

# The Environmental Notice

A SEMI-MONTHLY BULLETIN (UNDER SECTION 343-3, HRS) OF THE OFFICE OF ENVIRONMENTAL QUALITY CONTROL

APRIL 8, 2005

## Kapolei Amusement Park Expands to Amend the County General Plan through a Zoning Variance

An applicant (Hawaiian Waters Adventure Park) operates an amusement park under a permit (CUP No. 93/CUP1-35) as an "outdoor recreation facility" on agriculture land (Ag-2). The applicant has updated its master plan to introduce attractions that would reclassify the park as an "outdoor amusement facility," necessitating a change in zoning district from general agriculture (Ag-1) to an urban designation known as "community business" (B-2). OEQC notes that the applicant's request is consistent with Section 343-5(a)(6), Hawai'i Revised Statutes which requires an environmental assessment for an amendment to the

existing county general plan that would result in designations other than agriculture, conservation, or preservation. Section 11-200-6(b)(2)(A), Hawai'i Administrative Rules, further clarifies that such amendments to the county general plan "however denominated," as development plans, or community plans, are subject to the requirement for an environmental assessment. OEQC therefore believes that the applicant's request is a proposed amendment to the county general plan, denominated as a change in zoning. See page 4 for more.

## Nawiliwili Harbor

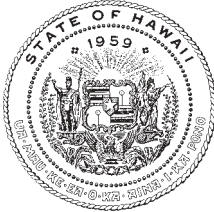
The Department of Transportation has reviewed public comments on its proposed improvements to Pier 3 in Nawiliwili Harbor on the island of Kauai and issued a finding of no significant impact based on its final environmental assessment for the same. See page 8 for more.

## New Kihei Road

Towne Development of Hawai'i, Inc. proposes to develop an extension to the existing North-South Collector Road (a.k.a. Liloa Drive) in the vicinity of Walua Place to Keonekai Road in Kihei.

The project site is located in an area of single-family residential and multi-family residential/transient accommodation uses. The northern terminus of the proposed roadway is located near the North-South Collector Road's intersection with Ke Ali'i Alanui. The southern terminus of the roadway intersects with Keonekai Road. The roadway rights-of-way and/or road widening lots are in place for most of the project corridor. As may be required, the County of Maui will initiate condemnation proceedings to secure the needed roadway right-of-way.

The subject property falls within the limits of the Special Management Area (SMA) for the island of Maui. See page 12..



LINDA LINGLE

GOVERNOR

OFFICE OF  
ENVIRONMENTAL QUALITY CONTROL (OEQC),  
DEPARTMENT OF HEALTH  
GENEVIEVE SALMONSON  
DIRECTOR, OEQC

*The Environmental Notice -  
review the environmental impacts of  
projects proposed in Hawai'i!*

Other Resources available . . .

- *June 2004 Guidebook for Hawai'i's Environmental Process (now, Online!)*
- *Environmental Assessments in Adobe Acrobat PDF Format (1990-2003) and Study Resource Library*
- *Environmental Council Annual Reports (now, Online!)*
- *"How to Plant a Native Hawaiian Garden" (now online!)*

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# Definitions

## Your guide to the Environmental Review Process

### Draft Environmental Assessment

A project or action that may affect the environment cannot be implemented until an Environmental Assessment (EA) is prepared in accordance with Chapter 343, Hawai'i Revised Statutes (HRS). If the lead State or county agency (the *proposing agency* for agency actions, or the *approving agency* for applicant actions) anticipates that the project will have no significant environmental impact, then affected agencies, individuals, and organizations must be consulted and a Draft EA (DEA) is written and public notice is published in this periodic bulletin (see, section 343-3, HRS) known as the *Environmental Notice*. The public has 30 days to comment on the Draft EA from the date of the first notice.

### Final Environmental Assessment and Finding of No Significant Impact

After the lead agency reviews the public comments, if it determines that the project will have no significant effect on the environment, then it will prepare a Final EA (FEA) and issue a Finding of No Significant Impact (FONSI) formerly called a *Negative Declaration*. The Final EA must respond to all public comments. An Environmental Impact Statement will not be required and the project may now be implemented. The public has 30 days from the first notice of a FONSI in this periodic bulletin to ask a court to require the preparation of an EIS.

### Final Environmental Assessment and Environmental Impact Statement Preparation Notice

When a lead agency decides that a project may have a significant environmental impact, an Environmental Impact Statement (EIS) must be prepared prior to implementing the project. Like the DEA (see *above*), affected agencies, individuals and organizations must be consulted prior to preparation of the final EA (FEA) and issuance of a determination called an EIS preparation notice (EISPN). (The EA is called *final*, to distinguish it from the draft, above). After the FEA is written by the lead agency, and notice of the FEA and EISPN is published in the this periodic bulletin, any agency, group, or individual has 30 days from the first publication of the EISPN to request to become a consulted party and to make written comments regarding the environmental effects of the proposed action. The public (including an applicant) has 60 days from the first notice of an EISPN in this periodic bulletin to ask a court to not require the preparation of an EIS.

### Draft Environmental Impact Statement

After receiving the comments on the FEA and EISPN (see *above*), the lead agency or private applicant must prepare a Draft Environ-

mental Impact Statement (DEIS) prior to project implementation. This document must completely disclose the likely impacts of a project. Direct, indirect and cumulative impacts must be discussed along with measures proposed to mitigate them. The public has 45 days from the first publication date in this periodic bulletin to comment on a DEIS. The DEIS must respond to comments received during the FEA-EISPN comment period in a *point-by-point* manner.

### Final Environmental Impact Statement

After considering all public comments filed during the DEIS stage, the agency or applicant must prepare a Final EIS (FEIS). The FEIS must respond in a *point-by-point* manner to all comments from the draft stage. Requisite deeper analyses must be included in the FEIS. For applicant projects, the approving agency is authorized to accept the FEIS. For agency project the Governor or the county mayor is the accepting authority. Only after the EIS is accepted may the project be implemented.

### Acceptability

If the FEIS is accepted, the law requires that notice of this be published in this periodic bulletin. The public has 60 days from the date of first notice of acceptance to ask a court to vacate the acceptance of an EIS. In the case of applicant actions, the law requires that an approving agency must make a determination on acceptance within thirty-days of receipt of the FEIS or the FEIS is deemed accepted. Also, for applicant actions, the law provides for an administrative appeal of a non-acceptance to the Environmental Council.

### National Environmental Policy Act

The National Environmental Policy Act (NEPA) requires federal projects to prepare an EA or EIS. In many ways it is similar to Hawai'i's law. Some projects require both a state (or county) and federal EIS and the public comment procedure should be coordinated. Although not required by law, the OEQC publishes NEPA notices in this periodic bulletin to help keep the public informed of important federal actions.

### Special Management Area

The Special Management Area (SMA) is along the coastlines of all our islands and development in this area is generally regulated by Chapter 205A, HRS and county ordinance. A special subset of the SMA that is regulated by Chapter 343, HRS is the Shoreline Setback Area. Most development in this area requires a Special Management Permit (SMP). This periodic bulletin posts notice of these SMP applications to encourage public input.

