

The Environmental Notice

A SEMI-MONTHLY BULLETIN OF THE OFFICE OF ENVIRONMENTAL QUALITY CONTROL



BENJAMIN J. CAYETANO
GOVERNOR

**OFFICE OF
ENVIRONMENTAL
QUALITY CONTROL**

GARY GILL
DIRECTOR

The Environmental Notice
reviews the environmental impacts of
projects proposed in Hawaii

Other Resources
available at OEQC . . .

- *Guidebook for Hawaii's Environmental Review Process*
- *Environmental Impact Study Resource Library*
- *Environmental Education Database*
- *Environmental Council Annual Reports*
- *Rules and Policies*
- *"How to Plant a Native Hawaiian Garden"*

OEQC

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JANUARY 8, 1999

Waimanalo Wastewater Facilities

The Department of Design & Construction (formerly Wastewater Management) has submitted the final EIS for the upgrade of wastewater facilities in Waimanalo at a total cost of \$23 million. Rehabilitation work on the western portion will reduce infiltration and inflow of rainwater into sewer lines during wet weather, and the possible sewerage of about 350 homes in the "beach lot area" will eliminate their individual wastewater systems. Extensive improvements to the Waimanalo Wastewater Treatment Plant will increase capacity from 0.7 million gallons per day (mgd) to 1.1 mgd, and

include a new secondary treatment process, an effluent filtration system, additional injection wells and new sludge thickening facilities. Reclaimed water is targeted for use at selected farm lots and at Olomana Golf Links.

The improvements will reduce the probability of spillage of untreated sewage from the wastewater collection system during heavy rains and storms, and the elimination of the individual wastewater systems will reduce the contribution of nitrogen into Waimanalo Bay, a suspected contributory cause of periodic algal blooms. For more information see page 5.

Power Line over Wa'ahila Ridge

Hawaiian Electric (HECO) has submitted the final EIS for the placement of its power line between Kamoku (near Date-Kapi'olani) and Pukele (the back of Palolo Valley). The draft EIS considered 11 alternative alignments and technologies; the preferred alternative is a combination of underground and overhead alignments, the latter passing over Waahila Ridge behind the University of Hawai'i, to reach the back of Palolo Valley.

HECO has selected the preferred alternative. In the course of public review, including public hearings and scoping sessions, a great deal of opposition was articulated. The draft EIS solicited almost 200 comment letters and nearly 3,000 comment postcards. Some of the strongest opposition focused on degradation of viewsheds, with the issue of undergrounding vs. overheading of lines, and EMFs (electro-magnetic fields) and their still unknown effect on human health. This project has a legal challenge period ending on March 1, 1999. See page 4 for further information.

Pu'u Maka'ala NAR Fence

On the eastern slopes of Mauna Loa in the Pu'u Maka'ala Natural Area Reserve (NAR) at the 3,600 foot elevation, DLNR's Division of Forestry and Wildlife is proposing a 16,700 foot fence enclosure to protect sensitive eco-communities which include the endangered anunu (*Sicyos alba*), a native member of the cucumber family, as well as several other rare, threatened/ endangered plant and animal species from the feral pig (*Sus scrofa*). The fence will also surround a pocket of forest characterized by taller stature 'ohi'a (*Metrosideros polymorpha*) trees, high species diversity, and higher densities of particular plants such as olona (*Touchardia latifolia*) and loulou palm (*Pritchardia beccariana*), not normally found in other areas of the NAR. The Upper Puna Volcano Regional Forest Management Advisory Council, a DOFAW-led groups consisting of hunters, environmentalists, land management agencies, landowners, community associations, the forest industry, and cultural practitioners/gatherers, has proposed that this project be carried out. For more, see page 10.

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OEQC intends to make the information in this bulletin accessible to everyone. Individuals that require this material in a different format (such as large type or braille), should contact our office for assistance.

Draft Environmental Assessments



(1) Kapakahi Well

District: Honolulu
TMK: 3-5-24:01
Applicant: Department of Land and Natural Resources
1151 Punchbowl St, Room 220
Honolulu, Hawai'i 96813
Contact: Andrew Monden (587-0230)

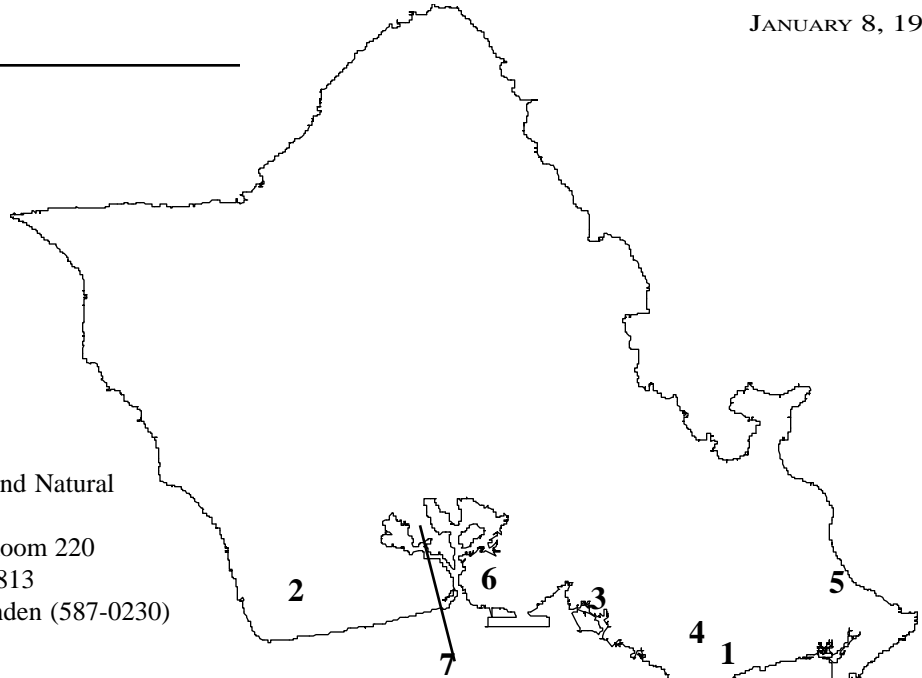
Approving Agency/Accepting Authority: Same as above
Consultant: CH2M HILL
1585 Kapi'olani Boulevard, Suite 1420
Honolulu, Hawai'i 96814-4530
Contact: Mark Willey (943-1133)

Public Comment

Deadline: February 8, 1999
Status: DEA First Notice pending public comment. Address comments to the applicant with copies to the consultant and OEQC.

Permits Required: CDUA, Pump installation, water use, noise, grading, building, street usage

The Department of Land and Natural Resources (DLNR), Land Division, Engineering Branch, together with the Kamehameha Schools Bishop Estate (KS/BE), are proposing to install a production well within Kapakahi Gulch at the end of Ainakoa Avenue. The proposed Kapakahi Well will be capable of producing 1.4 million gallons per day (mgd) of potable water. Following construction and installation of the well and accompanying facilities, the well will be integrated into the Board of Water Supply's (BWS) water system. The development of additional water sources is necessary in order to accommodate the demand for water from State and KSBE-sponsored projects. A Draft Environmental Assessment has been prepared to support the issuance of a Conservation District Use Permit. No significant adverse impacts have been identified through the preparation of the environmental assessment. Construction work, primarily site clearing, grading, and erection of the control building, will cause minor short-term noise and fugitive dust impacts to the surrounding environment.



