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GOVERNOR OF HAWAII



DEC 23 2011



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

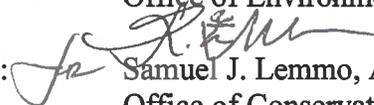
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- KAHOOLAWE ISLAND RESERVE COMMISSION
- LAND
- STATE PARKS

REF:OCCL:MC

FILE NO.: OA-3609  
180 Day Expiration Date: May 30, 2012

MEMORANDUM

To: Gary Hooser, Director  
Office of Environmental Quality Control

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

Subject: Draft Environmental Assessment (DEA) for Conservation District Use Application (CDUA) OA-3609 for a telecommunications facility.

RECEIVED  
DEC 23 2011  
11:03 AM  
P3:25  
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

The Department of Land and Natural Resources has reviewed the draft EA for the subject project, and anticipates a Finding of No Significant Impact (FONSI) determination. Please publish notice of availability for this project in the December 23, 2011 issue of the *Environmental Notice*. We have enclosed one hard copy of the draft EA document and one digital copy. We will follow this with an electronic copy of the applicant's project summary and the OEQC Bulletin Publication Form.

Should you wish to provide comments regarding this project, please respond by the suspense date noted above. If no response is received by the suspense date, we will assume there are no comments. Please contact Michael Cain of our Office of Conservation and Coastal Lands staff at 587-0048 should you have any questions.

Enclosures: *Draft Environmental Assessment (one hard, one digital)*  
*OEQC Pub Form*  
*1 CD with above*

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.  
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HISTORIC PRESERVATION  
KAHOOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

ref:OCCL:MC

CDUA: OA-3609

Acceptance Date: December 2, 2011  
180 Day Expiration Date: May 30, 2012

DEC 13 2011

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

Dear Mr. Young,

**Notice of Acceptance and Preliminary Environmental Determination**  
Conservation District Use Application (CDUA) File No. OA-3609  
(BOARD PERMIT)

This acknowledges the receipt and acceptance for the processing of your CDUA for the installation of a 30-foot tall telecommunications tower and associated structures in the maintenance area of the Ko`oalu Golf Course, Kāne`ohe, Ko`olaupoko, O`ahu, TMK (1) 4 – 5-042:008. The project area is in the General Subzone of the State Land Use Conservation District.

The proposed 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.

After reviewing the application, we find that:

1. The tower is an identified land use within the Conservation District, pursuant to Hawai'i Administrative Rules (HAR) §13-5-22 *Identified land uses in the protective subzone, P-6 PUBLIC PURPOSE USES, (D-2) Transportation systems, transmission facilities for public utilities, water systems, energy generation facilities utilizing the renewable resources of the area ... and communication 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 use requires a Departmental Permit. The final decision as to whether to grant, modify, or deny the permit lies with the Board of the Department of Land and Natural Resources.

OCCL notes that our office began processing this permit application before the amendments to §13-5 went into effect on December 5, 2011.

2. Pursuant to HAR §13-5-40 *Hearings*, no public hearing will be required.
3. Pursuant to HAR §13-5-31 *Permit applications*, the permit requires that an environmental assessment be carried out. A Finding of No Significant Impact (FONSI) to the environment is anticipated for the proposed project. The draft environmental assessment (DEA) for the project will be submitted to the Office of Environmental Quality Control (OEQC) to be published in the *Environmental Notice*.
4. The project does not appear to be in the Special Management Area (SMA).

OCCL will submit a copy of the application for publication in the December 23, 2011 edition of the Office of Environmental Quality Control's *Environmental Notice*. The public comment period on the application will run until January 21, 2012. We will forward any comments to you for a response.

Please submit an additional five hard copies of the EA and application, and nine digital copies, for distribution.

The CDUA will be given to the Board for their consideration after all reviews and evaluations of the proposal have been made.

Should you have any questions, please contact Michael Cain at the Office of Conservation and Coastal Lands at 587-0048.

Sincerely,



WILLIAM J. AILA JR., Chair  
Board of Land and Natural Resources

c: O`ahu Board Member  
Office of Hawaiian Affairs  
OEQC/DOH  
DLNR – Land Division, Historic Preservation, DOFAW  
United States Fish and Wildlife Service  
Hawaii State Library, Kāne`ohe Public Library  
Kāne`ohe Neighborhood Board

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

APPLICANT: Cellco Partnership dba Verizon Wireless  
300 Kahelu Avenue  
Mililani HI 96789

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

CONSULTANT NAME: Les Young  
RealCom Associates  
1506 Mahamoe Place  
Honolulu, Hawaii 96819  
1.808.256.2001

PUBLIC COMMENT DEADLINE: January 21, 2012

PERMITS REQUIRED: CDUP

The proposal calls for a telecommunications facility at the Ko`oalu Golf Course in Kaneohe. 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.

