

House District(s) 24, 8

Senate District(s) 11, 5

THE TWENTY-NINTH LEGISLATURE
APPLICATION FOR GRANTS
CHAPTER 42F, HAWAII REVISED STATUTES

Log No:

For Legislature's Use Only

Type of Grant Request:

GRANT REQUEST – OPERATING

GRANT REQUEST – CAPITAL

"Grant" means an award of state funds by the legislature, by an appropriation to a specified recipient, to support the activities of the recipient and permit the community to benefit from those activities.

"Recipient" means any organization or person receiving a grant.

STATE DEPARTMENT OR AGENCY RELATED TO THIS REQUEST (LEAVE BLANK IF UNKNOWN): DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE PROGRAM I.D. NO. (LEAVE BLANK IF UNKNOWN): _____

1. APPLICANT INFORMATION:

Legal Name of Requesting Organization or Individual:
Hawai'i Nature Center, Inc.

Dbas: Hawai'i Nature Center, Inc.

Street Address: 2131 Makiki Heights Dr., Honolulu, HI 96822

Mailing Address: 2131 Makiki Heights Dr., Honolulu, HI 96822

2. CONTACT PERSON FOR MATTERS INVOLVING THIS APPLICATION:

Name JEEYUN LEE

Title Executive Director

Phone # 808-955-0100 x125

Fax # 808-955-0116

E-mail jeeyun@hawaiinaturecenter.org

3. TYPE OF BUSINESS ENTITY:

- NON PROFIT CORPORATION INCORPORATED IN HAWAII
- FOR PROFIT CORPORATION INCORPORATED IN HAWAII
- LIMITED LIABILITY COMPANY
- SOLE PROPRIETORSHIP/INDIVIDUAL
- OTHER

6. DESCRIPTIVE TITLE OF APPLICANT'S REQUEST:

THE FUTURE OF SUSTAINABLE ENVIRONMENTAL EDUCATION: CAPITAL IMPROVEMENT PLANNING FOR HAWAII'S NATURE CENTER PROGRAM ON MAUI AND O'AHU

4. FEDERAL TAX ID #: [REDACTED]

5. STATE TAX ID #: [REDACTED]

7. AMOUNT OF STATE FUNDS REQUESTED:

FISCAL YEAR 2019: \$ 850,000

8. STATUS OF SERVICE DESCRIBED IN THIS REQUEST:

- NEW SERVICE (PRESENTLY DOES NOT EXIST)
- EXISTING SERVICE (PRESENTLY IN OPERATION)

SPECIFY THE AMOUNT BY SOURCES OF FUNDS AVAILABLE AT THE TIME OF THIS REQUEST:

STATE \$ _____

FEDERAL \$ _____

COUNTY \$ _____

PRIVATE/OTHER \$ 37,000

TYPE NAME & TITLE OF AUTHORIZED REPRESENTATIVE:

[REDACTED]

JEEYUN LEE, EXECUTIVE DIRECTOR
NAME & TITLE

Jan 19, 2018
DATE SIGNED

JAN 19 2018 [Signature] 3:05pm

Application for Grants

The Future of Sustainable Environmental Education: Capital Improvement Planning for Hawai'i Nature Center Programs on Maui and O'ahu

Please check the box when item/section has been completed. If any item is not applicable to the request, the applicant should enter "not applicable".

I. Background and Summary

This section shall clearly and concisely summarize and highlight the contents of the request in such a way as to provide the State Legislature with a broad understanding of the request. Please include the following:

1. A brief description of the applicant's background;

Established in 1981, the Hawai'i Nature Center (HNC) is a 501(c)(3) non-profit organization that has been a leader in environmental education in Hawai'i for more than thirty-five years. More than one million children and adults have participated in our programs since our inception. Our mission is to foster awareness, appreciation and understanding of Hawai'i's environment and to encourage wise stewardship of the Hawaiian Islands by educating children with an interactive and immersive approach.

The Hawai'i Nature Center offers award-winning school programs to more than 17,000 children on Maui and O'ahu each year, helping to encourage environmental stewardship through hands-on investigative field study and experiences. HNC also provides weekend family programs, community programs, overnight camp programs, birthday parties in nature, and intersession environmental day camps, all with fun, educational, age-appropriate content. Educational programs are primarily conducted outdoors, exposing children to ecosystems in watershed, forest, marsh and coastal environments.

These featured programs are conducted on Maui and O'ahu, including:

- Makiki Valley Watershed (O'ahu)
- Pu'u 'Ualaka'a State Park (O'ahu)
- USFWS Honouliuli National Wildlife Refuge (O'ahu)
- Waimānalo Beach Park (O'ahu)
- Kawainui Marsh (O'ahu)

- 'Īao Valley (Maui)
- USFWS Keālia Pond National Wildlife Refuge (Maui)
- Maui Nui Botanical Gardens (Maui)

The Hawai'i Nature Center has strong community partnerships on both islands and stands as Hawai'i's leading environmental education organization. These supporters include several

private foundations, organizations and government agencies, and the strong demand from schools and teachers for our science-based programs that encompass highly-valued, cutting edge curricula that are place-based and aligned with current Next Generation Science Standards. These partnerships and achievements are facilitated by dedicated, passionate and highly-qualified educational and administrative staff, and an active group of more than 600 volunteers across both islands who contributed more than 4,000 hours of service in 2017. Our goal with this request is to create the sustainable facilities necessary at both of our sites with this Grant-In-Aid to continue, and expand our work inspiring all of Hawai'i with a deeper appreciation for our planet. This Capital Improvement Project request will support the many lessons learned at the Hawai'i Nature Center that will last far beyond the initial experience with us. Many of our previous students become leaders in environmental causes.

2. The goals and objectives related to the request;

The Grant-In-Aid request for “The Future of Sustainable Environmental Education: Capital Improvement Planning for Hawai'i Nature Center Programs on Maui and O'ahu,” would support crucial needs to address the deferred maintenance on both Maui and O'ahu campuses. We received guidance from structural engineers on both of our sites to establish an existing baseline of the building conditions and how to proceed. We discussed the condition of the buildings and infrastructure with them and experts on our Board of Directors and the following plan was developed.

On Maui, our request will fund critical upgrades to the individual wastewater system (IWS) that our campus utilizes for water treatment and disposal, a much-needed renovation of the rotten rafters, fascia, gutters, re-roofing and landscaping on our primary programmatic building, (See Appendix A) and the moving of our existing Net Energy Metering solar panel system. This Net Energy Metering system allows us to receive a credit with Maui Electric Company for the solar energy we create and save on our electric bill from our old decommissioned building onto our primary programmatic building once the initial critical renovations are completed.

On O'ahu, funding would support the demolition of an old Ranger Cottage that has served as HNC administrative offices and Department of Forestry and Wildlife (DOFAW) staff have had a small apartment for use (See Appendix A) and the decommissioning of our above-ground “Green Machine” constructed wetland that has already far outlasted its life expectancy. This would tie into the DOFAW master plan, in which the state has already invested millions of dollars for planning and construction, some of which is already underway. It would also support the infrastructural needs of DLNR, making room for site planning, permitting, and design for a new administrative building that supports additional programmatic space. This programmatic space would include a new, cutting edge in-ground constructed wetland (See Appendix B) and septic system upgrades on site that would service both HNC and DOFAW's campuses with educational components such as water quality testing stations built in as an additional teaching tool. We will utilize the technology, training and equipment that was already purchased with our previous 2015 GIA to help facilitate a smooth transition to a newer, system that will allow our wastewater system to be more sustainable long-term, incorporate into the existing DOFAW plans, and provide additional space for the DOFAW base yard's expansion.

