | | 12/1/1978 |
| 80-14-1321 | | HAWAI'I CAPITAL DISTRICT: | | | 12/1/1978 |
| 80-14-1321 | | Aliiolani Hale | 2-1-025:003 | | |
| 80-14-1321 | | Old Federal Building | 2-1-025:004 | | |
| 80-14-1321 | 80-14-1307 | Hawaii State Library | 2-1-025:001 | | |
| 80-14-1321 | | Hawaiian Electric Company | 2-1-016:001 | | |
| 80-14-1321 | 80-14-1307 | Honolulu Hale | 2-1-033:007 | | |
| 80-14-1321 | 80-14-1307 | Honolulu Hale Annex | 2-1-033:010 | | |
| 80-14-1321 | | Iolani Barracks | 2-1-025:002 | | |
| 80-14-1321 | | Iolani Palace/Grounds | 2-1-025:002 | | |
| 80-14-1321 | | Iolani Palace Bandstand | 2-1-025:002 | | |
| 80-14-1321 | 80-14-1307 | Kamehameha Statue | 2-1-025:003 | | |
| 80-14-1321 | | Kapuaiwa Building | 2-1-025:003 | | |
| 80-14-1321 | | Kawaiahao Church | 2-1-032:017 | | |
| 80-14-1321 | | Mission Houses | 2-1-032:002 | | |
| 80-14-1321 | | Queen Emma Square | 2-1-018:004 | | |
| 80-14-1321 | | St. Andrews Cathedral | 1-1-018:002 | | |
| 80-14-1321 | 80-14-1307 | State Capitol/Grounds | 2-1-024:001 and | | |

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| 80-14-1321 | 80-14-1307 | State Tax Office | 2-1-026:022 | | |
| 80-14-1321 | 80-14-1307 | Territorial Office Building | 2-1-025:003 | | |
| 80-14-1321 | | Washington Place | 2-1-018:001 | | |
| 80-14-1321 | 80-14-1307 | YMCA | 2-1-017:001 and | | |
| 80-14-1321 | 80-14-1307 | YWCA | 2-1-017:009 | | |
| 80-14-1325 | | Alfred Hocking House (a.k.a. Rose Chang Lee House) | 2-4-027:065 | 8/24/1984 | 11/15/1984 |
| 80-14-1326 | | John T. Waterhouse House | 1-8-006:007 | 8/14/1978 | |
| 80-14-1332 | | The Hawai'i Theatre | 2-1-003:014 | 3/3/1978 | 11/14/1978 |
| 80-14-1338 | | U.S. Coast Guard Diamond | 3-1-042:003 | | 10/31/1980 |
| 80-14-1339 | | Linekona School | 2-4-002:020 | 12/17/1979 | 5/28/1980 |
| 80-14-1346 | | FIRE STATIONS OF OAHU: | 2-1-009:026/3-2-036:007 | | |
| 80-14-1346 | | Central Fire Station | 2-1-009:026 | 7/19/1980 | 12/2/1980 |
| 80-14-1346 | | Kaimuki Fire Station | 3-2-036:007 | 7/19/1980 | 12/2/1980 |
| 80-14-1346 | | Kalihi Fire Station | 1-3-005:022 | 7/19/1980 | 12/2/1980 |
| 80-14-1346 | | Makiki Fire Station | 2-4-029:029 | 7/19/1980 | 12/2/1980 |
| 80-14-1346 | | Old Kakaako Fire Station | 2-1-031:018 | 7/19/1980 | 12/2/1980 |
| 80-14-1346 | 80-14-1302 | Palama Fire Station | 1-5-005:014 | 7/19/1980 | 4/21/76 |
| 80-14-1346 | | Waialua Fire Station | 6-6-013:003 | 7/19/1980 | 12/2/1980 |
| 80-14-1346 | | Kakaako Fire Station | 2-1-031:018 | 2/8/2004 | |
| 80-14-1347 | | John Guild Residence | 2-8-916:928 | 2/28/1980 | 8/1/1980 |
| 80-14-1349 | | Ernest Shelton Van Tassel | 2-5-919:904 | 9/21/1981 | 12/16/1981 |
| 80-14-1350 | | FORT RUGER HISTORIC DISTRICT | 3-1-042:009,020 | 11/19/1982 | 7/14/1983 |
| 80-14-1352 | | UNIVERSITY OF HAWAII: | 2-8-015:001 | 3/19/1984 | |
| 80-14-1352 | | Andrews Amphitheater | | | |
| 80-14-1352 | | Crawford Hall | | | |
| 80-14-1352 | | Dean Hall | | | |
| 80-14-1352 | | Founders Gate | | | |
| 80-14-1352 | | George Hall | | | |
| 80-14-1352 | | Gartley Hall | | | |
| 80-14-1352 | | Hawaii Hall | | | |
| 80-14-1352 | | Pineapple Research Center | 2-8-023:003 | 8/24/1984 | |
| 80-14-1352 | | Varney Circle | | | |
| 80-14-1352 | | Wist Hall | | | |
| 80-14-1353 | | Bishop Museum Complex | 1-6-024:001 | 9/10/1980 | 7/26/1982 |
| 80-14-1354 | | Lihikai (George R. Carter House) | 2-2-050: | 9/29/1980 | 7/26/1982 |
| 80-14-1357 | | Joseph W. Podmore Building | 2-1-016:004 | 11/19/1982 | 3/24/1983 |
| 80-14-1358 | | Dr. Archibald Sinclair Residence | 2-9-015:023 | 6/27/1983 | 10/13/1983 |
| 80-14-1359 | | Grace Cooke Residence | 2-9-005:056 | 6/27/1983 | 10/24/1983 |

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| 80-14-1361 | | George D. Oakley Residence | 2-8-019:046 | | 11/15/1984 |
| 80-14-1363 | | C. W. Dickey House | 3-1-033:018 | 8/24/1984 | 11/1/1984 |
| 80-14-1366 | | Clarence Cooke Residence | 1-9-005:004 | 9/14/1985 | 8/20/1986 |
| 80-14-1367 | | Edgar & Lucy Henriques House | 1-9-009:016 | 8/24/1984 | 11/1/1984 |
| 80-14-1368 | | Charles Montague Cooke, Jr., Residence | 2-9-019:035 | 11/5/1984 | 10/31/1985 |
| 80-14-1369 | | R. N. Linn Residence | 2-8-019:036 | 9/14/1985 | 8/20/1986 |
| 80-14-1370 | | Eyman-Judson Residence | 2-9-039:001 | 11/12/1985 | 8/20/1986 |
| 80-14-1371 | | James L. Coke Residence | 2-2-051:010 | 11/12/1985 | 8/20/1986 |
| 80-14-1373 | | ENGLISH TUDOR / FRENCH NORMAN COTTAGES: | Various | | |
| 80-14-1373 | | 3023 Kalakaua Avenue | 3-1-033:051 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 3023A Kalakaua Avenue | 3-1-033:013 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 3023B Kalakaua Avenue | 3-1-033:008 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 3027 Kalakaua Avenue | 3-1-033:050 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 3033 Kalakaua Avenue | 3-1-033:014 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 3033B Kalakaua Avenue | 3-1-033:007 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 2311 Ferdinand Avenue | 2-9-008:016 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 3581 Woodlawn Drive | 2-9-048:007 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 2826 Coconut Avenue | 3-1-033:046 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 4354 Kahala Avenue | 3-5-013:008 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 4584 Kahala Avenue | 3-5-004:012 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 4850 Kahala Avenue | 3-5-007:001 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 3029 Felix Street | 3-3-053:025 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 2958 Pali Highway | 1-8-011:007 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 4109 Black Point Road | 3-5-001:026 | 6/13/1986 | 6/5/1987 |
| 80-14-1373 | | 3050 Kiele Avenue | 3-1-033:028 | 11/26/1986 | 11/26/1986 |
| 80-14-1373 | | 2830 Coconut Avenue | 3-1-033:045 | 11/26/1986 | 11/26/1986 |
| 80-14-1374 | | Austin Jones Residence | 2-9-002:013 | 6/13/1986 | |
| 80-14-1377 | | Sacred Heart Church | 2-8-012:068 | 6/17/1987 | 2/6/2001 |
| 80-14-1378 | | Robert M. Purvis Residence | 2-2-050:002 | 6/17/1987 | |
| 80-14-1379 | | Emerald Building | 2-1-010:041 | 6/17/1987 | |
| 80-14-1380 | | OR&L Office & Document Storage | 1-5-007:002 | 8/17/1987 | |
| 80-14-1387 | | Frederick G. Krauss Residence | 2-9-012:029, 070 | 6/9/1988 | |
| 80-14-1388 | | C&C OF HONOLULU ART DECO PARKS: | Various | 6/9/1988 | |
| 80-14-1388 | | Ala Moana Park | 2-3-037:001 | 6/9/1988 | |
| 80-14-1388 | | Ala Wai Park Clubhouse | 2-7-036:005 | 6/9/1988 | |
| 80-14-1388 | | Haleiwa Beach Park | 6-2-001:002 | 6/9/1988 | |
| 80-14-1388 | | Kawananakoa Playground | 2-2-009:011 | 6/9/1988 | |
| 80-14-1388 | | Mother Waldron Playground | 2-1-051:005 | 6/9/1988 | |

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| 80-14-1389 | | Foster Botanic Garden | 1-7-007:001,002, | 6/9/1988 | 5/13/1993 |
| 80-14-9000 | | William H. Hoogs Residence | 2-9-008:024 | 6/24/2006 | |
| 80-14-9003 | | Yukihide and Aki Kohatsu Residence (a.k.a. "Taira Residence") | 2-8-011:029 | 4/22/2006 | |
| 80-14-9004 | | Allan R. Johnson Residence | 2-9-008:058 | 4/22/2006 | |
| 80-14-9005 | | Elizabeth W. Leong Residence | 2-5-023:045 | 8/26/2006 | |
| 80-14-9006 | | Flora Lidgate Residence | 2-9-010:001 | 12/10/2005 | |
| 80-14-9007 | | Alex G. and Jessie T. Horn Residence | 2-9-008:005 | 12/10/2005 | |
| 80-14-9008 | | Lemon Wond Holt Residence | 3-3-016:066 | 9/24/2005 | 5/24/2006 |
| 80-14-9010 | | Marshall and Ruth Goodsill Residence | 3-2-061:007 | 8/26/2006 | |
| 80-14-9011 | | Hibiscus Place | 3-1-034:046 | 8/18/2007 | |
| 80-14-9012 | | Edward B. Loomis Residence | 2-9-008:039 | 4/22/2006 | |
| 80-14-9013 | | Mary Lyman Residence | 1-8-033:066 | 9/24/2005 | |
| 80-14-9015 | | Earl and Lillian McGhee Residence | 2-9-014:037 | 6/24/2006 | |
| 80-14-9016 | | Frank and Kathryn Plum Residence | 3-1-033:017 | 8/18/2007 | |
| 80-14-9017 | | Joseph and Jean Skorpen Residence | 3-3-027:008 | 9/24/2005 | |
| 80-14-9018 | | Antonio Victorino Soares and Arcenia Fernandes Soares Residence | 3-3-008:030 | 12/10/2005 | |
| 80-14-9019 | | Tantalus Drive-Round Top Road | 2-4 & 2-5 various | 3/3/2007 | |
| 80-14-9021 | | Willard and Mary Jane Wax Residence | 2-9-010:021 | 6/24/2006 | |
| 80-14-9022 | | Owen and Ellen Williams | 3-3-045:029 | 8/26/2006 | |
| 80-14-9023 | | 2022 University Ave. | 2-8-022:037 | 6/24/2006 | |
| 80-14-9024 | | Central Union Church | 2-8-011:002 | 4/22/2006 | |
| 80-14-9025 | | Samuel and Laura Walker Residence | 2-2-004:026 | 8/18/2007 | |
| 80-14-9026 | | Stuart and Elisabeth Thompkins | 1-8-005:014 | 8/18/2007 | |
| 80-14-9028 | | Ernest R. Cameron House, American Association of University Women Residence | 2-4-025-002 | 8/23/2008 | |
| 80-14-9029 | | 3162 Huelani Dr. (a.k.a. "Huelani Home") | 2-9-034:014 | 8/18/2007 | |
| 80-14-9030 | | George Miller House (a.k.a. Carlson House) | 3-2-055:030 | 9/24/2005 | |
| 80-14-9031 | | John and Ruth Steffee Residence | 2-5-001:043 | 8/18/2007 | |
| 80-14-9032 | | Donald Hayselden Residence | 2-9-008:046 | 8/18/2007 | |
| 80-14-9033 | | May and George Jennings Residence | 1-8-033:007 | 8/18/2007 | |
| 80-14-9035 | | Leong-Yap Residence | 3-2-017:044 | 6/30/2007 | |