# ***Draft 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

December 2, 2011  
Project No. 17005-005348.04

*Prepared for:*

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



*Move Forward with Confidence*

*Prepared by:*

**BUREAU VERITAS NORTH AMERICA, INC.**  
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## List of Acronyms

APE	Area of Potential Effects
BWS	Board of Water Supply
CAA	Clean Air Act
CDUA	Conservation District Use Area
dBa	Decibels
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
HAR	Hawaii Administrative Rules
HECO	Hawaiian Electric Company
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
NPA	Nationwide Programmatic Agreement
OCCL	Office of Conservation and Coastal Lands
OHA	Office of Hawaiian Affairs
RF	Radio Frequency
SHPD	State Historic Preservation Division
SHPO	State Historic Preservation Officer
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 Draft 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.

This Draft EA is issued for a 30-day public and agency review and comment period. Comments made during this period will be included in the Final EA. These comments, in addition to the Final EA analyses, will be considered in decision-making regarding the proposed cell site.

### 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 Draft 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 Draft EA was prepared and is being submitted in order to obtain the CDUA permit necessary to build the cell site.

This Draft EA was conducted to comply with Chapter 343, Hawaii Revised Statutes (HRS) and Hawaii Administrative Rules (HAR) Title 11, State of Hawaii Department of Health, Chapter 200, Environmental Impact Rules. It is expected that the outcome of this EA will be a Finding of No Significant Impact (FONSI) for the Proposed VZW HON Hawaiian Memorial 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 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.

## **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
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/](http://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 United States Army Corps of Engineers (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 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-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 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."*

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 Kāneʻohe 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 *Nationwide Programmatic Agreement (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 (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 SOCIOECONOMICS**

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 (SO<sub>2</sub>) and hydrogen sulfide (H<sub>2</sub>S), as stipulated in the National Ambient Air Quality Standards (NAAQS) set by the EPA. The State of Hawaii has stricter standards for carbon monoxide and nitrogen dioxide than are set by the NAAQS, and also requires levels of H<sub>2</sub>S 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 <sub>2</sub>	SO <sub>2</sub>	Pb	O <sub>3</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	H <sub>2</sub> S
<b>Averaging Time</b>	1-hour 8-hour	Annual	3-hour 24-hour Annual	Quarterly	8-hour	24-hour Annual	24-hour Annual	1-hour
<b>Standard (µg/m<sup>3</sup>)</b>	10,000 5,000	70	1,300 365 80	1.5	150	150 50	35 15	35

Source: DOH, Clean Air Branch Website



## **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 (NCRP) 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. Federal Communications Commission (FCC) guidelines for RF exposure limits are identical to that of the NCRP 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 bgl).



### **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 radio frequencies (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 National Council on Radiation Protection and Measurements (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 effect 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 Koolauoko; 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 Koolauoko 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 Koolauoko Community are to, *“emphasize physical references to Koolauoko’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 Koolauoko 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 Koolauoko 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 Koolaupoko 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 Koolaupoko 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 Koolaupoko 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 Koolaupoko 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 effect 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 Koolaupoko 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 CDUA 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 National Environmental Policy Act.

**(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 Federal Emergency Management Agency flood insurance rate map (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 United States Army Corp of Engineers 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:

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Lori Ford  
Senior Project Manager  
Health, Safety and Environmental Services

This report reviewed by:

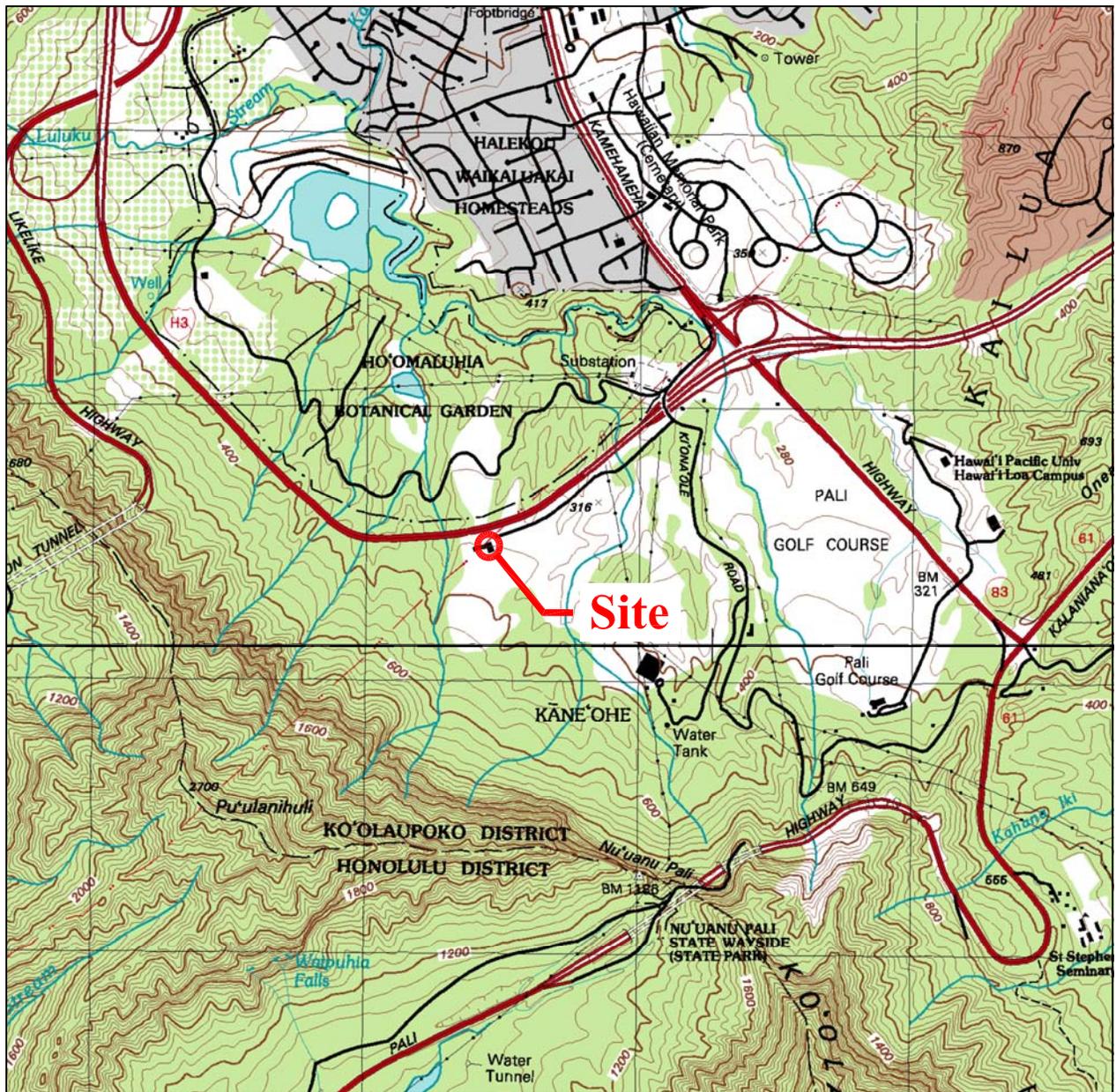
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Tim Swartz  
Senior Project Manager  
Health, Safety and Environmental Services

