THE THIRTIETH APPLICATION CHAPTER 42F, HAWAI	FOR GRANTS	i	
Type of Gra	nt Request:		
	Capital		
Legal Name of Requesting Organization or Individual:	Dba:		
Kumano I Ke Ala o Makaweli	Kumano I Ke Ala		
Amount of State Funds Reques	sted: \$ <u>363,000</u>	<u></u> **	
Brief Description of Request (Please attach word document t	o back of page if extra spa	ace is needed):
The Mahi 'Ai Kalo Revitalization Project will engage commun opportunities that deepen a pilina with the 'āina and provide how to grow kalo and other indigenous food crops, manage 50 acres of dormant and neglected agricultural land on 2 site Waimea River, and Kukuiloloa in the fields of Kawailoa on 'C community members and aspiring farmers to continue buildin and land stewardship to strengthen food security and climate	the skills and knowledge n ands and mitigate erosion es, Māhaʻihaʻi in Waimea, I bahuʻs North Shore. The re ng a community of practice	necessary to a or loss. This Kauaʻi along ti estoration wor	loha 'āina, including project will restore he banks of the k will engage
Amount of Other Funds Available: State: \$ Federal: \$	Total amount of State 0 Fiscal Years: \$ 200,000	Grants Recei	ved in the Past 5
Federal: \$ County: \$	Unrestricted Assets:		
Private/Other: \$	\$ <u>506,784</u>		
New Service (Presently Does Not Exist):	Existing Service (P Mailing Address:	resently in	Operation): 🔳
501(C)(3) Non Profit Corporation	PO Box 181		
Other Non Profit	City:	State:	Zip:
Other	Waimea	н	96796
Contact Person for Matters Involving this Application	on		
Name: Kaina Makua	Title: Executive Director		
Email: kaina@kumanoikeala.org	Phone: 808-346-9463		
Kaina Makua	, Executive Director	1/1	6/24

Authorized Signature

Name and Title

Date Signed

Revised 2024.12.04

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.

- 1) Hawaii Compliance Express Certificate (If the Applicant is an Organization)
- 2) Declaration Statement
- 3) Verify that grant shall be used for a public purpose
- (1) Background and Summary
- 5) Service Summary and Outcomes
 - 6) Budget

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- 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)
- 7) Experience and Capability
- 8) Personnel: Project Organization and Staffing

Kaing Makua, Executive Dir. 1/16/25

Rev 11/25/2024

Application for Grants



STATE OF HAWAII STATE PROCUREMENT OFFICE

CERTIFICATE OF VENDOR COMPLIANCE

This document presents the compliance status of the vendor identified below on the issue date with respect to certificates required from the Hawaii Department of Taxation (DOTAX), the Internal Revenue Service, the Hawaii Department of Labor and Industrial Relations (DLIR), and the Hawaii Department of Commerce and Consumer Affairs (DCCA).

Vendor Name: KUMANO I KE ALA O MAKAWELI

Issue Date: 01/16/2025

Status:	Compliant		
Hawaii Tax#:	26570317-01		
New Hawaii Tax#:	GE-1915547648-01		
FEIN/SSN#:	XX-XXX0959		
UI#:	No record		
DCCA FILE#:	250379		

Status of Compliance for this Vendor on issue date:

Form	Department(s)	Status
A-6	Hawaii Department of Taxation	Compliant
8821	Internal Revenue Service	Compliant
COGS	Hawaii Department of Commerce & Consumer Affairs	Exempt
LIR27	Hawaii Department of Labor & Industrial Relations	Compliant

Status Legend:

Status	Description
Exempt	The entity is exempt from this requirement
Compliant	The entity is compliant with this requirement or the entity is in agreement with agency and actively working towards compliance
Pending	A status determination has not yet been made
Submitted	The entity has applied for the certificate but it is awaiting approval
Not Compliant	The entity is not in compliance with the requirement and should contact the issuing agency for more information

DECLARATION STATEMENT OF APPLICANTS FOR GRANTS PURSUANT TO CHAPTER 42F, HAWAI'I REVISED 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, Hawai'i 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, Hawai'i 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; and
- 3) If the applicant is a non-profit organization, it meets the following requirements pursuant to Section 42F-103, Hawai'i 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.
- 4) The use of grant-in-aid funding complies with all provisions of the Constitution of the State of Hawaii (for example, pursuant to Article X, section 1, of the Constitution, the State cannot provide "... public funds ... for the support or benefit of any sectarian or nonsectarian private educational institution...").

Pursuant to Section 42F-103, Hawai'i 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.

Kumano I Ke Ala o Makaweli

(Typed Name of Individual or Organization)	1/16/25	
(Signature)	(Date)	
Kaina Makua	1/16/25	
(Typed Name)	(Title)	

Rev 8/30/23

Application for Grants

Application for Grants

If any item is not applicable to the request, the applicant should enter "not applicable".

I. Certification – Please attach immediately after cover page

1. Hawaii Compliance Express Certificate (If the Applicant is an Organization)

If the applicant is an organization, the applicant shall submit one (1) copy of a Hawaii Compliance Express Certificate from the Comptroller of the Department of Accounting and General Services that is dated no earlier than December 1, 2023.

2. Declaration Statement

The applicant shall submit a declaration statement affirming its compliance with <u>Section</u> <u>42F-103</u>, <u>Hawaii Revised Statutes</u>.

3. Public Purpose

The applicant shall specify whether the grant will be used for a public purpose pursuant to <u>Section 42F-102</u>, <u>Hawaii Revised Statutes</u>.

II. 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;

Kumano I Ke Ala (KIKA) is a non-profit organization located in Waimea, Kaua'i. KIKA's vision is to elevate indigenous knowledge to revitalize traditional food systems to save our planet. KIKA's mission is to build and perpetuate a foundation of Aloha 'Åina through Native Hawaiian education programming to grow self-aware, self-determined, self-directed critical thinkers for a sustainable West Hawai'i.

KIKA is Waimea Valley on Kaua'i. Waimes Valley is located on the west side of the island of Kaua'i. Once home to a thriving agricultural community where lo'i kalo (wetland taro patches) flourished. As time has passed, the industry of mahi 'ai kalo (taro farming) and other traditional forms of Native Hawaiian agriculture diminished greatly. However, as there is an increasing need for food security throughout Hawai'i and communities are clamoring to find ways to implement sustainable means of agriculture, the footprint of what once existed in this region is being reviatalized.

KIKA runs a series of programs centered on restoration of natural and cultural resources, traditional and contemporary agriculture, cultural education, youth

mentorship, and environmental stewardship. The organization serves over 3,000 students and volunteers each year and is has grown from one 10 acre lo'i kalo restoration project to 4 agricultural restoration sites totaling 100 acres on 2 islands.

In 2023, KIKA's on-farm education included 19 field trips from area schools (K-12) and includes 563 elementary students, 341 middle school students, and 219 high school students. 8 high school students also completed 12-week internship working on-farm 10 hours per week. Finally, KIKA held 15 community work days where 410 volunteers contributed over 1,400 hours to malama 'āina and harvest kalo and lū'au leaf from the lo'i and dryland mala.

2. The goals and objectives related to the request;

The goals of the Mahi 'Ai Kalo Revitalization Project are as follows:

- 1. Restore 50 acres of agricultural land at two sites for cultivation of indigenous Hawaiian food crops, or "kūpuna crops", utilizing agroforestry techniques at two agricultural sites on two islands, Kaua'i and Oahu.
- 2. Coordinate 10 community work days where volunteers learn to restore 'āina to productivity by clearing invasive species, preparing farm lands including lo'i and dryland parcels and utilizing agroforestry planting techniques to revitalize the envrironment.
- 3. Engage 20 aspiring farmers as interns, who will be provided access to 'āina and water to farm while learning the foundational steps to rehabilitating land to a productive state. They will observe 'āina and the environment, make decisions and implement actions that are consistent with aloha 'āina and the 'ike kupuna or traditional ecological knowledge that are part of the farming practices we teach and will increase their capacity as kia'i 'āina.