Noise and dust impacts from this project will not be noticeable to any residences since the area is located approximately 200 feet from the nearest home. All government rules and regulations concerning noise and fugitive dust emissions will be followed during construction to minimize minor short-term noise and air pollution impacts. To mitigate the short-term noise impacts, contractors will comply with all of the conditions of the required noise permit. Mufflers will be required for all construction equipment. All noise-attenuating equipment will be maintained in proper operating condition and will be repaired or replaced as needed. Construction activities will be restricted to the hours of 7:30 A.M. to 4:30 P.M. on weekdays and will exclude state holidays. In order to reduce noise levels from the production pump, a submersible pump will be used.

To mitigate the short-term air pollution effects of the construction activities, dust control measures such as water sprinkling, will be implemented by the contractor to reduce dust levels, as necessary. Further, the contractor will properly maintain its internal combustion equipment to minimize exhaust emissions, and will comply with the State of Hawai'i, Department of Health Rules Title 11, Chapter 59 and 60 regarding Air Pollution Control. Traffic impacts to Ainakoa Avenue will be minimal. The contractor will schedule the movement of heavy trucks and vehicles to or from the site after 8:00 A.M. and before 3:30 P.M. to avoid the morning and afternoon peak traffic periods.

Oahu Notices

JANUARY 8, 1999

Final Environmental Assessments/Findings of No Significant Impacts (FONSI)



(2) Kapolei High School

District: Ewa
TMK: 9-1-16:74 and 75 por.
Applicant: Housing and Community Development Corporation of Hawai'i
677 Queen Street, Suite 300
Honolulu, Hawai'i 96813
Contact: Sandy Pfund (587-0550)

Approving Agency/Accepting

Authority: Same as above.
Consultant: Mitsunaga and Associates, Inc.
747 Amana Street, Suite 216
Honolulu, Hawai'i 96814
Contact: Byung Lee (945-7882 ext. 132)

Public Challenge

Deadline: February 8, 1999
Status: FEA/FONSI issued, project may proceed.

Permits

Required: Best Management Practices, NPDES, New Access to State Highway, LUO waiver, building, sewer connection, industrial ww, grading, erosion control, drain connection

The proposed action involves the development of a High School on approximately 45 acres of land in the southwest corner of the Villages of Kapolei master planned community. The school campus will include one- or two-story buildings consisting of four "Neighborhoods" for classrooms, a Music Building, an Adult Education Center, a Forum, a Library/Media Center, an Administration Center, and a P.E. Locker/Gymnasium Building. The total net space for all buildings will be 198,000 sf and 302,000 sf gross floor space. The school campus will also include two ballfields, playcourts, staff and visitor parking with access to Kapolei Parkway, and a parent pick-up/drop-off area. The school will be designed as a year-round, four-track school to accommodate large enrollments, provide flexibility in the use of classroom spaces, and use financial resources cost-effectively.



(3) Honolulu Harbor Maintenance Dredging at Piers 15 to 20

District: Honolulu
TMK: 1-5-39, 40
Applicant: Department of Transportation
Harbors Division
79 South Nimitz Highway
Honolulu, Hawai'i 96813

Approving Agency

Accepting Authority: Same as above.

Public Challenge

Deadline: January 22, 1999
Status: FEA/FONSI issued, project may proceed

The State Department of Transportation, Harbors Division, proposes to do maintenance dredging in the berthing areas of Piers 15 to 20. The berthing areas of Piers 15 to 18 will be dredged to their original depth of eighteen feet (18') below Mean Lower Low Water (MLLW). The berthing areas of Piers 19 and 20 will be dredged to their original depth of thirty-five feet (35') below MLLW. Approximately 24,000 cubic yards of silt will be dredged and disposed of at the South O'ahu ocean disposal site approved by the Environmental Protection Agency. The work will be scheduled so as not to interfere with shipping activities. No major or significant adverse impacts are anticipated as a result of this maintenance dredging project.

Final Environmental Impact Statements



(4) Kamoku-Pukele 138-kV Transmission Line Project

District: Honolulu
TMK: Portions of O'ahu: 3-4-10:3, 9, 19; 3-4-20:1, 3; 2-9-25:1, 10, 15; 2-9-50:1, 2, 3, 4, 5, 6
Applicant: Hawaiian Electric Company, Inc.
P.O. Box 2750
Honolulu, Hawai'i 96840-0001
Contact: Kerstan Wong (543-7059)

Approving Agency/Accepting

Authority: Department of Land and Natural Resources
1151 Punchbowl Street
Honolulu, Hawai'i 96813
Contact: Sam Lemmo (587-0381)

Consultant: CH2M Hill
1585 Kapi'olani Boulevard, Suite 1420
Honolulu, Hawai'i 96814-4530
Contact: Mark Willey (943-1133)

Status: FEIS currently being reviewed by the
Department of Land and Natural Resources.

**Permits
Required:** CDUP, Public Facilities Map Amendment,
Noise, ROW, Building, NPDES, CUP-1

The Hawaiian Electric Company, Inc. is proposing to construct a single circuit 138-kV alternating current transmission line between the Kamoku Substation, located on Date Street in the Mo'ili'ili area, and the Pukele Substation, located in the mauka portion of Palolo Valley. The proposed Kamoku-Pukele 138-kV Transmission Line is the outcome of several studies performed between 1983 and 1998. These studies examined various alternatives to meet HECO's reliability requirements and recommended the construction of an additional transmission line corridor over the southern portion of O'ahu, connecting power plants in Leeward O'ahu to the rest of the island. Currently, the Pukele Substation is connected to the power grid only through the northern transmission corridor via the Ko'olau Substation on the Windward side of the island. The proposed transmission line will close the gap between the southern and northern transmission line corridors.

The Pukele Substation services approximately 18 percent of O'ahu's power demand. The 138-kV transmission line will exit the Kamoku Substation on Date Street and proceed underground along Kapi'olani Boulevard. The transmission line will pass under the H-1 Freeway at the Kapi'olani Interchange, continue along King Street, and turn to cross the H-1 Freeway over the Old Wai'alae Avenue Extension Bridge, where it will enter the University of Hawai'i Lower Campus at the Wai'alae Gate. Within the lower campus, the transmission line will proceed underground along the access roads to the mauka side of Dole Street, where it will transition to an overhead alignment near the U.S. Marine Fisheries Center. The transmission line will continue overhead along the easements for the existing Pukele 7 & 8 46-kV subtransmission line on Wa'ahila Ridge, then continue down the back of Wa'ahila Ridge to the Pukele Substation located at the back of Palolo Valley. Modifications to both the Kamoku and Pukele Substations also will be made to support the terminations for the proposed transmission line.

After review and consideration of the public comments on the Draft EIS and the additional environmental analyses prepared for the Final EIS, HECO has reconfirmed its decision that the proposed action represents the best balance among the various environmental, social, economic, and engineering concerns.

Approximately 1.2 miles of this proposed line will pass through Conservation District land along Wa'ahila Ridge. Use within the Conservation District would involve removal of existing wooden poles, and the installation of new tubular-steel poles to accommodate both the single 138-kV line and the two existing 46-kV lines. These new steel poles will be taller than the existing wooden poles. Construction of the 138-kV line within the Conservation District will rely primarily on manual labor and the use of helicopters.