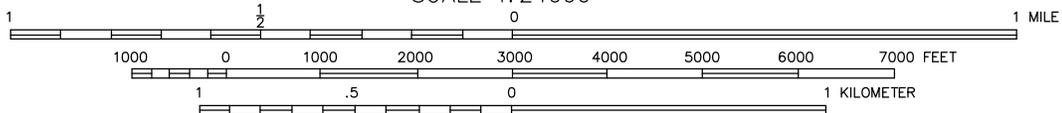
December 2, 2011  
Project No. 17005-005348.04



## FIGURES

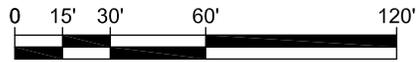
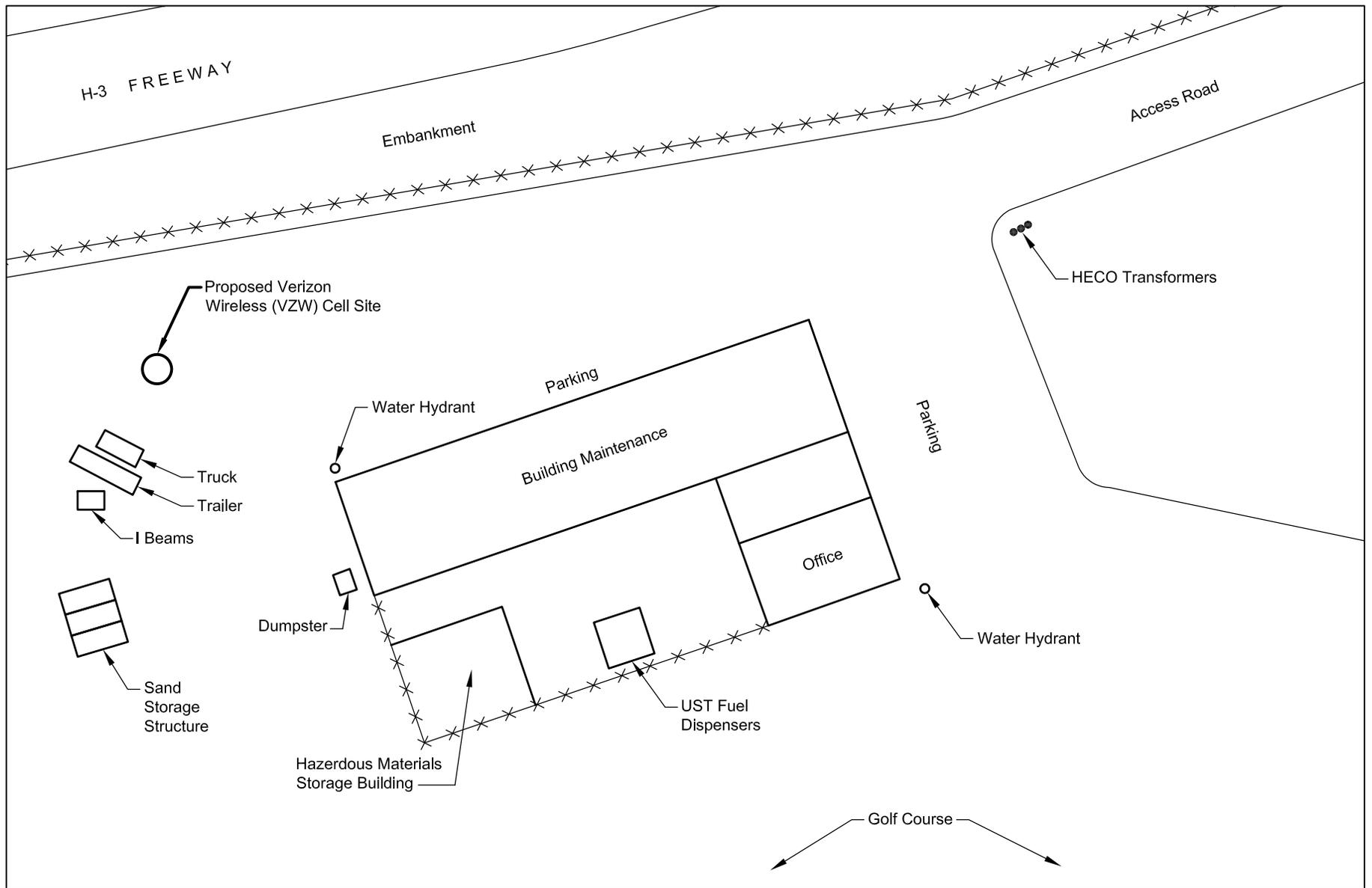


