

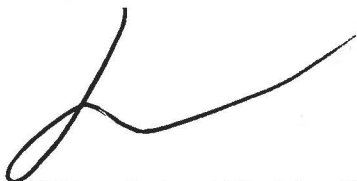
Applicant Maui Nui Marine Resource Council,

Maui Nui Marine Resource Council

Application Submittal Checklist

The following items are required for submittal of the grant application. Please verify and check off that the items have been included in the application packet.

- x 1) Certificate of Good Standing (If the Applicant is an Organization)
- x 2) Declaration Statement
- x 3) Verify that grant shall be used for a public purpose
- x 4) Background and Summary
- x 5) Service Summary and Outcomes
- x 6) Budget
 - Budget request by source of funds
 - Personnel salaries and wages
 - Equipment and motor vehicles
 - Capital project details -- not applicable
 - Government contracts, grants, and grants in aid
- x 7) Experience and Capability
- x 8) Personnel: Project Organization and Staffing



AUTHORIZED SIGNATURE

Laurence Stevens, Secretary 1/15/20

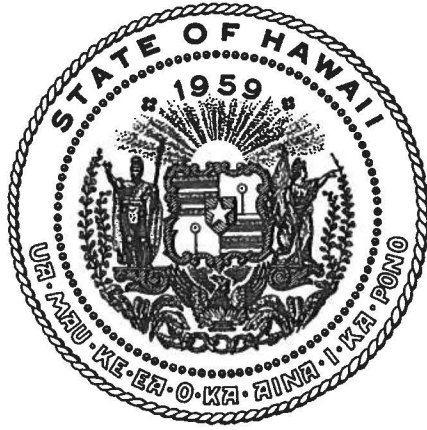
PRINT NAME AND TITLE

DATE

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**Brief Description of Proposed Project - Addendum
Maui Nui Marine Resource Council**

ocean water quality factors along the entire perimeter of Maui, to identify areas that are potentially in need of additional indepth monitoring. Lastly, we see funding to support the creation of an educational program to help reduce the flow of herbicides and pesticides into Maui's coastal waters to improve ocean water quality along our shorelines and benefit coral reef health.



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

MAUI NUI MARINE RESOURCE COUNCIL, INC.

was incorporated under the laws of Hawaii on 12/17/2014 ; 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 13, 2020

Director of Commerce and Consumer Affairs



**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.

Maui Nui Marine Resource Council, Inc.
(Typed Name of Individual or Organization)

 _____ 1/15/2020
(Signature) (Date)

Lawrence
Larry Stevens, Board Member / secretary
(Typed Name) (Title)



Maui Nui Marine Resource Council, Inc. certifies that support of the enclosed grant provides a public purpose, pursuant to Section 41F-102, Hawaii Revised Statutes. Specifically, our public purpose is to support healthier coral reefs and cleaner ocean water for the coastal areas of Maui County, for the benefit of all Maui residents and visitors.

Signed:



Larry Stevens, Board Member
Laurence Stevens, Secretary

1/15/2020
Date

II. Background and Summary

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

Maui Nui Marine Resource Council (MNMRC) is a Maui-based nonprofit 501(c)(3) organization celebrating 12 years of working for healthy coral reefs, clean ocean water and abundant native fish for the islands of Maui Nui. Working with current scientific data and acting in concert with traditional Hawaiian values, we develop and implement effective, science-based solutions to challenging environmental problems.

Water quality is a chief concern for MNMRC as it impacts the health of our reef ecosystems. It is also a major concern for our tourism and fisheries based economy, and the well-being of our island residents, as healthy coral reefs protect our beaches and shoreline structures.

The quality of Maui's coastal waters has decreased during the past two decades. The Hawai'i State Department of Health (DOH) rated Maui worst in water quality of all the main Hawaiian Islands in 2012; in 2014 DOH reported that Maui's turbidity impairments are 92%, and non-attainment of nutrient water quality standards are 90%. Maui's impaired waters are increasingly a public health concern, not only for local residents but for the visitor industry as well.

Prior to 2015, water quality monitoring via DOH was minimal due to budget and staff shortages, resulting in baseline data shortages for much of Maui's coastal waters.

In 2015, MNMRC, The Nature Conservancy (TNC) and West Maui Ridge to Reef Initiative (R2R) formed the *Hui O Ka Wai Ola* (Association of the Living Waters). *Hui O Ka Wai Ola (Hui)* is comprised of the founding organizations, as well as more than 35 water quality monitoring volunteers, and recognizes the value of a clean ocean for all of Hawai'i's residents, visitors, and natural resources. To ensure our data is useful to DOH, Hui participants worked with Hawaii State DOH to develop a Quality Assurance Project Plan (QAPP) to guide all volunteer training and water sample testing and analysis efforts. Following QAPP procedures ensures that the data gathered by our community volunteers will be useful to State and County agencies.

Starting in June of 2016, the Hui began monitoring near-shore, shallow waters at 18 West Maui sites from the Papalaua Pali to Pohaku Park (S-Turns) in Kahana, every few weeks for 13 metrics that can harm our coral reefs and human health.

Our program has expanded steadily since then. We currently monitor 41 locations in South and West Maui every three weeks, gathering quality-assured data on 13 water quality parameters readily accepted and utilized by the State of Hawai'i Department of Health Clean Water Branch. We look for sediments, nutrients, and other pollutants from land-based sources that might be having a negative impact on water quality. At all of our South Maui sites, we also monitor for enterococcus, a bacteria that indicates possible fecal contamination.

All of our teams use identical equipment, calibration, and operating and handling procedures in accordance with the QAPP. Results of the monitoring are continually updated and available to the public on the Hui's website at www.huiokawaiola.com and at www.mauireefs.org.

Because we work closely with the Department of Health and follow their rigorous protocol, our data is readily accepted by DOH and relied upon by County, State and Federal agencies, as well as community groups, scientists and water quality advocates.