3. The public purpose and need to be served;

This project aligns with multiple community plans including the West Kaua'i Community Plan and the North Shore Sustainable Communities Plan by working towards goals set forth in each of those plans. Those goals include increased local food security and selfreliant food systems, economic development in the agricultural sector to retain the agricultural identity of these communities, and building community capacity to steward natural resources in regenerative ways. All of these purposes will contribute to thriving, sustainable economies in both West Kaua'i and Central/North Oahu.

4. Describe the target population to be served; and

The target population to be served is youth ages 15-25 and West Kauai residents who will experience increased economic activity and job creation in their community created

by Kumano's farm expansion efforts. West Kaua'i's population is approximately 37% Native Hawaiian. It is one of the largest concentrations of Native Hawaiians in the state. Native Hawaiians are also a target population as Kumano's farming practices are grounded in traditional ecological knowledge rooted in Native Hawaiian farming and irrigation methods. This project will elevate and amplify the effort to increase regenerative agriculture and food security across Hawai'i.

5. Describe the geographic coverage.

Picutured in the map below is Waimea Town and portions of the valley on Kaua'i. The map highlights 3 Farm sites controlled by KIKA. Kakalae, a 12-acre lo'i site in Makaweli Valley, Pe'e Kaua'i, a 12 acre mala or dry-land site in Waimea town, and the area known as Māha'iha'i, a 35 acre-site in which over 20 acres of lo'i will be restored and a Native forest will be re-established. Attached is Appendix A which is a Conservation Plan for the Māha'iha'i parcel prepared by USDA-NRCS in May 2020.



Attached in Appendix B is the Kawailoa Fields Revitalization Plan for the Kūkuiloloa parcel prepared by the University of Hawai'i Community Design Center in January 2025. The plan highlights the farm site at Kukuiloloa, a 40 acre parcel leased from Kamehameha Schools on the Northern slopes of 'Oahu.

Both Māha'iha'i and Kukuiloloa sites are being revitalized to increase commercial production of kalo and to train and grow a new generation of farmers and land stewards.

III. 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;

Mahi 'Ai Kalo Revitalization Project Objectives:

1. Restore 50 acres of agricultural land at two sites for cultivation of indigenous Hawaiian food crops, or "kūpuna crops", utilizing agroforestry techniques at two agricultural sites on two islands, Kaua'i and Oahu.

2. Coordinate 10 community Aloha 'Āina Learning Days for community to attend cultural and educational workshops to learn skills, mo'olelo, practices and other information related to increased resiliency and effective land stewardship in a changing climate, where volunteers learn to restore 'āina to productivity by clearing invasive species, preparing farm lands including lo'i and dryland parcels and utilizing agroforestry planting techniques to revitalize the envrironment.

3. Engage 20 aspiring farmers as interns, who will be provided access to 'āina and water to farm while learning the foundational steps to rehabilitating land to a productive state. They will observe 'āina and the environment, make decisions and implement actions that are consistent with aloha 'āina and the 'ike kupuna or traditional ecological knowledge that are part of the farming practices we teach and will increase their capacity as kia'i 'āina.

This project advances KIKA's strategic objectives (see Appendix C, KIKA 5 year strategic plan), as well as the statewide initiative of 'Āina Aloha Economic Futures, and the internationally aligned Sustainable Development Goals under the Aloha Plus Challenge. This project increases the ability of kānaka to access agriculturlands, practice aloha 'āina in meaningful ways that result in and increased capacity to grow food, and connect to the land in a way that is fundamental to our identity as Native Hawaiians, improving the physical, mental and spiritual health of kānaka, which increases a capacity for adaptation and resilience in times of change.

Revitalizing Mahi 'Ai Kalo also is drivent by five guiding principles as follows:

- Aloha 'Āina: This project sits on a foundational understanding aloha 'āina is a foundational concept for Native Hawaiian culture, and an essential component to the Native Hawaiian identity. It acknowledges that caring for the land strengthens its ability to care for us, but it also recognizes that as Native Hawaiian access to land has diminished, and as we increase access, we increase the strength and resilience of our community. The project embraces the notion that regularly reconnecting Native Hawaiians in West Kauai to the land and the culture that springs from it strengthens us physically, mentally, and spiritually, allowing us to be more adaptable and resilient in the face of overwhelming change.
- NHO: KIKA is a Native Hawaiian community-driven NHO. Most of the governing board members and staff are members of the West Kauai Native Hawaiian community.
- Multi-Sector / Multi-Generational Approaches: KIKA, an NHO, has partnered with two of the state's largest landowners, Kamehameha Schools and Gay & Robinson, to turn the vacant parcels into centers for growing kalo and reconnecting Hawaiians to 'āina. Community engagement and individual volunteers are a key component to the project's success, as is multi-generational learning strategies and opportunities. The project involves cultural preservation, traditional foods, education, and youth engagement.
- Cultural Knowledge Systems / Ingenuity: The approach to the project ensures that as the land is being restored, so is the pilina between the land and the people working on it. The pace of the project and community work days allow participants to observe the land in different times of the year, share mo'olelo, and learn from the kūpuna and other regional experts in formal and informal settings.
- Advance Climate Resilience: This project centers traditional ecological knowledge (TEK) associated with land stewardship and food production. We also call this 'ike kūpuna (ancestral knowledge) in 'ōlelo Hawai'i. TEK is now widely considered one of hte strongest components to inform our respose to the climate crisis as the the frequency of severe weather events increases, western science is now acknoweldging that we must look to indigenous knowledge to better understand how to decrease the severity of loss and damage and how we develop greater resiliency strategies combat such events.

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

Workplan, Project Activities

Following is a detailed workplan and timeline for each objective, with expected outcomes, a description of the associated activities, who is primarily responsible for ensuring the activity is completed, and the start and months of the activity relative to the start of the project date.

Objective 1	Restore 50 acres of agricultural la for cultivation of indigenous Hawa crops, or "kūpuna crops", utilizing techniques at two agricultural sites islands, Kaua'i and Oahu.	iian food agrofore	
Expected Outcome(s)	 Reforested areas will prov culturally significant plants resources appropriate to th Low maintainance required reforested areas, as indige invasive plants are better s within the environment's p resources. 'Āina is better able to withs change impacts like storm due to an improved capaci water in place, thereby recorreducing impacts of erosio 	, and oth ne area. ments in souited to arameter stand clir s and flo ity for ret lucing	er d non- living rs and nate oding
		Proj Mon	
Activity	Position Responsible	Start	End
Survey KIKA staff and interns to determine how much knowledge they posses prior to working on this project to establish a baseline to measure against to determine growth at the end of the project.	Executive Director, Project Manager	1	4
Coordinate, train and supervise KIKA staff and interns to safely use heavy duty equipment like excavators, skid steers, and tractors followed by light duty equipment including chainsaws, mowers and weed whackers to clear lands of unwanted vegetation in accordance with the schedule. Coordinate Community Work Days and other resources for replanting at both sites.	Executive Director Education / Project Manager/ Outreach Coordinator	1	12
Document project activities for use in social media stories, required reporting and other educational materials about restoring the 'āina to productive use.	Communications Coordinator Ad / Marketing Specialist	1	12

Objective 2	Coordinate 10 community Aloha 'Āina for community to attend cultural and en workshops to learn skills, mo'olelo, pra other information related to increased effective land stewardship in a changin where volunteers learn to restore 'āina by clearing invasive species, preparing including lo'i and dryland parcels and agroforestry planting techniques to rev environment.	ducationa actices ar resiliency ng climate a to produ g farm lar utilizing vitalize the	al nd v and e, lictivity nds
Expected Outcome(s)	 10 community work days with 3 participants per day learn basic restoration skills from kupuna a Increased participant connectiv 'āina. 'Ike upuna is transmitted inter in culturally appropriate ways. 	ʻāina nd others ity with th	е
		Proj Mon	
Activity	Position Responsible	Start	End
Identify 10 tentative dates for community work days, taking into account the 'āina restoration schedules. Identify kupuna or other experts with 'āina restoration expertise to share at the work day. Revise as necessary.	Executive Director Education / Project Manager/ Outreach Coordinator	1	4
Prepare materials (flyers, social media posts, etc) to notify the Native Hawaiian community of the opportunity to learn and participate in a community work day.	Marketing Specialist	2	12
Coordinate and conduct 10 community work days (generally once a month) in accordance with the work needed based on restoration schedules. Survey participants to gauge satisfaction and engagement.	Executive Director Education / Project Manager/ Outreach Coordinator	2	12
Document activities for use in social media stories, required reporting and other educational materials about restoring the	Communications Coordinator Ad / Marketing Specialist	2	12

'āina to productive use.