Maui Goals

- Complete initial critical renovations of our primary programmatic building to create a functional and effective classroom/gathering space, ensuring this community asset is preserved and we are being good stewards of the land and property.
- Complete initial critical upgrades to the Maui campus's individual wastewater system (IWS) to support proper water treatment through a potable water system and disposal through a waste water system for campus utilizers.
- Existing NET metering solar panel system is functional on the primary programmatic building.

Maui Objectives

- Design and renovate the rotten rafters, fascia, gutters and roof on our primary programmatic building to mitigate water damage and leaks in the building.
- Move solar panels from the back, decommissioned building up to the primary programmatic building to support continued energy conservation on campus.
- Create a short and long-term plan with a wastewater engineer to support our Maui campus's existing and future needs that includes relocation of the wastewater system and septic tank upgrades that supports our strategic plan.
- Rebuilding the platform that our potable water system tank sits on that is rotting, rebuild parts for chlorine pump, rebuild tank float and get a spare flow switch.
- Replace existing schedule 40 PVC pipe water lines with a more durable alternative such as a black HDPE pipe/ Drisco.
- Replace air blower to improve effluent waste quality for the waste water system and electrical subcontractor revamp work.
- Reframing septic tank holders
- Hydrofematic pressure tanks for water treatment system
- Landscaping

O'ahu Goals

- Decommission the existing "Green Machine," an above-ground constructed wetland. It is currently grandfathered into wastewater setback guidelines within 50 feet of a stream, and has already outlasted its life expectancy and requires replacement with a state of the art in-ground constructed wetland. The new wetland will have built-in educational components and be located further away from the stream, in alignment with current stream setback regulations for these systems.
- Completion of a site plan for a new mixed-use administrative/programmatic space to be more user-friendly for staff, facilitating a completely separate on-site space for programs to include programs specific to serving vulnerable populations and an overnight space for DOFAW staff.

O'ahu Objectives

- Find a suitable site with an Environmental Assessment for site/septic plan and percolation tests for the in-ground constructed wetland waste water treatment system from collection,

septics and secondary disposal all the way through to irrigation with the planning/design support from a wastewater engineer and other supporting professions.

- Construct with grubbing/clearing and install constructed wetland
- Decommission the existing "Green Machine"
- Site plan design fee including 3,000 SF area under roof with architectural and primary consultants.
- EA preparation and filing fees for site plan
- 3rd party permit routing/review and filing/design review fees

3. The public purpose and need to be served;

Hawai'i Nature Center offers educational and community programs that use these facilities as the main orientation center for these 17,000 school children, youth and families that come across the state, country and world annually. Utilizing our two sites, we provide environmental education programs to public and private preschool, elementary and middle school children, provide teacher education and planning workshops and conferences, intersession nature camps, overnight environmental education programs, fun and educational birthday parties, volunteer activities, weekend and community programs for organizations, individuals and families as well as educational opportunities for teachers, visitors from abroad, and the general public. Through all of these means, Hawai'i Nature Center provides a hands-on, immersive, interactive approach to learning about mālama 'aina and furthering public awareness and understanding the important role that we each have in caring for our islands' scarce resources now more than ever.

Hawai'i Nature Center has two main environmental education facilities that supported over 17,000 children and families being educated on Maui and O'ahu combined in 2017. Both of the main facilities on Maui and O'ahu are Harry and Jeanette Weinberg centers and serve as the physical epicenter and the environmental education headquarters for each island. On Maui in particular, we are located between Kepaniwai Park and the 'Iao Valley State Park where there have been significant floods in the last year and a half. Due to the increase in water exposure, our facilities are in need of significant renovations and upgrades.

4. Describe the target population to be served; and

The target population are the Maui and O'ahu communities at large, including the more than 17,000 annual utilizers of the Hawai'i Nature Center's two educational facilities on Maui and O'ahu. Program attendees come from across the state, country, and world to learn about Hawai'i's unique and pristine environment, ecological habitats while furthering their understanding of sustainability and stewardship practices through our teachings. Youth from Maui, O'ahu, Lāna'i, Moloka'i, and Hawai'i Island come to our campuses and are served by our programs. In addition, this capital improvement plan will facilitate improved programmatic capacity to support programs that focus on serving vulnerable populations who are at-risk of homelessness or living at or below the poverty line and getting vulnerable youth, families and marginalized populations within our community engaged in the natural world for a therapeutic experience.

5. Describe the geographic coverage.

The geographic coverage for these programs include the Maui and O'ahu communities at large, including the more than 17,000 annual utilizers of the Hawai'i Nature Center's two educational facilities on Maui and O'ahu. The scope of these program attendees extend further still, to those who come from across the state, country and world to learn about Hawai'i's unique and pristine environment, ecological habitats while furthering their understanding of sustainability and stewardship practices through our teachings. Youth from Maui, O'ahu, Lāna'i, Moloka'i, and Hawai'i Island come to our campuses and are served by our programs. In addition, this capital improvement plan will facilitate improved programmatic capacity to support programs that focus on serving vulnerable populations who are at-risk of homelessness or living at or below the poverty line and getting vulnerable youth, families and marginalized populations within our community engaged in the natural world for a therapeutic experience.

II. Service Summary and Outcomes

The Service Summary shall include a detailed discussion of the applicant's approach to the request. The applicant shall clearly and concisely specify the results, outcomes, and measures of effectiveness from this request. The applicant shall:

1. Describe the scope of work, tasks and responsibilities;

Scope of Work

Phase 1: Design, Plan, Permit

Maui

- Design, planning, permitting approval for upgraded water treatment and septic system.
- Design, planning, permitting approval for initial renovation of programmatic building rafters, fascia, gutters and roof.

O'ahu

- Design, planning, permitting approval for upgraded independent wastewater system/ in-ground Constructed Wetland
- Design, planning, permitting approval for Programmatic/Administrative mixed-use building

Phase 2: Demo, Build, Maintain

Maui

- Coordinate and execute construction of upgraded independent water system water treatment and septic plan

- Coordinate and execute initial renovation of programmatic building rafters, fascia, gutters and roof plan
- Establish and execute a regular maintenance plan for the property and upgraded independent water system.

O'ahu

- Demolish existing deteriorated Ranger Cottage building to make room for new design.
- Coordinate and execute construction of upgraded septic w/ DLNR/DOFAW and traffic flow
- Remove existing "Green Machine" to make room for new, more environmentally friendly and educational design.
- Establish and execute a regular maintenance plan for the property and upgraded independent water system.

2. Provide a projected annual timeline for accomplishing the results or outcomes of the service;

Phase 1: Design, Plan, Permit (July 2018- October 2019)

Phase 2: Demo, Build, Maintain (November 2019-June 2019)

3. Describe its quality assurance and evaluation plans for the request. Specify how the applicant plans to monitor, evaluate, and improve their results; and

Evaluation is built into every aspect of our programming at the Hawai'i Nature Center. Regular monthly performance measures and progress reports will provide feedback to the senior administrative team and Board of Directors who specialize in this area to ensure that quality standards are met and a plan is set to monitor and maintain the capital improvements facilitated by this request and ensure fiscal responsibility of the project. For example, our facilities committees are comprised of developers, general contractors, project managers for the state, and others who are highly skilled in ensuring quality assurance throughout this process.