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| 80-14-9036 | | Theodore and Rose Vierra | 2-9-008:049 | 6/30/2007 | |
| 80-14-9038 | | Stanley Ball Residence | 2-9-006:029 | 8/18/2007 | |
| 80-14-9039 | | Mervin and Marian Williams Residence | 2-5-001:021 | 9/24/2005 | |
| 80-14-9042 | | Uluhaimalama (a.k.a. The Royal Flower Garden of Queen Liliuokalani) | 2-2-014:005 thru 006 | 12/13/2008 | |
| 80-14-9045 | | Howard and Betty Liljestrand Residence | 2-5-011:008 | 11/3/2007 | |
| 80-14-9046 | | Kin and Lau Shee Lum Residence | 3-2-051:025 | 11/3/2007 | |
| 80-14-9047 | | James and Asta Hughes Residence | 2-9-016:026 | 11/3/2007 | |
| 80-14-9048 | | Louis and Marjorie Stephens Residence | 2-2-045:040 | 11/3/2007 | |
| 80-14-9049 | | D. Worthington / H. Hewitt Residence | 2-2-015:004 | 4/25/2009 | |
| 80-14-9700 | | Falls of Clyde | 2-1-001:060 | | 7/2/1973 |
| 80-14-9701 | | War Memorial Natatorium | 3-1-031:003 | 5/3/1980 | 8/11/1980 |
| 80-14-9709 | | Fort Shafter, Palm Circle, | 1-1-008:005 | | 10/26/1984 |
| 80-14-9710 | | Kaka'ako Pumping Station | 2-1-015:043,044 | 8/17/1977 | 10/4/1978 |
| 80-14-9713 | | Georges de S. Canavarro House | 1-8-026:005 | 1/7/1980 | 5/28/1980 |
| 80-14-9716 | | J. P. Mendonca Residence | 2-5-004:009 | 3/15/1986 | 10/7/1986 |
| 80-14-9717 | | TANTALUS RESIDENCES: | | | |
| 80-14-9717 | | Vincent and Eleanor Fullard-Leo Residence | 2-5-016:024 | 6/9/1988 | |
| 80-14-9717 | | James A. Wilder Residence | 2-5-017:006,018 | 6/9/1988 | |
| 80-14-9718 | | Thomas Alexander Burningham Residence | 2-2-034:040,041 | 9/30/1988 | 10/13/1993 |
| 80-14-9719 | | Makiki Christian Church | 2-3-011:002 | 9/30/1988 | |
| 80-14-9739 | | Yee/Kobayashi Store | 2-1-049:008 | 8/30/1989 | |
| 80-14-9740 | | Saint Peter's Church | 2-1-018:002 | 8/30/1989 | |
| 80-14-9741 | | Lyndon Roberts Residence | 3-5-013:004 | 8/30/1989 | |
| 80-14-9742 | | Riley Allen Residence | 2-2-029:014 | 8/30/1989 | |
| 80-14-9743 | | George P. Castle Mountain Residence | 2-2-031:017 | 8/30/1989 | |
| 80-14-9744 | | John & Kate Kelly Residence | 3-1-041:010 | 8/30/1989 | 8/27/1991 |
| 80-14-9749 | | Church of the Crossroads | 2-8-006:017 | 6/28/1991 | 11/20/1992 |
| 80-14-9750 | | A.T. Cooke and P.E. Spalding Residence | 2-5-008:002 | 6/28/1991 | |
| 80-14-9751 | | H. Allen Cook Residence | 2-9-017:018 | 6/28/1991 | |
| 80-14-9752 | | Waioli Tea Room | 2-9-031:001 | 6/28/1991 | 10/30/1998 |
| 80-14-9753 | | Castle Memorial Hall | 2-8-015:001 | 6/28/1991 | |

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| 80-14-9754 | | Richard M. Botley Residence | 3-1-034:012 | 6/28/1991 | |
| 80-14-9755 | | Mrs. Josephine Ketchum Residence | 3-1-033:035 | 6/28/1991 | |
| 80-14-9757 | | Ala Wai Canal | 2-6-Various | 7/17/1992 | 10/28/85 E |
| 80-14-9758 | | Kapiolani Park | 3-1-030:001, 002, | 7/17/1992 | |
| 80-14-9759 | | Roosevelt High School | 2-4-32:02 | 7/17/1992 | |
| 80-14-9762 | | Hawaiian Canoe Malia | None | 6/28/1993 | 12/17/1993 |
| 80-14-9764 | | Ada Gartley Residence | 2-9-002:014 | 6/28/1993 | |
| 80-14-9765 | | Mabel Smyth Memorial Building | 2-1-035:001 | 6/28/1993 | 2/3/1994 |
| 80-14-9766 | | Board of Agriculture and Forestry Building | 2-4-005:018 | 6/28/1993 | |
| 80-14-9767 | | Thomas Victor King Residence | 2-2-046:056 | 6/28/1993 | |
| 80-14-9768 | | Farrington High School | 1-6-021:005 | 6/28/1993 | |
| 80-14-9769 | | August C. Spoehler Residence | 2-9-016:025 | 6/28/1993 | |
| 80-14-9770 | | Eric Fennel Residence | 2-9-008:023 | 9/1/1993 | |
| 80-14-9771 | | Joseph Pratt Residence | 2-2-030:033 | 9/1/1993 | |
| 80-14-9772 | | John and Eleanor Freitas Residence | 2-5-004:007 | 9/1/1993 | |
| 80-14-9773 | | Adolph Egholm Residence | 3-1-033:020 | 8/29/1994 | |
| 80-14-9774 | | Central Intermediate School | 2-1-009:001 | 10/29/1994 | 2/11/2004 |
| 80-14-9775 | | W. W. Goodale Moir Residence | 2-2-049:025 | 10/29/1994 | |
| 80-14-9776 | | Frank and Juliette Lee Residence | 3-2-019:029 | 10/29/1994 | |
| 80-14-9778 | | George Robert Ewart Residence | 1-8-005:031,032 | 5/20/1995 | |
| 80-14-9779 | | Jean Vaughan Gilbert Residence | 2-9-006:009 | 5/20/1995 | |
| 80-14-9780 | | John Francis Gray Stokes Residence (a.k.a. Young Residence) | 2-9-009:015 | 5/20/1995 | |
| 80-14-9781 | | Ephraim V. and Rose Sayers Residence | 2-9-006:021 | 5/20/1995 | |
| 80-14-9782 | | Juliet Montague Guard Residence | 2-9-012:014 | 5/20/1995 | |
| 80-14-9783 | | Shields/Moore Residence | 2-9-014:031 | 5/20/1995 | |
| 80-14-9784 | | George Fred Wright Residence | 2-9-032:027 | 5/20/1995 | |
| 80-14-9785 | | Malcolm and Janet MacIntyre Residence | 2-9-003:002 | 5/20/1995 | |
| 80-14-9787 | | Herbert Austin Residence | 2-9-032:028 | 9/9/1995 | |
| 80-14-9788 | | James A. Lyle Residence (a.k.a. Kenneth and Mae Seto Residence) | 2-9-005:019 | 9/9/1995 | |
| 80-14-9789 | | Clarence H. Dyer Residence (a.k.a. Doak and Majorie Cox Residence) | 2-8-019:029 | 9/9/1995 | |
| 80-14-9790 | | Jean Charlot Residence | 3-5-008:029 | 6/1/1996 | 11/30/2000 |
| 80-14-9791 | | Clinton Briggs Ripley Homestead | 1-8-003:002, | 6/1/1996 | |
| 80-14-9792 | | Louis Butler Residence (a.k.a. Alice Hoogs Residence and Elisabeth | 2-8-019:013 | 9/3/1996 | |

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| 80-14-9793 | | Kenneth and Frances Day Residence (a.k.a. Richard Gosling Residence and Joseph Feraro Residence) | 2-9-015:039 | 9/3/1996 | |
| 80-14-9794 | | Percy Pond Residence (a.k.a. William Clark Residence and Duncan Dempster Residence) | 2-8-019:019 | 9/3/1996 | |
| 80-14-9795 | | Albert E. Coxhead Residence | 2-9-016:013 | 11/2/1996 | |
| 80-14-9796 | | Kaimuki Reservoir, Kaimuki Scout Bowl | 3-2-035:012 (por.) | 11/2/1996 | |
| 80-14-9797 | | James and Virginia Machado Residences ("a.k.a. Machado Homestead" and "The Fair Ladies") | 2-2-007:001,002, 003,037 | 11/2/1996 | |
| 80-14-9798 | | Harold T. Kay Residence | 1-8-029:001 | 3/8/1997 | |
| 80-14-9799 | | Paul Merle Scott Residence | 2-9-032:040 | 3/8/1997 | |
| 80-14-9800 | | Johnny Noble Residence | 2-9-014:043 | 3/8/1997 | |
| 80-14-9801 | | Houvener Residence | 2-5-004:016 | 3/8/1997 | |
| 80-14-9804 | | Carl and Francis Bayer Residence | 3-6-003:012 | 7/19/1997 | |
| 80-14-9805 | | William Schieber Residence | 2-9-007:009 | 7/19/1997 | |
| 80-14-9806 | | James Cockburn Residence | 2-9-008:029 | 9/27/1997 | |
| 80-14-9809 | | Manoa Chinese Cemetery | 2-9-043:001 | 9/27/1997 | |
| 80-14-9810 | | Irvine Paris Residence | 2-5-009:015 | 9/27/1997 | |
| 80-14-9811 | 80-14-9717 | C.W. Case Deering Residence | 2-5-016:030 | 4/25/1998 | |
| 80-14-9812 | | Charlotte Erickson Meyer/William C. Furer Residence | 2-9-008:036 | 4/25/1998 | |
| 80-14-9813 | | Francis and Janetta Peterson Residence | 2-9-032:012 | 4/25/1998 | |
| 80-14-9814 | | Alice Jones/Abraham Lewis Residence | 2-9-001:025 | 4/25/1998 | |
| 80-14-9818 | | George Yanagihara Residence | 3-2-017:010 | 8/29/1998 | |
| 80-14-9819 | | Charles Martin House | 3-1-015:053 | 8/29/1998 | |
| 80-14-9820 | | Leroy Bush Residence | 2-9-032:024 | 8/29/1998 | |
| 80-14-9821 | | Cornelia W. Good Residence | 2-9-008:021(1) | 8/29/1998 | |
| 80-14-9822 | | Alfa Hatch Residence | 2-9-034:006 | 4/24/1999 | |
| 80-14-9823 | | Dr. Henry Bicknell Residence | 2-09-006:012 | 8/21/1999 | |
| 80-14-9824 | | East-West Center Complex | 2-8-023:005 | 8/21/1999 | |
| 80-14-9825 | | Tennent Art Foundation Gallery | 2-2-003:075&076 | 8/21/1999 | |
| 80-14-9826 | | May/Spalding Residence | 2-9-006:008 | 8/21/1999 | |
| 80-14-9827 | | 3029 Oahu Avenue | 2-9-032:053 | 12/4/1999 | |
| 80-14-9828 | | 3033 Oahu Avenue | 2-9-032:019 | 12/4/1999 | |
| 80-14-9829 | | Irwin Memorial Park | 2-1-013:007 | 12/4/1999 | |
| 80-14-9830 | | Hawaii Shingon Mission | 2-3-018:004 | 8/26/2000 | 4/26/2002 |
| 80-14-9831 | | C. L. Crutchfield Residence | 3-3-026:009 | 8/26/2000 | |