Maui Nui Marine Resource Council continues to co-manage this program and provides all administrative and fiscal management. The Nature Conservancy of Hawaii supports the water quality effort by fully funding the Hui's Quality Assurance Officer, Dr. Kim Falinski, and Project Manager, Emily Fielding, positions required by the QAPP.

While our program is community-based and volunteer-based, there are associated costs: staffing for our project management team who handle everything from volunteer recruitment, training and scheduling to the program's overall fiscal management and reporting to data analysis, reporting and outreach. There are also the costs of supplies, equipment, shipping of water quality samples to O'ahu for nutrient testing, and the cost of the lab's services.

Our fundraising efforts have raised the funds needed to cover the associated costs of monitoring 25 of our 41 existing ocean water quality monitoring locations in 2020-2021. We are asking for support through this grant to cover the associated costs of the remaining 16 monitoring sites.

In 2020-21, we are taking the next step to utilize electronic-water quality monitoring equipment to collect real-time data gathered during a boat-based circumnavigational study of the entire perimeter of Maui at along the 10 meter depth contour over a 3 to 5 day period. This assessment will help us establish a baseline for specific water quality parameters at this time of climate change, and to identify areas of concern in need of additional water quality monitoring in the future.

During 2020-21, we will also be raising public awareness of the impacts of herbicides and pesticides on our nearshore coral reefs and providing educational tools to provide safer, proven alternatives for commercial and residential applications.

2. The goals and objectives related to the request;

The goal of our program is to provide quality-assured data that will result in more effective management of Maui's nearshore waters and ultimately, healthier coral reefs and cleaner ocean water for all to enjoy, and to help promote public

involvement and participation in achieving cleaner ocean water along Maui's coastline.

Our objectives for 2020-2021 are:

- a. To continue our successful volunteer-based water quality monitoring program through the ongoing recruitment, training and management of volunteers, reliable data-gathering methodology approved by DOH and rigorous scientific data analysis.
- b. To monitor a total of 41 locations for ocean water quality in South and West Maui, checking for 13 parameters determined to be important by the State of Hawaii's Department of Health, including sediments, nutrients, and other pollutants from land-based sources that might be having a negative impact on water quality. This proposal would support 16 of the monitoring sites.
- c. To continue testing for enterococcus bacteria at all of our South Maui sites, and alerting the DOH when bacteria levels exceed Federal standards so that DOH actions may be taken to protect ocean users.
- d. To provide quality-assured data for all 41 locations to the State of Hawaii Department of Health on a timely basis, following the Quality Assurance Project Plan that we created in partnership with the DOH.
- e. To provide two free community outreach presentations, offering updates on our water quality monitoring findings.
- f. To continue diligent, professional fiscal management and administrative oversight to ensure that this program can meet all of its objectives and provide solid reassurance of our fiscal responsibility, to allow us to attract funding from individuals, businesses, government and the community beyond 2021.
- g. To complete a 3 to 5 day circumnavigational assessment of all of Maui's coastal waters using an electronic water quality monitoring probe. The study will take place in a primary single track tow of the sensor package at following the 10 meter depth contour around the island for 3-5 consecutive days, weather dependent. This depth contour corresponds with the depth that is optimal for coral reef growth and provides for safe vessel operations especially on the windward side of the islands. In areas where fringing reef is present or the 10 meter contour is more than 100 meters from shore, a second set of surveys would be conducted by boat or by towing the sensor package from a kayak.

Photos and video will be posted on MNNRC's social media, website and in our monthly e-newsletter and included in local news releases. Video clips will be provided to local tv stations. The video will be provided to Akaku TV and linked to MNMRC's social media and website. Data will be provided to the community at outreach events, via our newsletter, through news releases and our website,

mauireefs.org.

h. To create and distribute public outreach materials to encourage resorts, hotels, condo properties, local businesses, golf courses and homeowners to protect our coastal water quality and local coral reefs by reducing their use of herbicides and pesticides. We will provide scientific data showing the impact of these chemicals on coral reefs and nearshore fish populations, and will showcase proven methods successfully utilized by Duane Sparkman, Chief Engineer of The Westin Maui, to control pests and weeds at this resort. The outreach materials will include a webinar, to be made available to free of charge to all who wish to view it, and a reference guide in downloadable PDF format. We will reach our target audience to encourage viewership of this webinar through radio and print public service announcements, news releases and social media.

h. To continue diligent, professional fiscal management and administrative oversight to ensure that this program can meet all of its objectives and provide solid reassurance of our fiscal responsibility, to allow us to attract funding from individuals, businesses, government and the community beyond 2021.

3. The public purpose and need to be served:

The public purpose of our Hui O Ka Wai water quality monitoring efforts is to support healthier coral reefs and cleaner ocean water for the coastal areas of Maui County. Ocean water quality can become impaired in a variety of ways including sedimentation caused by land-based pollutant runoff and excess nutrients from landscaping, agriculture, and wastewater. Identifying the problem areas and the type of impairment at each location will assist in tracking the causes. With better water quality data in hand, County and local agencies can better engage in more productive efforts to address the origination of ocean water quality problems.

Coral reefs require clean clear water for growth and reproduction. Visitors and residents value clean water for ocean recreation. However, according to the State of Hawai'i Department of Health, Maui has Hawai'i's most polluted coastal waters. From 2012- 2014, 90% of the water samples collected in Maui coastal waters failed to meet State standards.

100% of the water quality monitoring sites we test through Hui O Ka Wai Ola, our community-based ocean water quality monitoring program, have been found to be impaired for turbidity (water clarity). 90% of the sites are impaired for nitrogen. Several sites are regularly impaired by enterococcus bacteria.

The significant and serious decline of Maui's coral reefs threatens Maui's economic future, not only by making our islands less desirable to visitors, but also by making our coastal areas more vulnerable to storm surge and big waves.