SCALE 1:24000



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

 <b>BUREAU VERITAS</b>	Project No.:	17005-005348.05	Title:	Site Location Map	<b>FIGURE 1</b>
	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
Date:	08/05/08
Revised By:	DG
Checked By:	MA

Title:	Site Vicinity Map
Location:	VZW HON Hawaiian Memorial Cell Site 45-550 Kionaole Road Kaneohe, Oahu, Hawaii
Client:	Verizon Wireless (VZW) / Cades Schutte, LLP

FIGURE  
2



## PHOTOGRAPHS



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



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



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



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



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



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



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



<b>Project Number</b>  17005-005348.05	<b>Description</b>	View of fuel dispensers located south of the maintenance building and southeast of the proposed cell site	<b>Photo 8</b>
	<b>Site Name</b>	VZW HON Hawaiian Memorial Cell Site, 45-550 Kionaole Road, Kaneohe, Hawaii	<b>Photo Date</b>
	<b>Client</b>	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.

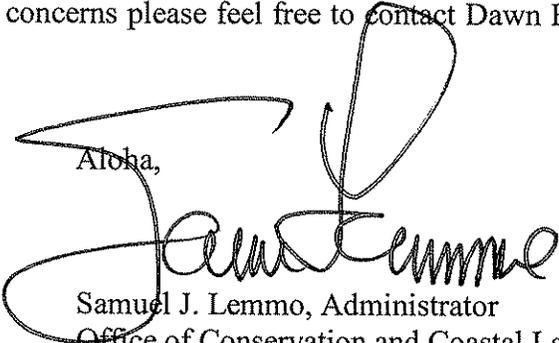
The department notes there is one Conservation District Use Applications (CDUA) on file. CDUA OA-1947 was approved by the Board of Land and Natural Resources (Board) on March 13, 1987, and was subject to 16 terms and conditions. Currently, the OCCL is processing CDUA OA-3253 for a proposed Consolidation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



**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*  
\_\_\_\_\_

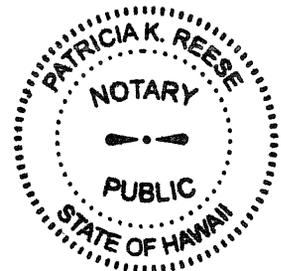
Subscribed to and sworn before me this 8<sup>th</sup> day

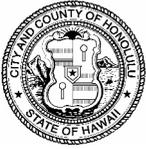
of February A.D. 20 06

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

My commission expires October 07, 2006

**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](mailto:christine.yott@us.bureauveritas.com)  
[www.us.bureauveritas.com](http://www.us.bureauveritas.com)

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



Moe <[moe@fpchawaii.org](mailto: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](mailto:christine.yott@us.bureauveritas.com)  
[www.us.bureauveritas.com](http://www.us.bureauveritas.com)

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

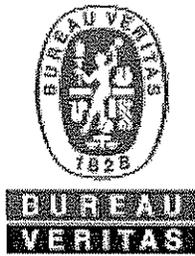


"Dorothy Inouye"  
<[dinouye@hpu.edu](mailto:dinouye@hpu.edu)>  
09/21/2007 11:25 AM

To Christine Yott/USA/VERITAS@VERITAS  
cc "Steve I. Hendricks" <[shendricks@hpu.edu](mailto: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](mailto: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](http://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](mailto:christine.yott@us.bureauveritas.com).

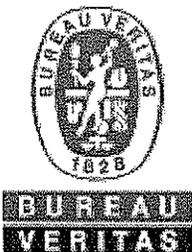
If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

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](http://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](mailto:christine.yott@us.bureauveritas.com).