4. List the measure(s) of effectiveness that will be reported to the State agency through which grant funds are appropriated (the expending agency). The measure(s) will provide a standard and objective way for the State to assess the program's achievement or accomplishment. Please note that if the level of appropriation differs from the amount included in this application that the measure(s) of effectiveness will need to be updated and transmitted to the expending agency.
- Making progress toward reaching next task/Reaching proposed timeline benchmarks (successful completion of tasks laid out in II.1, or written explanation of why tasking was not met and what measures were taken to continue to move the project forward despite issues/delays)

The Hawai'i Nature Center will share quality control maintenance and progress reports with the State agency. HNC will provide facility tours and pictures of before and after upgrades and copies of the designs and plans created from this project at regular intervals. HNC will also consult with leading water treatment experts to ensure that the measures of quality control for both the Maui and O'ahu systems are maintained at the highest standard.

III. Financial

Budget

1. The applicant shall submit a budget utilizing the enclosed budget forms as applicable, to detail the cost of the request.
- a. Budget request by source of funds ([Link](#))
 - b. Personnel salaries and wages ([Link](#))
 - c. Equipment and motor vehicles ([Link](#))
 - d. Capital project details ([Link](#))
 - e. Government contracts, grants, and grants in aid ([Link](#))

See Appendix C: Budget Narrative

2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2019.

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
\$250,000	\$200,000	\$200,00	\$200,00	\$850,000

3. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2019.

Alexander & Baldwin
 Atherton Family Foundation
 Fred Baldwin Memorial Foundation

Victoria & Bradley Geist Foundation
 Hau'oli Mau Loa Foundation
 Hawaii Community Foundation FLEX Grant

4. The applicant shall provide a listing of all state and federal tax credits it has been granted within the prior three years. Additionally, the applicant shall provide a listing of all state and federal tax credits they have applied for or anticipate applying for pertaining to any capital project, if applicable.

Not applicable.

5. The applicant shall provide a listing of all federal, state, and county government contracts, grants, and grants in aid it has been granted within the prior three years and will be receiving for fiscal year 2019 for program funding.

No federal funding has been received by Hawai'i Nature Center for this project. However, the organization has receive programmatic funding form the NOAA B-WET program for the last three years. In 2015, the organization received a State Grant-in-Aid. No additional state or city funding has been received over the past three years.

6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2017.

\$321,900

IV. Experience and Capability

1. **Necessary Skills and Experience**

The applicant shall demonstrate that it has the necessary skills, abilities, knowledge of, and experience relating to the request. State your experience and appropriateness for providing the service proposed in this application. The applicant shall also provide a listing of verifiable experience of related projects or contracts for the most recent three years that are pertinent to the request.

With approved funding, the Hawai'i Nature Center will utilize the project management skills of the Executive Director and supporting staff, Board of Directors and contractors to oversee the capital upgrades needed to both the Maui and O'ahu sites. There is an existing Facilities Committee for both Maui and O'ahu that will also continue to guide the process through design and construction as needed with the expertise and support needed to successfully execute this project. HNC staff and contractors on the Facilities Committee have already been in contact with architectural planning & design firms, construction firms, and others to build a broad base of support and provide realistic estimates for the scope of work for the projects on both Maui and O'ahu. Many of these companies are leaders in their field, including Loren Osborn with Castaway Construction, Philip White with Whitespace Architects, Keith Tajiri with Tajiri Lumber, and Lauren Roth-Venue with Roth Ecological Design International, LLC.

We also have a strong financial team lead by Tim Anderson, our Board Treasurer, who is the CFO at a large construction/development firm. He also previously audited HNC when he was an auditor at CW Associates. Additionally, Jonathan Marstaller, our accountant with many years of experience will ensure fiscal responsibility and oversight.

Central to the success of the Hawai'i Nature Center is its Board of Directors (see Appendix D: Board of Directors). Composed of a diverse group of men and women who are recognized leaders in the community, our Board has demonstrated a commitment to the mission of the Hawai'i Nature Center. Board members are selected based upon their expertise in areas such as law, marketing, education, etc., as well as for their ability to provide financial support. The Board is responsible for major policy decisions, strategic planning, fiscal responsibility, and overseeing the Executive Director.

The Executive Director, Jeeyun Lee, who has been in the non-profit sector for over a decade serves as the chief executive officer, reports to the Board of Directors, and is responsible for all daily operations of the organization. Jeeyun is supported by a management team comprised of an Operations and Volunteer Program Director, Associate Director, and Education Program Manager. Together, this team oversees and manages all day-to-day operations of Hawai'i Nature Center programs, facilities, and personnel on Maui and O'ahu.

2. Facilities

The applicant shall provide a description of its facilities and demonstrate its adequacy in relation to the request. If facilities are not presently available, describe plans to secure facilities.

The Hawai'i Nature Center currently operates facilities on Maui and O'ahu:

On Maui, in 'Iao Valley, there are three separate buildings: the main educational program building and two lodging facilities buildings for school and community groups. The educational program building is our primary asset on the Maui property, which is the building and infrastructure upgrades we are proposing within this GIA.

On O'ahu, in Makiki Valley, there is a main educational center, the Harry and Jeannette Weinberg Interpretive Center, which includes a classroom, storage, staff kitchen area and facilities for schools and community use. The Makiki Campus also houses an open structured Rain Pavilion for additional programmatic use, and the Ranger Cottage/Administration building that is shared by DOFAW. The Ranger Cottage is the building that we are proposing to demolish and get design, planning and permitting funds for with this GIA. We are also looking to upgrade our independent waste water system on O'ahu that is shared with DLNR/DOFAW's base yard.

Facilities on both Maui and O'ahu include displays and activities that complement the environmental education programs. While these specifically target school groups, they also serve families and community groups, as well as weekend and intersession nature camp program participants year round.

V. Personnel: Project Organization and Staffing

1. Proposed Staffing, Staff Qualifications, Supervision and Training

The applicant shall describe the proposed staffing pattern and proposed service capacity appropriate for the viability of the request. The applicant shall provide the qualifications and experience of personnel for the request and shall describe its ability to supervise, train and provide administrative direction relative to the request.

The applicant shall describe the proposed staffing pattern and proposed service capacity appropriate for the viability of the request. The applicant shall provide the qualifications and experience of personnel for the request and shall describe its ability to supervise, train and provide administrative direction relative to the request.

With approved funding, the Hawai'i Nature Center will utilize the project management skills of the Executive Director and supporting staff, Board of Directors, and contractors to oversee the capital upgrades needed to both the Maui and O'ahu sites. This team has many years of experience with development projects and will provide the expertise necessary to responsibly expend the approved funds. The HNC Board of Directors has an existing Facilities Committee that is standing by, all of whom have an extensive background in the necessary skills to support this capital improvement project, including but not limited to project management, general contracting, developing, and acting as controllers on both Maui and O'ahu. This committee will continue to guide the process through design and construction as needed with the expertise and support needed to successfully execute this project.

2. Organization Chart

The applicant shall illustrate the position of each staff and line of responsibility/supervision. If the request is part of a large, multi-purpose organization, include an organization chart that illustrates the placement of this request.

See Appendix E: Organizational Chart

3. Compensation

The applicant shall provide the annual salaries paid by the applicant to the three highest paid officers, directors, or employees of the organization by position.

The annual salaries for the three highest paid HNC employees:

Jeeyun Lee, Executive Director- \$90,000

Pauline Kawamata, Operations and Volunteer Program Director- \$57,994

Savannah Allshouse, Associate Director- \$49,595

VI. Other

1. Litigation

The applicant shall disclose any pending litigation to which they are a party, including the disclosure of any outstanding judgement. If applicable, please explain.