A study released in May 2019 by U.S. Geological Survey, The Nature Conservancy and UC-Santa Cruz found that reefs can dissipate as much as 97% of wave energy in storms, acting as low-crested breakwaters. For that reason, reefs provide \$377.1 million annually in flood protection to Maui's coastlines, including our coastal roads, infrastructure, beaches and homes. The study reports that in a major storm (the type we might expect to experience every 10 years or so), 6,248 Maui residents and more than 1,900 buildings would be protected from flooding, thanks to our coral reefs. The total value of the buildings protected by reefs in a 10 year storm would be \$202,802,131.

Protecting our coral reefs will help protect all who travel on coastal roads – almost everyone who lives or works in West Maui. It will also protect all who rely on infrastructure or who have homes located near our coastlines.

However, during the past two decades, nearly one-quarter of Maui's corals have died, with half of Maui's reef sites currently experiencing declining health (Walsh et al. 2009. "Long-term monitoring of coral reefs of the Main Hawaiian Islands: final report." NOAA Coral Reef Conservation Program and the State of Hawai'i. Report NA06NOS4260113. Honolulu, HI 2).

Our project will support the well-being of people who rely directly or indirectly on healthy coral reefs, to provide food, attract visitors for their businesses, and protect their homes and shorelines. Maui's coral reefs, beautiful beaches, clean ocean water and fascinating marine environment are important in attracting 2.7 million visitors here along with the \$4.76 billion they contribute to Maui County's economy (Maui County Tourism Industry Strategic Plan 2017-2026).

In a 2002 study using data from more than 17 years ago and published by NOAA, the average annual benefits that accrue from Hawaiian coral reefs amount to \$364 million (Economic Valuation of the Coral Reefs of Hawai'i – NOAA, 2002), or \$1,000,000 per day. Recreation and tourism contribute to 85% of this \$364 million value.

Our water quality problems impact all who enjoy surfing, paddling, fishing, diving, swimming, snorkeling or other water activities, including simply jumping into the ocean on a warm day to cool off. By sharing the data from our monitoring effort, we hope to educate the public about our water quality issues, and offer ways to help reverse the decline, including minimizing use of pesticides and herbicides.

We have been actively fundraising for our community-based ocean water quality monitoring program and have encouraged local businesses to support water quality testing at their favorite beaches. While this has been largely successful, we are still short funding for 16 of the beach locations in South and West Maui. We are requesting GIA funding to fill this need, to allow continuation of this water quality monitoring program at all 41 sites currently served in 2020-2021.

We also ask for support of our planned circumnavigational ocean water quality assessment along Maui's entire coast, to gather valuable baseline data that will help us identify problem areas that need more extensive monitoring in the future.

We also seek to address an unmet need, to educate the public about the impacts of pesticides and herbicides on our local coral reefs and to provide proven information on effective alternatives that are safer for our reefs. This supports our goal of cleaner, safer ocean water and healthier coral reefs.

4. Describe the target population to be served;

Our program serves all residents and visitors of Maui County. Clean ocean water is valued for ocean recreation by all of Hawaii's residents and visitors and is essential for coral reef health. Healthy coral reefs protect Maui's shorelines and beaches from erosion caused by storm surges and are a source of food for local people. Our reefs help form the surfing conditions that Hawaii is famous for, and also shelter vibrant marine ecosystems that are prized by snorkelers, divers and fishermen.

5. Describe the geographic coverage.

We are asking for support of 16 of the 41 locations on Maui, from Honolua Bay in Kapalua to 'Ahihi – Kina'u in Makena, where we currently monitor ocean water quality. This support will include enterococcus testing at those of the 16 locations situated in South Maui.

Our Maui circumnavigational boat-based water monitoring will cover the entire coastline of Maui.

In addition, our educational campaign about herbicides and pesticides will reach all of Maui.

III. Service Summary and Outcomes

- 1. Describe the scope of work, tasks and responsibilities;**
 - a. Increase the capacity for monitoring coastal water quality in Maui by continuing to train and engage citizens in a quality-assured water quality monitoring program supervised by scientists following strict quality protocols.
 - b. Provide support for 16 of the 41 sites where we currently monitor ocean water quality. With this support, we will be able to monitor all 41 sites along Maui's west and south coasts every three weeks from July 1, 2020 – June 31, 2021. The goal is to maintain sampling at all sites in perpetuity so that after baselines are established, changes can be tracked, and improvements from management actions quantified.
 - c. Provide the leadership, fiscal management and fundraising support to support the entire ocean water quality program for leeward Maui. The Hui's Steering Committee is composed of representatives from the three partner organizations that co-founded the Hui O Ka Wai Ola program (Maui Nui Marine Resource Council, The Nature Conservancy and West Maui Ridge to Reef Initiative) and meets twice a month to evaluate the program and provide direction. A Hui Project Manager oversees the program as a whole and works with four Team Leaders who oversee volunteers in the field and sample processing in the lab. All five of these positions are paid, with one full-time and four part-time, and are integral to maintaining the success of the program and high quality of data.
 - d. Provide quality assured data, project management, and sampling coordination for this water quality program at all 41 sites in leeward Maui.
 - e. Organize, promote and provide two community presentations (one in West Maui and one in South Maui) to share data from our water quality monitoring programs with the public.
 - f. Create, publish and distribute Coastal Water Quality Monitoring Reports per region offering data from 2019.
 - g. Continue to be a model for community-based water quality monitoring, sharing our learnings and methodologies with other communities on Maui, O'ahu and other Hawai'i islands. . We hope our work can lead to the creation of other similar water quality testing programs on these islands.
 - h. Conduct our Maui circumnavigational ocean water quality assessment and provide results to the community. Identify problem areas in need of additional water quality monitoring and present this data to the scientific community,

Department of Health and the County of Maui.

- i. Create a professional webinar showcasing proven alternatives to using herbicides and pesticides to control weeds and pests in and around hotels, resorts, condos, businesses and homes. Provide a free downloadable PDF guide to accompany the free online on-demand webinar. Promote the free webinar and free guide through public service announcements, news releases and social media.

