



**U.S. Department of Housing and Urban
Development**

451 Seventh Street, SW
Washington, DC 20410
www.hud.gov

espanol.hud.gov

Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

Project Information

Project Name: Lima Ola Workforce Housing Development

Responsible Entity: Kauai County Housing Agency

State/Local Identifier: Eleele, Island of Kauai, State of Hawaii

Preparer: Steve Franco, Housing Development Coordinator

Certifying Officer Name and Title: Derek S.K. Kawakami, Mayor

Consultant (if applicable): N/A

Direct Comments to: Steve Franco, Kauai County Housing Agency, (808) 241-4444

Project Location: Eleele, Island of Kauai, State of Hawaii

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The Proposed Action is the development of a County of Kauai affordable workforce housing project that would provide the growing County population much needed affordable housing. Lima Ola would include approximately 550 residential units (single family, multi-family, and senior resident units) designed with green sustainable energy efficiency features, a community center, vegetated drainage swales, landscaped areas, a water shortage tank, and bike and pedestrian paths [Exhibit 1].

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

The purpose of the Proposed Action is to satisfy the need for affordable housing on the island of Kauai. The Kauai County Housing Agency mission is to provide the much-needed affordable housing to families on Kauai, as the population of Kauai residents is increasing. Facilitating affordable housing opportunities for Kauai residents is one of the County's top priorities. Following a rapid increase in housing prices in Kauai County in the mid-2000s, a shortage of affordable housing for Kauai residents was pervasive, island wide. In order to address this housing shortage, the Kauai County Council helped to pass a resolution in 2004 to acquire land for affordable housing. The proposed project site was acquired as a suitable location to provide needed affordable housing to Kauai residents.

Existing Conditions and Trends [24 CFR 58.40(a)]:

The project area includes approximately 75 acres of land located in Eleele on the west side of Kauai. The project site is bound the north by open land, to the east by Kaunualii Highway and Eleele Heights residential subdivision, to the west by Wahiawa Stream and to the south by Halewili Road, and the Port Allen industrial/commercial area further to the south. The project area is currently used for commercial agricultural purposes. Trends likely to continue in the absence of the project include increased residential and commercial development within the area.

Funding Information

Grant Number	HUD Program	Funding Amount
TBD	HOME Investment Partnerships Program	\$2,250,029.00
TBD	National Housing Trust Fund	\$3,369,981.00
TBD	HOME Investment Partnerships Program – American Rescue Plan	\$1,817,225.00

Estimated Total HUD Funded Amount: \$7,437,235.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: TBD

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No ☐ ☒	The project site is located approximately 1.6 miles northeast of the nearest airstrip and approximately 15 miles from the nearest airport. These distances are outside of the potential airport clear zone or accident potential zone of 2,500 ft.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No ☐ ☒	The project is not located within the Coastal Barriers Resource System (CBRS). Currently, there are no CBRS map units established within the State of Hawaii
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes No ☐ ☒	The project is categorized as FEMA Zone X and defined as an area outside of the 0.2% annual chance floodplain. Flood insurance is available for the project area.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No ☐ ☒	The project site is located in EPA attainment zones for the United States Environmental Protection Agency (EPA) National Ambient Air Quality Standards, for all criteria pollutants. The proposed project would result in less than significant short-term impacts to air quality arising from construction activities. The major potential

		short-term air quality impacts would occur from the generation of fugitive dust. Applicable BMPs would be implemented during construction activities in order to control fugitive dust emissions. These BMPs would include watering active work areas and unpaved work roads; use of wind screens; establishment of a routine road cleaning and/or tire washing program; paving of parking areas; establishment of landscaping early in the construction schedule; and monitoring dust at the project boundary.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No ☐ ☒	The Coastal Zone Management Program is promulgated by Chapter 205A, HRS. The objectives and policies of the program are administered by the State of Hawaii Office of Planning. Through the CZM Program, each County is required to establish Special Management Areas (SMAs) and shoreline setbacks within which permits are required for development. CZM regulations such as the SMA and Shoreline Setback provisions, which are administered by the Counties, may apply to HUD-assisted projects. Each County Planning Department should be consulted for the applicability of SMA and shoreline requirements. The proposed project is not located within the SMA. The proposed project is not anticipated to have an adverse impact on the coastal zone. The County of Kauai Planning Department will be consulted during the environmental review process for federal CZM consistency review. [Exhibit 2]
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No ☐ ☒	During construction, there may be the potential of petroleum spillage associated with construction vehicles and equipment. To minimize this hazard, all applicable spill and prevention control BMPs would be implemented to ensure that accidental releases are minimized and contained. For example, vehicles and equipment would be regularly inspected for leaks and adequate performance and would be maintained

		accordingly. In the long-term, there is potential for petroleum spillage from residential sources (e.g., vehicle leaks and improper disposal of hazardous materials). These potential impacts would be reduced by adherence to all applicable county and state regulations. As a result, implementation of the Proposed Action is expected to have a less than significant impact from hazardous materials and wastes.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes No ☐ ☒	A terrestrial flora and fauna survey was conducted at the project site in order to identify the presence of special status habitats. No state or federally listed threatened, endangered, or candidate plant species, or rare native Hawaiian plant species were observed within the surveyed area. The endangered Hawaiian petrel (<i>Pterodroma sandwichensis</i>) and threatened Newell's shearwater (<i>Puffinus auricularis newelli</i>) may fly over the project site at night while travelling to and from their upland nesting sites to the ocean. The following control measures are recommended to avoid and minimize light attraction of the endangered Hawaiian petrel and threatened Newell's shearwater to the project site: • Construction activity should be restricted to daylight hours as much as practicable during the seabird breeding season (April through November) to avoid the use of nighttime lighting that could be an attraction to seabirds. • All outdoor lights should be shielded to prevent upward radiation at the housing development. This has been shown to reduce the potential for seabird attraction.

		• Outside lights that are not needed for security and safety should be turned off from dusk through dawn during the fledgling fallout period (September 15 – December 15) The endangered Hawaiian hoary bat (<i>Lasiurus cinereus semotus</i>) was detected at the project site. To prevent direct impacts to the Hawaiian hoary bat, the following control measures are recommended: • No trees taller than 15 feet within the project site should be trimmed or removed between June 1 and September 15 when non-volant juvenile bats (bats that cannot fly) may be roosting in the trees. • Any fences that are erected as part of the Proposed Action should have a barbless top-strand wire to prevent entanglements of the Hawaiian hoary bat on barbed wire. For existing fences at the project site, the top strand barbed wire should be removed or replace with barbless wire. The United States Fish and Wildlife Service (USFWS) will be consulted during the environmental review period in compliance with Section 7 of the Endangered Species Act. The USFWS also recommend that construction activities be coordinated closely with their agency during construction in order to avoid creating standing water and other attractive nuisances, such as standing water that could attract protected Hawaiian Waterbirds to unsafe construction
--	--	---

		conditions. The USFWS also recommended that a qualified biologist survey the project area prior to construction, and after a delay of at least 3 days in construction for the presence of Hawaiian goose nests. If nest is discovered, work should cease immediately and the USFWS should be contacted for further guidance. [Exhibit 3]
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No ☐ ☒	Surrounding land uses include commercial agriculture, transportation corridors and residential use. Potentially hazardous operations may occur at the Port Allen industrial/commercial area, as well as the rock quarry to the southeast of the Site. However these areas are located at least one-quarter mile down-gradient from the nearest boundary of the project site and therefore is not anticipated to affect the project site.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes No ☐ ☒	The proposed project site is currently used for commercial agricultural purposes. However, important farmlands would not be significantly impacted by the proposed residential use due to the adequate amount of available agricultural lands surrounding the project site, and within the County of Kauai.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No ☐ ☒	The project area is designated as FEMA Zone X, outside of the 100-year floodplain hazard area. The topography of the project area is gently sloping to the south and site soils provide for adequate drainage across the entire project area. The eastern portion of the project area is located near Wahiawa Stream. Sheetflow during rain events likely drains to the stream and eventually to Hanapepe Bay. A series of vegetated swales are planned that would convey surface stormwater flow to an onsite detention basin. The proposed housing development is not anticipated to have an adverse impact on floodplain function. Additionally, the proposed project should not be impacted by