Not applicable.

2. Licensure or Accreditation

The applicant shall specify any special qualifications, including but not limited to licensure or accreditation that the applicant possesses relevant to this request.

Not applicable.

3. Private Educational Institutions

The applicant shall specify whether the grant will be used to support or benefit a sectarian or non-sectarian private educational institution. Please see Article X, Section 1, of the State Constitution for the relevance of this question.

Not applicable.

4. Future Sustainability Plan

The applicant shall provide a plan for sustaining after fiscal year 2018-19 the activity funded by the grant if the grant of this application is:

- (a) Received by the applicant for fiscal year 2018-19, but
- (b) Not received by the applicant thereafter.

The Hawai'i Nature Center has long demonstrated its expertise in providing quality programs and services to Hawai'i's children, families and community members from both the islands and national and international visitors in a safe and enriching facility on both Maui and O'ahu. We anticipate that this capital improvement project can be sustained and expanded within the current institutional structure with continued financial investment from the Hawai'i Nature Center's annual fundraising programs such as our Green Gala fundraiser on O'ahu and the expansion of fundraising efforts on Maui and within the realm of major gifts. Additional, capital campaign asks will also be supporting these efforts moving forward and funds will be allocated to maintain the capital improvements in perpetuity.

5. **Certificate of Good Standing (If the Applicant is an Organization)**

If the applicant is an organization, the applicant shall submit one (1) copy of a certificate of good standing from the Director of Commerce and Consumer Affairs that is dated no earlier than December 1, 2017.

See Appendix F.

6. **Declaration Statement**

The applicant shall submit a declaration statement affirming its compliance with Section 42F-103, Hawaii Revised Statutes. ([Link](#))

See Appendix G.

7. **Public Purpose**

The applicant shall specify whether the grant will be used for a public purpose pursuant to Section 42F-102, Hawaii Revised Statutes. ([Link](#))

Yes, Hawai'i Nature Center's "The Future of Sustainable Environmental Education" grant will be used for a public purpose by connecting children and families to nature across Maui and O'ahu. With the legislature's financial support, HNC will be able to improve our wastewater system to optimize children's experiences and decrease environmental impacts on Maui, and create a functional, educational, and sustainable in-ground constructed wetland on O'ahu. These site improvements will support environmental education and stewardship for the public and visitors across these islands for generations to come.

ATTACHMENTS

- Appendix A: Photos of Maui & O'ahu Facility Needs
- Appendix B: O'ahu In-Ground Constructed Wetland Information
- Appendix C: Budget
- Appendix D: Board of Directors
- Appendix E: Organizational Chart
- Appendix F: DCCA Certificate of Good Standing
- Appendix G: Chapter 42F Declaration Statement
- Appendix H: Letters of Support

APPENDIX A:

PHOTOS OF MAUI & O‘AHU FACILITY NEEDS



Maui Primary Programmatic Building – Rotten Rafters



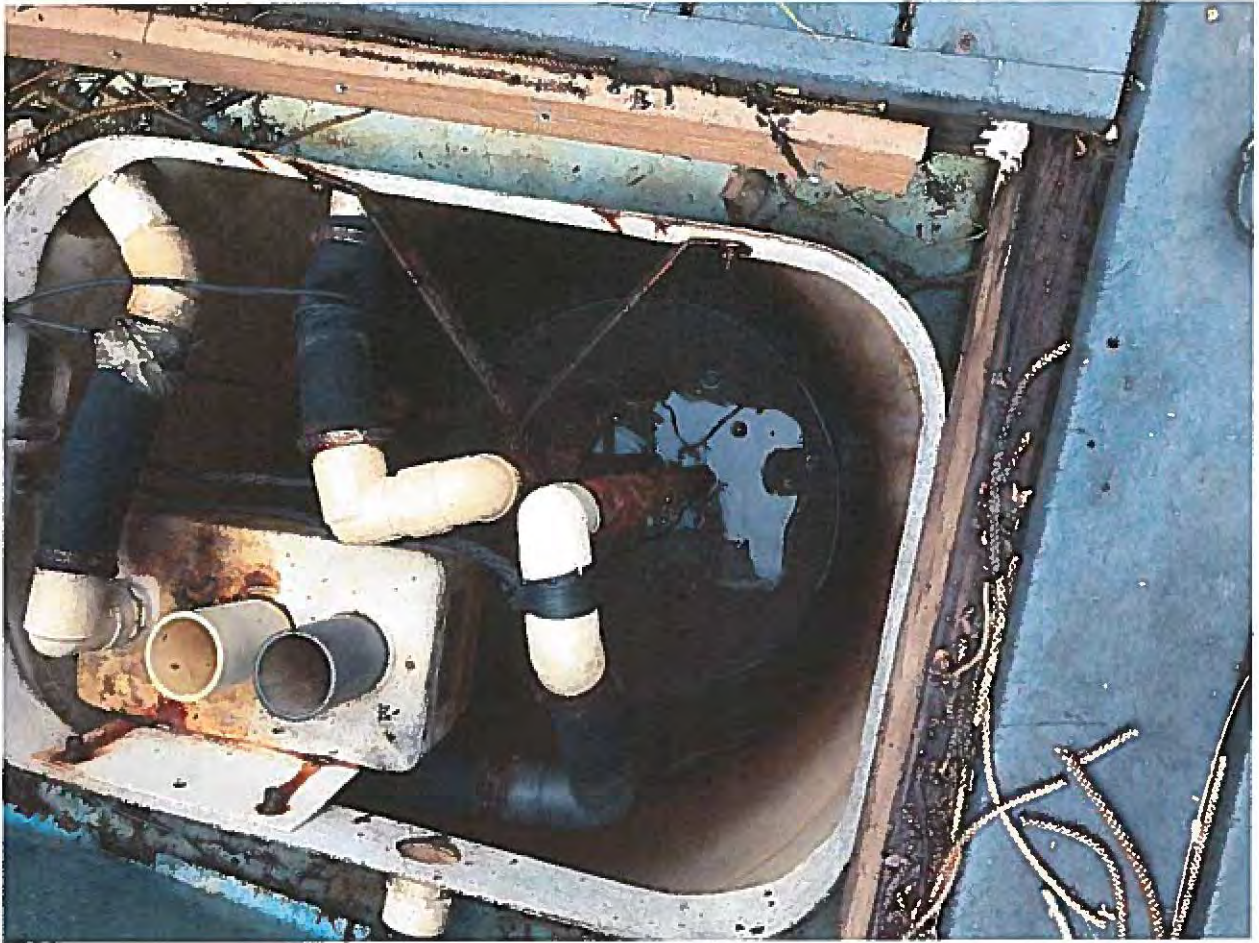
Maui Primary Programmatic Building – Rotten Rafters & Fascia



Maui Primary Programmatic Building – Rotten Rafters & Gutters



Maui Primary Programmatic Building – Whole Back Side Showing Rotten Rafters, Fascia, and Gutters