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

July 1, 2020 – June 31, 2021:

Continue our ocean water quality program at 41 locations along South and West Maui's coasts and provide quality-assured data to Hawaii's Department of Health.

Samples will be gathered at each site every 3 weeks along coast of South and West Maui; some testing occurs on site, at mobile labs transported by volunteers; additional testing takes place at labs at Hawaiian Islands Humpback Whale National Marine Sanctuary and Lahainaluna High School by project team leaders; samples are also frozen and prepared for shipment to University of Hawaii School of Ocean and Earth Science and Technology on Oahu for additional nutrient testing. Our Quality Assurance Officer checks over all data and prepares it for submission to the State of Hawaii Department of Health.

Volunteer recruitment (email newsletters, social media, press releases, announcements at meetings) if needed to replace any who leave the Hui O Ka Wai Ola program.

August 2020:

Completion of our 3-5 day circumnavigational assessment of Maui's ocean water quality along the 10 meter depth contour. Document with video and photographs. Supply to the local media with a news release.

September 2020:

Create a professionally filmed webinar showcasing proven alternatives to using herbicides and pesticides to control weeds and pests in and around hotels, resorts, condos, businesses and homes.

October 2020:

Create a free downloadable PDF guide to showcase proven alternatives to using herbicides and pesticides to control weeds and pests in and around hotels, resorts, condos, businesses and homes. This guide will accompany the free online on-demand webinar.

October 2020:

Publication of Hui O Ka Wai Ola's 2019-2020 Coastal Water Quality Monitoring Reports,

with data from all 41 of our monitoring sites, provided as an online download and in printed format for the community.

November 2020:

Promote the free online, on-demand webinar and free guide through public service announcements, news releases and social media.

November 2020:

Presentation on findings of Hui O Ka Wai Ola program presented at South Maui community meeting. Include findings from our circumnavigational assessment of Maui's ocean water quality. Title: "What's in Your Ocean Water? – Findings from a Year of Water Quality Sampling at 39 Maui Beaches and a new Circumnavigational Assessment of Maui's coasts."

November 2020:

Presentation on findings of Hui O Ka Wai Ola program presented at West Maui community meeting. "What's in Your Ocean Water? – Findings from a Year of Water Quality Sampling at 41 Maui Beaches and a new Circumnavigational Assessment of Maui's coasts."

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

- a. Maintain a volunteer staff of 35 or more trained and committed Maui residents throughout the grant period. While our volunteer retention has been good, thanks in part to our staff's work to acknowledge volunteer efforts, we will continue to recruit new volunteers to have replacements ready as needed. We will record the # of people who contact us by email or phone or in person to express interest in volunteering, as well as those who complete our online volunteer application.
- b. We will track all volunteer hours in our program for grant reporting to ensure that volunteer hours are on track to equal or exceed those of 2019.
- c. We will ask volunteers to complete a short survey to gauge their satisfaction with the program in two surveys, one in June and the second in December of 2019.
- d. Our Project Manager for Hui O Ka Wai Ola and part-time Team Leaders will continue to provide ongoing training of all volunteers, as well as overseeing that all data gathering follows our strict Quality Assured Project Plan (QAPP) created in partnership with the State of Hawaii Department of Health Clean Water Branch.
- e. All data will continue to be reviewed and analyzed by the Quality Assurance Manager and Scientific Technical Committee of our Hui O Ka Wai Ola program. Professional public relations and community outreach will be employed to ensure public attendance at our two public presentations of our data. Attendance at our

two public presentations of our data will be measured and compared with past year's presentations. The presentations will be videotaped by Akaku TV Community Media, to be shown on their cable and online channels.

- f. Our Maui circumnavigational study will be conducted by John Starmer, Chief Scientist at Maui Nui Marine Resource Council, following established research protocol.
- g. We will be able to measure viewers of our online webinar about herbicide/pesticide alternatives. If viewership is low, we can increase our promotional efforts.

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.

water samples to be gathered and tested: 697

current volunteers who continue to work with the project in 2021: 35 – 40

volunteers who participate in training: 20

volunteer hours in 2021: 1,097

completed volunteer surveys: 25

Data from 41 sites accepted by the Hawaii Department of Health Clean Water Branch and uploaded to their website.

public meetings held to share our data and findings: 2

attendees at these public meetings: 100+

viewers of our online, on-demand webinar about pesticides and herbicides: 35

downloads of our online PDF guide about pesticides and herbicides: 40

Percent of Maui's coast covered by our boat-based circumnavigational water quality assessment: 100%

IV. Financial

Budget

See attached for:

- Budget request by source of funds
- Personnel salaries and wages
- Equipment and motor vehicles
- Capital project details
- Government contracts, grants, and grants in aid

1. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2021.

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
\$32,041	\$32,041	\$32,040	\$32,040	\$128,162

2. *The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2021:*

See attached.

3. *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.*

None received.

4. *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 2021 for program funding.*

See attached.

5. *The applicant shall provide the balance of its unrestricted current assets as of December 31, 2019.*

\$334,809

BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2020 to June 30, 2021

Applicant: Maui Nui Marine Resource Council, Inc.