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| 80-14-9832 | | Edwin H. Bryan Residence | 2-9-016:015 | 8/26/2000 | |
| 80-14-9833 | | Hale Hani Court | 3-3-032:019 | 8/26/2000 | |
| 80-14-9834 | | Virgil Biggs Residence | 3-2-016:005 | 8/25/2001 | |
| 80-14-9835 | | Residence at 1519 Oliver Street | 2-8-013:082 | 8/25/2001 | |
| 80-14-9836 | | Arthur and Beatrice Greenwell House | 2-5-001:005 | 8/25/2001 | |
| 80-14-9837 | | Mildred M. Yodor House | 2-4-023:008, 069 | 6/29/2002 | |
| 80-14-9838 | | Haumalu (a.k.a. Martha and Frank Gerbode Residence) | 3-1-036:009 | 6/29/2002 | |
| 80-14-9839 | | COLLEGE HILLS TRACT: | | 8/24/2002 | |
| 80-14-9839 | | Mildred Yoder Residence | 2-9-006:022 | 8/24/2002 | |
| 80-14-9839 | | Arthur L. Andrews Residence | 2-9-006:011 | 8/24/2002 | |
| 80-14-9839 | | Walter and Emma Snyder Residence | 2-9-011:010 | 8/24/2002 | |
| 80-14-9839 | | Antonio Perry Residence | 2-9-011:015 | 8/24/2002 | |

National and State Register of Historic Places

| SITE NUMBER | CROSS LIST NUMBER | SITE NAME | TAX MAP KEY | HAWAII REGISTER | NATIONAL REGISTER |
|--------------------|--------------------------|--|--------------------|------------------------|--------------------------|
| 80-14-9839 | | Charles and Vena Reed Residence | 2-9-001:010 | 8/24/2002 | |
| 80-14-9839 | | Leo and Marguerite Miller Residence | 2-9-007:008 | 8/24/2002 | |
| 80-14-9839 | | Ray Morris Residence | 2-9-006:020 | 8/24/2002 | |
| 80-14-9839 | | George and Emily Winant Residence | 2-9-007:021 | 8/24/2002 | |
| 80-14-9839 | | Mark Potter Residence | 2-8-022:020 | 8/24/2002 | |
| 80-14-9839 | | Jane Pell Residence | 2-9-005:035 | 8/24/2002 | |
| 80-14-9839 | | Ida Macdonald Residence | 2-9-006:023 | 8/24/2002 | |
| 80-14-9839 | | J. D. and Laura Marques Residence | 2-9-006:014 | 8/24/2002 | |
| 80-14-9839 | | Frank C. Atherton House | 2-9-002:012 | 8/24/2002 | |
| 80-14-9839 | | Charles and Emma Hottel/Ebert and Sybil Botts Residence | 2-9-001:041 | 8/24/2002 | |
| 80-14-9839 | | Charles H. Hitchcock House | 2-9-005:024 | 8/24/2002 | |
| 80-14-9839 | | Mary Abel Residence | 2-8-020:012 | 8/24/2002 | |
| 80-14-9839 | | Carrie A. Thompson House | 2-8-020:011 | 8/24/2002 | |
| 80-14-9839 | | Henry and Henrietta Bredhoff House | 2-9-012:024 | 8/24/2002 | |
| 80-14-9839 | | Freddie Steere Residence | 2-9-007:006 | 8/24/2002 | |
| 80-14-9839 | | Glazier Residence | 2-8-020:014 | 8/24/2002 | |
| 80-14-9840 | | Heinrich Kreye Residence | 2-9-014:004 | 10/26/2002 | |
| 80-14-9842 | | Catherine H. Richards/William and Emma Goodale Residence | 2-2-045:004 & 005 | 8/2/2003 | |
| 80-14-9843 | | John A. Davis Residence | 2-9-006:024 | 8/2/2003 | |
| 80-14-9844 | | Robert L. Lukens Residence | 2-2-047:012 | 8/2/2003 | |
| 80-14-9845 | | Alice K. Rodenhurst Residence | 3-2-047:036 | 8/2/2003 | |
| 80-14-9846 | | Lanikai Monument | 4-3-009:001 | 8/2/2003 | |
| 80-14-9847 | | Moanalua Community Church | 1-1-010:034 | 8/2/2003 | |
| 80-14-9848 | | Kyoto Gardens of Honolulu | 2-2-020:001 | 11/22/2003 | 2/11/2004 |
| 80-14-9849 | | Hugh G. Peterson, Jr. Residence | 2-5-008:004 | 11/22/2003 | |
| 80-14-9850 | | Anna Rice Cooke/Alice and Philip Spalding Residence | 2-5-008:001 | 11/22/2003 | |
| 80-14-9851 | | Kaumakapili Church | 1-7-031:049 | 9/18/2004 | |
| 80-14-9852 | | David and Martha Thrum House | 2-8-020:040 | 6/25/2005 | |
| 80-14-9853 | | Albert R. "Sunny" Cuhna House | 3-3-007:012 | 7/30/2005 | |
| 80-14-9891 | | William Ninde Chaffee House | 2-9-005:002 | 8/2/2003 | |
| 80-14-9900 | | Dillingham Transportation Building | 2-1-014:003 | | 9/7/1979 |
| 80-14-9901 | | Moana Hotel | 2-6-001:012 | | 8/7/1972 |

National and State Register of Historic Places

| SITE NUMBER | CROSS LIST NUMBER | SITE NAME | TAX MAP KEY | HAWAII REGISTER | NATIONAL REGISTER |
|--------------------|--------------------------|---|--------------------|------------------------|--------------------------|
| 80-14-9903 | | Kamehameha V Post Office | 2-1-002:012 | 2/20/1979 | 5/5/1972 |
| 80-14-9904 | | Queen Emma's Summer Home | 2-2-034:027 | 8/11/1978 | 8/7/1972 |
| 80-14-9905 | | Merchant Street Historic | | | 6/28/1973 |
| 80-14-9905 | | Bishop Bank | 2-1-002:019 | | |
| 80-14-9905 | | Friend Building | 2-1-002:032 | | |
| 80-14-9905 | | Judd Building | 2-1-013:004 | | |
| 80-14-9905 | | Melchers Building | 2-1-020:020 | | |
| 80-14-9905 | | Old Police Station (Walter Murray Gibson Building.) | 2-1-002:057 | | |
| 80-14-9905 | | Royal Saloon | 2-1-002:035 | | |
| 80-14-9905 | | Stagenwald Building | 2-1-013:005 | | |
| 80-14-9905 | | T. R. Foster Building | 1-7-002:035 | | |
| 80-14-9905 | | Waterhouse Warehouse Bldg. | 2-1-002:035 | | |
| 80-14-9905 | | Yokohama Specie Bank | 2-1-002:033 | | |
| 80-14-9906 | | Our Lady of Peace Cathedral | 2-1-010:014 | 7/25/1981 | 8/7/1972 |
| 80-14-9907 | 80-14-1321 | Washington Place/Grounds | 2-1-018:001 | | 8/18/1973 2/20/07 NHL |
| 80-14-9908 | | Ali'iolani Hale | 2-1-025:003 | | 2/2/1972 |
| 80-14-9909 | | Royal Mausoleum | 2-2-021:012 | 1/29/1981 | 8/7/1972 |
| 80-14-9911 | | Punahou School Campus | 2-8-018:001 | | 8/7/1972 |
| 80-14-9912 | | Iolani Palace/Grounds (includes | 2-1-025:002 | | 12/29/62 NHL |
| 80-14-9912 | | Iolani Palace Bandstand | 2-1-025:002 | | 12/1/1978 |
| 80-14-9915 | | St. Andrews Cathedral | 2-1-018:002 | | 7/2/1973 |
| 80-14-9917 | | Royal Brewery | 2-1-031:021 | | 11/29/1972 |
| 80-14-9918 | 80-14-1321 | Iolani Barracks | 2-1-025:002 | | 12/1/1978 |
| 80-14-9925 | | Alexander & Baldwin Building | 2-1-013:001 | 6/2/1979 | 9/7/1979 |
| 80-14-9926 | | McKinley High School | 2-3-009:001 | 5/3/1980 | 8/11/1980 |
| 80-14-9929 | | Aloha Tower | 2-1-001:013 | 1/29/1981 | 5/13/1976 |
| 80-14-9938 | | C. Brewer Building | 2-1-013:003 | 11/19/1979 | 4/2/1980 |
| 80-14-9952 | | Old U.S. Post Office, Custom House and Court House | 2-1-025:004 | | 1/27/1975 |
| 80-14-9964 | | U.S. Immigration Office | 2-1-015:018, 019 | | 8/14/1973 |
| 80-14-9970 | 80-14-1321 | Kapuaiwa Building | 2-1-025:003 | | 7/2/1973 |
| 80-14-9983 | | H. Alexander Walker Residence | 1-8-008:001 | 7/30/1982 | 4/24/1973 |
| 80-14-9986 | | Chinatown Historical District | 1-7-002,003,004 | | 1/17/1973 |
| 80-14-9989 | | Honolulu Academy of Arts | 2-4-014:021 | | 3/25/1972 |
| 80-14-9990 | | Thomas Square | 2-4-001:001 | | 4/25/1972 |
| 80-14-9991 | 80-14-1321 | Kawaiaha'o Church and | 2-1-032:017 | | 12/29/62 NHL |
| 80-14-9991 | 80-14-1321 | Mission Houses | 2-1-032:002 | | 12/29/62 NHL |
| 80-14-9994 | | Jones, Isabella Residence | 2-2-044:024 | 4/16/1994 | |
| 80-15-0002 | | Makani'olu Shelter | 3-8-004:001 | 9/2/1978 | |
| 80-15-0372 | | Kukuipilau Heiau | 4-2-006:002 | 9/14/1984 | 11/16/1984 |