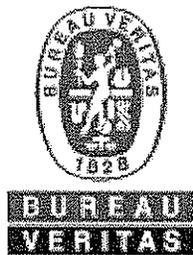
If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

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](http://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.

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.



HECO  
January 21, 2008

Page 3  
Project No. 17005-005348.00

**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](mailto: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:

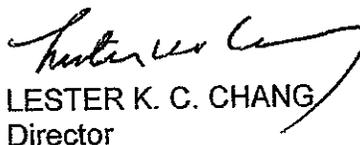
Subject: Proposed Verizon Wireless Cell Site located at Koolau Golf Club  
Maintenance Facility

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](mailto:christine.yott@us.bureauveritas.com)  
[www.us.bureauveritas.com](http://www.us.bureauveritas.com)

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



"Dorothy Inouye"  
<[dinouye@hpu.edu](mailto:dinouye@hpu.edu)>  
09/21/2007 11:25 AM

To Christine Yott/USA/VERITAS@VERITAS  
cc "Steve I. Hendricks" <[shendricks@hpu.edu](mailto: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](mailto: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

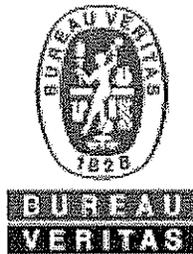
cc: K. Wong/R.Liu  
P. Nakagawa





## **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](http://www.us.bureauveritas.com)



Ms. Kathy Martin, President  
Kane'ohē Outdoor Circle

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

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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](mailto:christine.yott@us.bureauveritas.com).

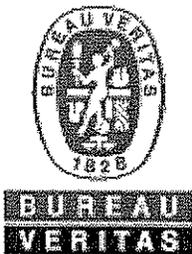
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Regards,

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

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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Project No. 17005-05348.00  
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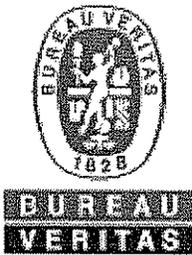
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Christine Yott  
Staff Consultant  
Bureau Veritas North America, Inc.

/kg

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



May 3, 2007

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

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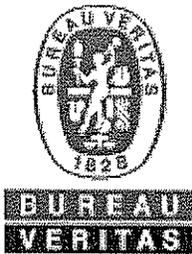
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Attachment: Verizon Wireless HON Hawaiian Memorial Cell Site Figures and Photos



## Second Notice

August 6, 2007

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

Page 2  
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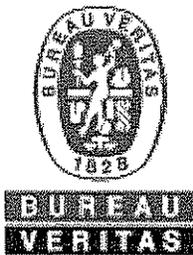
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Bureau Veritas North America, Inc.

/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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The Nature Conservancy  
January 21, 2008

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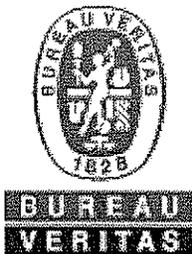
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## Second Notice

August 6, 2007

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Project No. 17005-05348.00

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/kg

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November 9, 2007

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

Project No. 17005-005348.00

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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](http://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](mailto:christine.yott@us.bureauveritas.com).

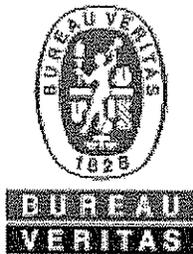
If you have any questions or concern, please feel free to contact me at 808.531.6708. We greatly appreciate your time and assistance in this matter. Mahalo nui loa!

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](http://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](mailto: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:

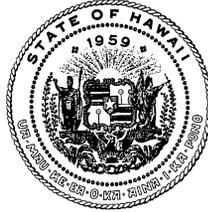
- a) intensive cultivation has altered the land
- b) residential development/urbanization has altered the land
- c) previous grubbing/grading has altered the land
- d) an acceptable archaeological assessment or inventory survey found no historic properties
- e) this project has gone through the historic 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  
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ROBERT K. MASUDA  
DEPUTY DIRECTOR - LAND

DEAN NAKANO  
ACTING DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
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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,

Handwritten signature of Peter T. Young in cursive script.  
Peter T. Young  
State Historic Preservation Officer

ST:jen

**National and State Register of Historic Places**

<b>SITE NUMBER</b>	<b>CROSS LIST NUMBER</b>	<b>SITE NAME</b>	<b>TAX MAP KEY</b>	<b>HAWAII REGISTER</b>	<b>NATIONAL REGISTER</b>
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		Waiialua 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		Waiialua 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		Waiialua 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**

<b>SITE NUMBER</b>	<b>CROSS LIST NUMBER</b>	<b>SITE NAME</b>	<b>TAX MAP KEY</b>	<b>HAWAI'I REGISTER</b>	<b>NATIONAL REGISTER</b>
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		KAWAIILOA 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**

<b>SITE NUMBER</b>	<b>CROSS LIST NUMBER</b>	<b>SITE NAME</b>	<b>TAX MAP KEY</b>	<b>HAWAII REGISTER</b>	<b>NATIONAL REGISTER</b>
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		HAWAII 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		

**National and State Register of Historic Places**

<b>SITE NUMBER</b>	<b>CROSS LIST NUMBER</b>	<b>SITE NAME</b>	<b>TAX MAP KEY</b>	<b>HAWAII REGISTER</b>	<b>NATIONAL REGISTER</b>
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	

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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**

<b>SITE NUMBER</b>	<b>CROSS LIST NUMBER</b>	<b>SITE NAME</b>	<b>TAX MAP KEY</b>	<b>HAWAII REGISTER</b>	<b>NATIONAL REGISTER</b>
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**

<b>SITE NUMBER</b>	<b>CROSS LIST NUMBER</b>	<b>SITE NAME</b>	<b>TAX MAP KEY</b>	<b>HAWAII REGISTER</b>	<b>NATIONAL REGISTER</b>
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 <sup>th</sup> 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](mailto: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):

- 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.