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	67,152	25,074	70,239	54,845
2. Payroll Taxes & Assessments	10,652	4,759	13,331	10,410
3. Fringe Benefits	3,358	2,650	3,269	7,641
TOTAL PERSONNEL COST	81,162	32,483	86,839	72,896
B. OTHER CURRENT EXPENSES				
1. Airfare, Inter-Island	0	0	0	0
2. Insurance	0	0	0	0
3. Lease/Rental of Equipment	5,000	0	0	0
4. Lease/Rental of Space	0	0	0	0
5. Staff Training	0	0	0	0
6. Supplies	16,000	5,491	12,730	6,779
7. Telecommunication	0	0	0	0
8. Utilities	0	0	0	0
9. Webinar creation/talent/filming/script etc.	7,000	0	0	0
10. Resource guide creation, design, etc.	13,000	0	0	0
11. Paid public service announcements	6,000	0	0	0
12				
13				
14				
15				
16				
17				
18				
19				
20				
TOTAL OTHER CURRENT EXPENSES	47,000	5,491	12,730	6,779
C. EQUIPMENT PURCHASES	0	0	0	0
D. MOTOR VEHICLE PURCHASES	0	0	0	0
E. CAPITAL	0	0	0	0
TOTAL (A+B+C+D+E)	128,162	37,974	99,569	79,675
SOURCES OF FUNDING		Budget Prepared By:		
(a) Total State Funds Requested	128,162	Anne Riller		808-707-1078
(b) Total Federal Funds Requested	37,974	Name (Please type or print)		Phone
(c) Total County Funds Requested	99,569			43,845
(d) Total Private/Other Funds Requested	79,675	Signature of Authorized Official		Date
TOTAL BUDGET	345,380	LARRY STEVENS Larry Stevens, Board Member/Secretary		
		Name and Title (Please type or print)		

BUDGET JUSTIFICATION:

Circumnavigation: Encircle Maui via chartered boat for 3-5 days, weather dependent. \$1000/day cost offered by Mike Severns, local dive charter company. Probe will be towed from boat at 10 meters to complete transects. Supplies include materials needed to affix probe, safety/waterproofing materials for crew and equipment, additional documentation needs.

Water Quality Sample Analysis, shipping and supplies: All water samples are tested for 13 different parameters, six of which can be done in the field or at our labs. The remaining nutrient parameters testing is performed at University of Hawai'i's SOEST analytical laboratory on O'ahu. Cost is \$50 per sample processed plus the cost of shipping and consumables for collecting the sample. The SOEST lab follows protocols and procedures approved by the State of Hawaii Department of Health.

Webinar development and hosting: Includes on-screen talent/voice, professional filming and editing, hosting and assistance with distribution for webinar about proven ways to reduce use of herbicides and pesticides in residential and commercial applications.

Contracted design, copywriting and website services: Covers cost of writing and designing guide showcasing proven ways to reduce use of herbicides and pesticides in residential and commercial applications. Also covers cost of website page to host the guide and webinar.

Paid public service announcements: for 3 weeks of radio public service announcements at 3 local radio stations to promote new webinar, plus paid ads in local print media.

BUDGET JUSTIFICATION - PERSONNEL SALARIES AND WAGES

Period: July 1, 2020 to June 30, 2021

Applicant: Maui Nui Marine Resource Council, Inc.

POSITION TITLE	FULL TIME EQUIVALENT	ANNUAL SALARY A	% OF TIME ALLOCATED TO GRANT REQUEST B	TOTAL STATE FUNDS REQUESTED (A x B)
Programs and Operations Manager	FULL TIME	\$70,000.00	15.00%	\$ 10,500.00
Hui O Ka Wai Ola Project Manager	FULL TIME	\$54,080.00	39.00%	\$ 21,091.20
Communications, Outreach & Development Mgr.	PART TIME 25hr/wk	\$46,215.00	20.00%	\$ 9,243.00
Administrative Assistant	PART TIME 24hr/wk	\$24,960.00	10.00%	\$ 2,496.00
Lead Scientist	PART TIME 10hr/wk	\$14,950.00	55.00%	\$ 8,222.50
Hui O Ka Wai Ola Team Lead - South Maui 1	PART TIME 4.8hr/wk	\$10,000.00	39.00%	\$ 3,900.00
Hui O Ka Wai Ola Team Lead - South Maui 2	PART TIME 4.8hr/wk	\$10,000.00	39.00%	\$ 3,900.00
Hui O Ka Wai Ola Team Lead - West Maui 1	PART TIME 4.8hr/wk	\$10,000.00	39.00%	\$ 3,900.00
Hui O Ka Wai Ola Team Lead - West Maui 2	PART TIME 4.8hr/wk	\$10,000.00	39.00%	\$ 3,900.00
				\$ -
				\$ -
TOTAL:				67,152.70

JUSTIFICATION/COMMENTS:

Hui Project Manager: Coordinates all aspects of the water quality monitoring program at 41 existing sites. Responsibilities include directing the Team Leaders, managing the volunteer program, coordinating data lead and the steering committee, managing internal budget, labs, equipment, supplies, data oversight and serving as the point of contact for the program.

Program and Operations Manager: Hires and coordinates with contractors, orders materials and supplies, leads meetings, coordinates project work with partners, and manages volunteers. Manages financials, participates on the HOKWO Steering Committee, and assists with community outreach events and reporting. Handles grant administration.

Communications, Outreach and Development Manager: MNMRC's Outreach Manager focuses on building positive public awareness and support, educating the public about the program and importance of clean ocean water, and increasing public engagement. Responsible for social media and production of outreach materials. This position is held by Anne Rillero who has over 20 years experience in this field of work.

Team Leaders: Provide oversight of volunteers and sample collection and processing. Four Team Leaders cover eight monitoring regions of Maui. They ensure volunteers follow proper sampling techniques and safety protocols, coordinate sample transmission to the lab, and assist with training of new volunteers. They also calibrate equipment, check field data for accuracy, and enter data.

Lead Scientist handles design and execution of probe circumnavigation and macroalgae projects including data collection and analysis interpretation.

GOVERNMENT CONTRACTS, GRANTS, AND / OR GRANTS IN AID

Applicant: Maui Nui Marine Resource Council, Inc.