The Kamoku-Pukele 138-kV Transmission Line is needed for the following reasons:

- * Provide the Pukele Substation with electricity over an entirely separate transmission line corridor, providing an alternative to the existing two transmission lines crossing the Koolau Mountains.

- * Greatly enhance the reliability and operational flexibility of the entire 138-kV system by creating a 138-kV transmission loop system serving Windward and East O'ahu.

- * Prevent overloading of existing circuits to the Ko'olau, Iwilei, and School Street Substations, which collectively serve 36 percent of O'ahu's electrical load.

- * Provide additional capacity to meet the projected load growth within the East O'ahu Service Area by providing alternative transmission routes to serve the Kewalo and Kamoku Substations.

The Kamoku-Pukele 138-kV Transmission Line is scheduled for service by the end of 2001. Construction of the project is anticipated to take up to 18 months and will begin by June 2000 to meet the required service date.



(5) Waimanalo Wastewater Facilities Plan

District: Koolaupoko
TMK: 4-1
Applicant: City and County of Honolulu
Department of Wastewater Management
650 South King Street
Honolulu, Hawai'i 96813
Contact: Carl Arakaki (523-4671)

Oahu Notices

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Approving Agency/Accepting

Authority: Governor, State of Hawai'i
c/o Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawai'i 96813

Consultant: Hawai'i Pacific Engineers, Inc.
1132 Bishop Street, Suite 1003
Honolulu, Hawai'i 96813-2830
Contact: Roy Abe (524-3771)

Status: FEIS currently being reviewed by the Office of Environmental Quality Control.

Permits Required: Building, grading, UIC, SMA, NPDES, community noise, flood hazard variance

The City and County of Honolulu Department of Design and Construction is updating the Waimanalo Wastewater Facilities Plan. This planning document describes recommended collection system and treatment facility improvements to meet the wastewater management needs of the Waimanalo community to the year 2020. The average daily flow at the Waimanalo Wastewater Treatment Plant (WWTP) is projected to increase from the present 0.6 million gallons per day (mgd) to up to 1.1 mgd in the year 2020 due to additional development and expansion of the wastewater collection system. The original wastewater facilities plan and EIS prepared in 1984 projected a flow of 0.7 mgd for the year 2005. Major proposed improvements at the Waimanalo WWTP include new secondary biological treatment processes, effluent filtration facilities, effluent disposal injection wells, and sludge thickening facilities. Other proposed improvements include an ultraviolet disinfection system and effluent pumping facilities to allow reclaimed effluent to be used as a source of irrigation water. Rehabilitation work on the western portion of the existing sewer system is proposed to reduce entry of groundwater and surface runoff into the sewer lines.

Sewering of approximately 350 existing homes in the coastal "beach lot area" of Waimanalo to eliminate use of individual wastewater systems is recommended if future studies indicate that this action will result in water quality benefits. Recent groundwater investigations at Waimanalo indicate that pathogens from the cesspools in coastal areas may potentially be effectively removed by the sandy soil. The discharge of nitrogen to coastal waters in the form of soluble nitrates, however, is a concern. Additional investigations to quantify and assess other sources of nitrogen in the Waimanalo watershed are recommended.

The total estimated capital cost for the proposed wastewater facility improvements is \$22.8 million. The Waimanalo WWTP improvements are estimated to cost \$16.1

million. Expansion and rehabilitation of the sewer system is estimated to cost \$6.7 million.

National Environmental Policy Act (NEPA)



(6) Sentry Aloha Facilities

District: Honolulu
TMK: 9-9-01
Applicant: Hawai'i Air National Guard
154 Wing/EMO
360 Harbor Drive
Hickam AFB, HI 96853-5517
Contact: Captain Erik Wong (448-7545)

Approving Agency/Accepting

Authority: Same as above.

Public Comment

Deadline: February 8, 1999

The Hawai'i Air National Guard proposes to provide additional office space and restroom facilities to support deployed Air National Guard (ANG) personnel during "Sentry Aloha" Dissimilar Aircraft Combat Training exercises. The project includes the construction of a 2400 ft² bathroom and office addition to building 3435, and a septic tank and leach field treatment system. Construction of the addition will consist of concrete footings, stem walls, floor, CMU walls, steel roof joists, pan deck, ridged insulation, and standing seam metal roofing. The restrooms will include water closets, urinals, and lavatories only (no showers). The facilities will support a maximum population of 70 people, who would occupy the facilities for six two-week rotations per year for a total of 84 days of occupancy. The septic system would be used for sanitary waste only, with an estimated effluent flow of 1400 gallons per day. Building 3435 was constructed in 1988, when the area was not considered to be in the tsunami inundation zone. Therefore, no additional sites were pursued. No measurable impact on surface and storm water runoff and quality would result, and no flood control projects will be required. There would be no decline in groundwater levels and no depletion of water resources. There are no threatened or endangered species in the area, and no hazardous waste will be generated. The sewage leach field will be designed and constructed in accordance with local building and plumbing codes, and will comply with the constraints specified by the HDOH Wastewater Branch. Air quality impacts will only occur during construction and will be short-term.

(7) Waipio Peninsula Lease of U.S. Navy Property for Use As A Public Soccer Park

Pursuant to Council on Environmental Quality regulations (40 CFR Parts 1500-1508) implementing the National Environmental Policy Act, the Department of the Navy gives notice that an Environmental Assessment (EA) has been prepared and an Environmental Impact Statement is not required for the proposed lease of U.S. Navy property at Waipio Peninsula to the City and County of Honolulu for use as a public soccer park. Public Law 105-45, Section 127 authorizes the Secretary of the Navy to lease, without monetary consideration, certain property on Waipio Peninsula to the City and County of Honolulu (City) for construction of and use as a public soccer park and related recreational facilities. The proposed term of the lease is 50 years. The proposed leasing action consists of the following: (1) the leasing of 234 acres (95 hectares) more or less to the City for construction of 18 to 25 soccer fields, with associated on-site roadway, parking, lighting and restrooms; (2) the grant of an easement to the City on Waipio Point Access Road for access to and operation of the proposed lease lands; (3) construction of drainage improvements to Waipio Point Access Road by the City; and (4) development and delivery by the City to the proposed lease lands and adjacent golf course of up to 2.1 million gallons (7,949 cubic meters) per day of irrigation water, plus additional capacity for delivering 2.5 million gallons (9,462 cubic meters) per day to Navy lands south of the proposed lease lands.

Implementing the proposed action will not result in any significant adverse environmental impacts that cannot be mitigated. The U.S. Fish and Wildlife Service has concurred that the proposed action is not likely to adversely impact any biological resources. Waikele Stream has sufficient sustainable capacity available to meet the planned irrigation water needs of the proposed soccer park, Ted Makalena Golf Course, and the Navy's lands south of the proposed soccer park. The State Historic Preservation Officer has concurred that the proposed action will have no effect on the Pearl Harbor National Historic Landmark or on Loko Hanaloa, a traditional fishpond which is currently buried below the proposed soccer park project site at an elevation of -12 feet (3.5 meters). The City through design, construction, and management standard operating procedures will mitigate traffic impacts to an insignificant level. The City will be able to provide adequate public health and safety services in support of the proposed action. The State Coastal Zone Management (CZM) Office has concurred with the City's finding that the proposed action is consistent to the maximum extent practicable with CZM policies and objectives. There

will not be any disproportionately high and adverse human health or environmental effects from the proposed action on minority or low-income populations or on children. No adverse environmental effects on air quality or the noise environment would occur as a consequence of the proposed action.