### Shoreline Certifications

State law requires that Hawai'i shorelines be surveyed and certified when necessary to clearly establish the shoreline setback (an area contained between the certified shoreline and a prescribe distance inland (usually 40 feet) from the certified shoreline). The public may participate in the process to help assure accurate regulatory boundaries. Private land owners often petition to have their shoreline certified by the State surveyor prior to construction. This periodic bulletin publishes notice from the Department of Land and Natural Resources of both shoreline certification applicants and of final certifications or rejections.

### Environmental Council

The Environmental Council is a fifteen-member citizen board appointed by the Governor to advise the State on environmental concerns. The council makes the rules that govern the Environmental Impact Statement process. The agendas of their regular meetings are published on the Internet at <http://www.ehawaii.gov/calendar> and the public is invited to attend.

### Exemption Lists

Government agencies must keep a list describing the minor activities they regularly perform that are declared exempt from the environmental review process. These lists are reviewed and approved by the Environmental Council. This periodic bulletin will publish an agency's draft exemption list for public comment prior to Council decision making, as well as notice of the Council's decision on the list.

### Conservation District

Any use of land in the State Conservation District requires a Conservation District Use Application (CDUA). These applications are reviewed and approved by the Board of Land and Natural Resources (BLNR). Members of the public may intervene in the permit process. Notice of these permit applications is published in this periodic bulletin.

### Endangered Species

This periodic bulletin is required by Section 343-3(c), HRS, to publish notice of public comment periods or public hearings for habitat conservation plans (HCP), safe harbor agreements (SHA), or incidental take licenses (ITL) under the federal Endangered Species Act, as well as availability for public inspection of a proposed HCP or SHA, or a proposed ITL (as a part of an HCP or SHA).

# O'ahu Notices

APRIL 8, 2005

## Hawaiian Waters Adventure Park Master Plan Update (HRS 343 DEA)

**District:** 'Ewa  
**TMK:** 9-1-016:009  
**Applicant:** Hawaiian Waters Adventure Park  
400 Farrington Hwy, Kapolei, HI 96707  
Contact: Jerry Pupillo (674-9283)  
**Approving Agency:** Dept. of Planning & Permitting  
650 S King St., 7th Flr, Honolulu, HI 96813  
Contact: Tim Hata (527-6070)  
**Consultant:** Environmental Planning Solutions, LLC  
945 Makaiwa St., Honolulu, HI 96816  
Contact: Colette Sakoda (732-8602)  
**Public Comment**  
**Deadline:** May 7, 2005  
**Status:** Draft environmental assessment (DEA)  
notice pending 30-day public comment.  
Address comments to the applicant with  
copies to the approving agency, consultant  
and OEQC.  
**Permits**  
**Required:** Change in Zone, SLUD, CUP Major

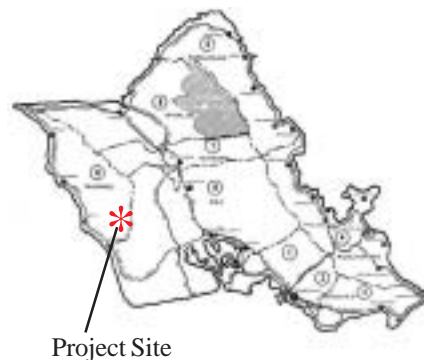
Since it opened for business in 1999, Hawaiian Waters Adventure Park (HWAP) has been operating under an approved Conditional Use Permit (CUP No.93/CUP1-35) as an outdoor recreational facility on land in the General Agriculture (Ag-2) zoning district as defined by the City and County of Honolulu Land Use Ordinance (LUO). HWAP has updated its Master Plan and plans to introduce attractions that would redefine the water park as an

outdoor amusement facility in the long term. Thus, HWAP is requesting a change in zoning district from General Agriculture (Ag-2) to Community Business (B-2).

HWAP will need to obtain zone change approval for the proposed action as an outdoor amusement facility. Also, an 800 square foot portion within the water park's existing parking lot is in the State Land Use Commission (SLUC) Agricultural district. Accordingly, this small portion of land will require a State Land Use District Boundary Amendment from Agricultural to Urban to be consistent with the Urban-designated portion of the 30-acre site. An SLUC Boundary Amendment request pursuant Rules of Honolulu (ROH) Chapter 26, DPP Procedures for the Amendment of State Land Use Boundaries, is being prepared as part of this land use change application process. Also, a Conditional Use Permit Major is required to evaluate the project's community-based impacts generally associated with amusement facilities.

The property has historically been used for sugarcane cultivation and mining, and sugarcane cultivation in the area ceased in the mid 1990s. A majority of the project site is currently developed as the water park. The proposed improvements to the existing water park will require minimal site preparation involving vegetation clearing, excavation, filling, grading, general construction, and planting and landscaping. The property has been modified overtime, and no adverse impacts are anticipated.

No known endangered/threatened flora or fauna exist on site. Most additions will be occurring within the already developed portion. The proposed improvements in the undeveloped 5-acre area will incorporate tropical landscaping with indigenous plant materials to blend in with the developed areas of the water park.



## The Contemporary Museum Expansion (HRS 343 DEA)

**District:** Honolulu  
**TMK:** 2-5-8: 1, 2, and 4  
**Applicant:** The Contemporary Museum  
 2411 Makiki Heights Dr., Honolulu, HI 96822  
 Contact Georgianna Lagoria (526-1322 x 14)

**Approving Agency:** City & County of Honolulu, Dept. of Planning and Permitting  
 650 S King St., Honolulu, HI 96813  
 Contact: Sharon Nishiura (523-4256)

**Consultant:** Kusao & Kurahashi, Inc.  
 2752 Woodlawn Dr., Ste. 5-202, Honolulu, HI 96822  
 Contact: Keith Kurahashi (988-2231)

### Public Comment

**Deadline:** May 7, 2005  
**Status:** Draft environmental assessment (DEA) notice pending 30-day public comment. Address comments to the applicant with copies to the approving agency, consultant and OEQC.

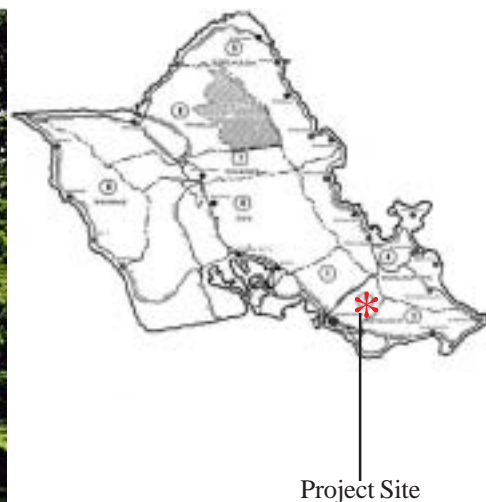
### Permits

**Required:** Conditional Use Permit, Major & Minor

The applicant, The Contemporary Museum, proposes to apply for a Conditional Use Permit (CUP) to utilize three properties, which are listed on the Hawai'i Register of Historic Places, for a museum and other related activities, including offices, café

and gift shop. The applicant first established the museum use on Parcel 1 in 1988. The applicant now proposes to expand the existing facilities and operation by constructing new buildings on Parcel 1 and reusing the historic Pietsch/Peterson residence on an adjoining property (Parcel 4) to the south and the historic Johnson Residence/Persis Office (Parcel 2) located two lots away to the east.