		flooding as it is located outside the designated flood hazard area [Exhibit 4].
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No ☐ ☒	The archaeological inventory survey (AIS), conducted in support of the project involved a pedestrian survey, a vehicle windshield survey, and excavation of five backhoe trenches. The AIS identified a single surface historic property, a segment of a former plantation irrigation ditch (Pump 1 Ditch) system. The Pump 1 Ditch was designated as State Inventory of Historic Places [SIHP] Site 50-30-09-2219. The ditch was assessed significant under Hawaii Administrative Rules (HAR) §13-275-6 Criterion d for its potential to provide information on the extensive McBryde Sugar Company's irrigation system and the development and successful plantation agriculture that dominated the area's landscape. The State Historic Preservation Division approved the removal of Pump Ditch 1 subject to mitigation commitments consisting of archaeological data recovery in the form or archaeological monitoring before and during construction, and historical data recovery in the form of archival research. [Exhibit 5]
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes No ☐ ☒	Less than significant short-term noise impacts from construction activities would occur. BMPs (e.g., construction scheduling; insulation/muffling; reduced power options; equipment substitution, selection, retrofit, and maintenance; utilization of staging areas; and non-permanent noise barriers) would be implemented to reduce or eliminate noise. Further, buffer zones between construction activities and residential areas would be created, and construction work would be limited to hours between 7:30 am and 3:30 pm on weekdays. As a result, short-term impacts from construction activities would be less than significant to the surrounding environment.

Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(c); 40 CFR Part 149	Yes No ☐ ☒	Based on the EPA sole source aquifer designation, the Island of Kauai does not have any sole source aquifers. The proposed action would be closely coordinated with the County of Kauai Department of Water. The availability of water should be not impacted or have adverse impacts to underlying aquifers. Therefore, no significant impact to drinking water sources are expected from the proposed action [Exhibit 6] .
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No ☐ ☒	An abandoned irrigation ditch (Pump No. 1 Ditch) located at the project site is classified as an intermittent, man-made riverine, which is occasionally flooded. There are no listed natural wetlands or wetland habitats within the project site, however there are wetlands that exist in close proximity to the project site. Hanapepe River is located approximately 1,000 feet to the northwest of the project site, and Wahiawa Stream is approximately 1,000 feet to the east of the project site. Loss or destruction of wetlands is not expected based on the distance of the wetlands to the project site. Runoff produced during construction activities would be controlled using silt fences and County of Kauai-approved BMPs to reduce the potential of sediment impact to wetlands [Exhibit 7]
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No ☐ ☒	There are no designated wild and scenic rivers in the State of Hawaii. There are no anticipated compliance requirements under the wild and scenic rivers act for the proposed housing development [Exhibit 8] .
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes No ☐ ☒	The project will provide affordable housing to residents. The proposed housing development complies with Executive Order 12898 and ensures environmental justice for members of the community, including minority and low-income populations.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	According to the State Land Use Commission district classifications, the parcel was originally in the agricultural land use district. A petition for Land Use District Boundary Amendment was approved by the State Land Use Commission via the Hawaii Revised Statutes (HRS) 201H expedite review process. County zoning at the project area is zoned as Agricultura. An exemption County zoning was approved for the Proposed Action under the 201H process.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2/2/3/3	Soil Suitability – The subsurface soils at the project site vary from stiff to very stiff clayey silt and silty clays with low expansion potential. These soils are suitable for development. Slope – The project site slopes gently in the makai (seaward) direction from north to south. The project site ranges in elevation from 275 to 175 feet above mean sea level, a has an average slope of four percent (4%) grade. The project site is bound by Kaumualii Highway to the northwest and west, Halewili Road to the south and agricultural lands to the east and northeast. Erosion – The project site includes Makaweli silty clay loam. This soil type has a slight to moderate erosion hazard. Construction BMPs, including silt fences/barriers, and following the site NPDES construction permit would reduce erosion impacts during the construction period to a level of insignificance.

		Drainage/Storm Water Runoff – The Proposed Action would include the construction of additional impervious surfaces (paved roads and sidewalks) that would collect and convey stormwater runoff. Therefore, an on-site drainage system would be implemented. The drainage system would include vegetated drainage swales located along the internal roadways that would collect and bio-filer stormwater, which would then be deposited into subsurface reinforced concrete pipe culverts. The stormwater would then be channeled to an on-site detention basin that would allow collected surface water to percolate into the underlying aquifer.
Hazards and Nuisances including Site Safety and Noise	2	Project construction will increase the possibility of safety issues, hazards and nuisances. The developer(s)/contractor(s) are responsible for addressing these issues through the incorporation of County of Kauai BMPs and adherence to state and federal worker safety regulations, including securing the work site from the public during working and non-working hours.
Energy Consumption	2	Kauai Island Utility Cooperative (KIUC) is expected to supply the necessary power to the housing development. The proposed action will increase the electrical load demand of the local substation. The proposed action would require new electrical infrastructure. The increase in electrical service to the proposed project would not represent a significant increase in energy use. Once the electrical improvements are conducted, the energy supply will be able to meet the demand of the project area with respect to the surrounding area. KIUC will be consulted during the environmental review period to assure the adequacy of available electricity for the proposed demand from Lima Ola. No significant impact to energy consumption is expected to result from the project.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	The Proposed Action would lead to intermittent construction employment as the construction phasing occurs over the years.
Demographic Character Changes, Displacement	2	The project site is currently used for commercial agricultural purposes. The County has been in communication with current tenant since the initial planning, there are suitable lands to replace the land needed for the proposed development, within the County.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The Proposed Action would likely result in an increase in school enrollment at schools within the vicinity of the project, such as Eleele Elementary. Since the proposed project would be completed in phases, it is not anticipated that the increase in school enrollment would significantly affect educational facilities.
Commercial Facilities	2	Businesses in the vicinity of the project area may experience gradual increased economic activity from the additional population. There would be no anticipated adverse impacts to commercial facilities.
Health Care and Social Services	2	Health care facilities within the vicinity of the project area include Kauai Medical Clinic and Kauai Veterans Memorial Hospital- Waimea. It is not anticipated that the proposed project would adversely impact these facilities. The project area is served by several social service providers in Kauai that can meet the demand created by the proposed action.
Solid Waste Disposal / Recycling	2	Solid waste disposal services are available in the area through the County of Kauai, Division of Solid Waste. The County has a variety of solid waste services that include a landfill, greenwaste diversion, refuse collection; refuse transfer stations, and recycling and waste management programs. The proposed action is not anticipated to adversely impact solid waste collection services within the area.
Waste Water / Sanitary Sewers	2	Wastewater generated by the Proposed Action would be serviced by the County of Kauai Wastewater Management Division, Eleele WWTP. The proposed Action would require the design and installation of sewer lines at the project site. The proposed development would generate an average wastewater flow well within the treatment capacity of the Eleele Wastewater Treatment Plan. Therefore, the Proposed Action would have a less than significant impact on the County wastewater system.
Water Supply	2	The Proposed Action would require the design and installation of potable water lines at the project site. Studies for the project Water Master Plan has shown that the underlying aquifer has enough capacity to supply the projected demand of the proposed development, without resulting in a significant impact to groundwater resources. Coordination with the County Department of Water will