Contracts Total: \$ 1,130,334.30

	CONTRACT DESCRIPTION	EFFECTIVE DATES	AGENCY	GOVERNMENT ENTITY (U.S. / State / Haw / Hon / Kau / Mau)	CONTRACT VALUE
1	NFWF Resilient Communities Category 1: Regional Adaptation "Enhancing Forest Reserve Resiliency through Fuels Management in Pohakea Watershed (HI)"	9/1/19 - 8/31/21	National Fish and Wildlife Foundation	U.S.	\$ 300,000.00
2	NFWF Coral Reef Conservation Fund "Implementing a Stormwater Management Plan in the Pohakea Watershed (HI)"	10/1/2019 - 3/31/2021	National Fish and Wildlife Foundation	U.S.	\$ 45,000.00
	"Maui Coral Reef Sign Project"	1/1/19 - 6/30/20	Hawaii Tourism Authority	Hawaii	\$ 47,144.00
3	"Coastal Water Quality Monitoring and Ma'alaea Bay Water Quality Projects"	1/1/20 - 12/31/20	County of Maui Office of Economic Development	Maui, HI	\$ 225,000.00
4	"Educating and Involving Maui Visitors and Residents in Protecting Coral Reefs"	1/1/20 - 12/31/20	County of Maui Office of Economic Development	Maui, HI	\$ 100,000.00
5	HTA Aloha Aina Program: "Fire and Oysters: Improving Ma'alaea Bay's Ocean Water Quality"	1/1/20 - 12/31/20	Hawaii Tourism Authority	Hawaii	\$ 85,000.00
6	"Restoring the Coral Reefs of Maui Nui via Mauka and Makai Efforts"	10/1/18 - 12/31/19	County of Maui Office of Economic Development	Maui, HI	\$ 169,000.00
7	"Coral Reefs Health and Ocean Water Quality Education Programs For Maui Visitors and Visitor Industry"	10/1/18 - 12/31/19	County of Maui Office of Economic Development	Maui, HI	\$ 40,000.00

8	HTA Aloha Aina Program: "Monitoring and Protecting Ocean Water Quality Along Maui's South and West Shores to Benefit Coral Reef Health"	1/1/19 - 12/31/19	Hawaii Tourism Authority	Hawaii	\$ 44,000.00
9	NFWF Coral Reef Conservation Fund "South Maui Community Water Quality Program"	6/1/17-12/31/18	National Fish and Wildlife Foundation	U.S.	\$ 75,190.30
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V. 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.

Our ocean water quality monitoring program has successfully completed three years of data collection. Our data has been accepted without hesitation by the Hawai'i Department of Health and U.S. Environmental Protection Agency, thanks to our demonstrated adherence to the Quality Assurance Project Plan (QAPP) developed by MNMRC, The Nature Conservancy, and West Maui Ridge to Reef Initiative, working with the Hawaii State Department of Health, which guides all training and testing efforts.

During the past three years, we have successfully attracted and managed funding and in-kind support from government, foundations and private sources. Maui Nui Marine Resource Council will continue to work with our partners to train volunteers, provide oversight, analyze samples on island and ship other samples to our partner lab on O'ahu for more detailed analysis. Following QAPP procedures ensures that the data gathered will be useful to State and County agencies and that citizen-based monitoring and data collection will fulfill the public outreach/involvement requirements of Maui County's Stormwater Management Plan.

Our program has received repeated front page coverage in The Maui News, Maui Now, Lahaina News, and our staff has appeared on numerous local radio shows and on Akaku TV.

Maui Nui Marine Resource Council has also conducted numerous public outreach programs to educate the public about our coral reefs, water quality and marine environment, including our monthly presentations featuring local experts at The Sphere at Maui Ocean Center, presentations at 'Iao Theater by Nainoa Thompson and local coral reef scientists, radio and tv appearances, local radio public service announcements, articles in local magazines, news releases and the installation of coral reef displays at Kahului Airport.

2. Facilities

We provide water quality monitoring mobile labs with equipment and supplies for our volunteer teams to transport in their cars and use for onsite testing. Part of the overall cost of conducting this program includes the cost of the equipment and supplies of these mobile testing labs.

Additional testing takes place at indoor labs donated by the Hawaiian Islands Humpback Whale National Marine Sanctuary office in Kihei and at Lahainaluna High School. Supplies and equipment are also stored at these two locations. Part of the overall cost of conducting this program includes the cost of equipment and supplies needed for these indoor labs. Maui Nui Marine Resource Council has an active Memorandum of Agreement formalizing our partnership with the Hawaiian Islands Humpback Whale National Marine Sanctuary.

Final testing for nutrients (nitrogen, phosphorous, etc.) takes place at the University of Hawai'i School of Ocean and Earth Science and Technology on O'ahu. Samples are packaged, frozen and shipped to this facility for nutrient testing. Part of the overall cost of conducting this program includes the cost of this nutrient testing and associated sample shipping.

Free meeting and presentation space is provided to us by the Hawaiian Islands Humpback Whale National Marine Sanctuary, Pacific Whale Foundation and Maui Ocean Center.

VI. Personnel: Project Organization and Staffing

1. Proposed Staffing, Staff Qualifications, Supervision and Training

MNMRC's Co-founder and Chair is **Robin Newbold**. She is a past professor of marine biology and oceanography at Saddleback College in California. Beginning in 1995, Robin led and participated in coral reef research efforts around Maui Nui, and spearheaded the introduction of REEF to Hawaii to foster reef stewardship in Maui. She has made over 1000 research SCUBA dives at throughout the Pacific, and is committed to community-based reef restoration.

MNMRC's Programs and Operations Manager, **Amy Hodges**, oversees all MNMRC projects and administration. She has worked with MNMRC for 7+ years and has a wide variety of skills from grant management to project implementation.

Anne Rillero serves as the Communications, Outreach, and Development Manager for MNMRC. She has a long, successful history of community outreach on Maui, serving as the Communication Director for Pacific Whale Foundation for over 20 years. Her work focuses on building positive public awareness and support, educating the public about issues relating to marine resources throughout Maui Nui, increasing public engagement, and raising funds and maintaining positive donor relations to allow MNMRC's programs and initiatives to grow and meet the needs of Maui Nui.

James Strickland is the Hui O Ka Wai Ola Project Manager and is responsible for the running of the Hui. He is responsible for the day to day aspects as well as guiding the Hui towards the goals set by the Steering Committee. He does volunteer outreach, training and will go out with the sampling teams or be in the lab as needed. He works with the Team Leaders to maintain lab equipment and inventory. He is also in charge of our community outreach and maintaining all of our standard operating procedures and Quality Assurance Project Plan (QAPP) with the Hawai'i Department of Health.