Maui Individual Wastewater System



O'ahu Ranger Cottage – Ceiling in Hawai'i Nature Center Administrative Space



O'ahu Ranger Cottage – Crumbling Exterior Wall

APPENDIX B:
O‘AHU IN-GROUND
CONSTRUCTED
WETLAND
INFORMATION

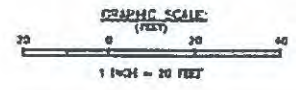
proposed area for
constructed wetland

EXIST SEPTIC
TANK

DENOLISH & REMOVE
LEECHFIELD/SEPTIC
TANK, CONTRACTOR
SHALL VERIFY EXACT
LOCATIONS

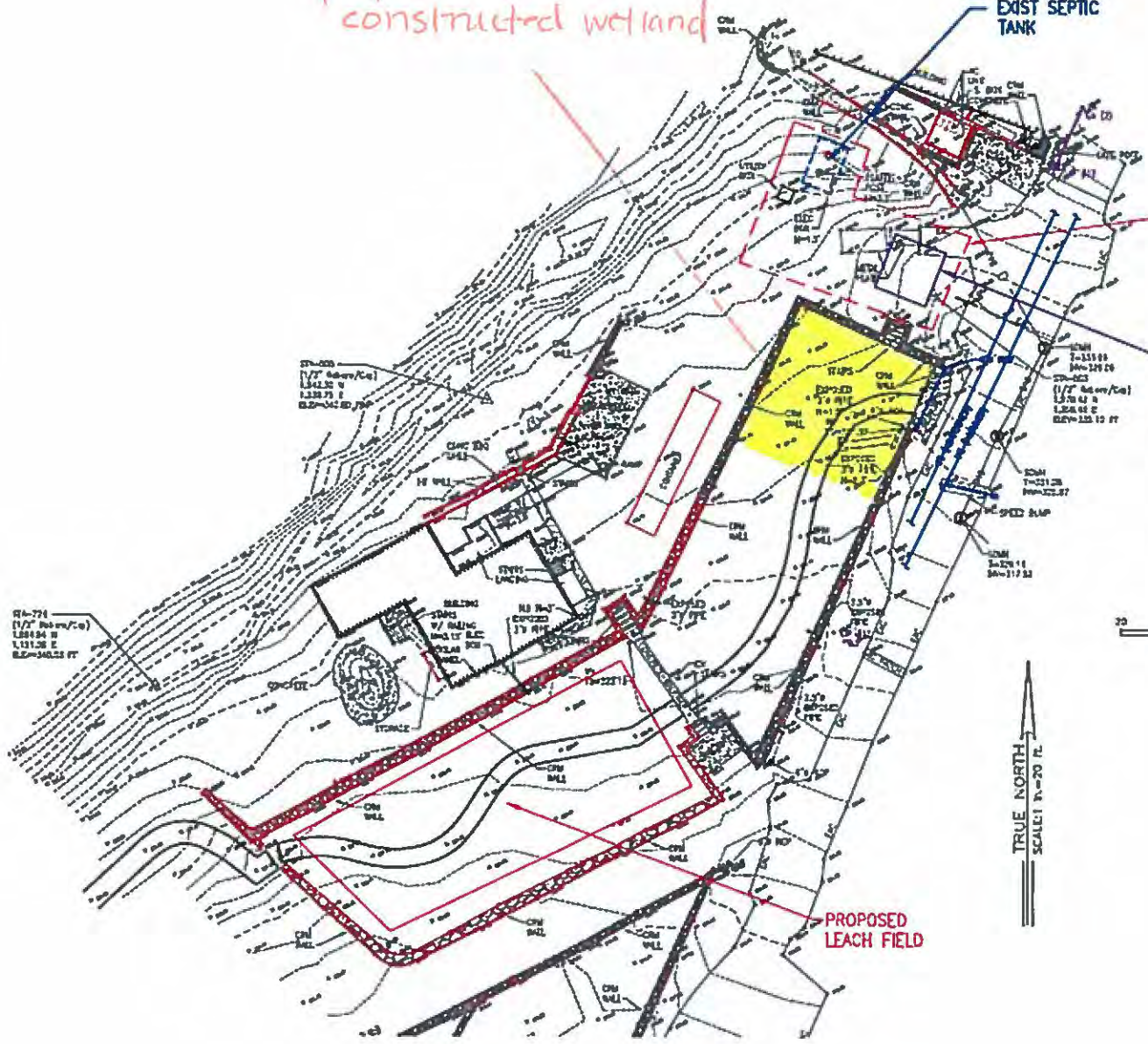
LOCATION OF NEW
SEPTIC TANK(S)

- NOTES:
1. COORDINATES AND AZIMUTHS ARE ASSUMED.
 2. ELEVATIONS ARE REFERENCED TO TEMPORARY BENCHMARK, "BM", A MAGNETIC NAIL, ELEVATION = 348.78 FEET (MEAN SEA LEVEL).
 3. FIELD WORK HAS BEEN CONDUCTED BY SAM O. WINTER, INC. ON DATES 2, 2015 - SEPTEMBER 4, 2015. FIELD BOOK 1781.01.
 4. 1945 TOPOGRAPHIC SURVEY CONTAINS COPYRIGHTED INFORMATION BY SAM O. WINTER, INC. 2015.



TRUE NORTH
SCALE: 1" = 20 FT.

PROPOSED
LEACH FIELD



74-774
(1/2" Above/Co)
1,884.94 N
1,131.28 E
ELEV=348.53 FT

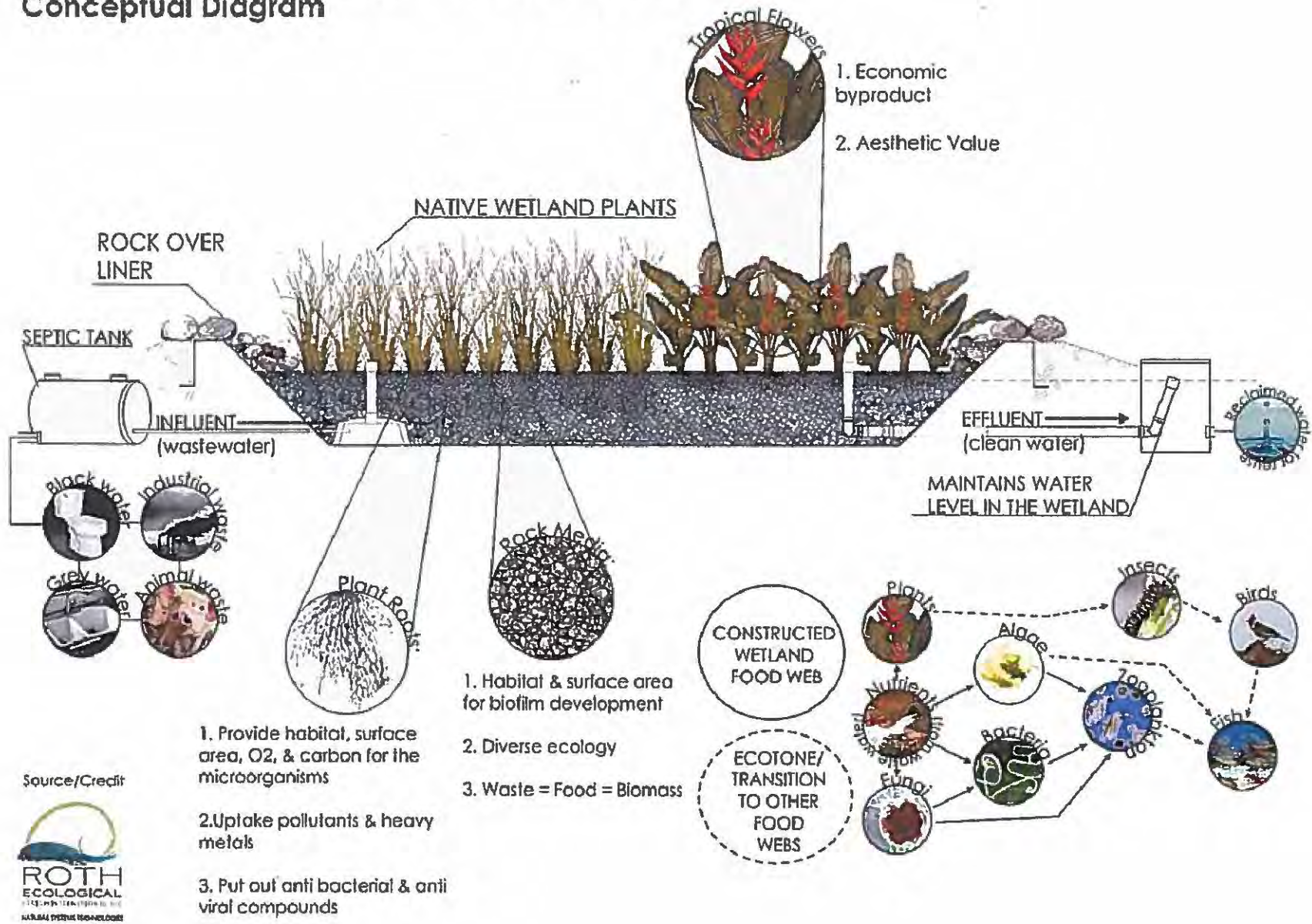
74-223
(1/2" Above/Co)
1,842.50 N
1,232.75 E
ELEV=345.78 FT