National and State Register of Historic Places

| SITE NUMBER | CROSS LIST NUMBER | SITE NAME | TAX MAP KEY | HAWAII REGISTER | NATIONAL REGISTER |
|--------------------|--------------------------|------------------------------------|--------------------|------------------------|--------------------------|
| 80-15-0382 | | Pohakunui Heiau | 4-1-027:022 | 9/5/1978 | |
| 80-15-0489 & | | Koa (Rabbit Island) | 4-1-014:009 | 1/29/1981 | |
| 80-15-0511 | | Bellows Field Archaeological | 4-1-015:001,015 | | 8/14/1973 |
| 80-15-0516 | | Waimanalo Taro Terraces | 4-1-010:001 | 6/17/1987 | |
| 80-15-1031 | | Pueo Heiau | 4-1-008:005 | 1/29/1981 | |
| 80-15-1037 | | Pahonu Turtle Pond | 4-1-002:007 | 9/2/1978 | |
| 80-15-1355 | | U.S. Coast Guard Makapuu | 3-9-011:001 | | 12/7/1977 |
| 80-15-1362 | | Kawailoa Training School for Girls | 4-2-006:002 | 11/5/1984 | |

RECENT ADDITIONS TO THE HAWAII REGISTER OF HISTORIC PLACES (TO 05/28/2011)

| | | |
|-----------|---|----------------|
| 8/23/2008 | Kapaia Swinging (Pedestrian) Bridge Kapaia (Lihue Vicinity), Kauai | No. 30-11-9077 |
| 4/25/2009 | Weuweu_kawai-iki Fishpond (Coco Palms) Wailua, Kauai | No. 30-03-9052 |
| | Withington Cottage and Harry R. Hewitt Residence 158 and 164 Poloke Place (Tantalus) Honolulu, HI 96822 | No. 80-14-9049 |
| 8/8/2009 | Harold Castle Beach Residence 55 Kailuana Place Kailua, HI 96734 | No. 80-11-9067 |
| | Clarence Cooke Guest Beach House 1548 Mokulua Drive Kailua, HI 96734 | No. 80-11-9064 |
| | Sam and Mary Cooke Residence 2829 Manoa Road Honolulu, HI 96822 | No. 80-14-9066 |
| | Edward Greaney Residence 3115 Noela Street Honolulu, HI 96815 | No. 80-14-9063 |
| | Hakalau Plantation Manager's Residence 29-2301 Old Mamalahoa Highway Hakalau, HI 96710 | No. 10-16-9070 |
| | Fred Harrison Rental Property 3050 Kalakaua Avenue Honolulu, HI 96815 | No. 80-14-9065 |
| | Walter Henderson Residence 82 Halaulani Place Hilo, HI 96720 | No. 10-35-9069 |
| | W. H. Hill Residence 91 Hulaulani Place Hilo, HI 96720 | No. 35-10-9069 |
| | Honolulu Star Bulletin Building 121/125 Merchant Street | No. 80-14-9061 |

Honolulu, HI 96813

Honouliuli Internment Camp
Waipahu, HI

No. 80-08-9068

Levi Lyman Residence
40 Halaulani Place
Hilo, HI 96720

No. 10-35-9069

Patrick McGuinness Residence
30 Halaulani Place
Hilo, HI 96720

No. 10-35-9069

Edward Moses Residence
105 Halaulani Place
Hilo, HI 96720

No. 10-35-9069

James Parker Residence
72 Halaulani Place
Hilo, HI 96720

No. 10-35-9069

Puakea Ranch
56-2864 Akoni Pule Highway
Hawi, HI 96719

No. 10-02-9071

Hermann Rohrig Residence
2146 Kamehameha Avenue
Honolulu, HI 96822

No. 80-14-9062

Ed Sheehan Residence
239 Kulamanu Place
Honolulu, HI 96816

No. 80-14-9060

Herbert Tuslow Residence
52 Halaulani Place
Hilo, HI 96720

No. 10-35-9069

| | | |
|-----------|---|----------------|
| 1/9/2010 | Hawaiian Trail and Mountain Club 41-023 Puuone Street Waimanalo, HI 96795 | No. 80-15-9072 |
| | Helene Morgan Residence 3040 Diamond Head Road Honolulu, HI 96813 | No. 80-14-9073 |
| | Thomas Petrie Residence 1916 Manoa Road Honolulu, HI 96822 | No. 80-14-9071 |
| | Tom/Yee Court 3405. 3409B Wela and 3554 Trousseau Street Honolulu, HI 968116 | No. 80-14-9070 |
| 4/24/2010 | Charles Cooke Residence 2869 Manoa Road Honolulu, HI 96822 | No. 80-14-9081 |
| | James R. Judd Residence 2490 Makiki Heights Drive Honolulu, HI 96822 | No. 80-14-9079 |
| | Alvin Melim Residence 3038 Oahu Avenue Honolulu, HI 96822 | No. 80-14-9082 |
| | Old Laupahoehoe Jodo Mission 36-1006 Laupahoehoe Point Road Laupahoehoe, HI 94044 | No. 10-16-9078 |
| | Alfred Sturgis Residence 118 Poloke Place Honolulu, HI 96822 | No. 80-14-9080 |
| 6/26/2010 | Paul and Catherine Withington Residence 3150 Huelani Place Honolulu, HI 96822 | No. 80-14-9084 |

| | | |
|-----------|--|------------------------|
| | Watson and Louise Ballentyne Residence 2838 Oahu Avenue Honolulu, HI 96822 | No. 80-14-9085 |
| | Leong and Mildred (Chang) Young Residence 847 Paahana Street Honolulu, HI 96816 | No. 80-14-9086 |
| 8/14/2010 | Tahitienne Apartments 2999 Kalakaua Ave. Honolulu, HI 96815 | No. 80-14-9087 |
| | Kin and Lau Shee Lum Residence 840 15 th Avenue Honolulu, HI 96816 | No. 80-14-9088 |
| | Henry Ho Court 1252, 1252A, 1256, 1256A Ekaha Avenue Honolulu, HI 96816 | No. 80-14-9089 |
| | Hamakua Steel Bridges Mamalahoa Highway Hamakua District, HI | No. 10-16 and -26-9090 |
| | Haiku Fruit and Packing Company Manager's House 1061 Kokomo Road Haiku, HI 96708 | No. 50-06-9091 |
| 11/6/2010 | Fred Baldwin Memorial Home 1813 Baldwin Avenue Makawao, HI 96768 | No. 50-05-9092 |
| | Franklin and Mary Bechert Residence 2872 Manoa Road Honolulu, HI 96822 | No. 80-14-9093 |
| | James Haynes Residence 3026 Kalakaua Avenue Honolulu, HI 96815 | No. 80-14-9094 |
| | Fort Ruger Market 3585 Alohea Avenue Honolulu, HI 96816 | No. 80-14-9095 |
| | John and Julia Stone Residence 2746 Kahawai Street Honolulu, HI 96822 | No. 80-14-9096 |

| | | |
|-----------|--|----------------|
| | James Mann Residence 125 Kalaiopua Place Honolulu, HI 96822 | No. 80-14-9097 |
| 5/28/2011 | Trentino or Kahuku Plantation Manager's Beach Cottage 57-435 Honokawela Drive Kahuku, HI 96731 | No. 80-02-9099 |
| | Hung Lum Chun Residence 2432 Alewa Drive Honolulu, HI 96817 | No. 80-14-9100 |
| | Minnie Churchill Residence 2424 East Manoa Road Honolulu, HI 96822 | No. 80-14-9101 |
| | Alfred Hocking Beach House 41-849 Laumilo Street Waimanalo, HI 96795 | No. 80-15-9102 |
| | Dr. Edward and Elsie Lau Residence 17 Kepola Place Honolulu, HI 96817 | No. 80-14-9103 |
| | Cyrus and Amy Loo Residence 2727 Kolonahe Place Honolulu, HI 96813 | No. 80-14-9104 |
| | John and Jane Millen Residence 3797 Diamond Head Circle Honolulu, HI 96822 | no. 80-14-9105 |



SECTION 2

**State of Hawaii
Office of Hawaiian Affairs (OHA)**

AND

Historic Hawaii Foundation (HHF)

AND

Hui Malama I Na Kupuna O Hawaii Nei (Hui Malama)



STATE OF HAWAII
OFFICE OF HAWAIIAN AFFAIRS
711 KAPI'OLANI BOULEVARD, SUITE 500
HONOLULU, HAWAII 96813

HRD05/1925

July 12, 2005

Douglas Oringer
Clayton Group Services
970 North Kalaheo Avenue
Suite C-316
Kailua, HI 96734

RE: Request for Comment on the Proposed Verizon Memorial Cell Site, Kāne'ōhe, O'ahu, TMK (1) 4-5-42: Parcel 1.

Dear Mr. Oringer,

The Office of Hawaiian Affairs (OHA) is in receipt of your June 27, 2005 request for comment on the above listed proposed project, TMK (1) 4-5-42: Parcel 1. OHA offers the following comments:

Verizon Hawaii proposes installing a 35 foot monopole with twelve, 8-foot high antennas at the Ko'olau Golf Club. OHA has no comments concerning the proposed project at this time.

OHA further requests your assurances that if the project goes forward, should iwi or Native Hawaiian cultural or traditional deposits be found during ground disturbance, work will cease, and the appropriate agencies will be contacted pursuant to applicable law.

Thank you for the opportunity to comment. If you have further questions or concerns, please contact Jesse Yorck at (808) 594-0239 or jessey@oha.org.

'O wau iho nō,

A handwritten signature in black ink, appearing to read "Clyde W. Nāmu'o".

Clyde W. Nāmu'o
Administrator

Honolulu Regional Office

970 North Kalaheo Avenue
Suite C-316
Kailua, Oahu, HI 96734
808.531.6708
Fax 808.537.4084
www.claytongrp.com



FAX TRANSMITTAL

DATE: June 9, 2005
NO. OF PAGES: 4
(including cover page)

TO: Historic Hawaii Foundation (HHF)
ATTN: Mr. David Scott
FAX #: (808) 523-0800
Email: hhfd@lava.net

FROM: Douglas Oringer
Clayton Group Services
Honolulu Regional Office

RE: Historic sites list information request for a proposed FCC telecommunications project site on the Island of Oahu

Clayton Group Services, Inc. is conducting a site evaluation for the Federal Communications Commission (FCC) of a new proposed Verizon Wireless (VZW) cell phone antenna tower site to be located on the island of Oahu (see enclosed site map):

- The VZW HON Hawaiian Memorial Cell Site (VZW Project ID# 2004005294) located at the Ko'olau Golf Club Maintenance Facility, 45-550 Kionaole Road (Portion of Tax Map Key [TMK] [1] 4-5-42: Parcel 1), approximately 1/2-mile W/SW of the Kionaole Road overpass that crosses the H-3 Freeway in Kaneohe, Oahu, Hawaii (Lat/Long: 21.3783°N, 157.8003°W [WGS84/NAD83]). The proposed action involves installing a new 35-foot high steel monopole to the northwest of the maintenance complex, along the fenceline that separates the Golf Course parcel from the H-3 Freeway, and mounting twelve, 8-foot high panel antennas at the top. The finished height of the antenna tips will be flush with the top of the tower. A pre-fabricated equipment shelter will also be installed at ground level by the base of the monopole, and the proposed facility will be secured within a fenced enclosure.