Cathy Maxwell is our West Maui Team Leader and West Maui Regional Coordinator. Cathy has been part of Hui O Ka Wai Ola since it began in early 2016. She was a member of one of the original teams that tested water quality in West Maui, helping to collect samples at 6 sites from Olowalu to Polanui. Recently, Cathy has taken on the role of Team Leader to help train volunteers for 6 new sites in West Maui and 12 new sites in South Maui, and to provide lab and logistical support for the teams testing water quality at the 12 northernmost sites from Honolua Bay to Wahikuli Beach Park.

Tiara Stark is our South Maui Team Leader for two of the four South Maui teams, responsible for water quality testing at 10 sites across North Kīhei and Wailea. Given her background in and passion for marine science and conservation, this position is a natural fit for her. She is primarily responsible for logistics and lab support, including preparing field supplies and equipment, processing samples after collection, and volunteer coordination. She often joins volunteers in collection and analysis of coastal water samples in the field. In addition to working with the Hui, Tiara interns with The Nature Conservancy's Maui Marine Program.

Mitch Brown is our second South Maui Team Leader. **Bruce Banker** is our other West Maui Team Leader. Starting in early 2017 as a Hui volunteer field sampler, Bruce was part of the original team sampling sites from Honolua Bay to Kahana Village in West Maui. As a Team Leader, Bruce is now providing laboratory, logistic and field support for water quality sampling teams in West Maui. After almost 40 years in the environmental field, Bruce retired and moved to Maui..

Bill Rathfon is our Data Manager (Volunteer). He has been supporting Hui O Ka Wai Ola by providing technical support. His background as a software developer and database administrator naturally lead to the role of Data Manager, assuring that the data that are reported to the public and governmental agencies are accurate and consistent. He has also provided imagery, sometimes using a drone, documenting particularly bad drowndown water runoff events or collection activities of the group.

Steering Committee

Hui O Ka Wai Ola's Steering Committee guides volunteer efforts. Its members provide technical expertise and coordinate with the Department of Health to determine where, how, and when water quality is tested, and also what pollutants to look for. The committee is comprised of representatives from organizations that formed Hui O Ka Wai Ola to help ensure the public has access to accurate information on water quality.

Dana Reed (DB Consulting) is a Committee Member and Quality Assurance (QA) Officer (Volunteer). She is responsible for data analysis and works with the technical committee to report out to the public on their findings.

Tova Callender (West Maui Ridge to Reef Initiative) is a Committee Member (compensated by West Maui Ridge to Reef Initiative). Tova supports progress in formalizing the organizational architecture, and weighing in on issues that arise as the Hui grows. As the coordinator for the West Maui Ridge to Reef Initiative, she also looks for synergies, connections to funding, and related efforts linked to West Maui, and has an eye towards how water quality monitoring results point to issues that can be addressed through mitigation projects in the watershed.

Emily Fielding (The Nature Conservancy) is a Committee Member and Program Manager (compensated by The Nature Conservancy). Through her work with the Hui, Emily is both the Project Manager for the Quality Assured Project Plan (QAPP) and the Principal Investigator for the National Fish and Wildlife Foundation funding that helped kick-start Hui O Ka Wai Ola's initial water quality sampling in West Maui at the NOAA Priority Watersheds of Wahikuli and Honokowai. Emily helps organize and facilitate the Steering Committee and their work to expand the Hui's sampling efforts to all of West and South Maui. She also leads the Committee in its strategic planning and organizational processes.

Kim Falinski (The Nature Conservancy) is also a Committee Member and Lead Scientist (compensated by The Nature Conservancy). Kim has worn lots of hats within the Hui as the organization grows, from helping to write, assemble and organize the

Quality Assured Project Plan (QAPP), to purchasing initial equipment for the lab, to developing budgets to assess how much the program would cost to run. She continues to develop the QA process with help from the Hui and the state Department of Health, works directly with S-LABs on data methods and procedures, enters and checks data from volunteers, and analyzes data for reporting and publishing. In other words, she likes data, and is working on strategies that makes data processing easier for everyone! She helps to design and teach volunteer training courses works to promote the Hui's work, and hopes that the Hui model will help other communities.