Objective 3 Expected Outcome(s) Activity	 Engage 20 aspiring farmers to sinterns, who will provided access water to farm while learning the steps to rehabilitating land to a state. 20 interns learn 'āina res basic mahi 'ai kalo skills Position Responsible 	s to 'āina foundati productiv	onal /e and ect
Initiate Phase 1 of internship, 12 week internship for part-time interns. Conduct interviews and select the 10 interns for the period. Survey interns to establish baseline knowledge.	Executive Director Education / Project Manager/ Outreach Coordinator	1	2
Engage interns in on-farm work to learn from kupuna, KIKA staff and other mentors how to farm and restore neglected lands to productive use. Interns will work for 12 weeks up to 19 hours per week	Executive Director Education / Project Manager/ Outreach Coordinator	2	6
Conduct post-internship surveys to assess growth and pilina with 'āina. Compile results and write report memorializing the internship results.	Executive Director Education / Project Manager/ Outreach Coordinator	5	6
Initiate Phase 2 of internship, 12 week internship for part-time interns. Conduct interviews and select the 10 interns for the period. Survey interns to establish baseline knowledge.	Executive Director Education / Project Manager/ Outreach Coordinator	6	12
Engage interns in on-farm work to learn from kupuna, KIKA staff and other mentors how to farm and restore neglected lands to productive use. Interns will work for 12 weeks up to 19 hours per week	Executive Director Education / Project Manager/ Outreach Coordinator	6	12
Conduct post-internship surveys to assess growth and pilina with 'āina. Compile results and write report memorializing the internship results.	Executive Director Education / Project Manager/ Outreach Coordinator	11	12

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

KIKA will conduct quarterly evaluations to include:

Performance Measure	Monitoring Tool	Target
Objective 1 Outcomes:	Quarterly reports	20 acres at Māha'ihai prepared
50 acres restored and ready to	documenting the number	for wetland kalo cultivation
plant or in cultivation with	the acres restored with	
indigenous, kūpuna crops by	before and after pictures	15 acres at Māha'iha'i cleared
the end of the one-year project	along.	and Native reforestation
period.		underway.
Low maintenance requirements		15 acres at Kūkuiloloa cleared,
after reforestation is complete.		irrigation installed and
Improved soil retention.		
Objective 2 Outcomes:	Sign in sheets	Completed 10 community work
Coordinate 10 community	Surveys	days by the end of the 12 month
Aloha 'Āina Learning Days		period, 80% of those surveyed
		indicated they learned new skills.
		SKIIIS.
		80% of participants surveyed
		report an increased connectivity
		to 'āina.
	Surveys	
		80% of participants surveyed
		indicate a stronger desire to eat more local indigenous crops
		more local mulgenous crops
	Survey	
Objective 3 Outcomes:	Pre and Post Surveys	By the end of project month 6,
Engage 20 aspiring farmers as		all Phase 1 interns will have
interns		shown an increase in farming
		and 'āīna management skills and knowledge.
		and knowledge.
		By the end of project month 12,
		all phase 2 interns will
		demonstrate improved
		knowledge / skills.

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.

KIKA will generate quarterly reports that will compile all information outlined in the performance measures above and make those reports available to the expending agency to ensure transparency and completion of the project in a timely fashion. KIKA will also make available any reports that indicate necessary changes to workplan, budget, or timeline that may be needed to accommodate unexpected events.

IV. 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)
- 2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2026.

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
181,500			181,500	363,000

3. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2026.

Secured

Federal: Office of Native Hawaiian Relations: \$125,000 (Reforestation/Agrofrestry and visitor education) Private: Native American Agricultural Foundation: \$100,000 (Reforestation/Agroforestry)

Pending:

Federal: USDA RFSI: \$473,000 (For food manufacturing upgrades) Federal: National Forest Service: \$250,000 (Reforestation/Agroforestry) County: City and County of Honolulu Grant-in-Aid: \$150,000 (Reforestation/Agroforestry – Food System/Security Development) Private Funding: \$200,000 (Reforestation/Agroforestry – Food System/Security Development)

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 – no tax credits have been granted to KIKA in last 3 years.

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 2026 for program funding.

See Government Grants Sheet Attached

6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2023.

\$506,784

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.

KIKA is an agriculture and aina-based education organization. Between its management staff, there are 40 plus years of farming experience on West Kaua'i and 2 certified teachers, that combined, have 20 years of teaching experience. The organization is serving 3,000 plus volunteers and hosting 25 paid youth interns annually. KIKA is producing and processing 100,000lbs of kalo annually and is now managing 100 acres of agricultural land across 4 sites on 2 islands. KIKA is currently employing 20 full-time staff and is a job creator in West Kaua'i.

In the areas of restoration, agriculture, education, and community development, KIKA has partnered with numerous organizations to carry out work that has delivered significant results and outcomes. Some of those partners that can verify the work product and capacity of KIKA are: County of Kaua'i, Kamehameha

Schools, Waimea High School, Waimea Canyon Middle School, Hawai'i Community Foundation, HMSA Foundation, Consuelo Foundation, Department of Vocational Rehabilitation, Alu Like, Council for Native Hawaiian Advancement, GoFarm, and Kilohana Canoe Club to name a few.

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.

Currently, KIKA opreates in agricultural programs and commerical farming operations on 4 sites on 2 islands. There are 3 farm sites totaling 58 acres leased in Waimea, Kaua'i and one site totaling 40 acres leased on Oahu. KIKA currently leases 3 commercial spaces for value-add kalo production, office and retail space in Waimea, Kaua'i. Our current plan is to purchase the parcel where the value-add manufacturing facility is currently located. This property is mixed-use property with both commerical and residential structures that will serve as a sustainable investment for KIKA.

VI. 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.

KIKA staff and Board of Directors has oversight over all KIKA affairs including contracts related to this request. A competitive application process will be utilized to identify and contract a Project Manager to support the implementation of this project.

Below is a brief description of the key staff working on this project.

Kaina Makua, Executive Director

Born and raised in Waimea, Kaina Makua is a lifelong Kalo Farmer, Cultural Practitioner, Hawaiian Immersion Teacher and the Executive Director of Kumano I Ke Ala. Rooted in the traditional values of 'Ike kūpuna which have nurtured and guided him throughout his life, Makua works through the non-profit to restore Native Hawaiian practices centered around the revitalization of kalo farming in West Kaua'i. Under Kiana's leadership, Kumano I Ke Ala has restored and rehabilitated 22 acres of actively stewarded farmlands in Waimea and Makaweli Valley.

After earning a Master's degree in Education from UH Manias Ho'okulāiwi (Center for Native Hawaiian and Indigenous Education), he has acquired 16 years of experience educating youth in both Hawaiian immersion public charter schools as well as hands-on farming education programs. While has been farming his whole life, Makua also has

built nearly a decade of experience as lead Kalo farmer and director of Kumans farming operation.

As Project Director, Makua will oversee the entirety of the project's programmatic activities including day to day on-site operations and management, budget and procurement oversight, strategic development, staff supervision/training, community engagement, and data collection, program evaluation and reporting.

Enoka Karratti, Education / Outreach Coordinator

Enoka Karratti is Native Hawaiian with a familial legacy deeply embedded in the West Kaua'i region. Born and raised in Kekaha, Karratti has been a pillar in the community throughout his life and maintains a reputation in West Kauai as a stand-up leader and mentor. He has a Bachelor of Arts degree in Hawaiian Studies from the University of Hawaii at Manoa.