We are requesting information from local Hawaiian groups on any Native Hawaiian Religious Sites, Historic Places, and/or other concerns at the proposed project site.

Per NEPA (National Environmental Policy Act) & NHPA (National Historic Preservation Act) 106 Process guidelines, please provide us with *written* documentation of your findings within 30 days. If you have any questions, please call me at (808) 531-6708. Thank you for your assistance. Mahalo!

**IF YOU ARE EXPERIENCING DIFFICULTY WITH THIS TRANSMISSION,
PLEASE CALL US AT (808) 531-6708.**

CONFIDENTIAL TRANSMISSION

This facsimile transmission is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law, also the sender asserts a proprietary interest in the material contained herein and any unauthorized use by recipient is forbidden. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately, and return the original message to us at the above address via the U.S. postal services. Thank you for your cooperation.

Honolulu Regional Office

970 North Kalaheo Avenue
Suite C-316
Kailua, Oahu, HI 96734
808.531.6708
Fax 808.537.4084
www.claytongrp.com



FAX TRANSMITTAL

DATE: June 27, 2005
NO. OF PAGES: 4
(including cover page)

TO: Hui Malama (Hui Malama I Na Kupuna O Hawai'i Nei)
ATTN: Mr. Charles K. Maxwell, Sr., Po'o / Mr. Edward Ayau, Esq.
EMAIL: "Charles K. Maxwell" <kale@moolelo.com>
"halealoha" <halealoha@wave.hicv.net>

FROM: Douglas Oringer
Clayton Group Services, Inc.
Honolulu Regional Office

RE: Historic sites list information request for a proposed FCC telecommunications project site on Island of Hawaii

Clayton Group Services, Inc. is conducting a site evaluation for the Federal Communications Commission (FCC) of a new proposed Verizon Wireless (VZW) cell phone antenna tower site to be located on the island of Oahu (see enclosed site map):

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SECTION 3

**Tower Construction Notification System (TCNS)
Site Registration Confirmation**

AND

**Notice of Organizations Sent TCNS Data
Tribal Correspondence
FCC Clearance**

From: <towernotifyinfo@fcc.gov>
To: <doringer@claytongrp.com>
Date: 8/9/2005 6:35:47 PM
Subject: Proposed Tower Structure Info

Dear Douglas A Oringer Mr.,

Thank you for submitting a notification regarding your proposed structure via the Tower Construction Notification Application. Note that the FCC has assigned a unique Notification ID number for this proposed structure.

You will need to reference this Notification ID number when you update your project's Status with us. Below are the details you provided for the tower you have proposed to construct:

Notification Received: 08/09/2005

Notification ID: 5917
Entity Name: Cellco Partnership dba Verizon Wireless (VZW)
Individual or Contact Name: Douglas A Oringer Mr.

Street Address: 970 N. Kalaheo Avenue
Street Address 2: Suite C-316
City: Kailua, Oahu
State: HAWAII
Zip Code: 96734
Phone: 808-531-6708
Email: doringer@claytongrp.com

Structure Type: BPOLE - Building with Pole
Latitude: 21 deg 22 min 42 sec N
Longitude: 157 deg 48 min 01 W
Location Description: Ko'olau Golf Club, 45-550 Kionaole Road
City: Kaneohe, Oahu
State: HAWAII
Ground Elevation: 109.7 meters
Support Structure: 10.7 meters above ground level
Overall Structure: 10.7 meters above ground level
Overall Height AMSL: 120.4 meters above mean sea level



Tower Construction Notification

[FCC](#) > [WTB](#) > Tower Construction Notification

[FCC Site Map](#)

Tower Construction Notification Update Status

▶ [Notifications Home](#)

Update the status of a proposed tower construction on or near designated tribal land, historic preservation or environmentally sensitive areas.

Status of Notification ID 5917

- Proposed** — Project Proposed
- Abandoned** — Project Abandoned
- Constructed** — Project Constructed

UPDATE

The contact and structure information associated with this notification is listed below.

Notification Information

Notification Submitted: **08/09/2005**

Notifier Information

Individual Name:

Entity Name: **Cellco Partnership dba Verizon Wireless (VZW)**

Contact Name: **Douglas A Oringer Mr.**

PO Box:

Address: **970 N. Kalaheo Avenue**
Suite C-316

City: **Kailua, Oahu**

State: **HAWAII**

Zip Code: **96734**

Phone: **808-531-6708**

Email: **doringer@claytongrp.com**

Structure Data

Structure Type: **BPOLE - Building with Pole**

NAD83 Latitude: **21 ° 22 ' 42.0 " N(+)**

NAD83 Longitude: **157 ° 48 ' 1.0 " W(+)**

Address or Geographical Location Description: **Ko'olau Golf Club, 45-550 Kionaole Road**

City: **Kaneohe, Oahu**

State: **HAWAII**

County: **HONOLULU**

Ground Elevation: **109.7 meters**

Support Structure Height: **10.7 meters above ground level**

Overall Structure Height: **10.7 meters above ground level**

Overall Height Above Mean Sea Level: **120.4 meters**

ASR Help

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ASR Online Systems

[TOWAIR- CORES/ASR Registration](#) - [ASR Online Filing](#) - [Application Search](#) - [Registration Search](#)

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Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Phone: 1-888-CALL-FCC (1-888-225-5322)
TTY: 1-888-TELL-FCC (1-888-835-5322)
Fax: 1-866-418-0232

- [Web Policies & Privacy Statement](#)
- [Required Browser Plug-ins](#)
- [Customer Service Standards](#)

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Individual or Contact Name: Douglas A Oringer Mr.

Street Address: 970 N. Kalaheo Avenue
Street Address 2: Suite C-316
City: Kailua, Oahu
State: HAWAII
Zip Code: 96734
Phone: 808-531-6708
Email: doringer@claytongrp.com

Structure Type: BPOLE - Building with Pole
Latitude: 21 deg 22 min 42 sec N
Longitude: 157 deg 48 min 01 W
Location Description: Ko'olau Golf Club, 45-550 Kionaole Road
City: Kaneohe, Oahu
State: HAWAII
Ground Elevation: 109.7 meters
Support Structure: 10.7 meters above ground level
Overall Structure: 10.7 meters above ground level
Overall Height AMSL: 120.4 meters above mean sea level

From: <towernotifyinfo@fcc.gov>
To: <doringe@claytongrp.com>
Date: 8/11/2005 10:09:32 PM
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER
CONSTRUCTION NOTIFICATION INFORMATION - Email ID #647419

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received this information include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State and Tribal Historic Preservation Officers (SHPOs and THPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government.

The information you provided was forwarded to the following Tribes, NHOs, SHPOs, and THPOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences:

1. Environmental Director - Chris Simon - Middletown Rancheria - Middletown, CA - regular mail
2. SHPO - Peter Young - Department of Land & Natural Resources - Kapolei, HI - regular mail
3. Acting Administrator - Holly McEldowney - State Historic Preservation Office - Kapolei, HI - regular mail
4. Director of Native Rights Land and Cultu - Lance Foster - Office of Hawaiian Affairs - Honolulu, HI - electronic mail and regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States:

5. Chairman - Michael Jandreau - Lower Brule Sioux Tribal Council - Lower Brule, SD - regular mail
6. Chairman - John Blackhawk - Winnebago Tribal Council - Winnebago, NE - regular mail

7. Governor - Gerald Nailor - Pueblo of Picuris - Penasco, NM - regular mail
8. Governor - Ruben Romero - Pueblo of Taos - Taos, NM - regular mail
9. Chairman - Jeff Houser - Fort Sill Apache Tribe of Oklahoma - Apache, OK - regular mail
10. Chairman - Bennett Arkeketa - Ponca Tribe of Indians of Oklahoma - Ponca City, OK - regular mail
11. NAGPRA Representative - Cecil Pavlat - Sault Ste. Marie Tribe of Chippewa Indians of Michigan - Sault Ste. Marie, MI - electronic mail
Exclusions: I wish to receive project notification for only the Upper Peninsula of Michigan
12. Repatriation Representative - Ernie Wabasha - Lower Sioux Indian Community of Minnesota - Morton, MN - regular mail
13. Chairwoman - Helen Blue - Upper Sioux Community of Minnesota - Granite Falls, MN - regular mail
14. Chairman - Harold Frank - Forest County Potawatomi Community of Wisconsin - Crandon, WI - regular mail
15. President - David Merrill - St. Croix Chippewa Indians of Wisconsin - Webster, WI - regular mail
16. President - Robert Chicks - Stockbridge Munsee Community of Wisconsin - Bowler, WI - regular mail
17. Historic Preservation Officer - Marlin Thompson - Yerington Paiute Tribe - Yerington, NV - regular mail
18. Chairperson - Sherry Cordova - Cocopah Tribal Council - Somerton, AZ - regular mail
19. President - Mike Jackson - Quechan Tribal Council - Yuma, AZ - regular mail
20. Chairman - Robert Valencia - Pascua Yaqui Tribal Council - Tucson, AZ - electronic mail
21. Chairman - Rex Tilousi - Havasupai Tribal Council - Supai, AZ - regular mail
22. Chairperson - Vivian Burdette - Tonto Apache Tribal Council - Payson, AZ - regular mail
23. Chairman - Glenn Wasson - Lovelock Tribal Council - Lovelock, NV - regular mail
24. Chairperson - Carmen Bradley - Kaibab Paiute Tribal Council - Fredonia, AZ - regular mail

25. Environmental Director - Calvin Meyers - Moapa Business Council - Moapa, NV - regular mail
26. Chairperson - Lora Tom - Paiute Indian Tribe of Utah Tribal Council - Cedar City, UT - regular mail
27. President - Johnny Lehi - San Juan Southern Paiute Council - Tuba City, AZ - regular mail
28. Chairman - Narcisco Cunanan - Nooksack Indian Tribal Council - Deming, WA - regular mail
29. Chairman - Ronald Charles - Port Gamble S'Klallam Tribe - Kingston, WA - regular mail
30. Chairman - Herman Williams - Tulalip Board of Directors - Marysville, WA - regular mail
31. Chairperson - Marilyn Scott - Upper Skagit Tribal Council - Sedro Woolley, WA - regular mail
32. Chairperson - Cheryl Kennedy - Confederated Tribes of the Grand Ronde Community of Oregon - Grand Ronde, OR - regular mail
33. Chairman - Delores Pigsley - Siletz Tribal Council - Siletz, OR - regular mail
34. Chairman - Glen Nenema - Kalispel Business Committee - Usk, WA - regular mail
35. Chairman - Allen Foreman - Klamath General Council - Chiloquin, OR - regular mail
36. Chairman - Wm. Ron Allen - Jamestown S'Klallam Tribal Council - Sequim, WA - regular mail
37. Chairman - Dennis Sullivan - Lower Elwha Tribal Council - Port Angeles, WA - regular mail
38. Chairman - Russell Woodruff - Quileute Tribal Council - LaPush, WA - regular mail
39. President - Pearl Capoeman-Baller - Quinault Indian Nation - Business Committee - Taholah, WA - regular mail
40. Chairman - Carl Johnson - Shoalwater Bay Tribal Council - Tokeland, WA - regular mail
41. Chairman - Joseph Mullen - Snoqualmie Tribal Organization - Carnation, WA - regular mail
42. Chairman - Steve Santos - Mechoopda Indian Tribe of the Chico Rancheria - Chico, CA - electronic mail

43. Spokesperson - Christina Arzate - Santa Rosa Band of Mission Indians - Anza, CA - regular mail
44. Chairperson - Frances Benally - Fort Bidwell Reservation - Fort Bidwell, CA - regular mail
45. Chairman - Wayne Mitchum - Colusa Rancheria - Colusa, CA - regular mail
46. Chairwoman - Wanda Balderama - Hopland Reservation - Hopland, CA - electronic mail
47. t - Sandra Younge - Lone Pine Paiute Shoshone Reservation - Lone Pine, CA - electronic mail
48. Cultural Programs Director - Lorraine Frazier - Mooretown Rancheria - Oroville, CA - regular mail
49. Chairman - Clarence Atwell - Santa Rosa Rancheria - Lemoore, CA - regular mail

"Exclusions" above refer to types of tower notifications that the Tribe, NHO, SHPO, or THPO has stated it does not wish to review. TCNS automatically forwards all notifications to all Tribes, NHOs, SHPOs, and THPOs that have an expressed interest in the geographic area of a proposal, as well as Tribes and NHOs that have not limited their geographic areas of interest. However, if a proposal falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribe, NHO, SHPO, or THPO.

Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed above must be afforded a reasonable opportunity to respond to this notification, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4). For those Tribes and NHOs that have specified an interest in the geographic area of a proposed construction, if the Tribe or NHO fails to respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G).

For those Tribes and NHOs that have not designated their geographic areas of interest through TCNS, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or

NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 08/09/2005
Notification ID: 5917
Entity Name: Cellco Partnership dba Verizon Wireless (VZW)
Individual or Contact Name: Douglas A Oringer Mr.
Street Address: 970 N. Kalaheo Avenue Suite C-316
City: Kailua, Oahu
State: HAWAII
Zip Code: 96734
Phone: 808-531-6708
Email: doringer@claytongrp.com
Structure Type: BPOLE - Building with Pole
Latitude: 21 deg 22 min 42.0 sec N
Longitude: 157 deg 48 min 1.0 sec W
Location Description: Ko'olau Golf Club, 45-550 Kionaole Road
City: Kaneohe, Oahu
State: HAWAII
County: HONOLULU
Ground Elevation: 109.7 meters
Support Structure: 10.7 meters above ground level
Overall Structure: 10.7 meters above ground level
Overall Height AMSL: 120.4 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

If you prefer, you may contact the FCC's Universal Licensing System (ULS) hotline by telephone at (717) 338-2888, or toll free at (877) 480-3201. When prompted by the FCC operator, please select Option #2.

Thank you,
Federal Communications Commission



APPENDIX E

NATURAL RESOURCES IMPACTS, REGULATORY AGENCY CORRESPONDENCE

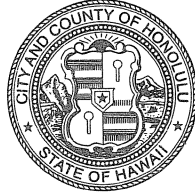


SECTION 1

**City and County of Honolulu
Department of Planning and Permitting**

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4432 • FAX: (808) 527-6743
DEPT. INTERNET: www.honoluluodpp.org • INTERNET: www.honolulu.gov



MUFI HANNEMANN
MAYOR

HENRY ENG, FAICP
DIRECTOR

DAVID K. TANOUÉ
DEPUTY DIRECTOR

2006/ELOG-113 (ST)

January 25, 2006

Mr. Douglas Oringer
Project Engineer
Clayton Group Services, Inc.
970 North Kalaheo Avenue, Suite C-316
Kailua, Hawaii 96734

Dear Mr. Oringer:

Re: Proposed Verizon Wireless Telecommunications
Antenna Tower (VZW Project ID#2004005294)
Ko'olau Golf Club Maintenance Facility Site
45-550 Kionaole Road - Kaneohe
Tax Map Key 4-5-42: 1

This responds to your letter of January 13, 2006, in which you asked us to comment on any potential impacts on historic properties or cultural resources on the above site that may be posed by a proposed telecommunications antenna tower. Please note that in the State of Hawaii, its historic preservation program was established within the State Department of Land and Natural Resources, Historic Preservation Division (SHPD), pursuant to Chapter 6E, Hawaii Revised Statutes (HRS). Therefore, we recommend that you contact SHPD for information concerning the potential impacts of this proposal on historical and/or cultural resources.

Similarly, because the site is located within the State Land Use Conservation District, which is also administered by the Department of Land and Natural Resources (DLNR) and not within the land use jurisdiction of the City and County of Honolulu, we suggest that that you contact the DLNR regarding comments on the proposed telecommunications antenna.

I hope that this information was helpful. Please contact Steve Tagawa of our staff at 523-4817 if you have any questions.

Very truly yours,

A handwritten signature in black ink, appearing to read "Henry Eng".

for Henry Eng, FAICP, Director
Department of Planning and Permitting

HE:fm
cc: DLNR-OCCL



SECTION 2

**United States Department of the Interior
United States Fish & Wildlife Service (USFWS)
Pacific Islands Fish and Wildlife Office**

AND

**State of Hawaii
Department of Land and Natural Resources (DLNR)
Division of Forestry and Wildlife (DOFAW)**



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Pacific Islands Fish and Wildlife Office
300 Ala Moana Boulevard, Room 3-122, Box 50088
Honolulu, Hawaii 96850

In Reply Refer To:
1-2-2005-SP-288

NOV 1 2005

Douglas Oringer
Clayton Group Services
970 North Kalaheo Avenue, Suite C-316
Kailua, Hawaii 96734

Dear Mr. Oringer:

Thank you for your letter dated June 27, 2005, in which you request information concerning the proposed Hawaiian Memorial cell site located at the Koolau Golf Club maintenance facility on Kionaole Road, Kaneohe, Hawaii. The proposal is to install a new 35-foot steel monopole and mounting twelve, 8-foot high panel antennas at the top. The finished height of the antenna tips will be flush with the top of the tower. A pre-fabricated equipment shelter will be installed by the base of the tower. We understand that the Federal Communications Commission has designated the licensees, applicants, tower companies and their representatives as non-Federal representatives for informal consultation. We received your letter on June 28, 2005.

We reviewed the information you provided and pertinent information in our files, including data compiled by the Hawaii Natural Heritage Program. To the best of our knowledge, no federally listed or proposed species, or proposed or designated critical habitat occur on the proposed project site.

We appreciate the opportunity to provide comments on the proposed project. If you have questions regarding these comments, please contact Fish and Wildlife Biologist Elizabeth Sharpe by telephone at (808) 792-9400.

Sincerely,

Patrick Leonard
Field Supervisor

TAKE PRIDE®
IN AMERICA 

LINDA LINGLE
GOVERNOR OF HAWAII



PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

YVONNE IZU
DEPUTY DIRECTOR - WATER

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF FORESTRY AND WILDLIFE
2135 MAKIKI HEIGHTS DRIVE
HONOLULU, HAWAII 96822

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

January 27, 2005

Mr. Douglas Oringer
Clayton Group Services
970 North Kalaheo Avenue, Suite C-316
Kailua, Hawai'i 96734

Dear Mr. Oringer,

We have received proposals(s) for telecommunications antenna cell site(s) as part of your environmental screening review(s). Based on map(s) provided from your office, the project location(s) fall(s) within highly urbanized settings and pose little threat to protected species that we are aware of. You are, however, urged to consult with other regulatory agencies both at federal, state, and local levels to insure that all aspects of the NEOZ process have been addressed. Our response alone does not constitute the final approving authority for your project.

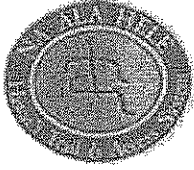
The following information is provided to expedite your review of probable environmental impact to wildlife i.e. plants & animals. Our agency manages a full range of forest reserves, natural area reserves, public hunting/game management areas, seabird sanctuaries, and wetland habitats on Oahu. Additionally, we oversee a number of threatened and endangered species which can be found throughout the island, mainly in rural and wildland settings. Maps of these locations are available for review at our office as mailing them to our numerous clients can be an expensive and difficult task.

In regards listings for the Threatened and Endangered (T&E) Species, Designation of their Critical Habitats, etc. we urge that you consult with one of the U.S. Fish & Wildlife Service as they are currently engaged in the legal process for such designation. You may also consult with their web page for information on listings (current and proposed).

Should you have additional questions, please contact my office at 973-9787. Mahalo!

Sincerely,

Patrick G. Costales
Oahu Branch Manager.



**Oahu Na Ala Hele
Trails & Access Program**

February 7, 2001

Emil Dacayanan
Clayton Group Services
Honolulu Regional Office

SUBJECT: Requested Information

The Department of Land and Natural Resources (DLNR) Division of Forestry and Wildlife's (DOFAW's) Na Ala Hele (NAH) Trails and Access Program and Protection staff have reviewed your request and have the following comments and recommendations below.

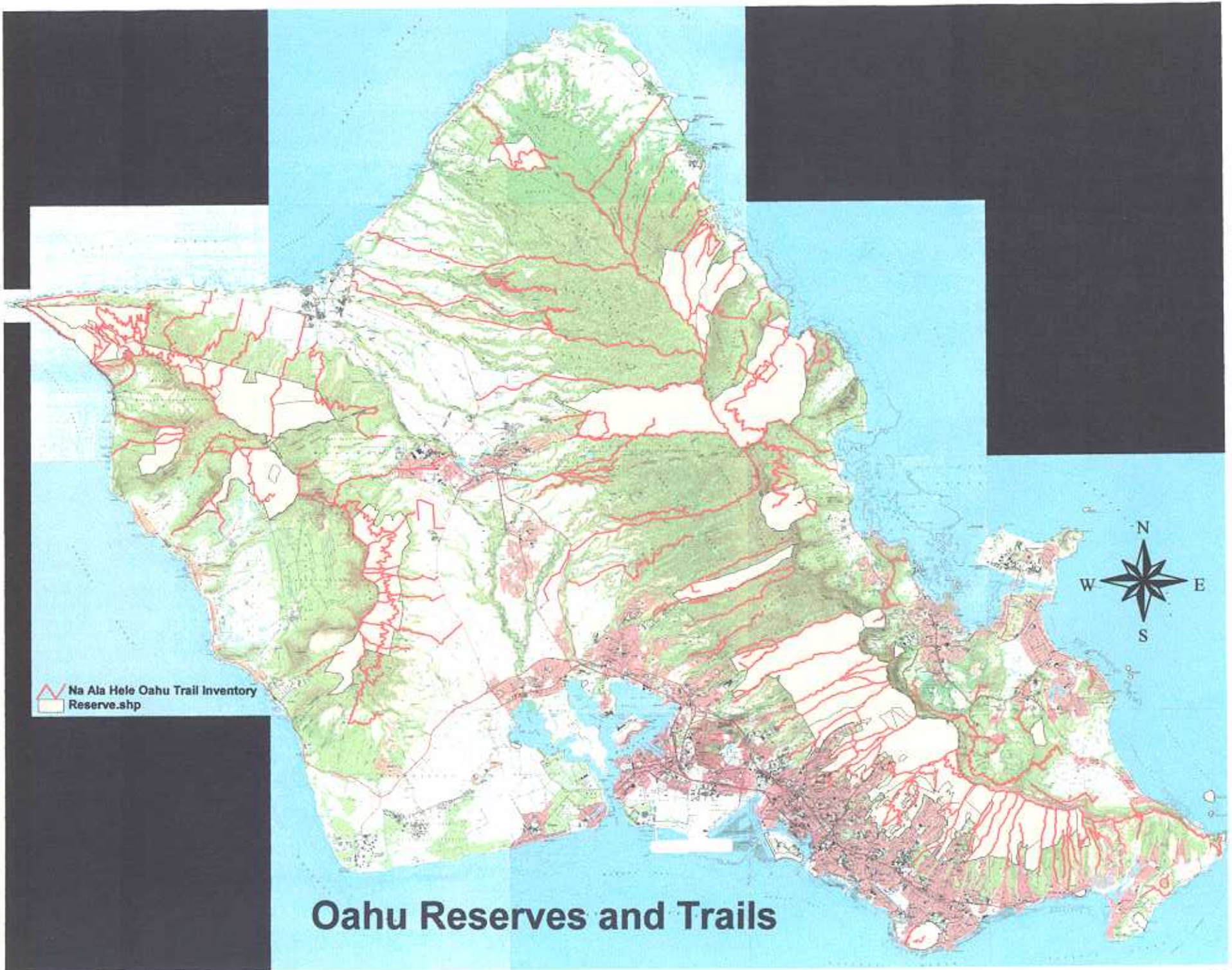
Comments:

