

Membership

We would like to invite you to join our Ohana and become a member of the Friends of He'eia. Your contributions and membership fees will not only help us to continue our efforts in caring for Kaneohe Bay, but your help also assists us to operate our educational and cultural programs for the community.

Through our community education in marine biology, ethnobotany, Hawaiian culture, and historic preservation we are developing a unique resource and learning center.

As a FRIEND you will receive discounts on hall rentals and purchases in the gift shop. You will also receive a quarterly newsletter, invitations to seminars, member's activities, and much more!

We hope you will support our efforts and become a FRIEND!

Name: _____

Address: _____

City: _____

State, Zip: _____

Phone: _____

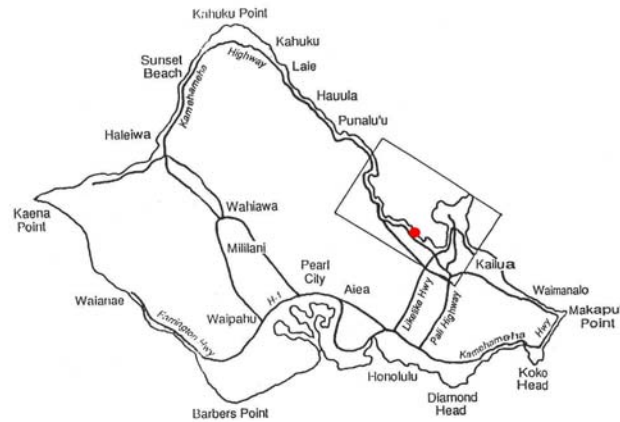
Email: _____

Annual Membership Fees:

- \$500 Corporate
- \$50 Family
- \$25 Individual
- \$5 Student
- I would like to donate:

Please send your check or money order to:
FHSP "Membership"
PO Box 698
Kaneohe, HI 96744

HOW TO FIND US



VOLUNTEER NOW!

**WE HAVE MANY EXCITING
VOLUNTEER OPPORTUNITIES**



THE FRIENDS OF HE'EIA

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THE FRIENDS OF HE'EIA STATE PARK



Nonpoint Source Pollution Initiative



*This Project has been jointly funded by
the U.S. Environmental Protection
Agency under Section 319(h) of the
Clean Water Act, and the Hawaii State
Department of Health Clean Water
Branch.*

Water Quality Monitoring

The Friends of He'eia are monitoring water quality at five points along He'eia Stream and three points on the fringing reef. The purpose is to detect pollutants in the water system. The type of pollution we are studying is called nonpoint source (NPS) because it is unclear where it comes from.

The Friends are working with Hawaii Pacific University and Windward College in order to accomplish this. Students collect water samples twice a month and take them back to the labs to identify the clarity and composition of the water. Physical and chemical parameters are being examined, such as: pH, salinity, temperature, nutrient levels, dissolved oxygen and turbidity.

Other monitoring projects collect water samples and send them to professional labs. Our project is unique in that students learn valuable skills by performing these tasks as part of their course work.

Dr. Andrew Brittain and Dr. Leticia Colmenares collaborate to produce the synaptic and chemical components of water samples.

Student interns earn credits and a stipend for their monthly sampling. Soils, sediments, and coral reef populations are also being analyzed as another measure of the health of the stream and fringing reef.



Water Quality Curriculum

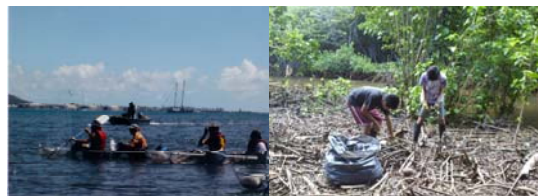
A new curriculum has been developed by the Friends of He'eia for students in grades 7-12. The objective is for students to go through the process of scientific inquiry by gathering data, making observations, taking measurements and thereafter drawing their own conclusions about the health of the stream. These hands on activities enable students to better conceptualize the ideas of conservation and preservation.

With the help of college interns, the Friends' facilitate a four-hour field trip where students sample water and test for temperature, salinity, pH, and turbidity. They also learn to operate a handheld Global Positioning System (GPS) device to locate precise sampling areas.

Students are guided through an exploration of the stream mouth, shoreline, and fringing reef. Students create sketches of the area and visually assess the health of the environment.

Later, students paddle clear kayaks around the reef and take more measurements in the bay. They record their findings on waterproof paper and return to the park classroom to discuss their experience and critically analyze the data.

Pre-trip materials are sent to the teachers prior to the visit. Included in these materials are a glossary of terms, basic information on scientific methods, water safety, and the meaning of the parameters measured.



Community Education

Ke Alohi Point (He'eia State Park) is our living outdoor classroom where subjects come to life. It is here where we teach and learn about the delicate Hawaiian ecosystem. It is a dynamic place where the land meets the sea.

Opportunities are many at Ke Alohi Point. Lectures, fairs, festivals, recycling programs, community workdays, gardening, and guided tours are all ways where the community and park visitor can participate and learn about the natural environment.

Invasive alien species, marine debris, and polluted runoff are all contributing to the degradation of the environment. The Friends of He'eia help people to understand some of the causes of these problems, why they are problems, and what they can do to protect and heal the environment.

When people begin to understand the far-reaching effects of pollution and invasive species, it has greater meaning. If they see how pollution is a personal health risk, it becomes a greater priority.

Our programs are designed for people to learn and have fun. Volunteers laugh and enjoy each other's company while pulling mangrove propagules from the stream. School children are delighted with the Hawaiian garden and talk to the plants while they weed. Family days feature informational booths, games, canoe rides, performers, and crafting. During our Holo Holo tours, senior citizens come from all over Oahu for guided nature walks around the Ke Alohi Point.