The new buildings will be constructed over the existing tennis court, at the western portion of the site, to accommodate gallery areas, storage for the museum's permanent collection and staff parking. The applicant also proposes renovations and additions to the existing museum facilities, including a new gift shop office and tent canopy structure to be used as a staging area for the unpacking and packing of storage crates. Two existing storage sheds will be replaced with new sheds and several minor buildings (security residence, storage building and maintenance office building) will be demolished. Various museum functions/activities that occupy the existing facilities will be relocated to the two additional properties. The Pietsch/Peterson Residence will be adapted to accommodate the café, Foyer Gallery, docent and staff offices, library and a residence for visiting artists. The Johnson Residence was approved as offices for the Persis Corporation and an accessory caretaker's residence under a previous Conditional Use Permit for use of a historic structure. The applicant proposes to continue the office use for museum staff and the residence for staff/visiting artists. The applicant also proposes modifications to the existing museum operation, including the following: hours; maximum occupancy; use of amplification equipment; number and size of special events; and the size of buses to transport visitors.



# O'ahu Notices

APRIL 8, 2005

## Kalihi Valley Reconstructed Sewer (HRS 343 FEA-FONSI)

**District:** Honolulu  
**TMK:** 1-3-29, 1-3-33, 1-3-37 to 1-3-38, 1-4-01 to 06, 1-4-08 to 14, 1-4-17, 1-4-19 to 21, 1-4-23 to 25  
**Proposing Agency:** Dept. of Design & Construction  
650 S King St., Honolulu, HI 96813  
Contact: Richard Leong (527-5863)  
**Determination Agency:** Same as above.  
**Consultant:** ParEn, Inc., dba Park Engineering  
711 Kapiolani Blvd., Ste. 1500, Honolulu, HI 96813  
Contact: Keith Uemura (593-1676)  
**Status:** Final environmental assessment (FEA) and Finding of No Significant Impact (FONSI).  
**Permits Required:** Noise permit and variance, NPDES for hydrotesting, Sidwalk & Driveway Permit, Excavation Permit, Street Usage Permit, Fire Hydrant Permit, Permit to Discharge Effluent into the Municipal Storm Sewer System, Industrial Wastewater Discharge Permit (IWDP)

The Kalihi Valley wastewater collection system has experienced substantial deterioration with age as evidenced by CCTV inspections revealing cracks, misaligned joints, root intrusion,

grease, debris and infiltration. Many of these lines are in private property making them difficult to access and maintain. In addition, inadequate hydraulic capacity to contain future peak flows could result in increased incidents of sanitary sewer overflows.

Cured-In-Place-Pipe (CIPP) rehabilitation of sewer lines is proposed to correct these problems. Point repairs prior to CIPP and rehabilitation of manholes may be required. Flow diversions are also being proposed to redistribute flows, using existing Jennie Street sewer lines and new sewer segments that discharge into the Gulick Avenue Sewer. The diversions will reduce flows sufficiently so that no upsizing of inadequate downstream lines are required. In other cases where existing sewer lines are inadequate to convey projected future flows, relief lines installed by a trench less method (mini-micro tunneling, horizontal directional drilling) are proposed. These methods will minimize or eliminate disturbances to the stream and negative impacts to residents. A relief line is proposed to correct an existing problem at the end of the Gulick Avenue Sewer.

Potential construction impacts are noise, odor, dust, traffic and utility service disruption. The Contractor shall be required to follow Best Management Practices to alleviate dust, noise, odor impacts and minimize utility service disruption. Traffic Control Plans shall show off-duty police officers to control traffic. The Contractor will be required to provide advance notice to residents, schools, *The Bus* and the Department of Transportation Services whenever construction affecting traffic flow is anticipated.



## South Punalu'u Bridge Replacement (HRS 343 FEA-FONSI)

**District:** Ko'olauloa  
**TMK:** 5-3-4:01 (por.), 5-3-3:01 (por.) & 5-3-2-39 (por.)  
**Proposing Agency:** State of Hawai'i, Dept. of Transportation, Highways Division  
 688 Kamokila Blve, Rm. 688, Kapolei, HI 96707  
 Contact: Vincent Llorin (692-7568)

**Determination Agency:** Same as above.  
**Consultant:** M & E Pacific, Inc., Davies Pacific Center, 841 Bishop St., Ste. 1900, Honolulu, HI 96813  
 Contact: Alan Tomita (521-3051)  
**Status:** Final environmental assessment (FEA) and Finding of No Significant Impact (FONSI).

**Permits Required:** DA 404; DBEDT-OP-CZM; DOH WQ401, NOI Form C, F. G; DLNR-SCAP, DPP-"No-Rise" Cert. DPP-SMA & SSV, FWS-7, NHPA-106

The State of Hawai'i, Department of Transportation (DOT), Highways Division (HWY) is proposing to demolish the existing South Punalu'u Bridge, located on the northeastern coast of the

island of O'ahu, and replace it with a new bridge 54 feet wide and 160 feet long, consisting of two vehicular travel lanes for 2 way traffic, paved shoulders and a shielded walk/bikeway compliant with the latest Americans with Disabilities Act guidelines. The proposed replacement bridge will be a three-spanned concrete structure supported by two center piers and abutments at both ends. The necessity of the proposed replacement arises from the existing bridge's old age and a lack of compliance with current design regulations. The purpose of this project is to provide a safe facility for all motorists and pedestrians using Kamehameha Highway in Punalu'u. The proposed project will also involve the construction of a temporary single-spanned prefabricated steel truss diversion bridge with diversion roadway constructed *makai* of the existing bridge, and new replacement bridge approach roadways. Nearby projects have identified human burial sites; thus, an archaeological monitoring plan has been developed and approved by the State Historic Preservation Division (SHPD) for this project. No other archaeological or historic properties have been identified in the vicinity of the project. No threatened or endangered species are anticipated to be affected by the project, and a determination of this conclusion has been received from the Fish and Wildlife Service. Project impacts are primarily related to short-term construction noise and fugitive dust, which will be mitigated through compliance with the appropriate State and County regulations. Construction work is projected to begin in late 2005 and last approximately 18 months.



# Kaua'i Notices

APRIL 8, 2005

## Segmented Pier 3 Improvements at Nawiliwili Harbor (HRS 343 FEA-FONSI)

**District:** Lihue  
**TMK:** 3-2-03 & 3-2-04  
**Proposing Agency:** Dept. of Transportation, Harbors Div.  
79 S. Nimitz Hwy., Honolulu, HI 96813  
Contact: Marshall H. Ando (587-1961)

### Determination

**Agency:** Same as above.  
**Consultant:** Nishimura, Katayama & Oki, Inc.  
826 Kaheka St., Ste. 302, Honolulu, HI 96814  
Contact George Nishimura (947-2808)  
**Status:** Final environmental assessment (FEA) and Finding of No Significant Impact (FONSI).

### Permits

**Required:** Army Permit, WQC, NPDES, CDU

The main purpose of this project is to provide docking for large cruise ships at Nawiliwili Harbor. The original plan was to accommodate two (AHCL) American Hawai'i Cruise Lines' 840 feel long ships. This plan was to extend Pier 2 so these two ships could be docked in the harbor at the same time. During this time,

AHCL suddenly ceased operations. The (NCL) Norwegian Cruise Lines then began regular cruise service to Nawiliwili Harbor. The ships used by the NCL are 975 feet long. To fit two 965 feet long ships along Pier 2 would be unfeasible.