		continue to ensure that the proposed water system is implemented in accordance with County standards.
Public Safety - Police, Fire and Emergency Medical	2	Police – The Proposed Action would be included in the patrol area for the Kauai Police Department Waimea District, which provides police services from Halfway Bridge on Kaumualii Highway to the far westside of the island (Polihale) including Kokee State Park (Kauai Police Department 2014). Since the Proposed Action would be located within close proximity of existing towns that are currently patrolled (Eleele and Hanapepe), it would not represent a significant impact to existing law enforcement services. Fire – The Proposed Action would be in the response vicinity of Hanapepe Fire Station, located approximately 1.3 miles to the west. Since the Proposed Action is in close proximity to an existing fire station and would conform to county fire protection standards, including the installation of fire hydrants and smoke alarms, it would not represent a significant impact to existing fire protection services. Emergency Medical – Emergency medical services are available at Kauai Veterans Memorial Hospital in Waimea.
Parks, Open Space and Recreation	2	Open Space – The Proposed Action would include a community center and park, as well as pedestrian and bike paths throughout the community. Parks and Recreation- There are several County Department of Parks and Recreation facilities located west of the project site. Eleele Nani Park is located approximately one quarter mile from the project site and includes
Transportation and Accessibility	3	Implementation of the Proposed Action would result in less than significant, short-term impacts to traffic and circulation during the construction period. Therefore, construction activities would need to comply with HDOT construction traffic control measures. Upon completion, the Proposed Action is expected to generate small long-term traffic and circulation impacts on traffic in the area. In order to address the project-induced projected impacts, improvements to the four intersections surrounding the project site would be implemented. With these control measures implemented, there would be no significant impact to the surrounding roadway network (Hatch Mott MacDonald, 2014)

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	The Proposed Action would not result in adverse effects to water resources within the vicinity of the project area.
Vegetation, Wildlife	3	No state or federally listed threatened, endangered, or candidate plant species, or rare native Hawaiian plant species were observed within the surveyed area, and no designated critical plant habitat occurs within the area. The endangered Hawaiian petrel (<i>Pterodroma sandwichensis</i>) and threatened Newell's shearwater (<i>Puffinus auricularis newelli</i>) may fly over the project site at night while traveling to and from their upland nesting sites to the ocean. The endangered Hawaiian hoary bat (<i>Lasiurus cinereus</i>) was detected at the project site. To prevent potential impacts to these special status species, along with other species listed in the EA that may be affected, control measures stated above will be implemented.
Other Factors	2	Not applicable

Summary of Findings and Conclusions:

Additional Studies Performed:

- Traffic Impact Analysis to document existing transportation roadway and intersection conditions, as well as anticipated impacts from the proposed project.
- Biological Study to document existing biological resources within the project site.
- Archaeological/Cultural Impact Analysis to document any existing archaeological/cultural resources within the project area.
- Market Study: research for existing and projected real estate market trends in order to design the proposed project based on an area need and preference.
- Noise Assessment to document projected noise impacts from the Proposed Action.
- Air Quality Study to assess existing conditions, as well as project air impacts from the Proposed Action.
- Preliminary Engineering Report to document the civil engineering components planned for the Proposed Action.
- Water Master Plan to analyze the existing capacity of the existing potable water supply, as well as the projected impacts to the water supply from the Proposed Action.

Field Inspection (Date and completed by): June 2016 by Community Planning & Engineering

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

Agency and public consultation have taken place throughout the duration of the project. Consultation correspondences is included in **Appendix 1**.

List of Permits Obtained:

This project is authorized under Hawai'i Revised Statutes section 201H-38, which generally exempts qualified affordable housing projects from standard zoning and subdivision requirements. Future construction of housing within the project site will adhere to the building code.

Public Outreach [24 CFR 50.23 & 58.43]:

Public participation has included an opportunity for the public to review and comment the EA, including two public meetings conducted on May 24 and May 25, 2016, in Hanapepe and Elelee, Kauai. The meeting minutes for both meetings are included in **Appendix 2**.

Cumulative Impact Analysis [24 CFR 58.32]:

The Proposed Action is the development of a County of Kauai affordable workforce housing project that will provide the growing County population much needed affordable housing. Lima Ola includes approximately 550 residential units (single family, multi-family, and senior resident units) designed with green sustainable energy efficiency features, a community center, vegetated drainage swales, landscaped areas, a water storage tank, and bike and pedestrian paths.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

The County of Kauai has considered the possibility of developing other sites within the County. However, the selection of alternate sites is not a viable alternative to the proposed action, due to the high cost of land within the County and scarce availability of lands for development. After a detailed review of options, the project site was considered the most viable.

No Action Alternative [24 CFR 58.40(e)]:

Under the No Action Alternative, the affordable housing development project would not be constructed. There would be no disturbance of the existing environment; however, additional needed affordable housing would not be provided to residents of the Island of Kauai. There is a substantial need for additional affordable housing in the area and the Kauai County Housing Agencies' mission is to facilitate affordable housing opportunities to the residents of Kauai.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

The archaeological inventory survey (AIS), conducted in support of the project involved a pedestrian survey, a vehicle windshield survey, and excavation of five backhoe trenches. The AIS identified a single surface historic property, a segment of a former plantation irrigation ditch (Pump 1 Ditch) system. The Pump 1 Ditch was designated as State Inventory of Historic Places [SIHP] Site 50-30-09-2219. The ditch was assessed significant under Hawaii Administrative Rules (HAR) §13-275-6 Criterion d for its potential to provide information on the extensive McBryde Sugar Company's irrigation system and the development and successful plantation agriculture that dominated the area's landscape. The State Historic Preservation Division approved the removal of Pump Ditch 1 subject to mitigation commitments consisting of archaeological data recovery in the form of archaeological monitoring before and during construction, and historical data recovery in the form of archival research.

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]

The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]

The project may significantly affect the quality of the human environment.

Preparer Signature: Steven Franco Date: 7/5/22

Name/Title/Organization: Steven Franco

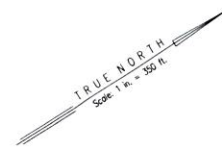
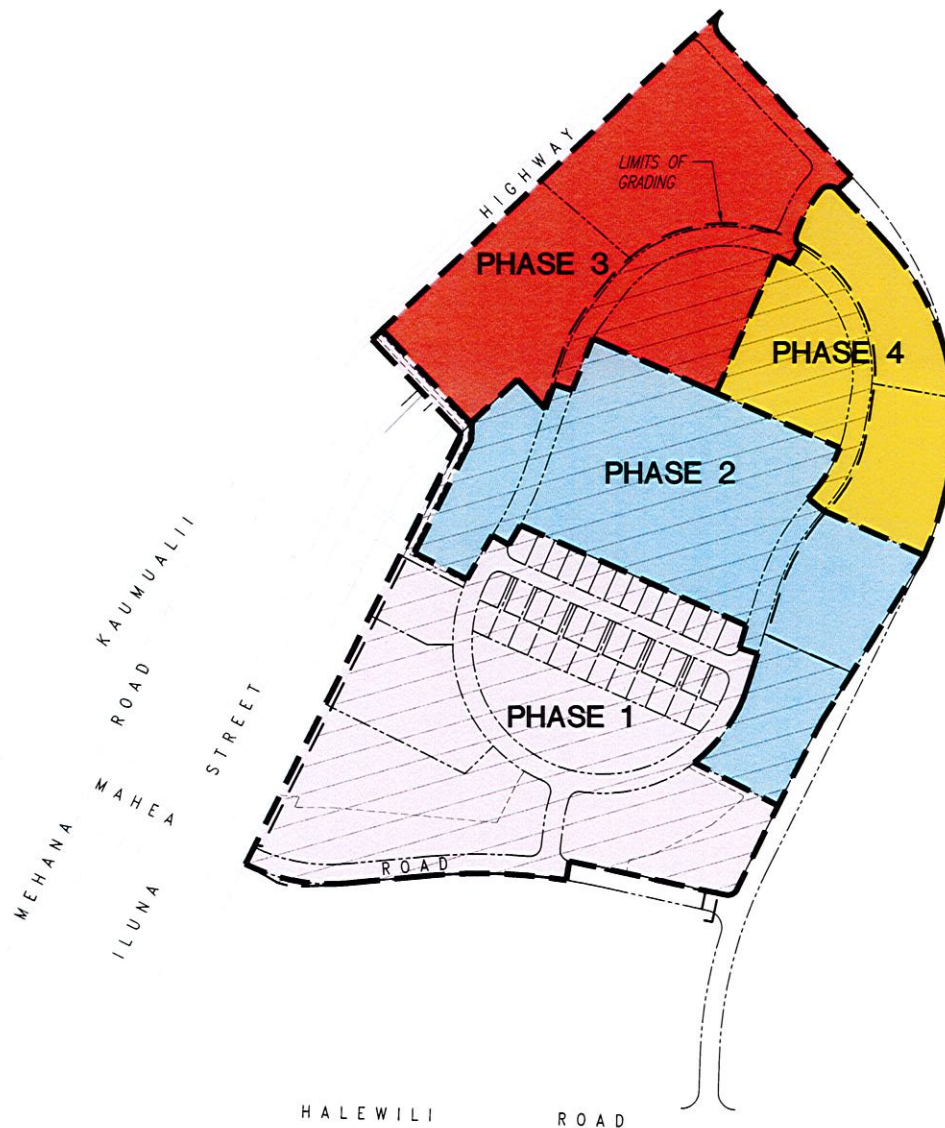
Housing Development Coordinator, Kauai County Housing Agency