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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

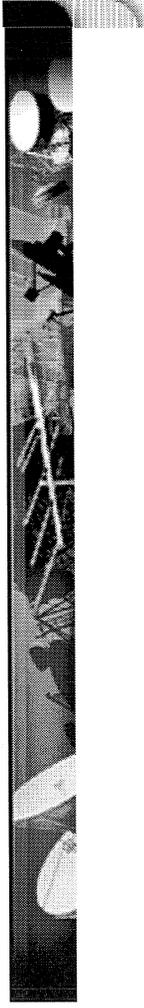
Notification ID: 5917  
Entity Name: Cellco Partnership dba Verizon Wireless (VZW)  
Individual or Contact Name: Douglas A Oringer Mr.

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



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[FCC Site Map](#)

## Tower Construction Notification

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

### 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: **doringerc@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

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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](#)

**From:** <towernotifyinfo@fcc.gov>  
**To:** <doringer@claytongrp.com>  
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Notification ID: 5917  
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Individual or Contact Name: Douglas A Oringer Mr.

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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**

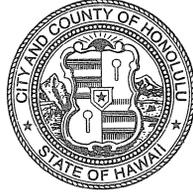


## **SECTION 1**

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

DEPARTMENT OF PLANNING AND PERMITTING  
**CITY AND COUNTY OF HONOLULU**

650 SOUTH KING STREET, 7<sup>TH</sup> FLOOR • HONOLULU, HAWAII 96813  
TELEPHONE: (808) 523-4432 • FAX: (808) 527-6743  
DEPT. INTERNET: [www.honolulu.gov](http://www.honolulu.gov) • INTERNET: [www.honoluludpp.org](http://www.honoluludpp.org)



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 cursive script, 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

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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.