Based on information gathered during preparation of the EA, the Department of the Navy finds that the proposed lease of U.S. Navy property at Waipio Peninsula to the City and County of Honolulu for use as a soccer park will not significantly impact the environment.

The EA addressing this proposed action may be obtained from: Commander, Pacific Division, Naval Facilities Engineering Command, 258 Makalapa Drive, STE 100, Pearl Harbor, Hawai'i, 96860-3134 (attention: Mr. Melvin Kaku, Code 23), telephone, (808) 471-9338. A limited number of copies of the EA are available to fill single copy requests.

Previously Published Projects Pending Public Comments

Draft Environmental Assessments

🦅 Barbers Point Naval Air Station Reuse Plan

Applicant: City and County of Honolulu
Department of Design and Construction
650 South King Street
Honolulu, Hawai'i 96813
Contact: Don Griffin (527-6324)

Approving Agency/Accepting

Authority: Same as above.

Public Comment

Deadline: January 22, 1999

🦅 Bellows AFS Regional Training Institute Complex

Applicant: Department of Defense
Hawai'i Army National Guard
3949 Diamond Head Road
Honolulu, Hawai'i 96816-4495
Contact: LTC Ron Swafford, Capt. Charles
Anthony (733-4214/733-4258)

Approving Agency/Accepting

Authority: Same as above.

Public Comment

Deadline: January 22, 1999

Oahu Notices

JANUARY 8, 1999

Galleria Shopping Center, Phase II

Applicant: USPO Galleria, LLC
335 Merchant Street, Suite 100
Honolulu, Hawai'i 96813
Contact: Russell Allen (533-4450)

Approving Agency/Accepting

Authority: City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawai'i 96813
Contact: Art Challacombe (523-4107)

Public Comment

Deadline: January 22, 1999

North-South Road Corridor

Applicant: Department of Transportation, Highways
Division, 869 Punchbowl Street
Honolulu, Hawai'i 96813
Contact: Kenneth Au (587-1843)

Approving Agency/Accepting

Authority: Same as above.

Public Comment

Deadline: January 22, 1999

Portlock Road Footbridge

Applicant: Evershine Group VIII L.P.
10011 North Foothill Boulevard, Suite 107
Cupertino, California 95014
Contact: Annie Chan (408-343-1088)

Approving Agency/Accepting

Authority: City and County of Honolulu
Department of Planning and Permitting
650 South King Street, 7th Floor
Honolulu, Hawai'i 96813
Contact: Steve Tagawa (523-4817)

Public Comment

Deadline: January 22, 1999



Maui Notices

Final Environmental Assessments/Findings of No Significant Impact (FONSI)



(1) Hyatt Regency Maui Spa & Fitness Facility

District: Lahaina
TMK: 4-4-13: 08
Applicant: Hyatt Regency Maui
200 Nohea Kai Drive
Lahaina, Hawai'i 96761
Contact: Michael Bissell (661-1234)

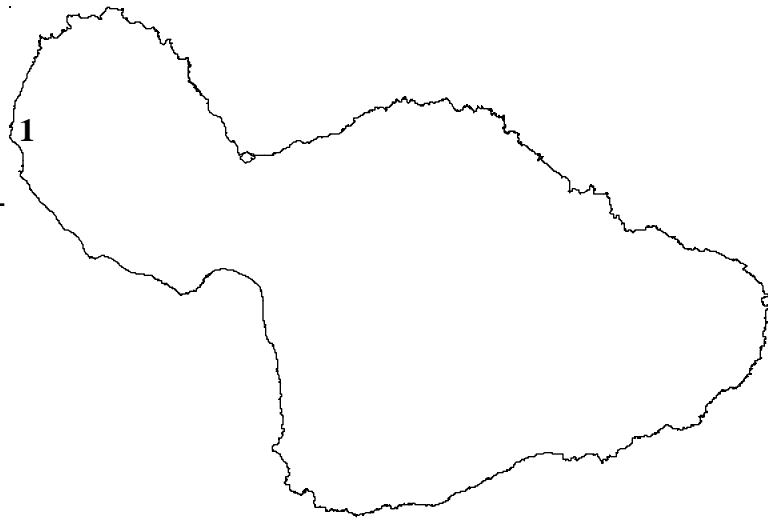
Approving Agency

Accepting Authority: County of Maui
Maui Planning Commission
250 South High Street
Wailuku, Hawai'i 96793

Consultant: Munekiyo, Arakawa & Hiraga, Inc.
305 High Street, Suite 104
Wailuku, Hawai'i 96793
Contact: Gwen Ohashi Hiraga (244-2015)

Public Challenge

Deadline: January 22, 1999
Status: FEA/FONSI issued, project may proceed
Permits Required: Special Management Area Use; shoreline setback variance; building; electrical and plumbing.



The Hyatt Regency Maui is proposing to construct a Spa and Fitness Facility on the grounds of the resort (TMK 4-4-13: 08). The proposed improvements will consist of an approximately 9,000 square foot Spa and Fitness Facility that will be constructed on the site of an outdoor function area situated on the rooftop deck of an existing 10,000 square foot, one-story reinforced concrete structure which was constructed in 1991. In addition to including parking stalls, the first level of this structure contains storage areas, restrooms, and a beach activities center, as well as a snack shop and service bar. Access to the rooftop deck is provided by both an elevator and open stairs. The interior design of the proposed facility will feature programmed functions and spaces for a weight room, a beauty salon, a co-ed waiting room, a retail area, a management office, a relaxation lounge, a treatment suite with whirlpool, prep rooms, restrooms, facial suites, storage rooms, massage rooms, and locker/powder rooms as well as steam, sauna, and shower rooms. The exterior design of the proposed facility will feature a landscaped deck with an exposed aerobic workout area. Construction of the project will commence upon the receipt of applicable regulatory approvals and permits. Cost estimates and an implementation time frame will be established in connection with the development of the project's plans and specifications. An Environmental Assessment has been prepared since the proposed facility is located within the limits of the shoreline setback area.

Previously Published Projects

Draft Environmental Assessments

👉 Front Street New Commercial Building

Applicant: Pacific Warehouse
3536 Harding Avenue, Suite 500
Honolulu, Hawai'i 96816
Contact: Lloyd Sueda (949-6644)

Approving

Agency: County of Maui, Planning Department
200 South High Street
Wailuku, Hawai'i 96793
Contact: Ann Cua (243-7735)

Public Comment

Deadline: January 22, 1999

👉 Hali'imaile Residential Project

Applicant: A&B Properties, Inc.
822 Bishop Street
P.O. Box 3440
Honolulu, Hawai'i 96801
Contact: Stanley M. Kuriyama (525-6611)

Approving

Agency: County of Maui, Planning Department
250 South High Street
Wailuku, Hawai'i 96793
Contact: Lisa M. Nuyen (243-7735)

Public Comment

Deadline: January 22, 1999

👉 Kapua Village

Applicant: Maui Land & Pineapple Company, Inc.
P.O. Box 187
Kahului, Hawai'i 96732
Contact: Warren Suzuki (877-3351)

Approving

Agency: County of Maui, Planning Department
250 South High Street
Wailuku, Hawai'i 96793
Contact: Julie Higa (243-7814)

Public Comment

Deadline: January 22, 1999

👉 North Waihe'e Watershed Management Subdivision

Applicant: County of Maui Board of Water Supply
200 South High Street
Wailuku, Hawai'i 96793
Contact: Herbert Kogasaka (243-7835)

Approving

Agency/Accepting

Authority: Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawai'i 96909
Contact: Tom Eisen (587-0386)

Public Comment

Deadline: January 22, 1999



Hawai'i Notices

JANUARY 8, 1999

Draft Environmental Assessments



(1) Pu'u Maka'ala Natural Area Reserve Fence Construction

District: Puna

TMK: 1-8-12-3

Applicant: State Department of Land and Natural Resources
Division of Forestry and Wildlife
P.O. Box 4849
Hilo, Hawai'i 96720
Contact: William Stormont (974-4221)

Approving Agency/Accepting Authority: Same as above.