Certifying Officer Signature:  Date: 7/12/22

Name/Title: Derek S.K. Kawakami, Mayor

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Exhibit 1: Site Plan

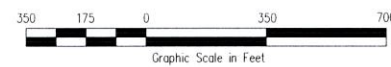


LEGEND

- PROPERTY LINE
- EASEMENT
- ▨ LIMITS OF GRADING

LIMA OLA SUBDIVISION PHASING MAP

SCALE: 1"=350'



LIMA OLA WORKFORCE HOUSING DEVELOPMENT
 'ELE'ELE, KAUAI, HAWAII
 OWNER & DEVELOPER: COUNTY OF KAUAI
 TAX MAP KEY: (4) 2-1-001: 054

LIMA OLA SUBDIVISION PHASING MAP

Exhibit 2: Coastal Zone Management Consistency Letter

December 3, 2014

Mr. Michael Dahilig
County of Kaua'i Planning Department
4444 Rice Street, Suite A473
Līhu'e, Hawai'i 96766

Subject: Compliance with the Farmland Protection Policy Act
and Special Management Area (SMA) Consultation
Lima Ola Affordable Housing Development
TMK No. (4) 2-1-001:054
'Ele'ele, Kaua'i, Hawai'i

Dear Mr. Dahilig:

Community Planning and Engineering, Inc., on behalf of the Kaua'i County Housing Agency is in the process of preparing an Environmental Assessment (EA) in compliance with Hawaii Revised Statutes (HRS) 343 and HRS 201H. The EA is also compliant with the National Environmental Protection Act (NEPA) and 24 Code of Federal Regulations (CFR) Part 58 - *Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities*, for a proposed affordable housing project located in 'Ele'ele on the Island of Kaua'i. The proposed project is located within tax map key (TMK) parcel (4) 2-1-001:054, which includes approximately 75 acres of developed land. The EA is being prepared to evaluate and document the possible environmental, social and economic consequences associated with the proposed project.

Approximately 550 residential single family and multi-family units are planned to be built on the subject parcel, which will include apartments and single family homes. Funding may be sought from the United States Department of Housing and Urban Development (HUD). Therefore, a finding of compliance with the requirements of the Farmland Protection Policy Act of 1981 (7 U.S.C. 4201 et seq.) must be made for HUD-assisted new construction activities. The County of Kaua'i is required to provide HUD with a finding from the local planning agency if the proposed site includes prime or unique farmland, or other farmland of statewide or local importance, as identified by the Department of Agriculture, Natural Resources Conservation Service (NRCS). According to the County of Kaua'i, the subject parcel is zoned Agricultural. The State of Hawai'i Land Use Commission zoning for the subject parcel is Agricultural. The Site is not included in the inventory of Important Agricultural Lands (IALs) as defined by the State of Hawai'i Land Evaluation and Site Assessment Commission.

While the subject parcel is zoned Agricultural under both State and County zoning, it has been identified as an ideal location to construct affordable housing near the town center of 'Ele'ele, Hanapēpē and Port Allen. Therefore, an exemption from County zoning and a State Land Use District Boundary Amendment from Agricultural to Urban will be processed through the HRS 201H exemption process for the proposed affordable housing project.



Community Planning and Engineering, Inc.

HUD also requires that HUD funded projects undergo a Coastal Zone Management (CZM) consistency review as authorized by the Coastal Zone Management Act of 1972. In Hawai'i the Special Management Area (SMA) permitting system is part of the CZM Program approved by Federal and State agencies. Therefore, concurrence from your office that the proposed project is not located within the SMA is requested.

To assist with the review, enclosed is a project location map and proposed site plan associated with TMK No. (4) 2-1-001:054. Please send your written comments to:

CP&E
C/O Max Solmssen
1286 Queen Emma Street
Honolulu, Hawai'i 96813

We appreciate your timely review and response to this request. If you have any questions or need clarification, please contact me at 833-2225 ext. 1012.

Sincerely,

A handwritten signature in black ink, appearing to read 'Max Solmssen', is written over a light blue horizontal line.

Max Solmssen
Project Manager

**Exhibit 3: United States Fish and Wildlife
Service Consultation Letter**

December 3, 2014

Dr. Loyal Mehrhoff
Field Supervisor
U.S. Fish and Wildlife Service
Pacific Islands Fish and Wildlife Office
300 Ala Moana Boulevard, Room 3-122, Box 50088
Honolulu, Hawai'i 96850

Subject: Section 7 National Historic Preservation Act Consultation
Lima Ola Affordable Housing Development
TMK No. (4) 2-1-001:054
'Ele'ele, Kaua'i, Hawai'i

Dear Dr. Mehrhoff:

Community Planning and Engineering (CP&E) is acting on behalf of the Kaua'i County Housing Agency to prepare an Environmental Assessment (EA) in compliance with Hawaii Revised Statutes (HRS) 343. The EA is also compliant with the National Environmental Protection Act (NEPA) and 24 Code of Federal Regulations (CFR) Part 58 for a proposed affordable housing project located in 'Ele'ele on the Island of Kaua'i. The proposed project is located within tax map key (TMK) parcel (4) 2-1-001:054, which includes approximately 75 acres of developed land. The EA is being prepared to evaluate and document the possible environmental, social and economic consequences associated with the proposed project. As part of the environmental review process, and in accordance with Section 7 of the Endangered Species Act (ESA), we are requesting consultation to determine if special status or endangered species exist at, or within close proximity to the subject parcel. Consultation under Section 7 of the ESA is triggered due to potential funding from the United States Department of Housing and Urban Development (HUD). The County of Kaua'i represents HUD as the responsible federal agency requesting a determination.

Approximately 550 residential single family and multi-family units are planned to be built on the subject parcel, which will include apartments and single family homes. We are enclosing the following reference documents to assist with your review; a site location map, a site plan and a biological study that was conducted for the proposed project.



Community Planning
and Engineering, Inc.

We appreciate your timely review and response to this request. If you have any questions or need clarification, please contact me at 833-2225 ext. 1012. All response letters can be sent to the following address:

CP&E
C/O Max Solmssen
1286 Queen Emma Street
Honolulu, HI 96813

Sincerely,

A handwritten signature in black ink, appearing to read 'Max Solmssen', is written over a horizontal line.