74-223
(1/2" Above/Co)
1,878.42 N
1,234.44 E
ELEV=352.13 FT

BM
T=221.28
S=22.87

BM
T=228.11
S=17.53

Subsurface Constructed Wetlands Wastewater System Conceptual Diagram



7-5

constructed wetlands



Constructed wetlands are inherently engineered to be mechanically simple, yet ecologically complex. The system is a passive, lined reactor following primary treatment in an anaerobic digester or septic tank (for smaller systems). The wetlands provide high quality secondary treatment that do not require external energy for treatment (thus little to no maintenance and low operating costs) while also being an aesthetic addition to the landscape.

Benefits of Wetland Technologies for Wastewater Treatment:

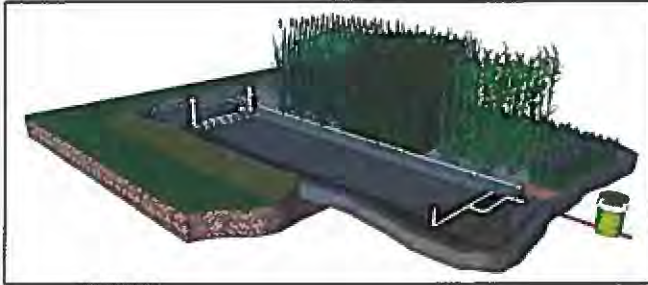
- Non-proprietary (constructed wetlands): Allows for capacity building and technology transfer
- Stimulates the local economy by using most if not all locally sourced materials.
- Treatment does not require external energy or chemicals to operate (Considerably lower O&M costs vs. conventional packaged treatment plants)
- Wetlands polish excess nutrients, preventing pollution downstream
- Educational value and opportunities
- Provide LEED credits
- Aesthetically pleasing
- Convert Wastes to Resources. Produce valuable byproducts such as flowers, fodder, and water ready for reuse.

In subsurface flow (SSF) wetlands all water flows below the surface and the plant roots and gravel provide substrates for microorganism attachment. The two media provide different habitats that allow for both aerobic and anoxic bacteria to reside in the same ecosystem which allows for an efficient breakdown of a range of pollutants. In doing so it converts waste into resources via the complex food web. Another significant advantage to a SSF wetland is lack of odor since the all the water flows beneath the surface of the wetland. Furthermore, the wetland treatment system can showcase native and local tropical plants that promote the local culture, regional biodiversity and can provide opportunities for commercial harvest. The wetland technology will naturally provide Hawaii Department of Health R-3 quality reuse water without the need of external energy or chemicals and can meet R-2 and R-1 with disinfection. In addition the systems are excellent in removing nutrients such as ammonia and nitrates, which protects fragile ecosystems and groundwater supplies where disposal/water reuse occurs.



West Hawaii Campus Treatment and Reuse/Dispersal System

North Kona, Hawaii



from top: Cutaway illustration of constructed wetland for wastewater treatment; West Hawaii campus with wastewater system

The new, five-acre West Hawaii Campus of the University of Hawaii is being developed in several phases over a ten year period. The project is striving to achieve sustainable design goals and meet Leadership in Energy and Environmental Design (LEED) Platinum status. The

ultimate build out will include a Culinary Arts Building, a Learning Center, a Student Services and Administration Building, and a Health Sciences Building.

Biohabitats, in collaboration with Roth Ecological Design International, designed an

onsite wastewater collection, treatment, and reuse system for Phases I and II of the project.

Viewing pollution as a resource out of place, Biohabitats' sustainable approach to managing water resources at the new campus uses engineered wetland technologies that mimic the natural treatment processes of marshes and wetlands. These constructed systems transform 'pollution' into food for wetland organisms. The living engine driving this technology employs the food web structure found in natural marshes: microorganisms, zooplankton, algae, and higher plants.

The design of the treatment and reuse/dispersal system is operationally flexible to accommodate Phase I and II conditions, as well as equalization of flow during periodic large events. The system includes

- Primary Treatment Tanks (and grease interceptors where applicable) at each

- building or group of buildings generating wastewater;
- Small Diameter Collection System from tanks to treatment area(s);
- Horizontal Subsurface Flow Constructed Wetlands;
- A Recirculating Sand Filter;
- Dispersal via subsurface drainfield trenches (including a 100% backup drainfield);
- Mechanical Filtration and UV disinfection for all irrigation-reuse; and
- An Irrigation Reuse System via subsurface drip irrigation.

The 8,300 gallon per day wastewater system is designed to meet the requirements of DOH R-3 water quality standards. Implementing onsite wastewater treatment for reuse will highlight the University's sustainability goals, cost-effectively manage campus water resources, add to the landscape aesthetics, and generate further educational and public outreach opportunities for the University.

conservation planning
ecological restoration
regenerative design



800.220.0919
www.biohabitats.com



University of Hawaii West Hawaii Campus

Kailua-Kona, Hawaii



In collaboration with Palamanui, Urban Works and Biohabitats, REDI led the design of incorporating an onsite wastewater treatment system using constructed wetland technology and recirculating sand filter technologies to treat 100% of the wastewater onsite to be reused in a native landscape. Working with Ki Concepts, REDI led the landscape design team for the nonpotable landscape design, which also incorporated Low Impact Development for stormwater management. The project is seeking LEED platinum status.