1. We have enclosed a map of the reserves and trails on Oahu.
2. The cell site is not within a protected area.
3. The cell site is not going to threaten endangered Species.
4. The areas DOFAW manages are mostly within the conservation district on State lands only.
5. The site in question is outside the conservation district and is not on State land.

Recommendations:

1. Please file and refer to the attached map before making future request.
2. If future project areas or sites fall upon or within one of the reserves or trails shown on the attached map then a request for comments from our division is justifiable.

Mahalo



Na Ala Hele Oahu Trail Inventory
Reserve.shp

Oahu Reserves and Trails

0 20 Miles



SECTION 3

U.S. Army Corp of Engineers (USACE) Clearance



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

REPLY TO
ATTENTION OF

July 8, 2005

Regulatory Branch

Mr. Douglas Oringer
Clayton Group Services, Inc.
970 North Kalaheo Ave., #C316
Kailua, Hawaii 96734

Dear Mr. Oringer:

This letter responds to your request for a jurisdictional determination dated June 27, 2005 for the following proposed FCC telecommunication sites:

Hawaiian Memorial Cell Site, Kaneohe, HI TMK 4-5-42:1, POH-2005-373
Kaunakakai Cell Site, Molokai, HI TMK 5-3-11:64, POH-2005-374

Based on the information provided and pursuant to Section 10 of the Rivers and Harbors Act (RHA) and Section 404 of the Clean Water Act (CWA), I have determined that there are no waters of the U.S., including wetlands and no proposed placement or discharge of dredged and/or fill material into waters of the U.S. (33 U.S.C. 1344) by these antenna sites and therefore a Department of the Army (DA) permit will not be required. This does not relieve you from obtaining other authorizations from the State of Hawaii, or the counties of Honolulu and Maui.

If you have any questions concerning this determination, please contact Ms. Paulette Choy of my staff at 438-2303 and reference the above file numbers.

Sincerely,

A handwritten signature in black ink, appearing to read "George P. Young", with a long horizontal flourish extending to the right.

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



APPENDIX F

HISTORIC PROPERTIES ASSESSMENT REPORT

T. S. Dye & Colleagues, Archaeologists, Inc.

735 Bishop St., Suite 315, Honolulu, Hawai'i 96813

Historic Properties Assessment for the Proposed
Verizon Wireless (VZW) Hawaiian Memorial Cell
Site (#2004005294), Located at the Ko'olau Golf
Club Maintenance Facility at 45-550 Kionaole Road,
Kāne'ōhe, Ko'olaupoko, O'ahu Island,
TMK:(1)4-5-042:001 por.*

Thomas S. Dye, Ph.D. Elaine H. R. Jourdane
Kristin M. Macak

October 4, 2007

Applicant: Bureau Veritas North America, Inc.

Applicant's Consultant: T. S. Dye & Colleagues, Archaeologists, Inc.

Location: 45-550 Kionaole Road, Kāne'ōhe, Ko'olaupoko, O'ahu Island.

Tax map key: (1)4-5-042:001 por.

Request: Proposed Verizon Hawaiian Memorial Cell Site #2004005294.

Direct Effect: No historic properties in area of potential effect (APE) for direct effects.

Visual Effect: No historic properties in APE for visual effects.

1 Introduction

At the request of Bureau Veritas North America, T. S. Dye & Colleagues, Archaeologists, Inc. conducted an historic properties assessment of a parcel for the proposed Verizon Hawaiian Memorial cellular site. The primary focus of the project was on the discovery and appropriate treatment of historic properties within the APE. The goals of the investigation were to determine whether installation of a new 35 ft. high, self-supporting antenna pole at the Ko'olau Golf Club maintenance facility, and a new associated equipment cabinet will have direct or visual effects on historic properties.

*Bureau Veritas North America, Inc., 970 North Kalāheo Avenue, Suite C-316, Kailua, HI 96734.

1.1 Project Area

Verizon proposes to install a 35 ft. high antenna pole and associated equipment cabinet at the Kōʻolau Golf Club. The antenna will include 12, 8 ft. high panel antennas at the top of the pole. The proposed Verizon cell site is located adjacent to the existing Kōʻolau Golf Club maintenance facility, within a 12×30 ft., 360 ft.², lease parcel. The site is located in the north central portion of the 219.815 ac. parcel owned by the First Presbyterian Church and identified as TMK:(1)4-5-042:001 (figs. 1, 2, 3).

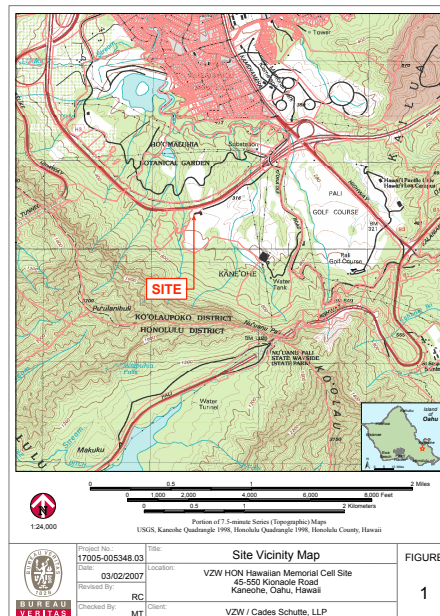


Figure 1. Verizon Hawaiian Memorial proposed cellular site on a portion of the USGS 1998 Kaneohe and Honolulu Quadrangles, courtesy of Bureau Veritas North America, Inc.

A 12×26 ft., 312 ft.², pre-fabricated equipment shelter will be installed at ground level by the base of the antenna pole, and the entire facility will be secured within a fenced enclosure. Ground disturbance is expected for the installation of the antenna pole and equipment facility.

According to the FCC Nationwide Programmatic Agreement, the APE for direct effects on historic properties includes the area of potential ground disturbance during the installation of the tower, equipment shelter and utilities. The APE for visual effects on historic properties for a tower 200 ft. or less is the area within ca. 0.5 mi. of the tower (fig. 2).

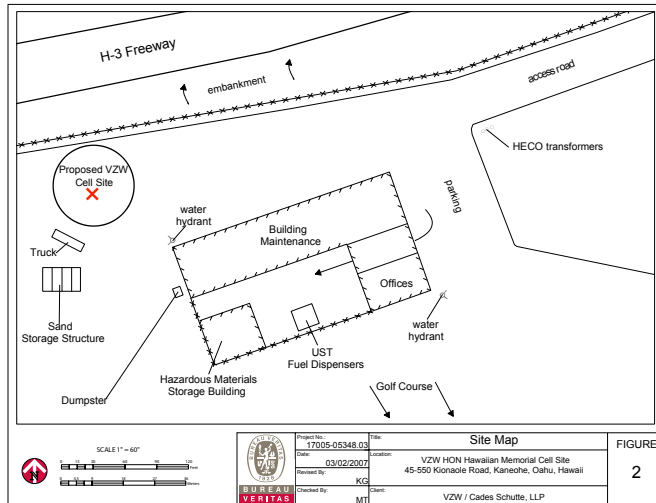


Figure 2. Verizon Hawaiian Memorial proposed cellular site plan, courtesy of Bureau Veritas North America, Inc.

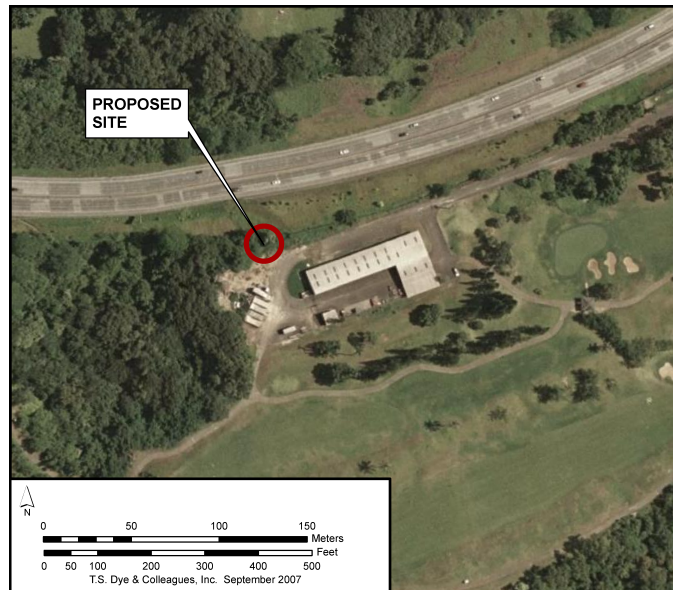


Figure 3. Proposed Verizon Hawaiian Memorial cellular site at Kōʻolau Golf Course maintenance facility. Image adapted from Google Earth.

1.2 Background Research

This archaeological assessment includes the review of historic documents, maps and archaeological reports on file at the State Historic Preservation Division library, the

Hawaii State Archives and the State Bureau of Conveyances. No field inspection of the proposed site was conducted by T. S. Dye & Colleagues, Archaeologists, Inc.

1.2.1 Natural Setting

The Verizon project lies at an elevation of ca. 360 ft. above sea level. The soils are described as Lolekaa Series silty clay, 3 to 8 percent slopes. This series consists of well-drained, soils on fans and terraces that developed in old, gravelly colluvium and alluvium [5]. A perennial stream, Ho'oleina'iwa Stream is located west of the proposed project site, however, there are no wetlands identified in the immediate vicinity. The site receives between 40–60 in. rainfall annually [7].

The subject parcel is currently operated as the Ko'olau Golf Club, a top 100 U.S. golf facility, rated as the most challenging golf course in the United States. The topography of the proposed project site and adjoining land has been graded relatively flat and level, while features of the golf course include winding ravines, extreme elevation changes, and scenic views of cascading waterfalls, lush tropical rain forests, and beautiful ocean vistas.