The next plan studied was to accommodate a second 965 feet long ship at Pier 3. Studies show that this was not possible but 856 feet long cruise ship could dock at the Pier 3 with improvements. **The final plan is to build a pier segment to service as a breasting dolphin and designed to be integrated as part of Pier 3 in the future.** Dredging will also be included in the project.

Pier 1 is primarily for inter-island cargo by Matson Navigation Company. As their cargo arrives every Saturday, Pier 1 can be used by a large cruise ship in conjunction with Pier 2 at other times. Pier 3 is primarily for inter-island cargo by Young Brothers Limited. Their cargo arrives every Tuesday and Friday. When two cruise ships are scheduled to arrive at Nawiliwili Harbor the same day, Pier 3 will be used to dock the shorter length ship when Pier 3 is not being used by Young Brothers Limited.

Minor ancillary improvements include improved lighting, new comfort station, revetment wall and walkway. The cost of the project is estimated to be slightly over \$5 million. Project completion date is expected to be one year after award of contract.



Project Site



**McCully (40 Kamehameha Avenue)  
Conservation Lands Reclassification  
(HRS 343 DEA)**

**District:** South Hilo  
**TMK:** (3) 2-9-3:13, 29 and 60  
**Applicant:** James and Francine McCully  
 40 Kamehameha Ave., Hilo, HI 96720-4252  
 Contact: James McCully (933-7000)

**Approving Agency:** State of Hawai'i, Land Use Commission  
 P.O. Box 2359, Honolulu, HI 96804-2359  
 Contact: Anthony Ching (587-3822)

**Consultant:** Brian T. Nishimura, Planning Consultant  
 101 Aupuni St., Ste. 217, Hilo, HI 96720  
 Contact: Brian Nishimura (935-7692)

**Public Comment**  
**Deadline:** May 7, 2005  
**Status:** Draft environmental assessment (DEA) notice pending 30-day public comment. Address comments to the applicant with copies to the approving agency, consultant and OEQC.

**Permits Required:** Approval of Boundary Amendment, Approval of Individual Wastewater System, Approval of Consolidation and Resubdivision and Building Permit.

James William McCully and Francine Morales McCully are the owners of approximately 4.6 acres of land situated within the State Land Use Conservation District at Wailea, South Hilo,

Hawai'i, Tax Map Key No.s: (3) 2-9-3: 13, 29 and 60. The subject property consists of three existing lots of record and a contiguous segment of a former railroad right-of-way running along the mauka (western) boundary of all three parcels. The owners plan to consolidate and resubdivide the three existing lots with the former railroad right-of-way and will seek to amend the district boundary classification from the Conservation district to the Agricultural district. Upon completion, the proposed consolidation and re-subdivision will result in the following changes: parcel 13 will consist of 1.11 acres, an increase of .092 acre; parcel 29 will consist of 1.12 acres, a decrease of 1.709 acres; and, parcel 60 will consist of 2.37 acres, an increase of 1.607 acres.

The subject property is situated along the Hamakua Coast of the Island of Hawai'i, approximately 14.7 miles north of the City of Hilo. Access to the property is provided by a 30' wide road and utility easement which runs a distance of approximately 360 feet east from the Hawai'i Belt Road. The property is bounded on the makai (east) side by the edge of the high pali (ranging between 100 to 140 feet above sea level) which is characteristic of the Hamakua coastline. The pali and the land to the high water mark belong to the State of Hawai'i. The center of Puahanui Stream serves as the northern boundary and TMK: (3) 2-9-03: 1 is situated to the south. The property is bounded on the west by four parcels, TMK: (3) 2-9-03: 48, 49, 50 and 51.

The subject property is currently vacant and was previously utilized for sugar cane cultivation. The property has remained fallow since July, 1992 and is currently maintained as a grassed lawn with scattered sections of landscape plantings. The former railroad right-of-way and the area previously utilized for sugar production are gently sloping towards the eastern end of the property and are well suited for uses allowed within the agricultural district. The high shorefront pali and the steep gulch sloping down to Puahanui



# Hawai'i Notices

APRIL 8, 2005

## Pi'ihonua Reservoir No. 2 Replacement (HRS 343 FEA-FONSI)

**District:** South Hilo  
**TMK:** (3) 2-3-30:05  
**Proposing Agency:** Hawai'i County, Dept. of Water Supply  
345 Kekuanaoa St., Ste. 20, Hilo, HI 96720  
Contact: Kurt Inaba (961-8070 x 251)

**Determination Agency:** Same as above.  
**Consultant:** Geometrician Associates  
HC 2, Box 9575, Keaau, HI 96749  
Contact: Ron Terry (982-5831)

**Status:** Final environmental assessment (FEA) and Finding of No Significant Impact (FONSI).

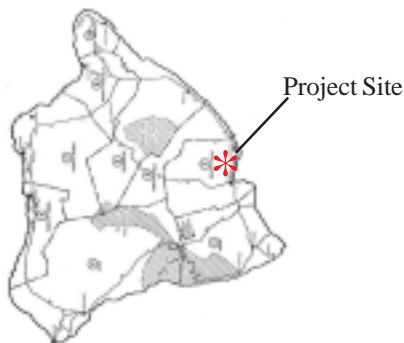
**Permits Required:** Building Division Approval; Building Permit; Planning Dept. Approval; Grading Permit; Construct within Right-of-Ways; Conservation District Use Permit; National Pollutant Discharge Elimination System (NPDES).

The Hawai'i county Department of Water Supply plans to replace the existing 0.8 million-gallon capacity (0.8Mb) Pi'ihonua No. 2 Reservoir with a 2.0 Mg reservoir on the same general site, on Waiianuenue Avenue, mauka of Hilo Medical Center. The improvements are necessary because the existing reservoir has reached the end of its service life, is undersized and has required expensive maintenance. The new reservoir will be over twice as large as the existing tank, and thus better able to meet future demands in its water service area. The facility would promote public health and safety by improving water storage capacity for the Hilo area, and would thereby enhance the quality of service.

Other new or relocated improvements include a new booster pump station with two booster pumps; a new control building to house the motor control center and other equipment; a driveway, perimeter fencing and landscaping; and water mains to connect the reservoir to the existing water distribution sys-

tem. The existing facility, including the reservoir, booster pump station, and equipment, will be demolished once the new facility is constructed, tested, and in operating order. The land under the existing facility will then be landscaped to match the new facility.

A traffic control plan will minimize congestion and maintain access to adjacent properties during construction. The contractor shall perform all earthworks and grading in conformance with Chapter 10, Erosion and Sediment Control, Hawai'i County Code and the provisions of the NPDES permit. Best Management Practices will be specified to contain sediment and storm water runoff during construction and to enforce good house-keeping with respect to equipment, materials and supplies. Implementation of the landscaping plan will ensure the visual compatibility of the facility with its residential surroundings. Archeological and cultural survey have determined that no significant historic sites or cultural resources are present; if archaeological resources are encountered during land-altering activities associated with construction, work in the immediate area of the discovery will be halted and the State Historic Preservation Division will be contacted.