Karratti has nearly a decade of experience (2009 - 2018) providing logistical support to the Department Defense at the Pacific Missile Range Facility (PMRF) military base as a Logistics Specialist for the Native Hawaiian-owned company, Akimeka Technologies (later Ke'Aki Technologies).

Karratti earned his teaching credential and became a Hawaiian studies teacher at Chiefess Kamakahelei Middle School in October 2018. During his time there, Karratti co-authored a curriculum based on 'ōlelo Hawai'i (Hawaiian language) and kuana'ike (native worldview) for STEMS, a UH Manoa program that fosters student engagement and achievement via real-world application of interdisciplinary content.

After three years teaching in the DOE system, Karratti realized he could have a greater impact on local youth and community working within a Native Hawaiian non-profit, so in 2021 he joined KIKA as a full time Educator and Education Outreach Coordinator. Since that time, he has been instrumental in facilitating learning experiences centered around native farming, food and culture, while directly impacting thousands of youth from local area schools as well as schools from outer islands.

John Lyman-Tremaine - Farm Manager

After graduating from high school on Oahu in 2015, John returned home to West Kaua'i and started working for KIKA as a Farm Technician where he repaired and maintained farm equipment, learned mālama 'āina practices hands-on to help clear and maintain mala and lo'i at the farm and participated in hosted school visits.

In 2020 Lyman-Tremaine joined Hartung Brothers in Kekaha as a Farm Technician where he maintained farmlands, operating tractors and self-propelled machinery to plow and fertilize soil. After spending three years at HB, Lyman-Tremaine returned to KIKA in early 2023 as a Farm Manager where he has been instrumental in managing day to day work of our Farm Technicians, interns and program participants.

Lyman-Tremaine will help to clear and restore the dormant and overgrown Māha'iha'i farmlands and support the training and safety needs of KMAP Apprentices and other program participants.

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 Attached Appendix D

3. Compensation

The applicant shall provide an annual salary range paid by the applicant to the three highest paid officers, directors, or employees of the organization by position title, <u>not employee name</u>.

The KIKA Board is comprised of volunteers.

Highest Paid Employees: Executive Director - \$90,000 - \$110,000 Annually Education and Community Outreach Coordinator – \$55,000 - \$65,000 Annually Office and Fiscal Manager – \$55,000 - \$65,000

VII. 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 - no litigation or outstanding judgments

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 <u>Article X, Section</u> <u>1, of the State Constitution</u> for the relevance of this question.

Not applicable

4. Future Sustainability Plan

The applicant shall provide a plan for sustaining after fiscal year 2025-26 the activity funded by the grant if the grant of this application is:

- (a) Received by the applicant for fiscal year 2024-25, but
- (b) Not received by the applicant thereafter.

KIKA's sustainability plan is centered on commercial prodcution of indigenous food crops and value-added products. The Mahi 'Ai Kalo Revitalization project aims to restore prime agricultural land to a productive state to enhance the environment, cultivate food crops for commercial sale in wholesale, retail and institutional marketplaces. The amount of gross revenue projected across the 4 farm sites is well over \$1,000,000 annually which will fully sustain the farm operations while creating jobs in our communities.

BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2025 to June 30, 2026

Applicant: Kumano I ke Ala o Makaweli

	UDGET ATEGORIES	Total State Funds Requested (a)	Total Federal Funds Requested (b)	Total County Funds Requested (c)	Total Private/Other Funds Requested (d)
А.	PERSONNEL COST				
	1. Salaries	162,320			
	2. Payroll Taxes & Assessments	12,174			
	3. Fringe Benefits	38,512			a an traction and a torritory and
<u> </u>	TOTAL PERSONNEL COST	213,006			
В.	OTHER CURRENT EXPENSES				
	1. Airfare, Inter-Island				
	2. Insurance				
	3. Lease/Rental of Equipment	100,000			65,000
	4. Lease/Rental of Space				
	5. Staff Training				
	6. Supplies	40,000			12,640
	7. Telecommunication		· · · · · · · · · · · · · · · · · · ·		
	8. Utilities 9. Contractors				_
	10. Interns	164,000			200,000
	11. Project Management	24,000			12,000
	12. Irrigation System Installation	35,000			12,000
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	TOTAL OTHER CURRENT EXPENSES	363,000			289,640
C.	EQUIPMENT PURCHASES				
D.	MOTOR VEHICLE PURCHASES				
E.	CAPITAL				
тс	TAL (A+B+C+D+E)	652,640			289,640
sc	OURCES OF FUNDING		Budget Prepared	By:	
	(a) Total State Funds Requested	363,000	Davis Price		808-954-5569
	(b) Total Federal Funds Requested				
	(c) Total County Funds Requested	60,000	Van la	da	1/10/25
	(d) Total Private/Other Funds Requested	129,640	Signature of Authorized	d Official	Date
тс		652,640	Kaina Makua, Executi Name and Title (Please	ve Director	

BUDGET JUSTIFICATION - PERSONNEL SALARIES AND WAGES

Period: July 1, 2025 to June 30, 2026

Applicant: ____Kumano I Ke Ala o Makaweli__

POSITION TITLE	FULL TIME EQUIVALENT	ANNUAL SALARY A	% OF TIME ALLOCATED TO GRANT REQUEST B	 TOTAL TATE FUNDS EQUESTED (A x B)
xecutive Director	0.5	\$100,000.00	50.00%	\$ 50,000.00
arm Manager	0.5	\$49,920.00	50.00%	\$ 24,960.00
arm Technician I	0.5	\$41,600.00	50.00%	\$ 20,800.00
arm Technician I	0.5	\$41,600.00	50.00%	\$ 20,800.00
quipment Operator	0.5	\$45,760.00	50.00%	\$ 22,880.00
guipment Operator	0.5	\$45,760.00	50.00%	\$ 22,880.00
				\$ _
				\$ -
TOTAL:			project and will also	162,320.00

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Period: July 1, 2025 to June 30, 2026

Applicant: _____Kumano I Ke Ala o Makaweli___

DESCRIPTION	NO. OF	COST PER	TOTAL	TOTAL BUDGETED
Tractor	2	\$48,000.00	\$ 96,000.00	96000
Disc Harrow and Cutter	2	\$10,000.00	\$ 20,000.00	20000
Bull Dozer	1	\$20,000.00	\$ 20,000.00	20000
Dump Truck	1	\$20,000.00	\$ 20,000.00	20000
UTV	1	\$9,000.00	\$ 9,000.00	9000
TOTAL:	7		\$ 165,000.00	165,000
JUSTIFICATION/COMMENTS:				

DESCRIPTION	NO. OF	COST PER	TOTAL	TOTAL
OF MOTOR VEHICLE	VEHICLES	VEHICLE	COST	BUDGETED
			\$-	
			\$-	
			\$-	
			\$-	
			\$-	
TOTAL:				
JUSTIFICATION/COMMENTS:		******		
The emounts listed for each item represent the value of leased tim	a far tha usa af a	quipmont		

The amounts listed for each item represent the value of leased time for the use of equipment.