APPENDIX C:

BUDGET

BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2018 to June 30, 2019

Applicant: Hawai'i Nature Center

BUDGET CATEGORIES	Total State Funds Requested (a)	Total Federal Funds Requested (b)	Total County Funds Requested (c)	Total Private/Other Funds Requested (d)
A. PERSONNEL COST				
1. Salaries				
2. Payroll Taxes & Assessments				
3. Fringe Benefits				
TOTAL PERSONNEL COST				
B. OTHER CURRENT EXPENSES				
1. Airfare, Inter-Island				
2. Insurance				
3. Lease/Rental of Equipment				
4. Lease/Rental of Space				
5. Staff Training				
6. Supplies				
7. Telecommunication				
8. Utilities				
9. Plans	125,000			37,000
10. Design	225,000			50,000
11. Construction	500,000			
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
TOTAL OTHER CURRENT EXPENSES	850,000			87,000
C. EQUIPMENT PURCHASES				
D. MOTOR VEHICLE PURCHASES				
E. CAPITAL				
TOTAL (A+B+C+D+E)	850,000			87,000
SOURCES OF FUNDING		Budget Prepared By:		
(a) Total State Funds Requested	850,000	Jeeyun Lee	808-629-9764	
(b) Total Federal Funds Requested		[REDACTED]	Phone	
(c) Total County Funds Requested			Jan 19, 2018	
(d) Total Private/Other Funds Requested	87,000	Signature of Authorized Official	Date	
TOTAL BUDGET	937,000	Jeeyun Lee, Executive Director Name and Title (Please type or print)		

BUDGET JUSTIFICATION - PERSONNEL SALARIES AND WAGES

Period: July 1, 2018 to June 30, 2019

Applicant: Hawai'i Nature Center

POSITION TITLE	FULL TIME EQUIVALENT	ANNUAL SALARY A	% OF TIME ALLOCATED TO GRANT REQUEST B	TOTAL STATE FUNDS REQUESTED (A x B)
NOT APPLICABLE				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
TOTAL:				
JUSTIFICATION/COMMENTS:				

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Period: July 1, 2018 to June 30, 2019

Applicant: Hawai'i Nature Center

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST	TOTAL BUDGETED
NOT APPLICABLE			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
TOTAL:				
JUSTIFICATION/COMMENTS:				

DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST	TOTAL BUDGETED
NOT APPLICABLE			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
TOTAL:				
JUSTIFICATION/COMMENTS:				

27

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: July 1, 2018 to June 30, 2019

Applicant: Hawai'i Nature Center

FUNDING AMOUNT REQUESTED						
TOTAL PROJECT COST	ALL SOURCES OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED	OF FUNDS REQUESTED	FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY: 2016-2017	FY: 2017-2018	FY:2018-2019	FY:2018-2019	FY:2019-2020	FY:2020-2021
PLANS			125,000	37,000		
LAND ACQUISITION						
DESIGN			225,000	50,000		
CONSTRUCTION			500,000		500,000	500,000
EQUIPMENT						
TOTAL:			850,000	87,000	500,000	500,000
JUSTIFICATION/COMMENTS:						

GOVERNMENT CONTRACTS, GRANTS, AND / OR GRANTS IN AID

Applicant: Hawai'i Nature Center

Contracts Total: 29,830

	CONTRACT DESCRIPTION	EFFECTIVE DATES	AGENCY	GOVERNMENT ENTITY (U.S. / State / Haw / Hon / Kau / Mau)	CONTRACT VALUE
1	State Grant in Aid	7/1/16 - 6/30/17	State of Hawai'i	State	\$ 29,830.00
2					
3					
4					
5					
6					
7					
8					
9					
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APPENDIX D:

BOARD OF DIRECTORS

HAWAII NATURE CENTER

Connecting children and families to nature

2018 BOARD OF DIRECTORS & OFFICERS
(Updated: 1/2018)

OFFICERS

President

Piia Aarma
Owner
Pineapple Tweed PR & Marketing

Vice President

McKibbin Mist
Purchasing and Contracts Manager
Gentry Homes Ltd.

Secretary

Randall F. Sakumoto, Esq.
Partner
McCorriston Miller Mukai MacKinnon LLP

Treasurer

Tim Anderson
CFO
BEK Construction, Inc.

Immediate Past President

Dee Dee Letts
President
Resolutions Hawaii

DIRECTORS

Bruce Coppa
President
Capitol Consultants of Hawai'i

Everett Dowling
President
Dowling Company

Meleana Estes
Owner
Meleana Designs

G. Robert Johnston
President/CEO
Hawaii Pacific Solar LLC

Michele Loudermilk, Esq.
Partner
Cades Schutte

Christian M. O'Connor
Centre City Managing Member
Centre City Management, LLC

Hōkūao Pellegrino
Land Administrator
Kamehamea Schools

Jerry Rauckhorst
Retired CEO
Catholic Charities Hawai'i

Stephen K. Rodgers, CFA
Chief Investment Officer & Executive Vice President
Bank of Hawaii

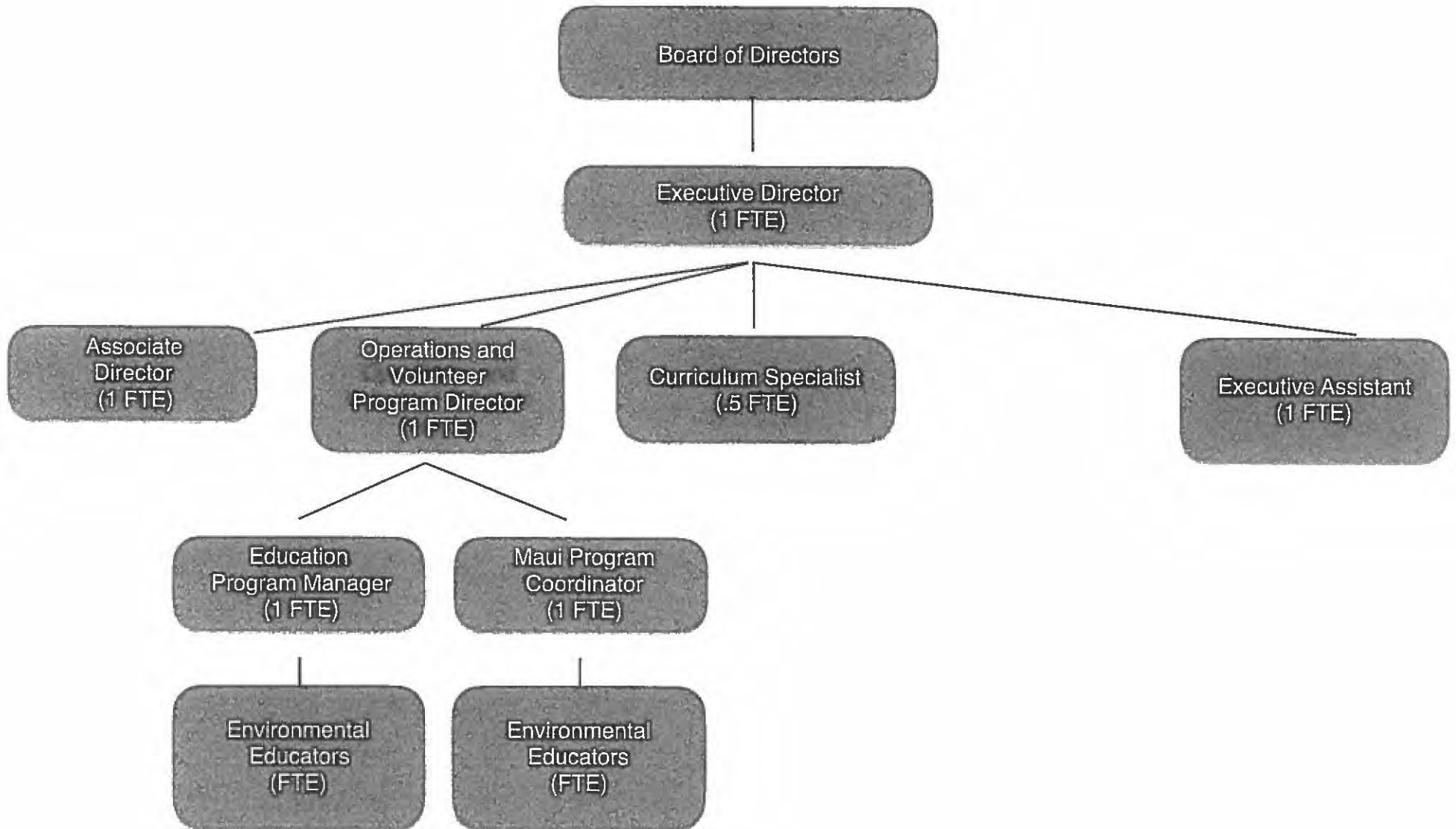
Julie Rogers
Volunteer Philanthropist
Blue Planet Foundation