## Wai'ohinu Production Well and Reservoir (HRS 343 FEA-FONSI)

**District:** Kau  
**TMK:** None assigned  
**Proposing Agency:** County of Hawai'i, Dept. of Water Supply  
 345 Kekuanao'a St., Ste. 20, Hilo, HI 96720  
 Contact: Milton Pavao (961-8050)

**Determination Agency:** Same as above.  
**Consultant:** Planning Solutions  
 210 Ward Avenue, Honolulu, HI 96814  
 Contact: Perry White (550-4483)

**Status:** Final environmental assessment (FEA) and Finding of No Significant Impact (FONSI).

**Permits Required:** Building, NPDES Construction, County Plan Approval, Pump Installation/Well Construction, Well Certification.

The County of Hawai'i Department of Water Supply (DWS) is proposing to drill, test, and, if testing is successful, complete a new municipal water supply well and associated reservoir. The proposed site is approximately one half mile *mauka* from the community of Wai'ohinu and adjacent to an existing 50,000-gal-

lon tank. A single-story, 575 square-foot control building will be built to house the chlorination system and other equipment needed to start and stop the well pump. Water would be stored in a new 0.50 million-gallon reinforced concrete storage tank. The new well is intended to supplement and eventually replace two spring sources (Ha'ao and Old Mountain House Tunnel Springs) that are currently the primary potable water sources serving DWS' Wai'ohinu-Na'alehu-South Point water system. These two spring sources are expected to be reclassified as groundwater under the direct influence of surface water (GWUDI) sometime in the future. This would require additional treatment of the water, which can be prohibitively expensive and labor intensive, particularly for small systems such as this one. In conjunction with the well development, DWS plans to install a Supervisory Control and Data Acquisition (SCADA) network that would enable it to monitor the new well and other system facilities.

The Wai'ohinu Production Well and Reservoir EA was prepared under the dual legal authority of NEPA and HRS Chapter 343, in anticipation of the use of state lands and federal funding through the State of Hawai'i's Drinking Water State Revolving Fund (DWSRF) program. DWS has concluded that construction and operation of the well and reservoir would not have substantial adverse impacts on the environment. It proposes to mitigate short-term construction impacts on nearby residents by requiring the selected contractor to incorporate mitigation measures in its work program. Consequently, it is issuing a Finding of No Significant Impact (FONSI) for the project.



# Maui Notices

APRIL 8, 2005

## North-South Collector Road Extension (HRS 343 DEA)

**District:** Kihei  
**TMK:** 3-9-004:5 & 145; 3-9-019:4; 3-9-020:4, 7, 12, 16, 20 & 27  
**Applicant:** Towne Development of Hawai'i, Inc.  
220 S King St., Ste. 2170, Honolulu, HI 96813  
Contact: Takeshi Matsukata (537-5976)  
**Approving Agency:** Maui Planning Commission, County of Maui,  
Dept. of Planning  
250 South High St., Wailuku, HI 96793  
Contact: Kivette Caigoy (270-7735)  
**Consultant:** Munekiyo & Hiraga, Inc.  
305 High St., Ste. 104, Wailuku, HI 96793  
Contact: Karlynn Kawahara (244-2015)  
**Public Comment**  
**Deadline:** May 7, 2005  
**Status:** Draft environmental assessment (DEA)  
notice pending 30-day public comment.  
Address comments to the applicant with  
copies to the approving agency, consultant  
and OEQC.  
**Permits**  
**Required:** NPDES, SMA, & Grading.

Towne Development of Hawai'i, Inc. (TDH), proposes to develop an extension to the existing North-South Collector Road (a.k.a. Liloa Drive) in the vicinity of Walua Place to Keonekai Road in Kihei. The project site is identified by portions of TMK Nos. 3-9-04:05 and 145, 3-9-19:04, 3-9-20:04, 07, 12, 16, 20 and 27 and covers approximately 1, 200 lineal feet. In addition to the foregoing parcels, the project will affect existing rights-of-way

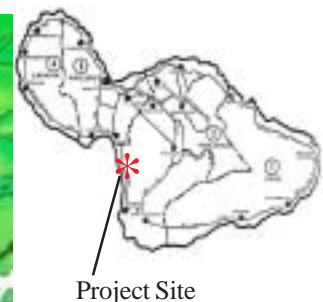
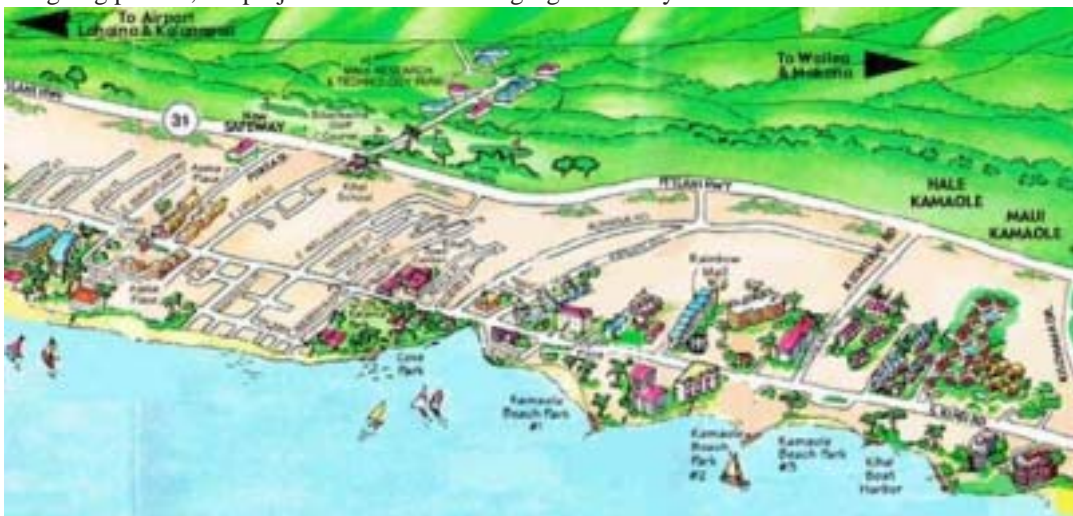
owned by the County of Maui, fronting the Kama'ole Heights Subdivision and Regency Apartments.

The project site is located in an area of single-family residential and multi-family residential/transient accommodation uses. The northern terminus of the proposed roadway is located near the North-South Collector Road's intersection with Ke Ali'i Alanui. The southern terminus of the roadway intersects with Keonekai Road. The roadway rights-of-way and/or road widening lots are in place for most of the project corridor. As may be required, the County of Maui will initiate condemnation proceedings to secure the needed roadway right-of-way.

TDH plans to develop the portion of the North-South Collector Road from Walua Place to Keonekai Road with two (2) typical sections. Typical Section A includes a 60-foot right-of-way with two (2) 11-foot wide travel lanes, 6-foot shoulders, a 5-foot sidewalk on the west (makai) side of the roadway, as well as concrete curbing and gutter.

Typical Section B includes a 60-foot right-of-way, with two (2) 11-foot wide travel lanes and 8-foot grassed swales on the east and west sides of the roadway. A majority of the road corridor is vacant land, however there is an existing paved portion near the southern boundary of the Ke Ali'i Kai II subdivision, which was dedicated to the county and improved in connection with the Kihei Regency Project.

The subject property falls within the limits of the Special Management Area (SMA) for the island of Maui. Accordingly, an application for a SMA Use Permit has been prepared and submitted to the Department of Planning for review and action by the Maui Planning Commission. Additionally, the county of Maui, an environmental assessment has been prepared in accordance with Chapter 343, Hawai'i Revised Statutes.