Max Solmssen
Project Manager



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pacific Islands Fish and Wildlife Office
300 Ala Moana Boulevard, Room 3-122
Honolulu, Hawaii 96850

In Reply Refer To:
2015-TA-0092

DEC 24 2014

Max Solmssen
Community Planning and Engineering
1286 Queen Emma Street
Honolulu, Hawaii 96813

Subject: Technical Assistance for Lima Ola Affordable Housing Development, Kauai

Dear Mr. Solmssen:

The U.S. Fish and Wildlife Service (Service) received your letter, dated December 3, 2014, requesting a list of federally threatened and endangered species, candidate species, plants and animals of special concern, and critical habitats in the vicinity of the proposed projects. The County of Kauai (County) proposes to construct a multiphase housing development on approximately 75 acres (TMK 4-2-1-001:027), located in Eleele on the island of Kauai. The housing development involves construction of approximately 550 residential and single family and multi-family units including associated facilities and infrastructure. The proposed project may potentially be funded by the United States Department of Housing and Urban Development (HUD). Community Planning and Engineering, on behalf of the County of Kauai, is preparing a draft Environmental Assessment (EA), in accordance with Hawaii Revised Statutes 343 and the National Environmental Policy Act. The following comments are provided in accordance with the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C 1531 *et seq.*).

We reviewed the information you provided and pertinent information in our files, including data compiled by the Hawaii Biodiversity and Mapping Program, as it pertains to federally listed species and designated critical habitat. The following species are known to occur or transit through the proposed project area: the endangered Hawaiian black-necked stilt (*Himantopus mexicanus knudseni*), Hawaiian moorhen (*Gallinula chloropus sandvicensis*), Hawaiian coot (*Fulica alai*), Hawaiian duck (*Anas wyvilliana*) (hereafter collectively referred to as Hawaiian waterbirds); the endangered Hawaiian goose (*Branta sandvicensis*); the endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*); and the endangered Hawaiian petrel (*Pterodroma sandwichensis*), the threatened Newell's shearwater (*Puffinus auricularis newelli*), and a candidate for listing the band-rumped storm-petrel (*Oceanodroma castro*) (hereafter collectively referred to as seabirds). There is no designated critical habitat within the vicinity of the proposed

TAKE PRIDE®
IN AMERICA

RECEIVED
JAN - 5 2015

COMMUNITY PLANNING AND ENGINEERING INC.

project area. We provide the following recommendations to avoid and minimize project impacts to listed species and candidate species.

Hawaiian Waterbirds

Our information suggests that your project may result in standing water or creation of open water, thus attracting Hawaiian waterbirds to the site. In particular, the Hawaiian stilt is known to nest in sub-optimal locations (e.g., any ponding water) if water is present. Hawaiian waterbirds attracted to sub-optimal habitat may suffer adverse impacts, such as predation and reduced reproductive success, and thus the project may create an attractive nuisance. Additional details on the proposed construction activities and infrastructure, including the potential reservoir, is necessary to assess potential impacts to Hawaiian waterbirds. Therefore, we recommend you work with our office during project planning so that we may assist you in developing measures to avoid impacts to listed species (e.g., fencing, vegetation control, predator management).

Hawaiian Goose

In order to avoid impacts to Hawaiian geese, we recommend a biologist familiar with the nesting behavior of the Hawaiian goose survey the area prior to the initiation of any work, or after any subsequent delay in work of three or more days (during which birds may attempt nesting). If a nest is discovered, work should cease immediately and our office should be contacted for further guidance. Furthermore, all on-site project personnel should be apprised that Hawaiian geese may be in the vicinity of the project at any time during the year. If a Hawaiian goose (or geese) appears within 100 feet of ongoing work, all activity should be temporarily suspended until the Hawaiian goose (or geese) leaves the area of its own accord.

Hawaiian Hoary Bat

The Hawaiian hoary bat roosts in both exotic and native woody vegetation and, while foraging, will leave young unattended in "nursery" trees and shrubs when they forage. If trees or shrubs suitable for bat roosting are cleared during the breeding season, there is a risk that young bats could inadvertently be harmed or killed. To minimize impacts to the endangered Hawaiian hoary bat, woody plants greater than 15 feet tall should not be disturbed, removed, or trimmed during the bat birthing and pup rearing season (June 1 through September 15). Site clearing should be timed to avoid disturbance to Hawaiian hoary bats in the project area.

Seabirds

Seabirds, including the Newell's shearwater, Hawaiian petrel, and band-rumped storm petrel fly at night and are attracted to artificially-lighted areas resulting in disorientation and subsequent fallout due to exhaustion. Seabirds are also susceptible to collision with objects that protrude above the vegetation layer, such as utility lines, guy-wires, and communication towers. Additionally, once grounded, they are vulnerable to predators and are often struck by vehicles along roadways. Construction activities should only occur during daylight hours. We also recommend the lighting in the project area be fully shielded or full cut-off luminary fixtures, such that the bulb can only be seen from below using the lowest wattage bulbs possible. Any increase in the use of nighttime lighting, particularly during peak fallout period (September 15 through December 15), could result in additional seabird injury or mortality.

If it is determined that the proposed project may affect federally listed species, we recommend you contact our office early in the planning process so that we may assist you with the ESA compliance. Additionally, we recommend you incorporate the attached best management practices into your project description to avoid and minimize impacts to water resources that have the potential to occur during construction activities.

We appreciate your efforts to conserve endangered species. Please contact Adam Griesemer, Endangered Species Biologist (phone: 808-285-8261, email: adam_griesemer@fws.gov) should you have any questions pertaining to this response.

Sincerely,


for, Aaron Nadig
Assistant Field Supervisor:
Oahu, Kauai, NWHI, Am.Samoa

U.S. Fish and Wildlife Service
Recommended Standard Best Management Practices

The U.S. Fish and Wildlife Service recommends that the measures below be incorporated into projects to minimize the degradation of water quality and minimize the impacts to fish and wildlife resources.

1. Turbidity and siltation from project-related work shall be minimized and contained within the vicinity of the site through the appropriate use of effective silt containment devices and the curtailment of work during adverse tidal and weather conditions.
2. Dredging/filling in the marine environment shall be scheduled to avoid coral spawning and recruitment periods and sea turtle nesting and hatching periods.
3. Dredging and filling in the marine/aquatic environment shall be designed to avoid or minimize the loss special aquatic site habitat (beaches, coral reefs, wetlands, etc.) and the function of such habitat shall be replaced.
4. All project-related materials and equipment (dredges, barges, backhoes, etc.) to be placed in the water shall be cleaned of pollutants prior to use.
5. No project-related materials (fill, revetment rock, pipe, etc.) should be stockpiled in the water (intertidal zones, reef flats, stream channels, wetlands, etc.) or on beach habitats.
6. All debris removed from the marine/aquatic environment shall be disposed of at an approved upland or ocean dumping site.
7. No contamination (trash or debris disposal, non-native species introductions, attraction of non-native pests, etc.) of adjacent habitats (reef flats, channels, open ocean, stream channels, wetlands, beaches, forests, etc.) shall result from project-related activities. This shall be accomplished by implementing a litter-control plan and developing a Hazard Analysis and Critical Control Point Plan (HACCP – see <http://www.haccpnrm.org/Wizard/default.asp>) to prevent attraction and introduction of non-native species.
8. Fueling of project-related vehicles and equipment should take place away from the water and a contingency plan to control petroleum products accidentally spilled during the project shall be developed. Absorbent pads and containment booms shall be stored onsite, if appropriate, to facilitate the clean-up of accidental petroleum releases.
9. Any under-layer fills used in the project shall be protected from erosion with stones (or core-loc units) as soon after placement as practicable.
10. Any soil exposed near water as part of the project shall be protected from erosion (with plastic sheeting, filter fabric etc.) after exposure and stabilized as soon as practicable (with native or non-invasive vegetation matting, hydroseeding, etc.).

Exhibit 4: FEMA Map

1. The first step in the process is to identify the problem. This involves gathering information about the situation and the people involved. It is important to understand the context and the stakes of the problem.

2. The second step is to analyze the problem. This involves breaking the problem down into its components and identifying the underlying causes. It is important to consider the perspectives of all parties involved.