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: July 1, 2025 to June 30, 2026

Applicant: Kumano I Ke Ala o Makaweli_____

TOTAL PROJECT COST		ALL SOURCES OF FUNDS RECEIVED IN PRIOR YEARS		OTHER SOURCES OF FUNDS REQUESTED	FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY:2023-2024	FY:2024-2025	FY:2025-2026	FY:2025-2026	FY:2026-2027	FY:2027-2028
PLANS						
LAND ACQUISITION						
DESIGN						
DESIGN						
CONSTRUCTION						
EQUIPMENT						
TOTAL:						

GOVERNMENT CONTRACTS, GRANTS, AND / OR GRANTS IN AID

Applicant: Kumano I Ke Ala o Makaweli

Contracts Total: 1,324,300

				GOVERNMENT	
	CONTRACT DESCRIPTION	EFFECTIVE DATES	AGENCY	(U.S./State/Hawaii/ Honolulu/ Kauai/	CONTRACT VALUE
				Maui County)	
1			Office of Native		
1	Hōʻihi Grant	10/1/24 - 9/30/26	Hawaiian Relations	U.S.	200,000
2	Congressionally Funded Project	10/1/23 - 9/30/24	Dept. Of Education	U.S.	796,000
3			Office of Community		
3	State Grant-In-Aid OCS-GIA-23-49	4/1/2023 - 3/30/2025	Services	State	200,000
			County of Kaua'i -		
4			Office of Economic		
	Farm Expansion Grant	3/1/24 - 2/8/26	Development	Kaua'i County	80,000
			County of Kaua'i -		
5			Office of Economic		
	Innovation Grant	11/1/24 - 10/31/25	Development	Kaua'i County	48,300
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25		10			Application for Grants

26		
27		
28		
29		
30		

Appendix A Conservation Plan – Māha'iha'i

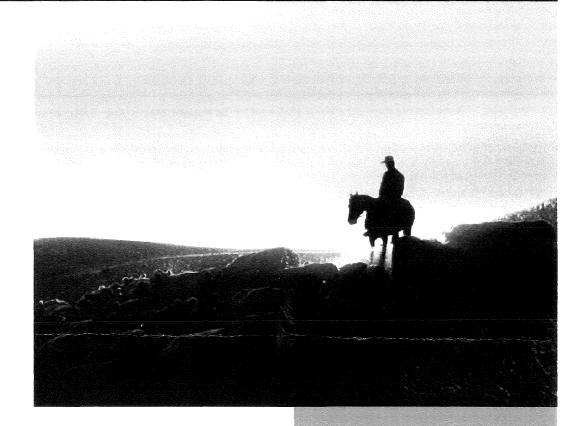


United States Department of Agriculture

Natural Resources Conservation Service

CONSERVATION PLAN

GAY & ROBINSON INC



CONFIDENTIAL

John Nelson Lihu'e, Hawaii (808) 245-9014 x.106 JohnW.Nelson@hi.nacdnet.net 4/23/2020



LIHUE SERVICE CENTER 4334 RICE ST STE 207 LIHUE, HI 96766-1801 (808) 245-9014

Conservation Plan

GAY & ROBINSON INC

PO BOX 156

KAUMAKANI, HI 96747

CONFIDENTIAL

OBJECTIVE(S)

The objective is to improve soil quality, prevent potential erosion, and eradicate undesirable vegetation, while meeting county requirements for the agriculture grading and grubbing exemption.

This plan is for a taro farm (lo'i) on cropland. The primary soils are Hanalei silty clay (HrB), which is somewhat poorly drained and Pakala clay loam (PdA), which is well drained. The primary water source is Waimea river water. The previous land use was cropland (taro, corn, and sugar cane).

The resource concerns that are addressed in this plan are plant pest pressure, plant structure and composition, and soil erosion. Included practices are minimum considerations until operations are in place and the full site is more accessible. A vegetative buffer and access road will stay in place on the west side of the project footprint. The field layout of the crop area will be determined as farm operations take place. The plan will be updated as the farm develops.

No negative impacts to threatened and endangered wildlife species will take place. For the Hawaiian Hoary Bat, no trees taller than 15 feet will be removed or disturbed during the bat pupping season between June 1st and September 15th. Nene are found in the area and may potentially take interest in the site, there is no suitable nesting habitat on site, and they will not be approached, fed or disturbed. The Hawaiian water birds do not have habitat within the field areas. If any listed Hawaiian water birds or Nene are on site, a 100ft buffer is to be established and maintained around active nests and broods until chicks/ducklings have fledged. No disruptive activities or habitat alteration is to occur within that buffer. If any water birds are observed within the project site, all activities will halt within 100 feet of the individual until the water bird leaves on its own accord. No manipulation of water levels that may inundated or lower around active nests will take place. All other species do not have habitat within or immediately near the project area.

The site has been extensively farmed with taro, sugarcane and corn. The practices outlined in this plan will not exceed the depth, extent, or kind of previous cultivations and is consequently not considered an undertaking. Therefore, consultation with the State Historic Preservation Department (SHPD) is not required. If historic properties are found during practice installation, all work must stop, and the client must contact NRCS and SHPD immediately. Landowners have ownership of historic properties found on their land, with exception of human remains, grave markers and associated artifacts; which are the property of the State of Hawaii.

NOTE: The planned month and years are deadlines for NRCS reporting purposes, actual implementation will take place throughout the year dependent upon farm operation and guidelines minimizing negative impacts to natural resources. Actual date applied will be documented. The planned amounts are estimates, actual amounts are dependent upon farming operations for the year. As long as the implementation requirements are followed, actual amount implemented will be documented once the practice.

Brush Management (314)

Brush Management (Lifespan 10 years) is the management or removal of woody plants including those that are invasive and

noxious. The technical specifications for this practice will be followed as described on the customized Implementation Requirements (IR) designed for this field(s).

indicates n	indicates no data is available							
Tract	Field	Planned Amount	Month	Year	Applied Amount	Date		
1684	1	36.3 ac	08	2020				
	Total:	36.3 ac						

Herbaceous Weed Treatment (315)

Herbaceous Weed Treatment (Lifespan 5 years) is the removal or control of herbaceous weeds or plants including those that are invasive, noxious or prohibited. The technical specifications for herbaceous weed treatment will be followed as described on the customized Implementation Requirements (IR) designed for this field(s).

-- indicates no data is available

Tract	Field	Planned Amount	Month	Year	Applied Amount	Date
1684	1	36.3 ac	08	2020		
	Total:	36.3 ac				

The participant's signature below indicates acceptance of their responsibility for obtaining applicable cultural resources & threatened and endangered species consultations, and/or all applicable permits, prior to implementing or installing any scheduled conservation practices in this conservation plan. Furthermore, they agree to follow all applicable Federal, State, territorial and/or local laws and regulations.

CERTIFICATION OF PARTICIPANTS



CONSERVATION DISTRICT 5-12-2020 in CERTIFIED PLANNER DATE WEST KAUAI SOIL & WATER CONSERVATION DISTRICT DATE

> Jenna Dunn CERTIFIED CONSERVATION PLANNER Pacific Islands Area

PUBLIC BURDEN STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection information.

PRIVACY ACT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

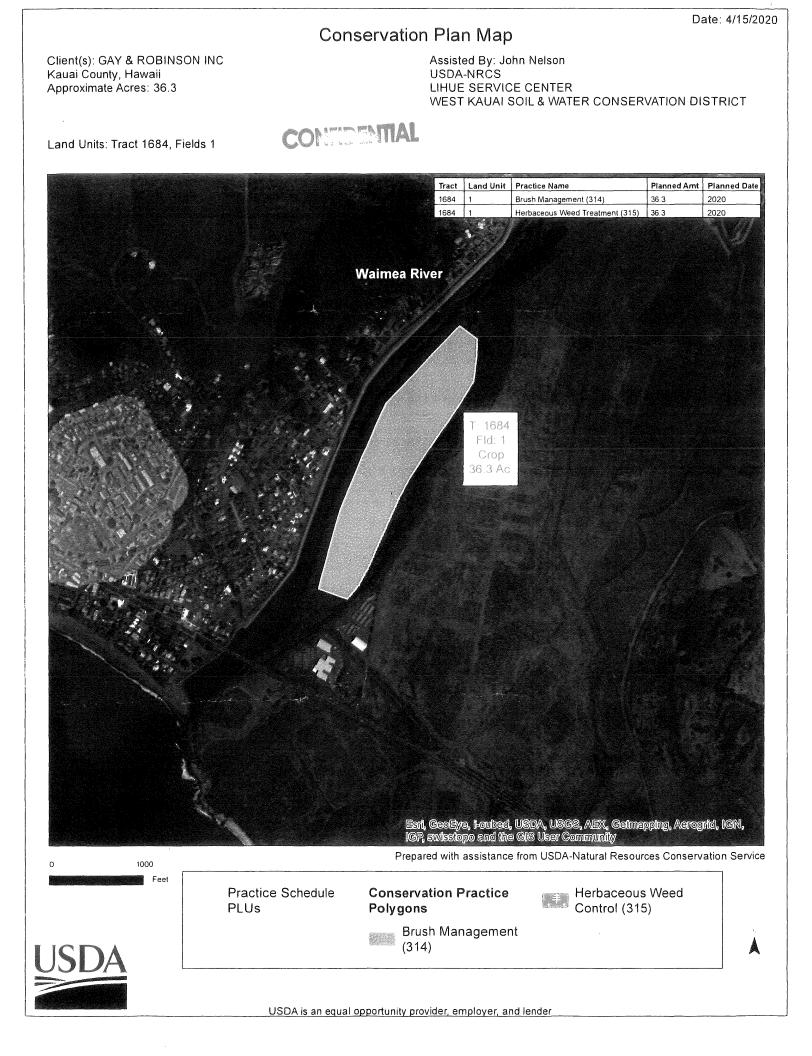
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Washington, DC 20250-9410