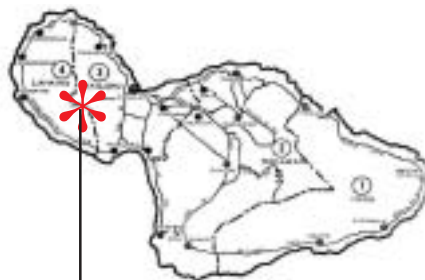


**Pu‘u Kukui Watershed Preserve FY 2006-2011 Management Plan Natural Area Partnership Program (HRS 343 FEA-FONSI)**

**District:** Lahaina  
**TMK:** 4-1-1-17; 4-2-1-1 (por.); 4-1-4-23 (por.); 4-1-5-10; 4-1-5-13; 4-1-5-16; 4-1-5-17; 4-3-1-1- (por.); 4-3-1-17 (por.)  
**Applicant:** Maui Pineapple Company, Ltd.  
 P.O. Box 187, Kahului, HI 96732-0187  
 Contact: Randy Barlett (669-1687)  
**Approving Agency:** Dept. of Land & Natural Resources, Div. of Forestry & Wildlife  
 1151 Punchbowl St., Rm. 325, Honolulu, HI 96813  
 Contact: Christen Mitchell (587-0051)  
**Consultant:** Maui Pineapple Company, Ltd.  
 P.O. Box 187, Kahului, HI 96732-0187  
 Contact: Randy Barlett (669-1687)  
**Status:** Final environmental assessment (FEA) and Finding of No Significant Impact (FONSI).  
**Permits Required:** BLNR approval

The Division of Forestry and Wildlife is proposing to re-authorize the Pu‘u Kukui Watershed Preserve as a participant in the Natural Area Partnership Program (NAPP). At 8,661 acres, it is one of the largest privately-owned nature preserves in the state. The area is a vital watershed for West Maui and contains important native forest habitat for many unique plants and animals, including some of the finest high elevation rain forests and montane bogs in the State. Pu‘u Kukui is also an area of significant biological diversity, with new species of plants and invertebrates still being discovered. The Preserve borders two sections of West Maui Natural Area Reserve (Kahakuloa and Honokowai), with another NAPP preserve, Kapunakea, and another section of West Maui NAR (Panaewa) located adjacent to these areas, altogether protecting over 20,000 acres of the best forested lands on West Maui.

Active management programs are needed to prevent damage to the native forest and watershed from threats, including non-native pigs, weeds and fire. For the past twelve years, the Preserve has been a participant in the Natural Area Partnership Program, a State program that provides 2:1 matching funds for natural area protection efforts on private lands of Natural Area Reserve quality. The proposed management for the next six years remains substantially similar as that of the previous twelve years and includes construction of strategic fencing, invasive weed control, feral animal control, rare species protection, and monitoring and research. Anticipated positive impacts of the proposed project include protection of rare native species, tracking of biological and physical processes in the preserve, decreased erosion, and improved water quality within and below the preserve.



Project Site



# Shoreline Notices

APRIL 8, 2005

## Shoreline Certifications and Rejections

Pursuant to §§13-222-26, HAR the following shorelines have been proposed for certification or rejection by the DLNR. Any person or agency wishing to appeal a proposed shoreline certification or rejection shall file a notice of appeal in writing with the department no later than 20 calendar days from the date of the public notice of the proposed shoreline certification or rejection. The Notice of appeal shall be sent to the Board of Land and Natural Resources, 1151 Punchbowl Street, Room 220, Honolulu, Hawai'i 96813.

File No.	Action	Location	Applicant/Owner	TMK
OA-895-3	Proposed Shoreline Certification	Lots 157 to 162 (inclusive map 26), Lot 297 (Map 45), Lot 11729 (map 846), lot 13490(Map 1039) of Land Court Application 1069, land situated at Honouliuli, 'Ewa, O'ahu, Hawai'i Address: Papi Road Purpose: Improvements	Towill, Shigeoka & Associates, Inc./ Haseko Homes	9-1-11:1 - 5
MA-300-2	Proposed Shoreline Certification	Lot B of the Lahaina Jodo Mission Subdivision and Lot 28 of the Halepaka Place Consolidation No. 1, land situated at Pu'unoa and Ali'o, Lahaina, Island of Maui, Hawai'i Address: 1189 Halepaka Place Purpose: Determine Setback	Austin, Tsutsumi & Associates, Inc./Lahaina Enterprise, LLC	4-5-04: 04 and 48
HA-294	Proposed Shoreline Certification	Lot 12 and 16, Portion of Grant 826, land situated at Honuapo, Kau, Island of Hawai'i, Hawai'i Address: Not Assigned Purpose: Determine Setback	R. M. Towill Corporation/ LANDCO, General Partners	9-5-14: 55 and 59
HA-295	Proposed Shoreline Certification	Lot 8 of Land Court Application 1793 (Map 3), land situated at Puapuaa 2 <sup>nd</sup> , North Kona, Island of Hawai'i, Hawai'i Address: 75-6138 Ali'i Drive Purpose: Building Permit	Wes Thomas Associates/Thomas	7-5-35: 05
OA-1006	Proposed Shoreline Certification	Lot 103, Land Court Application 1095, land situated at Kahuku, Ko'olauloa, Island of O'ahu, Hawai'i Address: 57-323 Pahipahialua Place Purpose: Building Permit	DJNS surveying and Mapping, Inc./Kerry and Sally Paulson	5-7-03: 56
OA-1013	Proposed Shoreline Certification	Land Commission Award 7713, Apana 50, land situated at Wai'alae-Nui, Honolulu, Island of O'ahu, Hawai'i Address: 4807 Kainapau Place Purpose: New House Construction	DJNS Survey & Mapping, Inc./Kainapau Beachfront, LLC	3-5-59: 06
HA-281	Proposed Shoreline Certification	Hilo Bay front Beach Park Under Governor Executive Order No. 3141 to the County of Hawai'i, land situated at Pi'opi'o and Wai 'akea, South Hilo, Island of Hawai'i, Hawai'i Address: Bayfront Beach Park Purpose: Determine County Jurisdiction	County of Hawai'i Department of Parks and Recreation/State of Hawai'i	2-2-01: 27 & 2-2-02: 35



## 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 Kaua'i, Hawai'i and Maui and at Room 220, 1151 Punchbowl St., Honolulu, O'ahu (Tel: 587-0414). All comments shall be submitted in writing to the State Land Surveyor, 1151 Punchbowl Street, Room 210, Honolulu, Hawai'i 96813 and postmarked no later than fifteen (15) calendar days from the date of the public notice of the application. If there are any questions, please call Nick Vaccaro at (808) 587-0384.