3. The third step is to develop a plan. This involves identifying the goals and objectives of the intervention and determining the steps that need to be taken to achieve them. It is important to consider the resources available and the potential risks.

4. The fourth step is to implement the plan. This involves putting the plan into action and monitoring the progress. It is important to be flexible and responsive to changes in the situation.

5. The fifth step is to evaluate the results. This involves assessing the impact of the intervention and determining whether the goals have been achieved. It is important to gather feedback from the participants and to reflect on the process.

6. The sixth step is to disseminate the findings. This involves sharing the results of the intervention with the relevant stakeholders and the wider community. It is important to communicate the findings in a clear and concise manner.

7. The seventh step is to sustain the results. This involves putting the findings into practice and ensuring that the benefits of the intervention are maintained over time. It is important to continue to monitor the situation and to make adjustments as needed.

8. The eighth step is to evaluate the overall process. This involves reflecting on the entire process and identifying the strengths and weaknesses. It is important to learn from the experience and to use the findings to inform future interventions.

9. The ninth step is to disseminate the findings. This involves sharing the results of the evaluation with the relevant stakeholders and the wider community. It is important to communicate the findings in a clear and concise manner.

10. The tenth step is to sustain the results. This involves putting the findings into practice and ensuring that the benefits of the intervention are maintained over time. It is important to continue to monitor the situation and to make adjustments as needed.

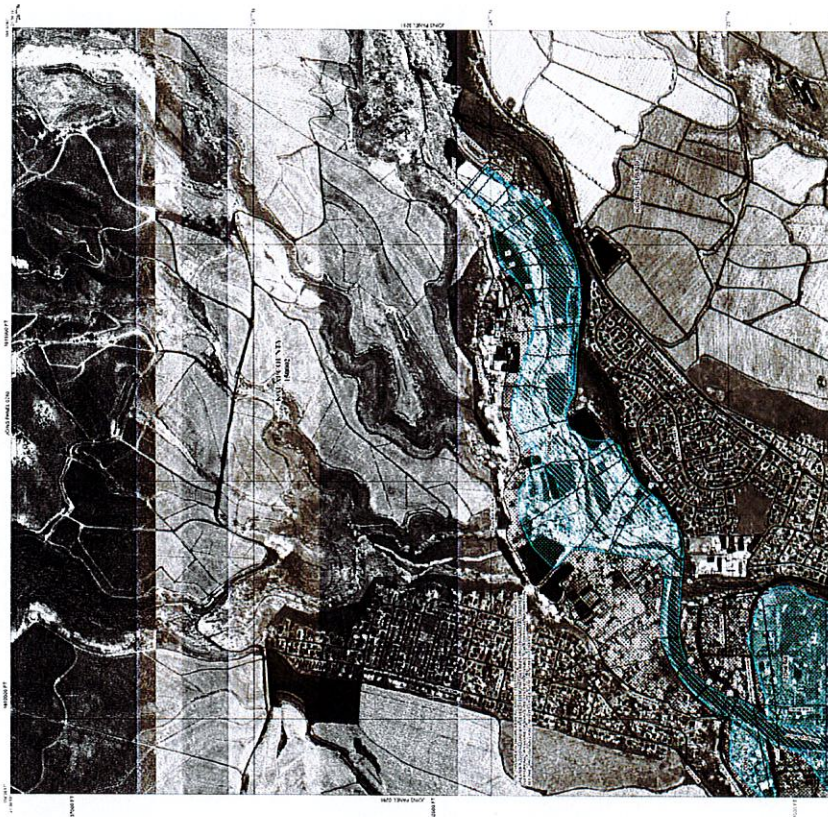
[illegible][illegible]

Exhibit 5: State Historic Preservation Division Letter

DAVID Y. IGE
GOVERNOR OF
HAWAII



**STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES**

STATE HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING
601 KAMOKILA BLVD., STE 555
KAPOLEI, HI 96707

SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

M. KALEO MANUEL
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

April 16, 2020

Kanani Fu, Development Manager
Kaua'i County Housing Agency
County of Kaua'i, State of Hawai'i
Pi'ikoi Building, 4444 Rice Street, Suite 330
Lihu'e, Hawai'i 96766
kananifu@kauai.gov

IN REPLY REFER TO:

Log No. 2020.00748
Doc. No. 2004SL07
Archaeology

Dear Ms. Fu:

**SUBJECT: HRS Chapter 6E-8 Historic Preservation Review –
Request for Two-Step Verification Process
Mitigation Plan Comprising Archaeological Data Recovery for Selected
Features of Site 50-30-09-2219 and Archaeological Monitoring for the
Lima Ola Workforce Housing Project
Hanapēpē Ahupua'a, District of Kona, Island of Kaua'i
TMK (4) 2-1-001:054**

This letter provides the State Historic Preservation Division's (SHPD's) review of the revised draft plan titled, *Mitigation Plan Comprising Archaeological Data Recovery for Selected Features of Site 50-30-09-2219 and Archaeological Monitoring for the Lima Ola Workforce Housing Project, in Hanapēpē Ahupua'a, District of Kona, Island of Kaua'i, Hawai'i [TMK: (4) 2-1-001:054]* (Hazlett and Dega, March 2020), and details the proposed two-step verification process under which the project will proceed in accordance with HAR §13-275-3(b) Step 6 and HAR §13-275-9(d).

The Kaua'i County Housing Agency (KCHA) proposes to construct the Lima Ola Affordable Housing Development on County-owned land. The project area totals 78 acres, consisting of a 75-acre housing area and a 3-acre detention basin expansion area. Previously KCHA determined the project to be a federal undertaking, as defined in 36 CFR 800.16(y) due to the anticipated use of federal funding. Now, the project will proceed without federal funding and, thus, is no longer subject to NHPA Section 106 consultation. However, as a County project involving County-owned land, the project is subject to historic preservation review under Hawai'i Revised Statutes (HRS) §6E-8.

Because the County needs to be able to initiate construction prior to completion of some of the mitigation commitments, KCHA is requesting the project proceed under an accelerated, two-step verification process, that would allow construction to begin following (1) completion of (a) a 100% surface pedestrian survey of the entirety of the project area and the identification and recording of any historic properties not previously recorded during the archaeological inventory survey (AIS), including but not limited to plantation roads and other plantation features; and (b) additional documentation of the Site 50-30-09-2219 Pump 1 Ditch, which would include further description, mapping, and photographic documentation; and (2) SHPD's review and approval of an End-of-Fieldwork Report meeting the requirements of HAR §13-279-5 which adequately summarizes these identification/documentation efforts in compliance with the revised (Hazlett and Dega, April 2020) mitigation plan.

Pursuant to HRS §6E-8 and HAR §13-275-3(b)(1-5), KCHA has conducted the following five of the six historic preservation review procedural steps:

- (1) Identification and inventory to determine if historic properties are present and, if so, to identify and document them;
- (2) Evaluation of significance;
- (3) Effect determination;
- (4) Mitigation commitments; and
- (5) Detailed mitigation plan(s).

The archaeological inventory survey (AIS), conducted in support of the project involved a pedestrian survey, a vehicle windshield survey, and excavation of five backhoe trenches. The AIS (Powell and Dega 2017) identified a single surface historic property, a segment of a former plantation irrigation ditch (Pump 1 Ditch) system. The Pump 1 Ditch was designated as State Inventory of Historic Places [SIHP] Site 50-30-09-2219. The ditch was assessed significant under Hawaii Administrative Rules (HAR) §13-275-6 Criterion d for its potential to provide information on the extensive McBryde Sugar Company's irrigation system and the development and successful plantation agriculture that dominated the area's landscape. The HRS 6E-8 project effect determination is *Effect, with proposed mitigation commitments*; the project will affect SIHP Site 50-30-09-2219 which was assessed to be a significant historic property, but which was not adequately documented during the AIS.