The subject property is bordered by the H-3 Freeway to the north, beyond which lies the 400 ac. Ho'omaluhia Botanical Gardens. To the south, east and west lie portions of the Ko'olau Golf Club. An asphalt paved access road into the maintenance facility is located to the east, and Forest Reserve lands and the Ko'olau Mountain Range lie to the south and west.

1.2.2 Traditional and Historic Land Use

ahupua'a

The proposed Verizon project site is located in the *ahupua'a* of Kāne'ōhe in the traditional district of Ko'olaupoko, on the southeast central coastal of the island of O'ahu. The physical environment, historic properties, and history of the area have been well documented in several studies [3; 4; 11; 15]. The name Kāne'ōhe, literally “bamboo husband,” is derived from a story in which “a woman compared her husband’s cruelty to the cutting edge of a bamboo knife” [13].

wauke

Handy and Handy [8] describe Kāne'ōhe as a place with one of the most extensive taro *lo'i* on the island, as well as *kula* lands planted in “pandanus, *wauke*, bananas, and sweet potatoes” [8:455–456]. The land at the foot of Nu'uānu *pali* was known as Kekele, famous for its *hala* grove. Fornander relates the traditional allegory about this place.

hala

Kaulu took unto himself a wife, Kekele by name. Kekele was a very handsome woman whose breath and skin were as sweet as the inamona. She was a very quiet woman. Her favorite flowers and vines were the *hala*, *maile*, *ieie* and all the fragrant leaves. When she retired at night she used to sleep with her *hala* wreaths and would wear them until they were dried up; therefore the *hala* at Kekele was planted for her and it grows to this day. [6:532]

By 1866, Kekele is described as a “rich land a while ago but now there are not many plants because animals are permitted there” [17:221]. Cattle and other livestock were introduced into the Kāne'ōhe area as early as the mid 1840s [3:70].

During the *mahele*, Queen Kalama, wife of Kamehameha III claimed the *ahupua'a* of Kāne'ōhe and Kailua. In 1850 the title to these lands was confirmed and Kalama's awards

were designated LCA 4452:12, Royal Patent 983 for Kailua, and LCA 4452:13, Royal Patent 7984 for Kāneʻohe. The proposed Verizon Wireless cell site is located within the Kāneʻohe lands awarded to Kalama.

Kalama was interested in developing her windward lands into a sugar plantation. In 1867, the Queen and prominent Hawaiian judge and businessman, Charles C. Harris, established the Kaneohe Plantation which would utilize her Kāneʻohe and Kailua lands to raise sugar cane [15:20]. Due to the irregular topography, however, it is unlikely that the subject parcel/property was successful in production. After the Queen's death in 1870, Charles Kanaʻina was awarded her Kāneʻohe and Kailua lands during probate, and in 1871 he sold the lands to Charles C. Harris. When Harris died in 1881, his daughter, Nannie R. Rice, inherited his lands and leased portions for animal pastures and cattle raising around 1890 [3:72]. In 1917, Harold K. L. Castle purchased a large amount of Nannie Rice's land including the Kāneʻohe lands comprising the Koʻolau Golf Club property.

Pineapple cultivation, cattle grazing and truck farming occurred within the general vicinity of the project area during the early to mid 1900's [15]. Available tax assessment records show that in the late 1930's the land was leased to Kaneohe Ranch Co. , Ltd. and an 8.9 acre portion to Hygienic Dairy, Ltd. for grazing dairy cattle by 1955. The death of Harold K. L. Castle in 1974 witnessed the transfer of the estate to ʻIolani School. In 1987, ʻIolani School sold the subject parcel to the Minami Group (USA) Inc. In 1998, the Hoʻomaluhia Park officially became the Hoʻomaluhia Botanical Gardens under protection of the Hawaiʻi State Department of Parks and Recreation. Koʻolau Golf Partners LLC. acquired the subject parcel in 1998, until 2006 when the remaining lands were subsequently deeded over to The First Presbyterian Church. The proposed Verizon project is located adjacent to the existing maintenance facility compound built to serve the Koʻolau Golf Club property and facilities.

1.2.3 Archaeological Background

During his survey of Oʻahu in the 1930's McAllister [10] recorded several sites in the general vicinity of the proposed cell site. None of these sites, however, were located within the project area.

Site 354 Kawaʻewaʻe *heiau*, Kāneʻohe side of the ridge which divides the district and Kailua.

Site 355 Small round hill, the name of which is not remembered, near the mountain side of Kawaʻewaʻe *heiau*. Said to be the the location of a *hōlua* slide. According to McAllister's informant, the *hōlua* was destroyed when an attempt was made to plant pineapples in this section.

Site 356 Puʻumakani *heiau*, Kalapuhi, Waikalua, Kāneʻohe. This *heiau* was on the ridge facing the Nuʻuanu Pali, but the stones were removed and used for building a cattle corral farther down the slope. The *heiau* is said to have been built by Olopana.

Site 357 Kamaikola (Kaulekola?), across from the Japanese store at the first bridge beyond the end of Nuʻuanu Pali descent. Name of land where Pakuanui lived and robbed travelers who descended from the *pali* trail.

Site 358 Site, according to William Kalani, of a *heiau*, foot of Nu‘uanu Pali, Kāne‘ohe, at a group of coconut trees.

Several archaeological investigations have been conducted in the upland Kāne‘ohe area, mostly during the development of Ho‘omaluhia Botanical gardens and the Interstate H-3. Detailed reports of these investigations were reviewed [1; 2; 4; 14].

The “Windward Highway” portion of the Interstate H-3 Route borders on the northern portion of the Ko‘olau Golf Course property. Archaeological investigations documented 49 sites with a total of 298 surface and subsurface features [4]. Most of the sites were related to habitation and to agricultural activities from the pre-contact period through the mid-twentieth century. Twenty-six of the 49 sites indicate short-term or limited use of the area. Features that suggested long term habitation or permanent habitation of the area in the pre-contact period were rare. Only three sites were determined to represent permanent habitation and only one site may have been used repeatedly during the pre-contact period. Historic period use of the land included agricultural and ranching activities and economic use of the area for charcoal manufacturing.

Two archaeological investigations were conducted during the development of the Ko‘olau Golf Club (formerly known as the Minami Golf Course), which includes the proposed Verizon cell site [11; 15]. During a survey of the golf course area in 1986, Shun et al. [15] documented the remains of four small archaeological sites: a terrace complex, two charcoal kilns, a habitation complex and a rock wall (State sites 50–80–10–2938 through –2941). Four possible sites were also noted and were described as

found in the areas between the tributary stream beds and gulches at the upper and south portion of the project area. These locations contained a few boulders conceivably forming alignments and terraces; however erosional deposition, ground cover, and generally dense vegetation (particularly *hau* or hibiscus trees), made it impossible to discern whether or not these were sites or just natural features [15:34].

Shun et al. [15] concluded that the golf course project parcel was only marginally utilized for habitation and/or agriculture until the advent of pineapple cultivation and dairy cattle grazing in the early part of the twentieth century. It was recommended that archaeological monitoring be carried out during initial land clearing and bulldozing construction of the golf course in areas where there was potential for uncovering subsurface deposits.

Between 1988 and 1990, archaeological monitoring and data recovery investigations were carried out during development of the golf course [11]. Seventeen sites were investigated, which included temporary lithic activity areas, dry land agricultural terraces, stone mounds, and isolated fire pits. Historic period sites included five charcoal kilns. The archaeological sites documented represent both prehistoric and historic exploitation of the upland Kāne‘ohe area similar to that documented during the archaeological investigations for the Interstate H-3. In addition to the four sites recorded during the initial survey, four additional sites were slated for preservation (table 1). None of the archaeological sites were found in the vicinity of the proposed Verizon cellular site.

Table 1. Historic sites recorded within the Kōolau Golf Course

| Site No. | Description | Preserved |
|---------------|--------------------------------------|-----------|
| 50-80-10-2938 | Terrace site | ✓ |
| 50-80-10-2939 | Covered pit kiln | ✓ |
| 50-80-10-2940 | Habitation complex, covered pit kiln | ✓ |
| 50-80-10-2941 | Rock wall boundary | ✓ |
| 50-80-10-2150 | Lithic activity area | ✓ |
| 50-80-10-4114 | Agricultural terrace | ✓ |
| 50-80-10-4115 | Lithic activity area | ✓ |
| 50-80-10-4128 | Lithic activity area | |
| 50-80-10-4133 | Lithic activity area | |
| 50-80-10-4203 | Stone mounds | ✓ |
| 50-80-10-4148 | Large Fire pit | |
| 50-80-10-4187 | Large Fire pit | |
| 50-80-10-4120 | Small Fire pit | |
| 50-80-10-4184 | Small Fire pit | |
| 50-80-10-4185 | Small Fire pit | |
| 50-80-10-4186 | Small Fire pit | |
| 50-80-10-4067 | Covered pit kiln | |
| 50-80-10-4113 | Covered pit kiln | |
| 50-80-10-4129 | Earth-covered mound kiln | |
| 50-80-10-4149 | Earth-covered mound kiln | |
| 50-80-10-4223 | Dome-covered pit kiln | |

In 1987, Smith [16] conducted an archaeological investigation of a cave site reported by a hiker below the Pali lookout. The cave was identified as the remains of a charcoal kiln, similar to others which have been recorded in nearby areas and was assigned State site number 50-80-14-3711. This site is located more than 0.5 mi. southeast of the proposed Verizon cell site.

There are no historic properties listed on the State or National Register of Historic Properties within 0.5 mi. of the proposed Verizon Wireless project site.

2 Results

No field inspection was conducted of the project site by T. S. Dye & Colleagues, Archaeologists, Inc. However, a field inspection was conducted by Bureau Veritas North America, Inc. and the information and photographs of the project site were reviewed. The results of the inspection show that the project site is located within an open and cleared area adjacent to an existing maintenance facility. The project site was graded and modified during construction of the maintenance facility for the Kōolau Golf Club. No surface historic properties were observed within the proposed project site (fig. 4).

3 Discussion and Conclusions

A review of the archaeological literature, historic maps, and information provided by Bureau Veritas North America, Inc. shows that the project site has undergone extensive modification over its long land use history. The area has also been modified by the



Figure 4. Proposed Verizon Hawaiian Memorial cellular site at Kōʻolau Golf Course maintenance facility, looking northwest. Photograph courtesy of Bureau Veritas.

construction of the existing golf course and maintenance facility. No archaeological sites were identified within the proposed Verizon cellular project area during archaeological investigations conducted during development of the golf course, and the project site was historically used for cattle pastures. Because of the area's extensive land alteration, it is unlikely that subsurface cultural deposits would be encountered. Therefore, the construction of the facility will have no direct effect on historic properties.

Since there are no known historic properties listed on the State or National Register of Historic Places within 0.5 mi. of the proposed project site, the undertaking will have no visual effect on the historic property.

Glossary

Entries for Hawaiian words are excerpted or paraphrased, where possible, from the *Hawaiian Dictionary* [12], or from Lucas [9].

ahupuaʻa Traditional Hawaiian land division usually extending from the uplands to the sea.

hala An indigenous tree, *Pandanus tectorius*.

wauke A small tree or shrub, *Broussonetia papyrifera*, whose bark was made into tapa cloth used for clothing.

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