File No.	Date	Location	Applicant/Owner	TMK
OA-1022	3/28/05	Lot 9 of Pupukea-Paumalu Beach Lots, land situated at Ko'olauloa, Island of O'ahu, Hawai'i Address: 59-595 Ke Ike Road Purpose: Building Permit	Jaime Alimboyoguen/Ke Iki Investment Group	5-9-03: 23
KA-188	3/28/05	Lot 5, 6 and 8 of Land Court Application 1166, land situated at North Olohena, Hawaii, Island of Kaua'i, Hawai'i Address: None Assigned Purpose: Building Permit	Esaki Surveying and Mapping, Inc./Coconut Beach Development, LLC	4-3-02: 15, 16 and 20
OA-1023	3/28/05	Lot 749 Land Court Application 578, land situated at Kuliouou 1 <sup>st</sup> , Honolulu, Island of O'ahu, Hawai'i Address: 101 Paiko Drive Purpose: Building Permit	Sam O. Hirota/Garrett F. Saikley Trust	3-8-01: 69
MO-088	3/28/05	Lot 2 of the Subdivision of Grant 2611, land situated at Puko'o, Island of Moloka'i, Hawai'i Address: Kamehameha V Highway Purpose: Building Permit	Newcomer-Lee Land Surveyors, Inc./Eddie J. Vedder	5-7-07: 66
MA-321	3/28/05	Lot 2, portion of lot 35-B of the Hui Aina O Mailepai, land situated at Kahana, Lahaina, Island of Maui, Hawai'i	Valley Isle Surveyors, Inc. /Jan Ovsey Sarkin	4-3-15: 08
HA-259-3	3/28/05	Lots 5-B-1 and 6-A of North Kahalu'u Beach Subdivision, land situated at Kahalu'u, North Kona, Island and County of Hawaii Address: Lot 5-B is 78-6616 Alii Drive Lot 6-A Not Assigned (Vacant) Purpose: Building Permit	Wes Thomas Associates/Dr. Elizabeth Marshall	7-8-14: 50 & 97
OA-1024	3/28/05	Lot 11, section A of Kawailoa Beach Lots, land situated at Kawailoa, Wai'alua, Island of O'ahu, Hawai'i Address: 61-649 Kamehameha Hwy Purpose: Building Permit	Kin Surveying/Betty Jane Johns	6-1-10: 04
KA-034-3	3/28/05	Lot 6, Wainiha Subdivision II, being a portion of File Plan 1840, land situated at Wainiha, Hanalei, Island of Kaua'i, Hawai'i Address: 7326 Alealea Road Purpose: Building Permit	Esaki Surveying and Mapping, Inc./Joseph Brescia	5-8-09: 45
KA-189	3/28/05	Land Court Application 889, land situated at Waipouli, Island of Kaua'i, Hawai'i Address: Vacant Purpose: Building Permit	Esaki Surveying and Mapping, Inc./Coconut Plantation Holdings, LLC	4-3-07: 27
OA-1025	3/29/05	Lot 641 of Land Court Application 578, land situated at Kuli'ou'ou, Honolulu, Island of O'ahu, Hawai'i Address: 6015-A Kalaniana'ole Hwy Purpose: New Construction	ESH/Frank and Sharon Kudo	3-8-02: 31

# Coastal Zone News

APRIL 8, 2005

## 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, Hawai'i 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 general information about CZM federal consistency please call John Nakagawa with the Hawai'i CZM Program at 587-2878. For neighboring islands use the following toll free numbers: Lana'i & Moloka'i: 468-4644 x72878, Kaua'i: 274-3141 x72878, Maui: 984-2400 x72878 or Hawai'i: 974-4000 x72878. For specific information or questions about an action listed below please contact the CZM staff person identified for each action. Federally mandated deadlines require that comments be received by the date specified for each CZM consistency review and can be mailed to: 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) Federal Funds for Design and Construction for Maintenance Dredging and Revetment Repair at Waika'ea Boat Ramp, Kapa'a, Kaua'i

**Applicant:** State of Hawaii Department of Land & Natural Resources  
 Contact: Eddie Chiu, 587-3256  
**Federal Action:** Federal Financial Assistance  
**Federal Agency:** U.S. Fish & Wildlife Service  
**Location:** Waika'ea Boat Ramp, Kapa'a, Kaua'i  
**CZM Contact:** John Nakagawa, 587-2878  
**Proposed Action:**

Receive federal funds for the design and construction for maintenance dredging and revetment repair at Waika'ea Boat Ramp, Kapa'a, Kaua'i. The boat ramp basin and entrance channel have filled substantially with sand, crating a safety hazard for boaters. Portions of the existing revetment in the basin also needs repair.

**Comments Due:** April 22, 2005

### (2) Nawiliwili Harbor Segmented Pier 3 Improvements, Kaua'i

**Applicant:** State Department of Transportation, Harbors Division  
**Agent:** W.Y. Thompson, P.E.  
**Federal Action:** Department of the Army Permit  
**Federal Agency:** U.S. Army Corps of Engineers  
**Location:** Nawiliwili Harbor, Kaua'i  
**TMK:** (4) 3-2-3 & 3-2-4  
**CZM Contact:** John Nakagawa, 587-2878  
**Proposed Action:**

Construct a segmented pier (a stand alone pier) to provide lengthened berth at Nawiliwili Harbor Pier 3 to accommodate larger cruise ships. Dredging will be required to provide safe navigation for cruise ships. In addition, a discontinued boat ramp and docking facility will be removed and a revetment wall installed to prevent the harbor wall from erosion.

**Comments Due:** April 22, 2005

(see also final EA description on Page 8.)

## Special Management Area (SMA) Minor Permits

Pursuant to Hawai'i Revised Statute (HRS) 205A-30, the following is a list of SMA Minor permits that have been approved or are pending by the respective county/state agency. For more information about any of the listed permits, please contact the appropriate county/state Planning Department. City & County of Honolulu (523-4131); Hawai'i County (961-8288); Kaua'i County (241-6677); Maui County (270-7735); Kaka'ako Special Design District (587-2878).

Location (TMK)	Description (File No.)	Applicant/Agent
Kaua'i: Koloa (2-6-7-18)	Rock wall (SMA (M) 2005-16)	Peter Dease
Honolulu : Kapolei (9-1-14-10)	Installation of a 60-foot light pole for improved security (2005/SMA-20)	Chevron Products Co./Robert J. Rippel
Maui: Kihei (3-8-5-25)	Biodiesel tank installation (20050033)	Ratte, Marc S.
Maui: Pa'ia (2-6-6-30)	25 ft Buddhist shrine/stupa (20050034)	Karma Rimay O Salling Church
Maui: Lahaina (4-3-6-4)	Construct fence, landscape (20050035)	AOAO Maui Lani Terraces
Maui: Makena (2-1-7-7)	Wall fence and gazebo (20050036)	Perkins, Tammy & Makua, Janey
Maui: (1-4-6-36)	Install 2 power poles & utility lines (20050037)	Aiona, Mamaui
Maui: Haiku (2-8-6-22)	Wall (20050038)	Harrisson, John
Maui: Wailuku (3-2-19-2)	Addition (20050039)	Sanchez, Clifford



# Pollution Control Permit Applications

APRIL 8, 2005

## Department of Health Permits

The following three pages contain a list of some pollution control permits currently before the State Department of Health. For more information about any of the listed permits, please contact the appropriate branch or office of the Environmental Management Division at 919 Ala Moana Boulevard, Honolulu. Abbreviations are as follows: **CAB** - Clean Air Branch; **CD** - comments due; **CSP** - Covered Source Permit; **CWB** - Clean Water Branch; **I** - issued; **SHWB** - Solid and Hazardous Waste Branch; **SDWB** - Safe Drinking Water Branch; **N** - none; **NPDES** - National Pollutant Discharge Elimination System under the Federal Clean Water Act; **R** - received; **T** - temporary; **UIC** - Underground Injection Control; **NA** - not applicable.