Andrew Yani
Principal
Hanapohaku, LLC

Jeeyun Lee
Executive Director
Hawai'i Nature Center
2131 Makiki Heights Drive
Honolulu, HI 96822
Direct: (808) 955-0100 ext. 125
Cellular: (808) 629-9764
Fax: (808) 955-0116
jeeyun@hawaiinaturecenter.org

APPENDIX E:
ORGANIZATIONAL
CHART

Hawai'i Nature Center Organizational Chart



APPENDIX F:

DCCA CERTIFICATE OF GOOD STANDING



Department of Commerce and Consumer Affairs

CERTIFICATE OF GOOD STANDING

I, the undersigned Director of Commerce and Consumer Affairs of the State of Hawaii, do hereby certify that

HAWAII NATURE CENTER, INC.

was incorporated under the laws of Hawaii on 06/15/1981 ; that it is an existing nonprofit corporation; and that, as far as the records of this Department reveal, has complied with all of the provisions of the Hawaii Nonprofit Corporations Act, regulating domestic nonprofit corporations.



IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Department of Commerce and Consumer Affairs, at Honolulu, Hawaii.

Dated: January 12, 2018

Catherine P. Owaik-Cole

Director of Commerce and Consumer Affairs

APPENDIX G:

CHAPTER 42F
DECLARATION
STATEMENT

**DECLARATION STATEMENT OF
APPLICANTS FOR GRANTS PURSUANT TO
CHAPTER 42F, HAWAII REVISIED STATUTES**

The undersigned authorized representative of the applicant certifies the following:

- 1) The applicant meets and will comply with all of the following standards for the award of grants pursuant to Section 42F-103, Hawaii Revised Statutes:
 - a) Is licensed or accredited, in accordance with federal, state, or county statutes, rules, or ordinances, to conduct the activities or provide the services for which a grant is awarded;
 - b) Complies with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, sexual orientation, or disability;
 - c) Agrees not to use state funds for entertainment or lobbying activities; and
 - d) Allows the state agency to which funds for the grant were appropriated for expenditure, legislative committees and their staff, and the auditor full access to their records, reports, files, and other related documents and information for purposes of monitoring, measuring the effectiveness, and ensuring the proper expenditure of the grant.
- 2) If the applicant is an organization, the applicant meets the following requirements pursuant to Section 42F-103, Hawaii Revised Statutes:
 - a) Is incorporated under the laws of the State; and
 - b) Has bylaws or policies that describe the manner in which the activities or services for which a grant is awarded shall be conducted or provided.
- 3) If the applicant is a non-profit organization, it meets the following requirements pursuant to Section 42F-103, Hawaii Revised Statutes:
 - a) Is determined and designated to be a non-profit organization by the Internal Revenue Service; and
 - b) Has a governing board whose members have no material conflict of interest and serve without compensation.

Pursuant to Section 42F-103, Hawaii Revised Statutes, for grants used for the acquisition of land, when the organization discontinues the activities or services on the land acquired for which the grant was awarded and disposes of the land in fee simple or by lease, the organization shall negotiate with the expending agency for a lump sum or installment repayment to the State of the amount of the grant used for the acquisition of the land.

Further, the undersigned authorized representative certifies that this statement is true and correct to the best of the applicant's knowledge.

Hawai'i Nature Center, Inc.
(Typed Name of Individual or Organization)


(Signature)

1-16-2018
(Date)

Jeeyun Lee
(Typed Name)

Executive Director
(Title)

APPENDIX H:
LETTERS OF SUPPORT



January 19, 2018

Senate Committee on Ways and Means
Hawaii State Capitol
Honolulu, HI 96813

Re: Hawai'i Nature Center – Grant in Aid Support

Dear Chair Dela Cruz and Vice Chair Keith-Agaran,

The purpose of this letter is to express my support for Hawai'i Nature Center's (HNC) Grant in Aid (GIA) request during the 2018 legislative session.

As the Senior Program Officer at Hau'oli Mau Loa Foundation I've been fortunate to work with Hawai'i Nature Center for nearly a decade. Since 2006, the Foundation has provided over \$2.3MM in support to Hawai'i Nature Center which has allowed over 60,000 Title-one and underserved students to access the organization's award winning programs. We've witnessed consistent, positive, educational outcomes from the Title-one school program. If HNC is able to make improvements to their programmatic and administrative spaces through the GIA, they'll be able to amplify their environmental education programs and grow their support for our community.

We encourage you to positively consider Hawai'i Nature Center's proposal. Please contact me should you have any questions regarding our strong partnership with Hawai'i Nature Center.

Sincerely,

A solid black rectangular redaction box covers the signature of the sender.

Brant Hi'ikua Chillingworth

Senior Program Officer

DAVID Y. IGE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF FORESTRY AND WILDLIFE
1151 PUNCHBOWL STREET, ROOM 325
HONOLULU, HAWAII 96813

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

ROBERT K. MASUDA
FIRST DEPUTY

JEFFREY T. PEARSON, P.E.
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING

FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

January 19, 2018

House Committee on Finance
Hawaii State Capitol, Rm 306
Honolulu, Hawaii 96813
Attn: GIA

Senate Committee on Ways and Means
Hawaii State Capitol, Rm. 208
Honolulu, Hawaii 96813
Attn: GIA

Hawaii Grant in Aid Committee:

Re: Hawaii Nature Center 2018 GIA application

As the Oahu Branch Manager for the Division of Forestry and Wildlife, I am writing to demonstrate support for Hawaii Nature Center's (HNC) 2018 Grant-In-Aid application.

Over the past 35 years, the Division of Forestry and Wildlife (DOFAW) has partnered with the Hawai'i Nature Center (HNC) and has seen HNC demonstrate their ability to educating and supporting the community in innovative, thoughtful and sustainable ways. This grant for capital improvements would enable HNC to maximize their programmatic spaces, learning opportunities, and increase overall energy efficiency.

This project not only supports HNC's mission, but also aligns with DOFAW's mission to responsibly manage and protect watersheds, native ecosystems, and cultural resources, and provide outdoor recreation and sustainable forest products opportunities, while facilitating partnerships, community involvement and education. These improvements at the HNC site dovetail well with the master plan for the DOFAW Makiki Baseyard expansion and wastewater needs. HNC's proposal for an in-ground constructed wetland would continue to provide DOFAW with an environmentally-conscious disposal of its wastewater following the above-ground "Green Machine's" decommissioning, while still providing HNC with a powerful educational tool. In addition, HNC's demolition of and planned improvements to the DLNR Ranger Cottage will facilitate a more hospitable overnight space for DOFAW staff, as well as a more functional and effective administrative and programmatic space for HNC use.

We look forward to the creation and expansion of these existing plans and humbly ask that this unique project be funded so that children and families can continue to connect to nature in an environmentally sustainable way. Should you need more information, feel free to contact me at 973-9787.

Thank you for your consideration,

Sincerely,



MARIGOLD S. ZOLL
Oahu District Manager