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Appendix B Kawailoa Fields Revitalization Plan

Kawailoa Fields

Preliminary Research to Revitalize and Steward this Wahi Pana

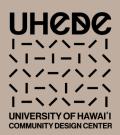
Prepared by

University of Hawai'i Community Design Center

Submitted to

Kumano I Ke Ala - Kawailoa, O'ahu

January 2025





2410 Campus Road Room 101A Honolulu, HI 96822 http://uhcdc.manoa.hawaii.edu

The University of Hawai'i Community Design Center (UHCDC) is a service learning program and teaching practice established and led by the University of Hawai'i (UH) School of Architecture that provides a platform for applied research, planning, placemaking, and design. UHCDC involves UH faculty, staff, students, and partnered professionals across UH campuses, departments, and professional disciplines.

Project Team

Kimi Makaiau, Senior Research Associate Jonathan Malu Stanich, Research Associate Hannah Valencia, Project Designer Logan Shiroma, Graduate Research Assistant

On behalf of the project team, we would like to thank Davis Price and Kaina Makua of Kūmano I Ke Ala for allowing us this opportunity to learn about and support the aloha 'āina work commencing in Waialua, O'ahu. Mahalo for your vision, aloha, and commitment to our lands and people. It is truly inspiring.

Throughout this report, Hawaiian diacritical marks—the 'okina and kahako—are used to preserve the nuances of pronunciation and meaning. However, in certain instances, these diacriticals may be omitted to reflect the historical orthography, which originally did not include these marks.

Kawailoa Fields 40 Acre Parcel

Kamehameha Hwy

Punanue

Kukuiloloa

Lauhulu

'Uko'a

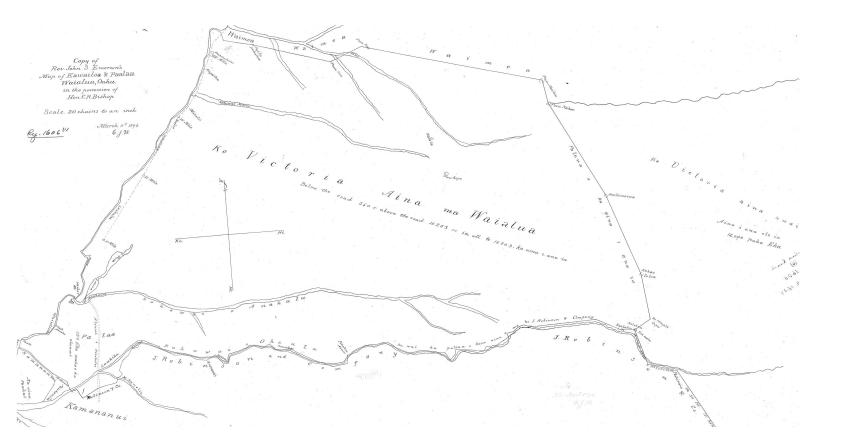
Loko Ea

Pua'ena Point



Hale'iwa Town

Table of Contents



Introduction

Kumano I Ke Ala

Background

Purpose of this Research

Research Framework

A Glimpse of Waialua

Ili 'Āina o Kukuiloloa Wahi Pana of Waialua Winds and Rains Agricultural History Traditional Agroecology Post-Contact Parcel Land Use Historical Photo Collection Landscape Plan Site Plan GIS Environmental Layers Preliminary Plant List Hawaiian Agroforestry Conclusion

Next Steps

References

04
04
04
05
09
12
14
19
21
23
27
29
31
33
37
38





Kumano I Ke Ala

Kumano I Ke Ala (KIKA) is a community-based, non profit organization established in 2015 for the purpose of empowering a sustainable Hawai'i and restoring its cultural resources. Their mission is to build and perpetuate a foundation of aloha 'āina through culturally-based Native Hawaiian education programming to grow self-aware, self-determined and self-directed critical thinkers for a sustainable Hawai'i.

Background

Since their inception, KIKA has been empowering West Kaua'i through native land rehabilitation, food system revitalization, workforce training, and youth development. KIKA currently stewards approximately 26 acres of land along Wai'ula'iliahi (Waimea River) spanning three sites in Waimea and Makaweli. Their work, grounded in 'ike Hawai'i, is to cultivate agricultural spaces and the next generation of cultural practitioners. This is attained through increasing commercial production of kalo to secure long-term community access to this and other native Hawaiian staple foods.

In 2024, KIKA entered into an agreement with Kamehameha Schools to lease a 40-acre parcel in Kawailoa, O'ahu to expand their existing programs.

Purpose of this Research

To understand the history of the Kawailoa fields, surrounding lands and community, and all that came before. This understanding will help to inform the kuleana associated with revitalizing and stewarding this wahi pana, and to assure proposed development plans honor the place and needs of this 'aina.

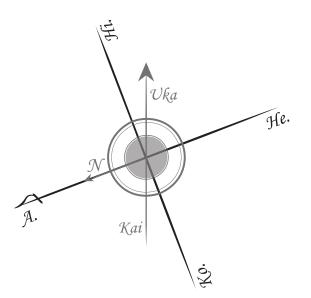
Research Framework

In order to guide this preliminary research process, an indigenous research framework was used in planning, data collection, analysis, and documentation. This approach integrates indigenous knowledge systems and elevates the interconnectedness of people, place, akua, and environment. These perspectives are deeply rooted in cultural, ecological, and spiritual connections to the land and cosmos, shaping a holistic understanding of place and time.

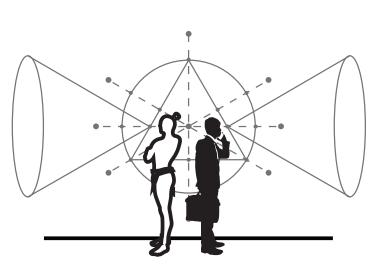
In Hawaiian cosmology, familial ties to the land—expressed through respect and reciprocity—underscore the profound connection between kānaka and their environment. Historically, these histories were passed down generationally through oral traditions, ensuring that experiences of the past can inform actions of the present. Today, modern technologies are used to complement traditional knowledge systems, offering new ways to document and share indigenous histories and ancestral wisdom.

Spatial Orientation

Perspectives on Time

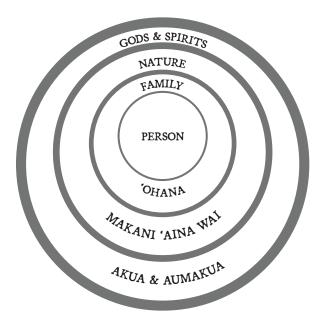


The way humans conceptualize space varies across cultures and groups. Indigenous cognition of space is informed by cultural, ecological, and spiritual relationships to land, environment, and time. This perspective includes an intimate knowledge of natural landmarks, seasonal changes, and celestial positions, creating a comprehensive spatial awareness that supports sustainable living and cultural continuity.



Indigenous perspectives on time are closely tied to natural cycles such as moon phases, seasons, and life stages. This cyclical approach to time emphasizes the rhythms of the natural world and helps to inform man's role in understanding the past to guide future action. The passing of knowledge and practices from one generation to the next is crucial for preserving identity, values, and environmental wisdom.