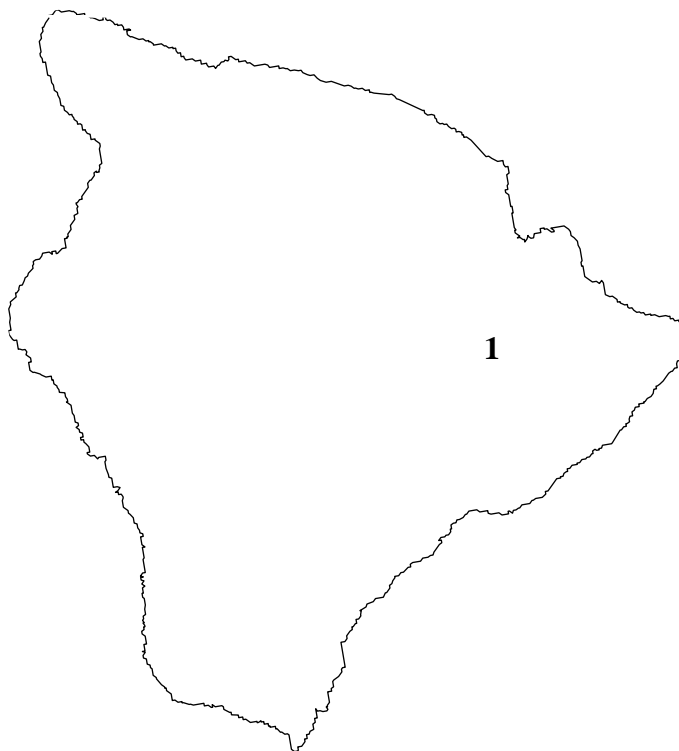
Public Comment

Deadline: February 8, 1999

Status: DEA First Notice pending public comment.
Address comments to the applicant with copies to the consultant and OEQC.

Permits Required: CDUA

The Division of Forestry and Wildlife (DOFAW), Natural Area Reserves program proposes constructing a 16,700 foot fenceline within the above parcel as part of ongoing efforts to protect native forest ecosystems, and rare, threatened, and/or endangered flora and fauna found within these ecosystems, from the effects of feral pigs (*Sus scrofa*). The project involves erecting a fence using galvanized steel posts, thirty-nine inch hog wire, and one strand of barbed wire along the bottom. These fences will run both along existing four-wheel drive roads and through a portion of undisturbed forest, creating a 290 acre fenced area. The fence corridor will be cleared by hand using small hand and power tools. The ultimate goal of the project is to completely exclude feral pigs from within the fenced area for ecosystem protection purposes. The project proposed is within the Pu'u Maka'ala Natural Area Reserve (NAR) on the eastern slope of Mauna Loa. Adjacent lands include 'Ola'a Tract of Hawai'i Volcanoes National Park, Kulani Correctional Facility, and state forest reserve lands. Specifically, the project lies at the 3,600 foot contour approximately 1 mile south of Stainback Highway, adjacent to a four-wheel drive road named both "Army" and "Disappointment" Road. All project lands are within the "P" sub-zone of the Conservation District. Maps indicating land ownership and the proposed fence line can be found in Appendix A. The 12,106-acre



Pu'u Maka'ala NAR was designated in 1981 to protect high quality 'ohi'a-tree fern and 'ohi'a-koa forests, and a large number of rare species, and provide an important ecosystem link between the lower elevation forests within Ola'a Tract and higher elevation forests in Kulani and Upper Waiakea. One of the described alternatives involves developing a new section of roadway to modify access to a portion of Army Road. This roadway will connect the northwestern corner of Army Road with Stainback Highway via approximately 700 feet of new roadway. A roadway component to the project is proposed to in turn allow closure of a separate section of Army Road, where the roadway will be used as the fence corridor. By doing so, we alleviate the need to clear a longer section of fence corridor, and make construction and subsequent maintenance much more efficient.

Previously Published Projects Pending Public Comments

Draft Environmental Assessments

► GTE Submarine Fiber Optic Cable Network at Spencer Beach Park

Applicant: GTE Hawaiian Tel International, Inc.
P.O. Box 2200
Honolulu, Hawai'i 96841
Contact: Powell Onishi (546-4511)

Hawaii Notices

JANUARY 8, 1999

Approving Agency/Accepting

Authority: Department of Land and Natural Resources
Land Division
P.O. Box 621
Honolulu, Hawai'i 96809
Contact: Lauren Tanaka (587-0385)

Public Comment

Deadline: January 22, 1999

Draft Environmental Impact Statements

► Hamakua Lower Ditch Watershed Project

Applicant: State Department of Agriculture
P.O. Box 22159
Honolulu, Hawai'i 96823-2159
Contact: Paul Matsuo (973-9475)

Approving Agency/Accepting

Authority: Governor, State of Hawai'i
c/o Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawai'i 96813

Public

Hearing: *Monday, January 11, 1999, at Honoka'a School Cafetorium, Honoka'a, at 7 P.M.*

Public Comment

Deadline: January 22, 1999

► Puainako Street Extension and Widening

Applicant: County of Hawai'i
Department of Public Works
25 Aupuni Street
Hilo, Hawai'i 96720
Contact: Jiro Sumada (961-8321)

Approving Agency/Accepting

Authority: Governor, State of Hawai'i
c/o Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawai'i 96813

Public Comment

Deadline: *Extended to February 22, 1999*



DOH Notices/Pollution Permits

Voluntary Response Program

The Hawai'i Department of Health has received the following application to participate in the voluntary response program, the purpose of which is to encourage developers and prospective purchasers to voluntarily clean up contaminated properties and put them into productive use. The application is available for public review and comment. For more information, call Davis Bernstein at (808) 586-4253.

Ross Trusts Property at 819 Mo'owa'a Street, Honolulu

The property to be cleaned up is located at 819 Mo'owa'a Street, Honolulu, HI 96817, in the Kapalama district of Honolulu. The contamination is due to a petroleum related release from an underground storage tank.

Pollution Notices

Puna Geothermal Venture Draft Permit

On December 24, 1998, the DOH gave notice that the comment period for the draft air pollution permit for Puna Geothermal Venture's Operation of a 35MW (Nominal) Geothermal Power Plant, Wellfield, and Geothermal Exploratory/Development Wells in Pahoia, Hawai'i has been extended from **December 21, 1998 to January 4, 1999**. For more information please call (808) 586-4200.