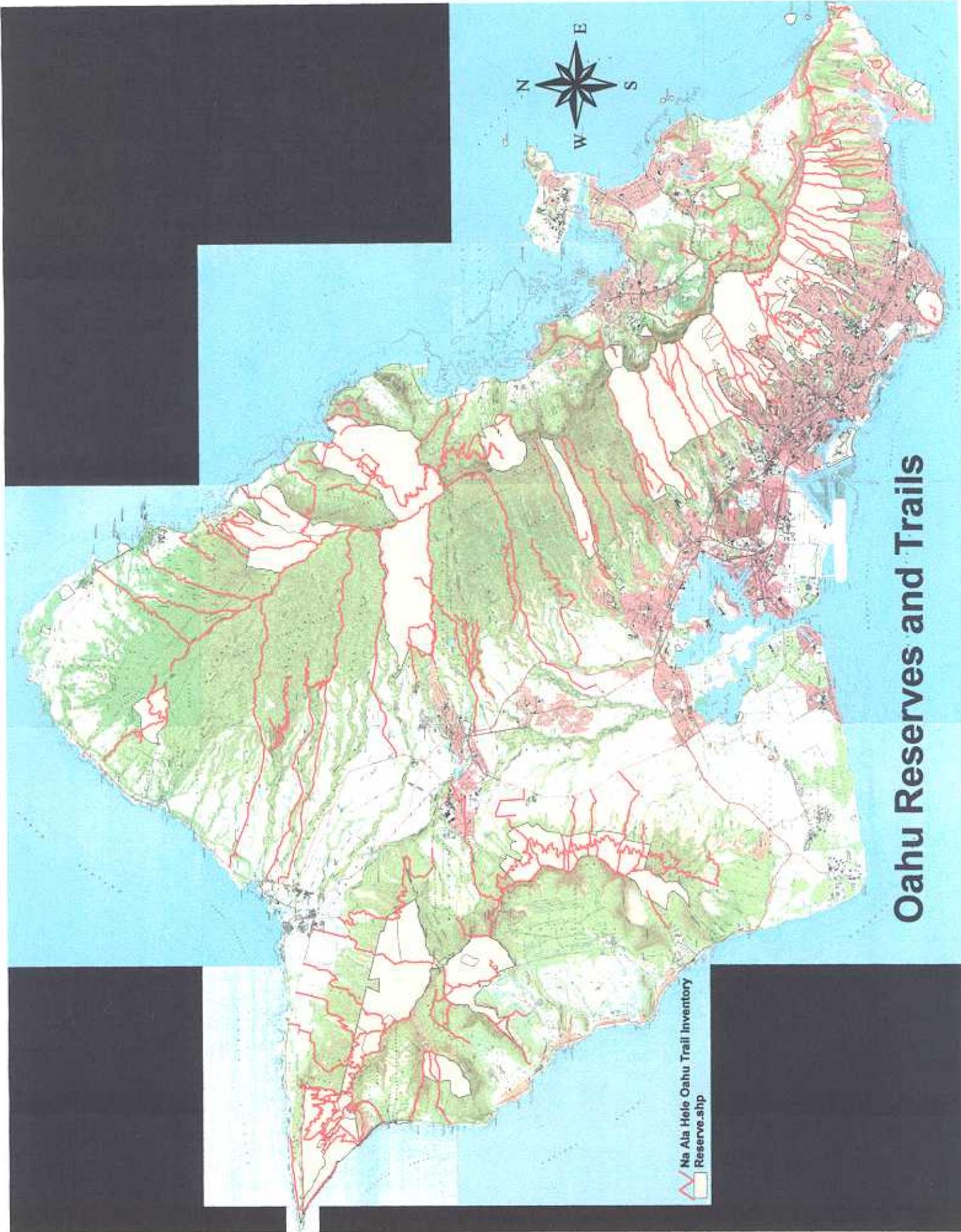
**Comments:**

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





## **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*

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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

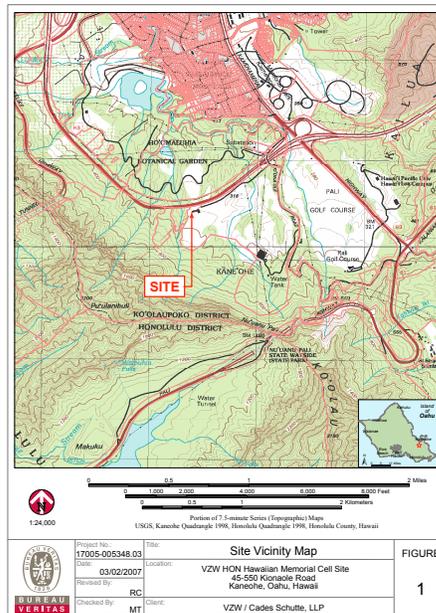
At the request of Bureau Veritas North America, T. S. Dye & Colleagues, Archaeologists, Inc. conducted an historic properties assessment of a parcel for the proposed Verizon Hawaiian Memorial cellular site. The primary focus of the project was on the discovery and appropriate treatment of historic properties 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

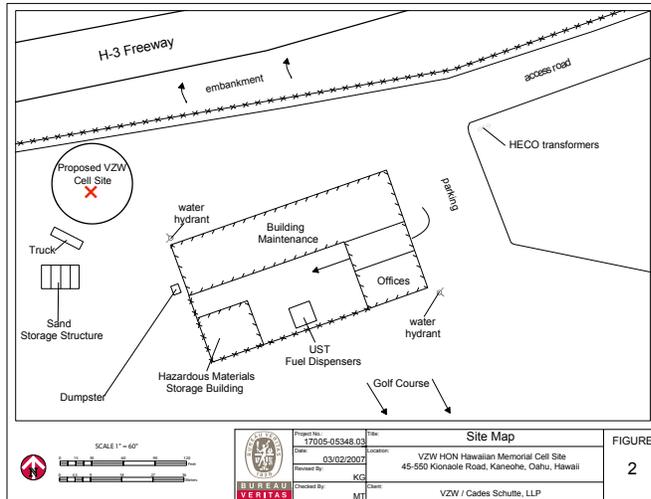
Verizon proposes to install a 35 ft. high antenna pole and associated equipment cabinet at the Kōolau Golf Club. The antenna will include 12, 8 ft. high panel antennas at the top of the pole. The proposed Verizon cell site is located adjacent to the existing Kōolau Golf Club maintenance facility, within a 12 × 30 ft., 360 ft.<sup>2</sup>, 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).



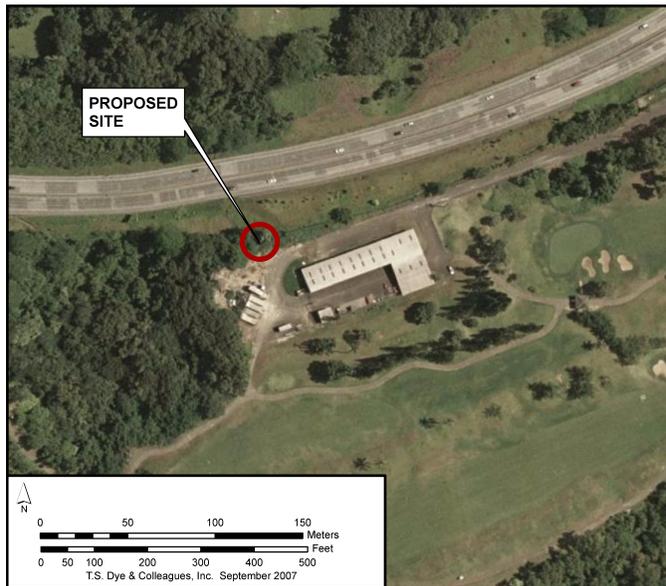
**Figure 1.** Verizon Hawaiian Memorial proposed cellular site on a portion of the USGS 1998 Kaneohe and Honolulu Quadrangles, courtesy of Bureau Veritas North America, Inc.