Relating to Environment



Familial relationships are the foundation of Hawaiian cosmology and genealogy. These relationships were expressed through respect, reciprocity, and embodied in the practice of 'āina aloha. Native Hawaiians understood that their well-being was intrinsically connected to the well-being of their environment, and cared for it as such. And through this lens, this land will once again nourish people physically, spiritually, and emotionally.

Modern Recordings



Modern recording methods, including digital mapping and satellite imagery are leveraged to support and further visualize traditional boundaries, natural features, and other elements of cultural significance. Indigenous histories captured through oral traditions, hula and arts, mo'okū'auhau, and contemporary documentation can be preserved and shared through a visual format that is easily accessible and understood.



'Ili 'Āina o Kukuiloloa



'Ili o Kukuiloloa

Ahupua'a o Kawailoa

> Moku o Waialua

> > Mokupuni o O'ahu



kukui-loloa long torch. - A Dictionary of the Hawaiian Language, Andrews; Parker, 1922

Kukuiloloa

The 'ili 'āina of Kukuiloloa, also spelled Kuikuiloloa, is a land division with little historical documentation. The latter spelling is assumed to be an older variant referring to the candlenut plant (aleurites molusccanus) as it is known as tuitui in other Polynesian languages. Historical maps situate it between other 'ili Punanue and Lauhulu, and it is referenced in Land Commission Award claims of Waialua.

Kawailoa

Kawailoa, the northernmost of eight ahupua'a within the moku of Waialua, is bordered by Pa'ala'a to the south and Waimea of Ko'olauloa to the north. Its landscape is defined by several valleys and three primary streams-Anahulu, Laniākea, and Kawailoa-that flow from the uplands and drain into the sea. Sustained by an abundance of freshwater, crops such as kalo, 'uala, and mai'a thrived. The near shore also boasted a wealth of marine resources to help sustainably support the earliest inhabitants to the region.

Waialua

Waialua, one of O'ahu's six moku, stretches from Ka'ena Point in the west to Kāpaeloa at Waimea Bay in the north and the central O'ahu plains in the mauka regions. It is bounded by both the Wai'anae and Ko'olau Mountain Ranges and includes Kūkaniloko, a wahi kapu in Wahiawā acknowledged as a spiritual piko and birthplace of ali'i. The name "Waialua," meaning "two waters," has varying interpretations. Most notable is the reference to the two major rivers -Anahulu and Kaukonahua that empty into Waialua Bay.





Wahi Pana of Waialua

Indigenous place names are a powerful expression of identity, history, and relationship to land and carry deep meaning. Its analyses can reveal historical information about a place and its inhabitants, settlement patterns, geographical features, social organization and ideology, connections to language, and transformations to place and society over time. Native Hawaiians named mountain peaks, lo'i kalo, trees, house sites, heiau, canoe landings, fishing ko'a, and even the smallest locations where extraordinary or noteworthy events took place (Pukui et al., 1974). These names serve as enduring markers of the past, preserving the relationship between people and 'aina. Some notable places and features central to the history and identity of Waialua can be found below. By understanding these names and their significance, the stewardship and development of the site can honor its historical and cultural foundations.

	•	Mokulē'ia 1	•	Pa'ala'a
	•	Mokulē'ia 2	•	Kawailoa
āpai	•	Kamananui		
a	•	Hale'au'au	•	Kawai iki
u	•	Ki'iki'i	•	Kawainui
ıla	•	Mohiākea	•	'Elehāhā
Da	•	Kaukōnāhua	•	Kaiwiko'ele
	•	Poamoho	•	Kauwalu
āpai	•	Waikōloa	•	Waimea
'ia	•	Helemano	•	'Āweoweo
	•	Paukauila	•	Ka'alaea
ha	•	Anahulu		
ls & Springs				
	•	Wai Kumu-ole	•	Waipao
a	•	Kuaikua	•	Punahou-lapa
L	•	Laukiaha	•	Punakai

· Kawaipuolo



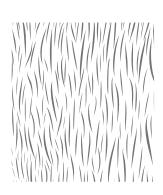
Waikoloa (mai Līhu'e)

Kehau (mai Kapo)

Winds and Rains

The three winds associated with Waialua include Malualua, Waikoloa, and Hinakokea. These winds are not only ecological indicators to signal seasonal cycles and predict weather patterns, but their presence and absence can help to inform changes to environmental health.







Hinakokea (mai Mokule⁻ia)

Kawailoa

Fields

More than mere meteorological phenomena, winds and rains hold profound significance to all indigenous peoples. Often recognized for their distinct characteristics and connections to specific locations, they are deeply embedded in spiritual, cultural, ecological, and navigational practices.

Malualua

Northeastern wind from Ko'olauloa, described as bumpy and uneven.

Waikoloa

Cold wind from Lihu'e associated with Mt. Ka'ala.

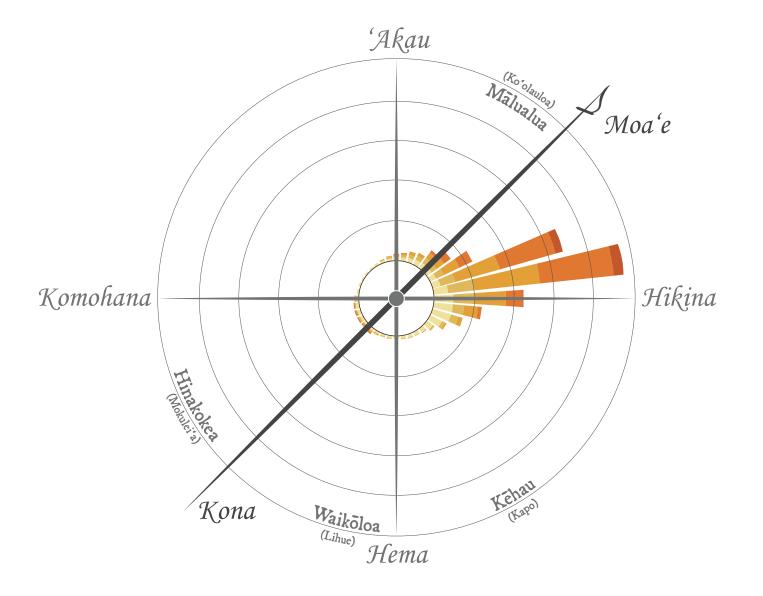


Hinakokea

Wind from Mokulē'ia.

The Kawailoa Fields sits at an elevation of 270-350 feet above sea level. This wind rose illustrates the prevailing wind directions collected at the nearby Kawailoa Training Center at Pu ukapu, located approximately four miles mauka of the parcel at an elevation of 1300 feet. The base diagram includes compass directions Akau (North), Hema (South), Hikina (East), and Komohana (West) and two key wind patterns including Moa e (northeast trade winds) and Kona (south-southwest winds).

The colored overlay highlights the prevailing wind direction as recorded in the wind station data. Each of the winds are respectively placed and reflect the localized patterns that shape the microclimates of Kawailoa and its surrounding regions. The area also records an annual average rainfall of 40-60 inches.



The wind of Ka'ena turns in two directions, Hinakokea is of Mokule'ia, The winds of Waialua blows, Moving silently at the cape of Ka'ena, Pu'u-ka'ala blows at Ka'ala Kehau is of Kapo, - The Wind Gourd of La'amaomao, Nakuina et al., Rev. ed. 2005



Kēhau

A gentle mist originating in the uplands of Wahiawa.