SHPD accepted the AIS and concurred with the site significance assessment, the project effect determination, and the proposed mitigation commitments directed at addressing deficiencies in the AIS field documentation (June 5, 2017; Log No. 2014.03107, Doc. No. 1706SL01). The mitigation commitments are:

- (1) Archaeological data recovery [HAR §13-275-8(a)(1)(C)] in the form of archaeological monitoring, and
- (2) Historical data recovery [HAR §13-275-8(a)(1)(D)]

In a letter dated August 15, 2019 (Log No. 2019.00798, Doc. No. 1909DB02), SHPD requested that a single mitigation plan be submitted for review and acceptance. The revised mitigation plan (Hazlett and Dega 2020) adequately stipulates the mitigation measures that will be implemented for the project, the documentation that will be produced, and the schedule for implementation and reporting. **The revised mitigation plan is accepted** as meeting the requirements of HAR §13-279-4. Please send two hard copies of the document, clearly marked FINAL, along with a copy of this review letter and a text-searchable PDF version to the Kapolei SHPD office, attention SHPD Library and to lehua.k.soares@hawaii.gov.

The mitigation plan stipulates the following:

- SHPD and KCHA concurred on the following mitigation commitments: (1) archaeological data recovery in the form of archaeological monitoring, pursuant to HAR §13-275-8(a)(1)(C), and (2) historical data recovery in the form of archival research of historic maps, reports, plantation records, and other resource materials, pursuant to [HAR §13-275-8(a)(1)(D)]. Archaeological monitoring was proposed as a mitigation commitment because (1) only limited data were recorded for Site 50-30-09-2219 during the AIS field work, and (2) the AIS pedestrian survey and subsurface testing was limited in scope and coverage.
- Archaeological monitoring will be conducted in two phases, one before construction and one during construction.
- The pre-construction portion of the archaeological monitoring program will involve: (1) a 100% surface pedestrian survey of the entirety of the project area and the identification and recording of any historic properties not previously recorded, including but not limited to plantation roads and other plantation features; and (2) additional documentation of the Site 50-30-09-2219 Pump 1 Ditch, which would include further description, mapping, and photographic documentation. Additional details regarding field methods are provided on page 33 of the plan.

- The during construction portion of the archaeological monitoring program will involve: (1) archaeological monitoring of all ground-disturbing activities, recordation of stratigraphic data and any subsurface historic properties encountered, photographic documentation of construction activities, and archaeological deposits, features, and profiles (with N arrow and 1-m photo stick), GPS mapping data including GPS locations for all stratigraphic profiles; and (2) cross-section profiles and other appropriate documentation of the Site 50-30-09-2219 and other sites or features during construction impact. The GPS data will be collected using a hand-held GPS unit capable of sub-meter accuracy and the locations of all GPS data points will be recorded on a project site plan. Additional details regarding field methods are provided on pages 33 and 34.
- The historical data recovery will be conducted to further identify and document Site 50-30-09-2219 as part of a larger irrigation system (which includes Pump 2 Ditch). This broader historic context will include locating, reviewing, and providing a visual and synthetic discussion using archival records, historical maps and photographs of this system, as well as construction drawings and examination of construction design, methods, and materials (e.g., concrete lining, metal sluice gates, culvert/bridges across the ditches). The historical data recovery mitigation will be initiated prior to construction and, when completed, will be integrated into a single mitigation report, with the archaeological monitoring mitigation.
- The contracted archaeological firm shall submit for SHPD review and acceptance the following three reports: 1) an End-of-Fieldwork report summarizing the pre-construction fieldwork, 2) an End-of-Fieldwork report summarizing the archaeological monitoring fieldwork during construction, and 3) a Mitigation report.
- The first End-of-Fieldwork Report shall meet the requirements of HAR §13-279-5 for SHPD review and acceptance prior to initiation of project construction and the second shall be submitted within 30 days of completion of the archaeological monitoring conducted during construction.
- The End-of-Fieldwork reports shall document compliance with the SHPD-accepted AMP and present the findings as specified in HAR §13-282-3(f)(1).
- The Final Mitigation Report shall include: 1) the historical data recovery and 2) both components of the archaeological monitoring program, (a) pre-construction pedestrian survey and the further documentation of Site 50-30-09-2219, and (b) during archaeological monitoring of construction. This report shall comply with HAR §13-275-8(h)(1) and meet the requirements of HAR §13-279-5, shall address research questions, and comply with all monitoring stipulations and documentation specified in the Mitigation Plan. The Mitigation Report shall be submitted to SHPD for review and acceptance within 60 days of completion of the archaeological monitoring fieldwork. This report shall also include a historic property description for each historic property (non-burial and burial) identified and/or further documented during archaeological monitoring (e.g., plantation roads, ditches, cultural layer, pit features, buried walls). The historic property description shall meet the criteria specified in HAR §13-276-5 (AIS reports), including an assessment of site integrity and site significance per HAR §13-275-6, Criteria a through e.

Pursuant to HAR §13-275-9(d)(1), involves the following two steps:

- Step 1, KCHA shall submit the first End-of-Fieldwork Report to SHPD for review and acceptance following completion of the pre-construction portion of the monitoring field work. SHPD has 30 days to review the report and provide a response to KCHA. When SHPD determines the report to be adequate, SHPD shall notify of the report's adequacy and that construction may proceed, with the understanding that Step 2 must be completed to conclude the HRS 6E-8 historic preservation process.
- Step 2, KCHA shall submit the Final Mitigation Report within 60 days following completion of the archaeological monitoring fieldwork. SHPD has 30 days to review the report and provide a response to KCHA. When SHPD determines the report to be adequate, SHPD shall notify of the report's adequacy and that the HRS 6E-8 historic preservation process is concluded.

Ms. Kanani Fu
April 16, 2020
Page 4

SHPD looks forward to receiving written notification of initiation of the pre-construction archaeological monitoring fieldwork.

The KCHA is the office of record for this project. Please maintain a copy of this letter with your environmental review records for this project.

Please contact Susan A. Lebo, Archaeology Branch Chief, at Susan.A.Lebo@hawaii.gov for any questions or concerns regarding this letter.