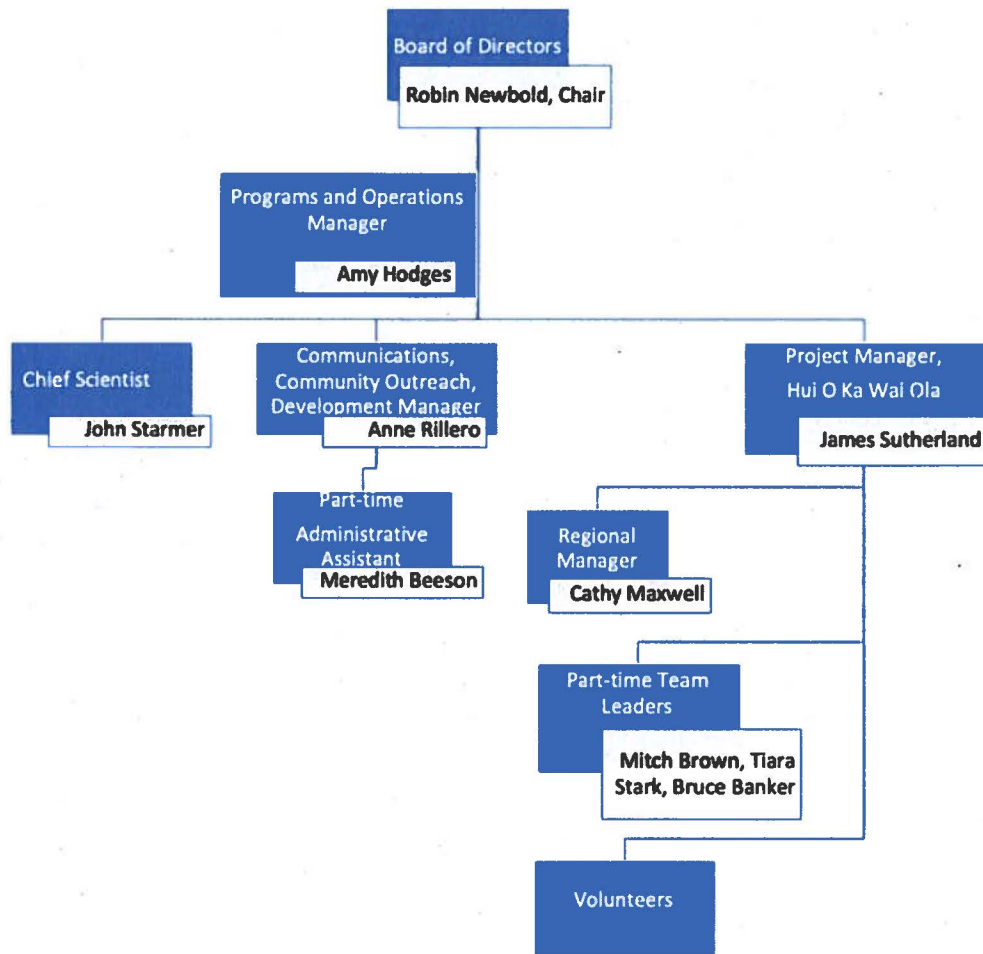
Laurence “Larry” Stevens (Maui Nui Marine Resource Council) is a Committee Member (Volunteer) and our Board of Directors Secretary. Larry is a veteran software industry executive, who now makes Maui his home. He has helped establish the Maui Nui Marine Resource Council's online presence and consults on management and planning. He also cleans up beaches! In addition to serving on the Hui's Steering Committee and on MNMRC's Board of Directors, he is on the board of the Hawaiian Islands Land Trust.

Alana Yurkanin (The Nature Conservancy) is a Committee Member and our Hui Communications & Safety Coordinator (compensated by The Nature Conservancy). Alana supports the Steering Committee and the amazing team of water quality volunteers by bringing to the table outreach and communications expertise. She designed the informational business card you may be handed if you pass a sampling group on the beach, and helps to continually create and manage the content, look, and feel of the Hui O Ka Wai Ola website. She also works to keep volunteers safe by developing protocol for accident prevention and management for field and lab work, and helps with tracking volunteer hours for grant reporting.

John Starmer is our Chief Scientist at Maui Nui Marine Resource Council. John is a coral reef biologist with over a decade's experience in research and monitoring with interagency coordination in the Pacific. Among other projects, John developed a long-term coral reef monitoring program for the Commonwealth of the Northern Marina Islands as a key part of their Coral Reef Initiative. He provided leadership to integrate and coordinate CRMO monitoring activities with other local agency activities through the CNMI "Marine Monitoring Team."

2. Organization Chart

Please see next page



Hui-O Ka Wai-Ola is a project of Maui Nui Marine Resource Council. We provide all administrative and financial management of this project. The project is supported by Hui O Ka Wai-Ola Steering Committee and Scientific Committee, comprised of volunteer representatives from The Nature Conservancy and West Maui Ridge to Reef. ¶

3. Compensation

Annual salary range paid by the applicant to the three highest paid officers, directors, or employees of the organization by position title, not employee name.

Programs and Operations Manager: \$70,000

Hui O Ka Wai Ola Project Manager: \$54,080

Communications, Community Outreach and Development Manager: \$46,215

VII. Other

1. Litigation

No pending litigation.

2. Licensure or Accreditation

None.

3. Private Educational Institutions

This grant will NOT be used to support or benefit a sectarian or non-sectarian private educational institution.

4. Future Sustainability Plan

A plan for funding after fiscal year 2020-21 the activity funded by the grant if the grant of this application is:

- (a) Received by the applicant for fiscal year 2020-21, but*
- (b) Not received by the applicant thereafter.*

Maui Nui Marine Resource Council has a successful fundraising track record. In addition to attracting support from local and national businesses (Maui Ocean Center, Lush Cosmetics, Duke's Maui, Pacific Whale Foundation, The Westin Maui, Hawaiian Sol, Hawaiian Paddle Sports, Pride of Maui, Maui Classic Charters and others), we have successfully applied for and received grants from Hawai'i Tourism Authority's Aloha 'Aina Program (2019 and 2020), the County of Maui Office of Economic Development, National Fish and Wildlife Foundation, USDA Department of Agriculture, as well as from smaller foundations including Napili Bay and Beach Foundation, North Beach-West Maui Benefit Fund and Makana Aloha Foundation.

Maui Nui Marine Resource Council also solicits donations on our website, www.mauireefs.org, offering premium gifts, membership options, and more.

During 2020, we are introducing a new effort to improve ocean water quality in Ma'alaea Bay through upslope work in the 4,000 acre Pohakea watershed and through the installation of caged oysters in Ma'alaea Bay. Some of our major funders chose to fund the launch of this new project in 2020, which is why we ended up with a shortfall of funding for our ongoing Hui O Ka Wai Ola ocean water quality monitoring program.

Throughout 2020, we are stepping up our fundraising efforts, to build on past successes and ensure funding for all of 2021 and beyond through these steps:

- We will be approaching all past and current donors, meeting with larger donors and asking for commitments for beyond 2021.

- We are regularly attracting new donors through our our free monthly presentations (attended by about 80 – 100 people each month) at The Sphere at Maui Ocean Center. These events continue to attract new faces to our 'ohana (family). During each of these presentations, we include information about our projects and programs and request donations. As a result, we receive surprise donations from individuals or foundations that we had never heard of before.
- Continuing to raise our organization's visibility through our events, news releases, interviews and talks at local civic and community groups.
- Seeking new sources of funding, including foundations with an interest in marine conservation and water quality.