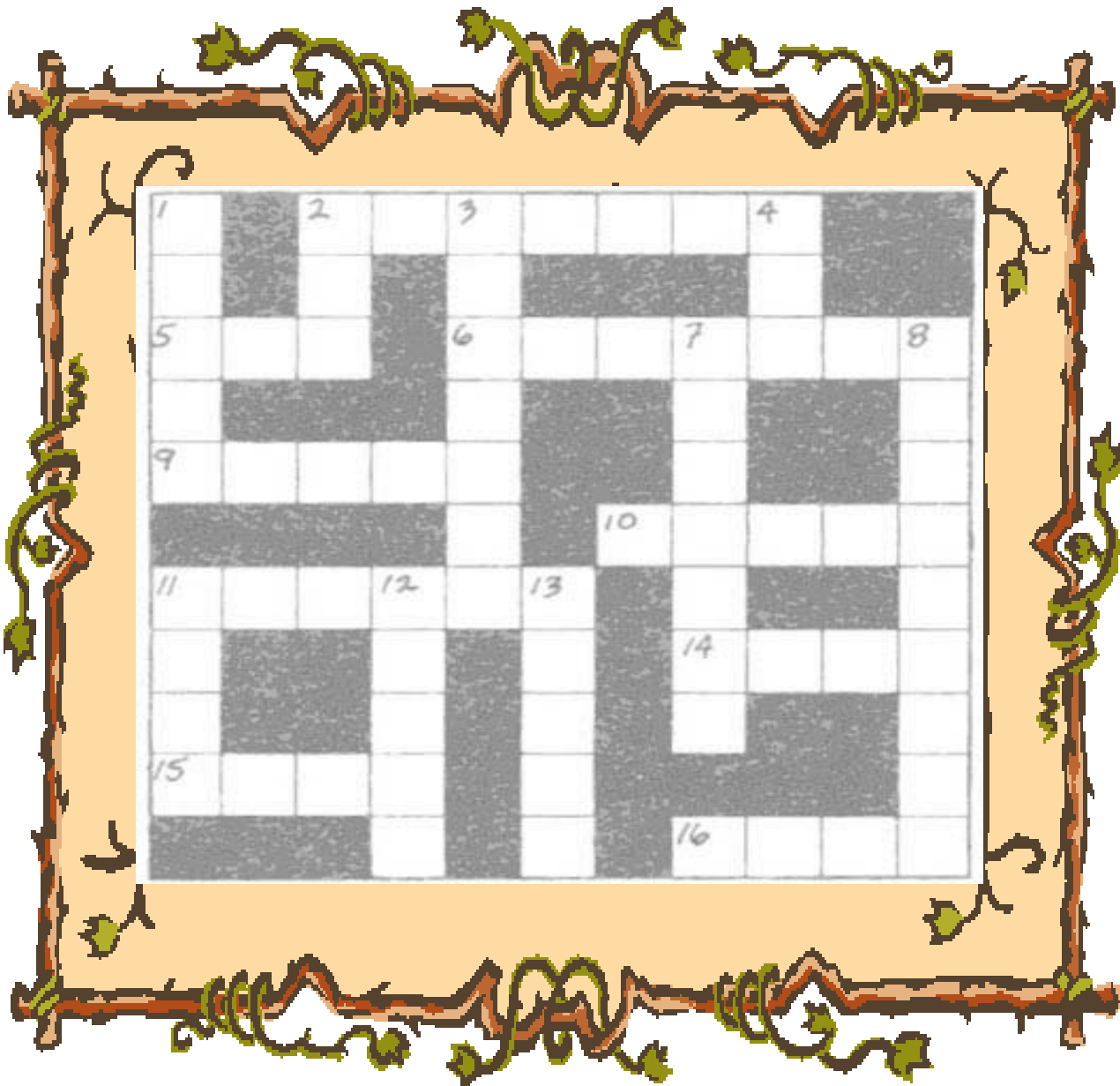
Branch Permit Type	Applicant & Permit Number	Project Location	Pertinent Date	Proposed Use
CAB, 586-4200, TCSP	Henry's Equipment Rental and Sales, Inc. CSP 0576-01-CT	Various Temporary Sites, State of Hawai'i Initial Location: Lepeka Street, Nanakuli, O'ahu	Issued: 3/11/05	One (1) 275 TPH Crushing Plant with One (1) 300 HP Diesel Engine and One (1) 500 TPH Screening Plant
CAB, 586-4200, CSP	City and County of Honolulu CSP 0489-01-C	Waimanalo Gulch Municipal Solid Waste Landfill, 92-460 Farrington Highway, O'ahu	Issued: 3/11/05	Gas Collection and Control System
CAB, 586-4200, NSP	University of Hawai'i Scientific Drilling Project NSP 0418-02-N (Renewal)	District of Wai'akea, Hilo, Hawai'i	Issued: 3/16/05	430 BHP Diesel Engine (RIG-1), 500 BHP Diesel Engine (RIG-2), 410 BHP Diesel Engine (PMP-1), 470 BHP Diesel Engine Generator (GEN-1), 450 BHP Diesel Engine (CORE-1), and Back-up 470 BHP Diesel Engine Generator
CAB, 586-4200, TNSP	Koga Engineering and Construction, Inc. NSP 0470-01-NT (Renewal)	Various Temporary Sites, State of Hawai'i Initial Location: 1162 Mikole Street, Honolulu, O'ahu	Issued: 3/17/05	144 TPH Portable Crushing Plant
CAB, 586-4200, CSP	Hawai'i Electric Light Company, Inc. CSP 0236-01-C (Renewal)	Hilo, Hawai'i	Comments Due: 4/27/05	Two (2) Boilers
CAB, 586-4200, CSP	Hyatt Regency CSP 0432-01-C (Renewal)	200 Nohea Kai Drive, Lahaina, Maui	Comments Due: 4/27/05	Two (2) Boilers
CAB, 586-4200, CSP	Tileco, Inc. CSP 0244-01-C (Significant Modification and Renewal)	91-209 Hanua Street, Campbell Industrial Park, Kapolei, O'ahu	Issued: 3/18/05	384 TPH Stone Processing Plant and Hollow Concrete Block Plant
CAB, 586-4200, NSP	Glover Honsador, LLC NSP 0207-01-N (Renewal)	Halfway Bridge Quarry, Lihue, Kaua'i	Issued: 3/23/05	200 cy/hr Concrete Batch Plant
CWB, 586-4309 NPDES	Kahakai Elementary School 05-CW-PW-05	Kahakai Elementary School, Hawaii	Issued: 03/22/05	Improving existing playing field at school.



# Environmental Tip

APRIL 8, 2005

## What Do You Know About The Environment



Across

2. We dispose of this in landfill sites
5. Atmospheric Environment Service (abbreviation)
6. Recyclable garbage used as natural fertilizer
9. Another name for poison
10. Antonym for dirty
11. "Every \_\_\_\_\_ bit hurts"
14. Water molecules take a journey or \_\_\_\_\_ down Eco River
15. Wilderness land set aside by government
16. It takes in carbon dioxide

Down

1. A tree is a \_\_\_\_\_
2. Methane is a natural \_\_\_\_\_
3. If we reuse something we \_\_\_\_\_ it
4. The name of a river
7. To contaminate the environment
8. Humans breathe out, plants \_\_\_\_\_
11. A jump by a deer
12. Leaky septic \_\_\_\_\_ can pollute the groundwater
13. One method of travel for our water molecules