Kunia Naval Security Activity Permit

DOH proposes to issue a NPDES permit (No. HI 112156, Docket No. 98-CW-PW-09) to discharge into the Waikele Stream of once-through, non-contact cooling water and pump start-up well water from the Naval Security Group Activity at Kunia. Comments must be received by DOH's Clean Water Branch by **January 13, 1999**. For details, please call (808) 586-4309.

Kaua'i Notices

JANUARY 8, 1999

Previously Published Projects Pending Public Comments

Draft Environmental Impact Statements

Approving Agency/Accepting

Authority: County of Kaua'i, Planning Department
4444 Rice Street, Suite 473
Lihu'e, Hawai'i 96766
Contact: Dee M. Crowell (241-6677)

Public Comment

Deadline: February 8, 1999

● Lihu'e Energy Service Center

Applicant: Kaua'i Electric Division
Citizens Utilities Company
4463 Pahe'e Street
Lihu'e, Hawai'i 96766
Contact: Dave Morgan (335-6233)



Shoreline Notices

Shoreline Certification Applications

Pursuant to § 13 -222-12, HAR the following shoreline certification applications are available for inspection at the DLNR District Land Offices on Kauai, Hawaii and Maui and at Room 220, 1151 Punchbowl St., Honolulu, Oahu (Tel: 587-0414). All comments shall be submitted in writing to the State Land Surveyor, 1151 Punchbowl Street, Room 210, Honolulu, HI 96813 and postmarked no later than fifteen (15) calendar days from the date of the public notice of the application.

Case No.	Date Received	Location	Applicant	Tax Map Key
OA-704	12/11/98	Lot 22, Ld Ct App 1059, Kaalawai, Honolulu, Oahu (4310 Kaikoo Place)	Walter P. Thompson, Inc. for Larry Latham	3-1-41:24
OA-705	12/14/98	Lot 17, Ld Ct App 831, Kaneohe, Koolaupoko, Oahu (45-002 Holowai Street)	Laura Wolfe for Laura Wolfe	4-5-07:24
OA-235	12/23/98	Lot 1059, Ld Ct App 677 (Map 253), Kaneohe, Koolaupoko, Oahu (602 Kaimalino Place)	Hawaii Land Consultants for Mary Strue	4-4-39:21
MA-149	12/11/98	Por of RP 7473, LCAw 2431:3 to Kiha, Mooloa, Honuaula, Makawao, Maui (Makena Road, Makawao, Maui)	Warren S. Unemori Engineering, Inc. for Mark Hughes	2-1-06:12
MA-200	12/23/98	Lot 6, Hale Malia Subdiv., Por of RP 6384, LCAw 4240, Ap 3 to Kau, A laeloa, Lahaina, Maui (11 Hale Malia Place)	R. T. Tanaka Engineers, Inc. for Arthur McKelvey Trust, Etal	4-3-03:96
HA-202	12/11/98	Lot A, Whole of Grant S-13,670 & a Por of Grant 13,494 at Lalamilo, Waimea, S. Kohala, Hawaii (Puako Beach Drive, Kamuela, Hawaii)	Wes Thomas Associates for Nann Hylton	6-9-03:16 & Por 17
HA-203	12/23/98	Lot 48 of Ld Ct App 1319, Lanihau Iki, N. Kona, Hawaii (75-5572 Kuakini Highway)	Wes Thomas Associates for David and Susan Gordon	7-5-05:15
HA-164	12/23/98	Lot 20 of Puako Beach Lots, Lalamilo, Waimea, Hawaii (20 Puako Beach Drive)	Hawaii Land Consultants for Warren & Barbara Poole	6-9-06:20
MO-056	12/21/98	Part B, Por of RP 5458, LCAw 5191 to Kahiaina, Waialua, Molokai (Kamehameha V Road, Waialua, Molokai)	Robert Sing for Arthur K. Chu Trust	5-7-03:68

Environmental Justice Small Grants Competition

The U. S. Environmental Protection Agency (EPA) is seeking grant applications from *eligible community groups* (i.e., community-based/grassroots organizations, churches, or other non-profit organizations) and *tribal governments* that are working on or plan to carry out projects to address environmental justice issues. All awards will be in the form of a grant not to exceed one year. For more information, please contact Karen Henry of EPA Region 9 in San Francisco at (415) 744-1565. Applications must be postmarked by **MARCH 5, 1999**, and mailed or delivered to Karen Henry, U. S. Environmental Protection Agency, Region 9 (A-2-2), 75 Hawthorne Street, San Francisco, California 94105 (see, 63 F.R. 71637, December 29, 1998, for details).

Migratory Fish Stocks Conference in Honolulu

The National Marine Fisheries Service (NMFS) announced a meeting of its Pacific Fishery Management Council at the U.S. Tuna Foundation in San Diego, California for the purpose of preparing recommendations for the next session of the Multilateral High Level conference on the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean to be held **FEBRUARY 10-19, 1999**, in Honolulu, Hawai'i (see, 63 F.R. 71270, December 24, 1998).

Kaloko-Honokohau Advisory Committee Meeting

The National Park Service announced that the Kaloko-Honokohau National Historical Park Advisory Commission will meet on **JANUARY 16, 1999, FROM 10:00 A.M. TILL 3:00 P.M.** at the King Kamehameha Kona Beach Hotel, Islander Room in Kona. The meeting is open to the public. For more information, please call the Park Superintendent at (808) 329-6881 (see 63 F.R. 70793, December 22, 1998).

Marine Mammals Research Permit

The National Marine Fisheries Service (NMFS) announced that Dr. Marsha L. Green of the Department of Psychology, Albright College has applied for a permit to evaluate the behavior of whales in the presence of vessels. Written comments must be received by NMFS **ON OR BEFORE JANUARY 20, 1999** (see 63 F.R. 70395, December 21, 1998, for details).

Environmental Justice Grants Competition

The U.S. Environmental Protection Agency (EPA) is soliciting applications from the *states or tribal agencies* to demonstrate how to effectively address environmental justice issues and comply with Title VI of the 1964 Civil Rights Act (CRA). Applications must be postmarked no later than **FRIDAY, FEBRUARY 26, 1999** (see, 63 F.R. 66531, December 2, 1998, for details).

Municipal Solid Waste Landfill Plan

The U. S. Environmental Protection Agency (EPA) proposes a municipal solid waste (MSW) landfills Federal plan to implement emission guideline requirements for existing MSW landfills located in States where state plans are not in effect. As of July 24, 1998, Hawai'i has not submitted a State Plan or a negative declaration. Existing MSW landfills in Hawai'i will be subject to the promulgated Federal Plan unless a State plan applicable to existing landfills is approved by EPA and becomes effective. For more information, call Patricia Bowlin of EPA Region IX at (415) 744-1188. Comments on EPA's proposal must be received on or before **FEBRUARY 16, 1998** (see 63 F.R. 69364, December 16, 1998, for details).