A 12 × 26 ft., 312 ft.<sup>2</sup>, 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 Kō'olau 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].

**ahupua'a** 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.

## Bibliography

- [1] Allen, J. (Ed.) (1987). *Five Upland 'Ili: Archaeological and Historical Investigations in the Kane'ōhe Interchange, Interstate Highway H-3, Island of O'ahu*. Number 87-1

- in Departmental Report Series. Honolulu: Anthropology Department, B. P. Bishop Museum.
- [2] Allen, J., H. A. Lennstrom, B. Dolan, and H. H. Leidemann (2002, November). *Four Sites in Upland Kāneʻohe: Supplemental and Archaeological Monitoring for Interstate Route H-3*. Prepared for Department of Transportation, Federal Highways Administration; State of Hawaii, Department of Transportation, Highways Division; Department of Land and Natural Resources, Hawaii State Historic Preservation Division; and Office of Hawaiian Affairs. Honolulu: Public Archaeology Section, Applied Research Group, B. P. Bishop Museum.
- [3] Devaney, D. M., M. Kelly, P. J. Lee, and L. S. Motteler (1976, September). *Kaneohe: A History of Change (1778-1950)*. Bernice P. Bishop Museum. Prepared for US Army Corps of Engineers, Pacific Ocean Division.
- [4] Dockall, J., L. L. Hartzell, S. A. Lebo, H. H. Leidemann, H. A. Lennstrom, and S. P. McPherron (2003, February). *Windward Highway Archaeological Investigations: Inventory Survey, Data Recovery, and Monitoring for Interstate Route H-3 in Kāneʻohe, Oahu*. Prepared for Federal Highway Administration. Honolulu: Anthropology Department, B. P. Bishop Museum.
- [5] Foote, D. E., E. L. Hill, S. Nakamura, and F. Stephens (1972). *Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii*. Washington, DC: U.S. Department of Agriculture, Soil Conservation Service in cooperation with the University of Hawaii Agricultural Experiment Station.
- [6] Fornander, A. (1917). *Fornander Collection of Hawaiian Antiquities and Folk-lore*, Volume 4, Part 3 of *Memoirs of the B. P. Bishop Museum*. Honolulu: Bishop Museum Press. Translations revised and illustrated with notes by Thomas G. Thrum.
- [7] Giambelluca, T. W. and T. A. Schroeder (1998). Climate. In S. P. Juvik and J. O. Juvik (Eds.), *Atlas of Hawaiʻi* (Third ed.), pp. 49–59. Honolulu: University of Hawaii Press.
- [8] Handy, E. S. C. and E. G. Handy (1972). *Native Planters in Old Hawaii: Their Life, Lore, and Environment*. Number 233 in B. P. Bishop Museum Bulletin. Honolulu: Bishop Museum Press. With the collaboration of Mary Kawena Pukui.
- [9] Lucas, P. F. N. (1995). *A Dictionary of Hawaiian Legal Land-Terms*. Honolulu: Native Hawaiian Legal Corporation and University of Hawaiʻi Committee for the Preservation and Study of Hawaiian Language, Art and Culture.
- [10] McAllister, J. G. (1933). *Archaeology of Oahu*. Number 104 in B. P. Bishop Museum Bulletin. Honolulu: Bishop Museum Press.
- [11] Meeker, V. (1995, October). *From Firepits to Charcoal Kilns: Resource Procurement and Land Use in the Upland Kāneʻohe Catchment*. Prepared for Minami Group (U.S.A.) Inc. Honolulu: International Archaeological Research Institute.
- [12] Pukui, M. K. and S. H. Elbert (1971). *Hawaiian Dictionary* (Third ed.). Honolulu: University of Hawaii Press.

- [13] Pukui, M. K., S. H. Elbert, and E. T. Mookini (1974). *Place Names of Hawaii*. Honolulu: University of Hawaii Press.
- [14] Rosendahl, P. H. (1976). *Archaeological Investigations in Upland Kaneohe: Survey and Salvage Excavations in the Upper Kamōōali'i Stream Drainage Area, Kaneohe, Kōōlaupoko, O'ahu, Hawai'i*. Number 76-1 in Department Report Series. Honolulu: Anthropology Department, B. P. Bishop Museum.
- [15] Shun, K., P. Price-Beggerly, and J. S. Athens (1987, August). *Archaeological Inventory Survey of an Inland Parcel, Kaneohe-Kailua, Oahu., Hawaii*. Prepared for DHM Inc. Honolulu: International Archaeological Research Institute.
- [16] Smith, M. (1987, July). Site 80-14-3711 Kaulekola, Kailua, Oahu. Memorandum, State Historic Preservation Division, Kapolei, HI.
- [17] Sterling, E. P. and C. C. Summers (1978). *Sites of Oahu*. Honolulu: Departments of Anthropology and Education, B. P. Bishop Museum.