Mahalo,

Alan Downer

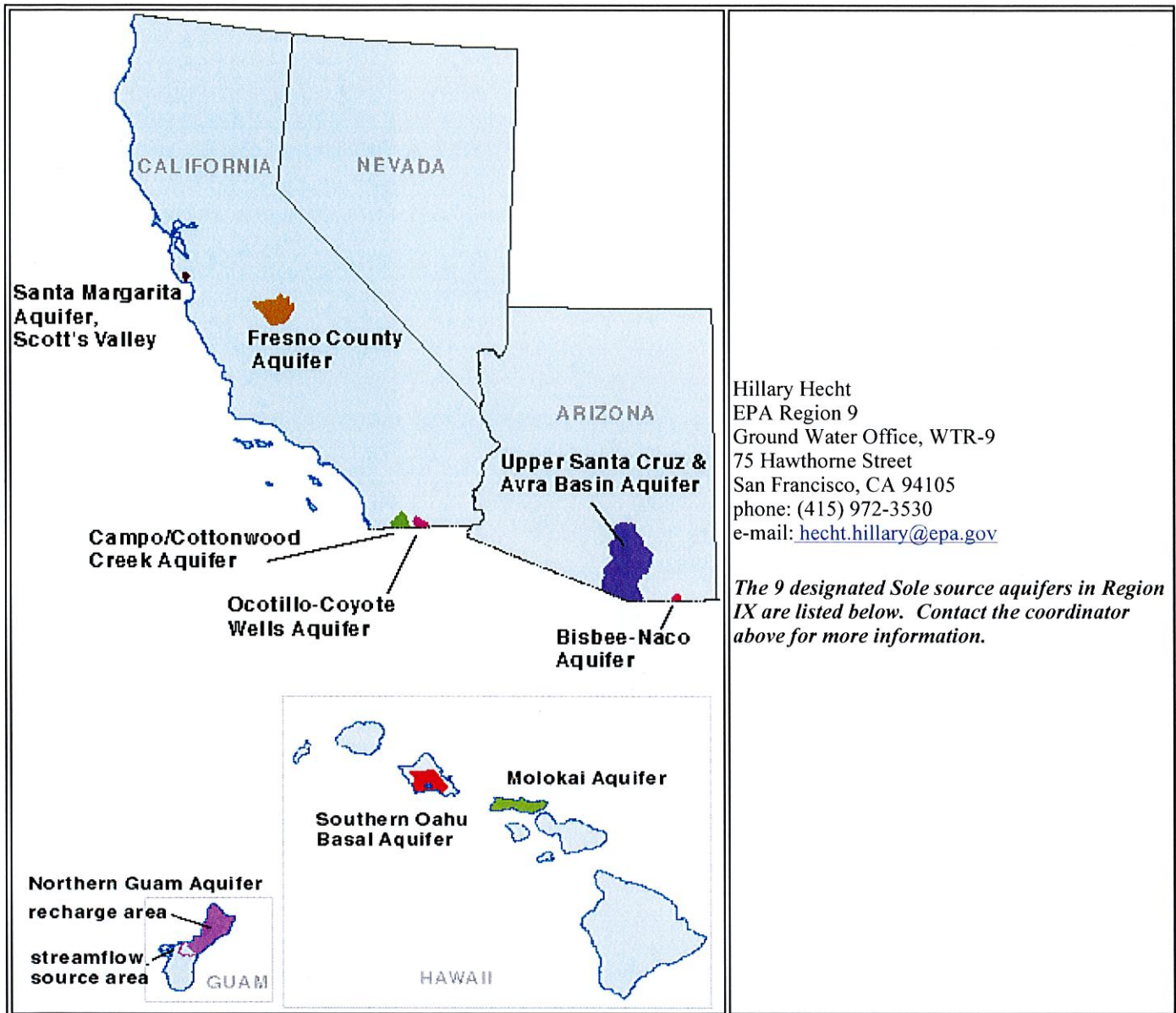
Alan S. Downer, PhD
Administrator, State Historic Preservation Division
Deputy State Historic Preservation Officer

cc: Suzanne D. Case, DLNR Chairperson, suzanne.case@hawaii.gov
Robert K. Masuda, DLNR Deputy, robert.k.masuda@hawaii.gov
Kylan Dela Cruz, Kaua'i County Housing Agency, kdelacruz@kauai.gov
Frank Camacho, Community Planning and Engineering, fcamacho@cpe-hawaii.com
Mike Dega, SCS, Inc., mike@scshawaii.com
Alex Hazlett, SCS, Inc., alex@scshawaii.com

Exhibit 6: Sole Source Aquifer Designation

Designated Sole Source Aquifers in EPA Region IX

Arizona, California, Hawaii, Nevada, Guam, and American Samoa



DESIGNATED SOLE SOURCE AQUIFERS IN REGION IX:

State	Sole Source Aquifer Name	Federal Reg. Cit.	Publ. Date	GIS map
AZ	Upper Santa Cruz & Avra Basin Aquifer	49 FR 2948	01/24/84	yes (PDF)
AZ	Bisbee-Naco Aquifer	53 FR 38337	09/30/88	yes (PDF)
CA	Fresno County Aquifer	44 FR 52751	09/10/79	yes (PDF)
CA	Santa Margarita Aquifer, Scotts Valley	50 FR 2023	01/14/85	yes (PDF)
CA	Campo/Cottonwood Creek	58 FR 31024	05/28/93	yes (PDF)
CA	Ocotillo-Coyote Wells Aquifer	61 FR 47752	09/10/96	yes (PDF)
GU	Northern Guam Aquifer System	43 FR 17867	04/26/78	yes (PDF)
HI	Southern Oahu Basal Aquifer	52 FR 45496	11/30/87	yes (PDF)

HI	Molokai Aquifer	59 FR 23063	04/20/93	yes (PDF)
----	-----------------	-------------	----------	---------------------------

Return to: [Sole Source Aquifer program home page](#)

Exhibit 7: Wetlands Map

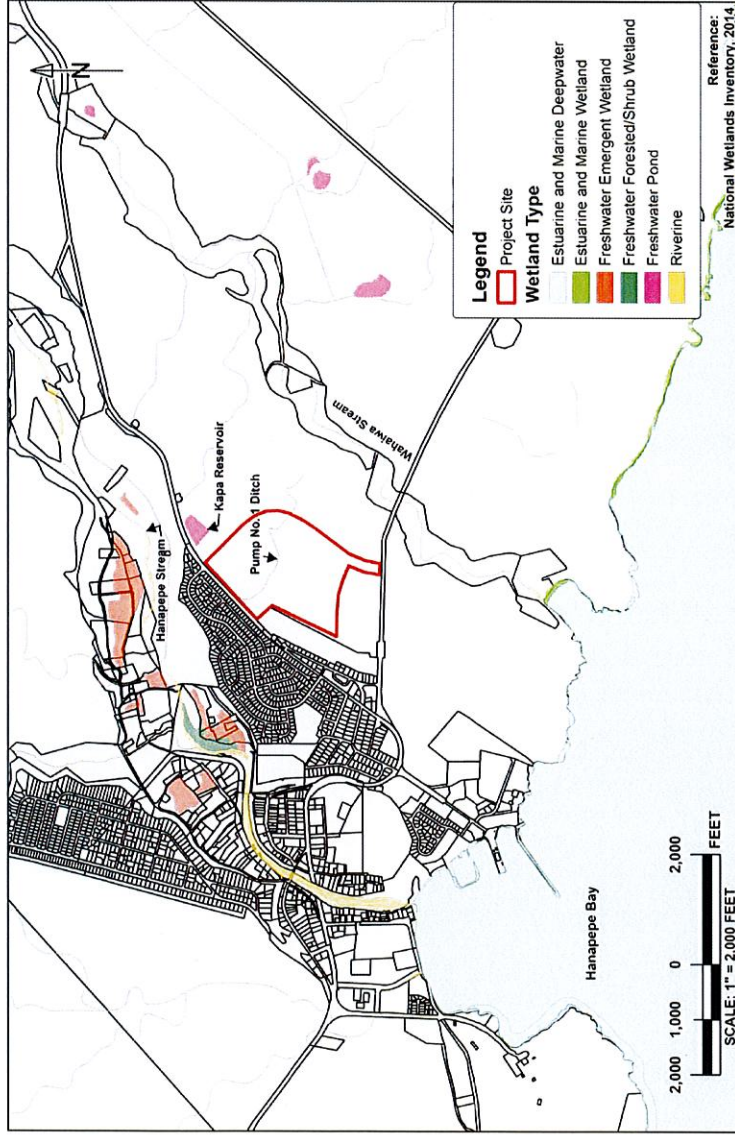


Exhibit 8: Wild and Scenic Rivers Designation



HOME	NATIONAL SYSTEM	MANAGEMENT	RESOURCES	PUBLICATIONS	CONTACT US	KID'S SITE
------	-----------------	------------	-----------	--------------	------------	------------

S

HAWAII

Hawaii has approximately 3,905 miles of river, but no designated wild & scenic rivers.

Hawaii does not have any designated rivers.

Choose a State	▼	Go
Choose a River	▼	Go

Dark and foreboding one minute, sun-drenched and exploding with color the next, tropical rivers span every mood.

[About WSR Act](#)
[State Listings](#)
[Profile Pages](#)

[WSR Table](#)
[Study Rivers](#)
[Stewardship](#)
[WSR Act Legislation](#)

[Council](#)
[Agencies](#)
[Management Plans](#)
[GIS Mapping](#)

[Q & A Search](#)
[Bibliography](#)
[Publications](#)
[GIS Mapping](#)
[Logo & Sign Standards](#)
[Display](#)