Air Quality Index Reporting

The U. S. Environmental Protection Agency (EPA) proposes changes to the uniform air quality index used by States for daily air quality reporting to the general public. These proposed changes include the addition of the following elements: a new category described as "unhealthy for sensitive groups," new breakpoints for the ozone sub-index in terms of 8-hour average ozone concentrations, a new sub-index for fine particulate matter (PM_{2.5}), and conforming changes to the sub-indices for inhalable particulate matter (PM₁₀), carbon monoxide and sulfur dioxide. Written comments on this proposed rule must be received by **JANUARY 25, 1999** (see 63 F.R. 67818, December 9, 1998, for details).

Coastal Zone News

JANUARY 8, 1999

Federal Consistency Reviews

The Hawai'i Coastal Zone Management (CZM) Program has received the following federal actions to review for consistency with the CZM objectives and policies in Chapter 205A, Hawaii Revised Statutes. This public notice is being provided in accordance with section 306(d)(14) of the National Coastal Zone Management Act of 1972, as amended. For more information, please call John Nakagawa with the Hawai'i CZM Program at 587-2878. Federally mandated deadlines require that comments be received by the date specified for each CZM consistency review and can be mailed to:

Bradley J. Mossman, Director, Office of Planning, Department of Business, Economic Development and Tourism
P.O. Box 2359, Honolulu, Hawai'i 96804, or, fax comments to the Hawai'i CZM Program at 587-2899.

(1) Kaumoali Bridge Replacement, Hamakua, County of Hawai'i

Applicant: County of Hawai'i Department of Public Works
Contact: (808) 961-8327
Consultant: Wilson Okamoto & Associates, Inc.
Contact: Laura Mau, 946-2277
Federal Agency: U.S. Army Corps of Engineers
Contact: 438-9258
Federal Action: Department of the Army Permit
Location: Pa'auilo Mauka Road at Kaumoali Gulch, Hamakua, Hawai'i
TMK: (3rd) 4-3-14: 01

Proposed Action:

Replace an existing one-lane bridge with a new two-lane concrete bridge, 30 feet wide by 34 feet long, and add stream bank protection beneath the bridge.

Comments Due: January 22, 1999

(2) Kalopa/Ali'ipali Bridge Replacement, Hamakua, County of Hawai'i

Applicant: County of Hawai'i Department of Public Works
Contact: (808) 961-8327
Consultant: Wilson Okamoto & Associates, Inc.
Contact: Laura Mau, 946-2277
Federal Agency: U.S. Army Corps of Engineers
Contact: 438-9258
Federal Action: Department of the Army Permit
Location: Ali'ipali Road at Ali'ipali Gulch Hamakua, Hawai'i
TMK: (3rd) 4-3-15: 09

Proposed Action:

Replace an existing one-lane bridge with a new two-lane concrete bridge, 30 feet wide by 26 feet long, and add stream bank protection beneath the bridge.

Comments Due: January 22, 1999

(3) Oshiro Bridge Replacement, Puna, County of Hawai'i

Applicant: County of Hawai'i Department of Public Works
Contact: (808) 961-8327
Consultant: Wilson Okamoto & Associates, Inc.
Contact: Laura Mau, 946-2277
Federal Agency: U.S. Army Corps of Engineers
Contact: 438-9258
Federal Action: Department of the Army Permit
Location: Oshiro Road, Puna, Hawai'i
TMK: (3rd) 1-8-5: 30

Proposed Action:

Replace an existing one-lane bridge with a new two-lane concrete bridge, 34 feet wide by 39 feet long, and add stream bank protection beneath the bridge.

Comments Due: January 22, 1999

Marine and Coastal Zone Management Advisory Group

The Marine and Coastal Zone Management Advisory Group (MACZMAG) will hold its next regularly scheduled meeting on Monday, January 11, 1999 from 9:00 a.m. - 11:00 a.m. in the State Office Tower, Room 204.

MACZMAG meeting agendas and minutes are now available on the Hawai'i Coastal Zone Management Program web page at www.hawaii.gov/dbedt/czm.

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CONTENT GUIDELINES FOR BIOLOGICAL SURVEYS, ECOSYSTEM IMPACT ANALYSIS AND MITIGATION MEASURES

Introduction:

Hawaii State law calls for efforts to prevent or eliminate damage to the environment and biosphere and for the protection of endangered species and indigenous plants and animals. To meet this goal, special care must be taken to assess a proposed project's impact on biological resources.

The purpose of the state's environmental review law is to encourage full, accurate and complete analysis of proposed actions, promote public participation and support enlightened decision making by public officials. To assist agencies and applicants in meeting this legal purpose, the Office of Environmental Quality Control offers the following guidelines for preparers of environmental reviews under the authority of HRS 343.

These guidelines do not constitute rules or law. They have been refined by staff, student interns and peer review to assist planners in preparing an adequate biological survey.

Not every environmental review document under HRS 343 will need to include a biological survey. But when such a project could affect biological resources, surveyors and authors of EAs and EIS's are expected to use their professional judgment to decide which of these guidelines are appropriate to apply to their study area. Usually, an EA for a small project, for which a significant impact is not anticipated, will not need the same degree of detailed analysis that should be found in a full EIS. (10,11)

An Environmental Assessment or Impact Statement for a project that may affect biological resources should contain a biological survey that considers the items and issues described in these guidelines.

Part I. Biological Surveys: Methods and Content

1. Survey Method

Timing

Surveyors should take into account the activities of nocturnal, migratory and seasonal species and conduct surveys accordingly. (e.g. a survey of wetland flora should take place during the rainy season to observe otherwise dormant species.)

Route and Coverage

A thorough flora/fauna survey, should provide the following:

- * a map containing the survey routes
- * an adequate survey coverage of the site. The total coverage may vary depending on the size and configuration of the site. Generally, at least 50% coverage of the study area should be

attained. Smaller and extremely sensitive areas may merit a larger percentage of study coverage. Very large areas may require a scientific statistical analysis based on random sampling or aerial photographs. Whichever method is used, it should be fully explained and justified in the document. For a useful summary of survey methods, see C.J. Ralph and J. Michael Scott, eds. 1981. Estimating Numbers of Terrestrial Birds. Studies in Avian Biology, No. 6. Published by the Cooper Ornithological Society.

- * the areas covered must include a composite of all terrain present (i.e., ridge tops, wetland, slope, riparian habitat etc.)
- * accounting for native invertebrate populations may be accomplished by estimating the coverage of host flora.

Adjacent Streams

Stream conditions both up and down-stream from a survey site should be assessed. The Hawaiian Stream Bio-assessment Protocol (HSBP) developed by the Environmental Planning Office of the Department of Health may be utilized in studying habitat and biotic quality of streams.

The Hawaii Stream Assessment produced by the Commission on Water Resource Management (CWRM) should also be consulted to identify waterways that qualify as "heritage" streams. Investigators should also consider CWRM's Stream Protection and Management (SPAM) system administrative rules and consult with DLNR's Division of Aquatic Resources.

Literature Search

Literature and database sources should be searched for historical sightings of significant biological resources. Consult sources such as: the **Manual of the Flowering Plants of Hawaii**; the Bishop Museum; The Nature Conservancy's Hawaii Heritage Program Database listings; the U.S. Fish and Wildlife Service; the U.S. Geological Survey, Biological Resources Division; the State Department of Land and Natural Resources Division of Forestry and Wildlife and Natural Area Reserve Commission; the University of Hawaii botany, zoology and geography departments; the OEQC database of environmental review documents; and the Audubon Society.

On-island experts should be contacted for information on historical sightings of significant species which may not be present during the survey (e.g., migratory water birds, ephemeral plants).

2. Ecosystem and/or Habitat Characterization

Description

A description of the ecosystem should include the following:

- * an analysis of principal community types including both native and non-native organisms and the biological values of these community types
 - * note the presence and condition of plant and animal communities based on elevation, moisture, substratum, topography and physiography (examples include: coastal dry shrublands;

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montane wet forests; seasonal or perennial wetlands and streams; anchialine pools; aeolian lava flow systems; and subterranean cave ecosystems)

- * a description of any obligate species (those requiring specific niches)

- * a list any applicable global ranks (established by the Nature Conservancy), describe species density (frequency of sightings or rate of occurrences), and when possible, historical and current ranges of notable species

Native Intactness

Analyze habitat intactness based on species composition.

Assess the native bio-diversity of the project site based on alien-to-native species proportions and distributions and the presence of indicator species for a given ecosystem.

In some cases, indicator species may be considered to identify the quality of ecosystems. For example, the presence of 'o'opu, or native goby species, (*Lentipes concolor*; *Awaous stamineus*, *Sicyopterus stimpsoni*), as well as hihiwai (*Neritina granosa*) in streams can indicate unaltered stream conditions necessary for their survival.

Listed Species

Any rare, threatened and endangered species and their habitats should be listed and described. Indicate the presence and distribution of the following taxonomic groups:

- * species listed as either endangered or threatened by the state or federal government or both

- * species that are proposed or candidates to be listed as either endangered or threatened by the state or federal government or both

- * species of concern as determined by the U.S. Fish and Wildlife Service (those which appear or are suspected to be declining and may eventually fall under one of the categories listed above)

- * those species noted as rare or vulnerable by authorities on the specific taxa and not necessarily recognized by the State or Federal Endangered Species Act (such as insects)

In addition, note whether the habitat type is part of critical or essential habitat for the taxa listed above and restricted to the project area. If a Habitat Conservation Plan is proposed for a site that is subject to an HRS 343 environmental review, the HCP can be incorporated into the review document.

Resource Values

Note any historical and/or cultural importance related to the species or habitat. Also describe any economic, scientific, medicinal or recreational value related to the species or habitat. Non-governmental organizations, local community associations, oral histories, Hawaiian language texts, kupuna and recreational users can be consulted to obtain this information. The book, **Valued Ecosystem Components** by Gordon Orians, identifies various resource economic indices that may be of assistance in this analysis.

3. Shelf life of biological surveys

If the biological survey for a given site is older than 5 years it should be updated prior to a project on the site being built. A new "walk through" of the site should be performed at a minimum to determine if a new, complete survey should be required. Project proponents should also consult with area experts to determine if any changes have occurred since the area was last surveyed.

Part II. Ecosystem Impact Analysis

1. Consistency with existing land use policy

The EA should include a full discussion of how the proposed action corresponds to existing county and state land use requirements, goals and objectives related to conservation. The analysis should relate to the following:

- * State and county zoning
- * County General Plans
- * State Plan
- * State Environmental Policy (HRS 344)
- * Objectives and Policies of the Coastal Zone Management Act (HRS 205A)

2. Habitat fragmentation and encroachment assessment

Determine whether the proposed action reduces the principal community types which are located on the given site and are part of the larger ecological community outside the project area.

For example, if the project alters native forest that occupies 10% of the project area, but represents 50% of that forest type remaining in the district, then the impact analysis should cover both the reduction of vegetation in the immediate project area and in the district as a whole.

Identify and assess areas that are generally intolerant to change such as wetland habitat, dryland forests and coral reefs.

Analyze potential impacts resulting from catastrophic events (e.g. hurricanes, fires and landslides) in addition to the project impacts. Consider this cumulative impact on the survival of any species.

Noise impacts on the area should also be considered.

3. Alien species importation

Indicate whether and how the proposed action increases the potential for alien species dispersal that may affect native species. For example, if temporary access roads/corridors are to be built through pristine forest for construction in a disturbed area, discuss how the construction of access roads could increase alien plant dispersal. Encroachment of exotic grasses that increase the area's fire hazard can also be a concern.

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4. Cultural impact analysis

Discuss potential impacts to the cultural use of biological resources. The analysis should relate to native gathering and other traditional subsistence practices (e.g., fishing, aquaculture) as well as current cultural activities (e.g., commercial, scientific, recreational, educational).

5. Impacts on Streams and Coastal Waters

A project's impact on streams, rivers and coastal waters should be assessed. A project that alters streams could impact upon the following:

- * wetlands, estuaries and fisheries
- * native species, food sources, water quality, temperature and nutrient load
- * reduction in flow leading to increased predation or competition from alien species
- * siltation or contamination of habitat from run-off
- * ground water resources or agricultural uses

Part III. Proposed mitigation measures

1. Vegetation alteration

If the proposed action reduces and/or alters existing vegetation, mitigation measures may include the following:

- * incremental clearing of project site to reduce erosion and siltation
- * concurrent application of geotextiles or other proven techniques in erosion-prone areas
- * revegetation with native species

2. Alien species introduction and establishment

If the project is shown to increase the potential for alien species importation, or the establishment or promotion of weed species, then mitigation measures should be included in the review document. Mitigation could include the cleaning of gear, equipment and clothing before, during and after the project is completed.

Machinery or equipment that may harbor alien seeds should be steam cleaned prior to its introduction to a sensitive site.

3. Ecosystem-wide and species-specific management of significant biological resources

If the project potentially impacts significant biological resources, mitigation of impacts should go beyond mere avoidance of the resources. The EA should consider direct management and/or protection of sensitive species and their supporting ecosystems, to include the following:

- * ecosystem protection planning: designation of heavy impact activities to areas within the project that can sustain them (e.g., previously degraded areas)
- * habitat enhancement: selective weeding, native species outplanting
- * subsequent monitoring: engage foresters and/or biologists to monitor effects of actions over time and direct additional management actions as needed

4. Project design

To reduce or mitigate a project's impacts, it may be appropriate to integrate the following components into its design:

- * buffer zones to protect fragile areas
- * walkways or boardwalks to protect sensitive areas
- * native landscaping appropriate to the area
- * detention and retention basins to control run-off
- * vegetated rather than channelized stream banks
- * alien vegetation control techniques

5. Alternative analysis

To direct harmful development away from sensitive native ecosystems, the project proponent should consider employing conservation techniques such as land exchanges, conservation easements, and management agreements with non-profit organizations. The Trust for Public Land and the Nature Conservancy, among other organizations, may provide technical assistance with developing these options.

Tentative Environmental Council Meetings

The Environmental Council is tentatively scheduled to meet on Wednesday, January 13, 1999 at 3:30 p.m.

The Council's Exemption Committee, Rules Committee and Communication, Education & Legislation Committee are tentatively scheduled to meet the same day prior to the full Council meeting. Please call on or after January 7, 1999 for confirmation on whether meetings will be held, the time and place.

Any person desiring to attend the meetings and requiring an accommodation (taped materials or sign language interpreter) may request assistance provided such a request is made five (5) working days prior to the scheduled meetings. This request may be made by writing to Ms. Barbara Robeson, Chair, Environmental Council c/o OEQC, 235 S. Beretania Street, Suite 702, Honolulu, Hawaii 96813 or by fax at (808) 586-4186.