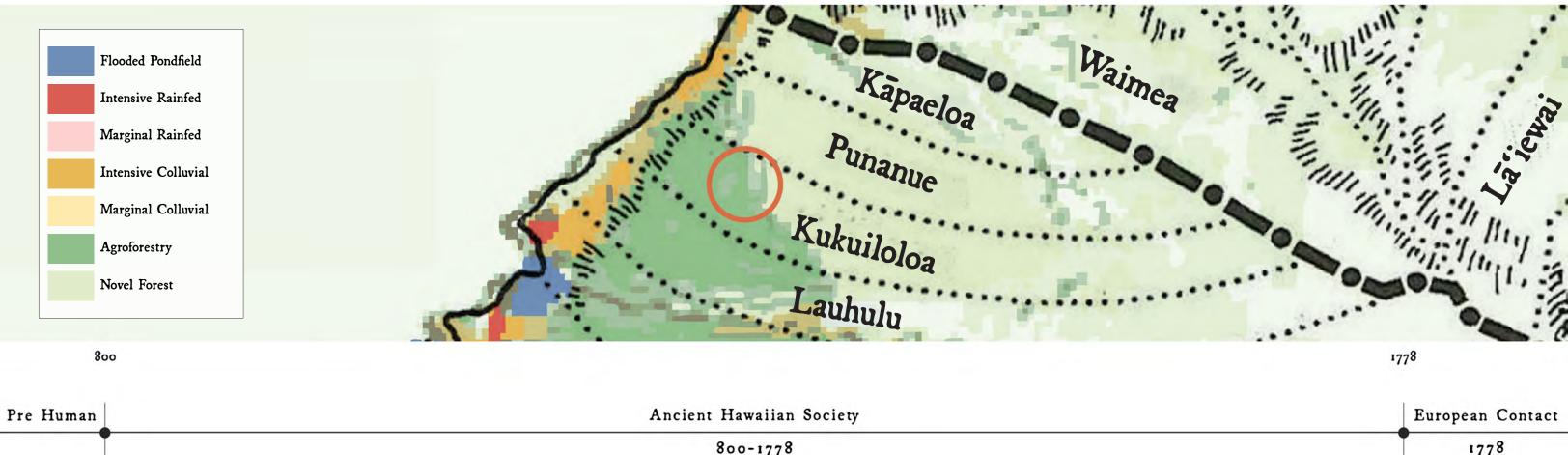
Kēhau of Kapo referenced in the chant above describes the gentle and cooling mist that blankets the uplands of Wahiawā. This mist nourishes the mauka lands and depicts its important hydrological connection to Waialua via its contributions to the Kaukonahua Stream, the mauka lands of Kawailoa, and ultimately to Waialua Bay.

While there are other rains associated with nearby Mt. Kaala, there is an absence of documentation of rains specific to Waialua. However, another abundant environmental feature of note is the 'ehukai or fine sea mist that is carried by the wind from the breaking waves of the ocean. It can contribute to localized moisture, affecting nearby ecosystems and even helping sustain coastal vegetation.

Agricultural History

Z

Traditional Agroecology

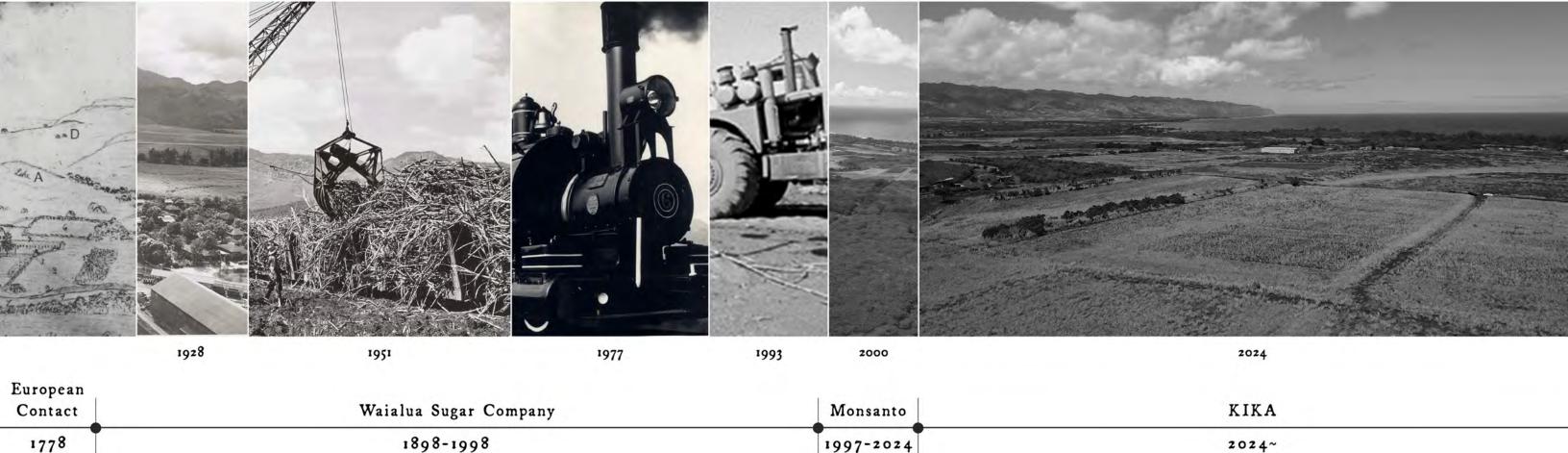


Traditional Hawaiian agriculture spanned a diverse array of agroecological zones, each adapted to the unique environmental conditions such as climate, soil, and topography. These zones included flooded lo'i (pondfields) in lower lands and valleys, intensive and marginal rainfed systems on leeward slopes, and colluvial systems on fertile valley edges. Agroforestry systems integrated perennial trees and annual crops in rocky or nutrient-poor areas, while novel forests and arboricultural systems focused on less intensive cultivation within tree-dominated landscapes. 'Auwai (irrigation channels) were constructed to manage water distribution from streams to ensure a consistent water supply for agricultural needs. This spectrum of systems highlights the ingenuity of Native Hawaiian cultivators in sustainably managing ecosystems across a wide range of rainfall, soil fertility, and topographical gradients. These practices not only ensured food security but also maintained ecological integrity, showcasing an adaptive approach to agricultural land management (Lincoln et al., 2023).

Preliminary research based on spatial modeling suggests the Kawailoa Fields to be located within an agroforestry/ swidden zone. Agroforestry in pre-European contact Hawai'i employed methods such as planting quick-growing trees like kukui (candlenut) to enhance soil fertility through mulching and composting. 'Ulu (breadfruit) served as a canopy species in diversified orchards, with mai'a (bananas), kalo (taro), and kī (ti leaf) filling the understory. These systems not only supported agricultural productivity but also aligned with Native Hawaiian practices of ecomimicry and sustainable land stewardship (Lincoln & Vitousek, 2017). It also reflected a deep understanding of resource management and a strong relationship between people and 'aina. The subsequent Landscape Plan that follows includes a brief analysis of environmental conditions that influenced a Preliminary Site Plan and planting list.

1778

Post-Contact Parcel Land Use



Following European settlement into the Hawaiian Islands in the early 19th century, there was a significant shift in agriculture and land use patterns. Traditional Hawaiian agricultural systems, which closely harmonized with the natural environment, were quickly supplanted by industrial plantation farming, with sugar cultivation becoming the dominant crop. This monocrop required expansive acres of land, immense quantities of water to irrigate, and considerable labor to work it. Sugar farming in Waialua began in 1865 by Levi and Warren Chamberlain, and further expanded under the ownership of Castle & Cooke. The Waialua Agricultural Company (later renamed to the Waialua Sugar Company) was formed in 1898 and financed extensive infrastructure improvements, still utilized today.

In 1998, after a century in operation, the Waialua Sugar Company closed, and their 24,000 acres of leased land reverted back to the landowner, Kamehameha Schools. Their newly developed strategic plan for the area shifted their management strategy into diversified agriculture that sought to balance economic, educational, cultural, and stewardship goals. However, following sugar, the Kawailoa Fields parcel was utilized by the biotechnology corporation Monsanto, developing and testing genetically modified organisms (GMOs) for crops like corn and soybeans. In 2024, Kumano I Ke Ala (KIKA) entered into agreement with the Kamehameha Schools to lease the 40 acre parcel with a commitment to return the land to traditional Hawaiian agriculture.

2024~

Historical Photo Collection



2024 Satellite Image

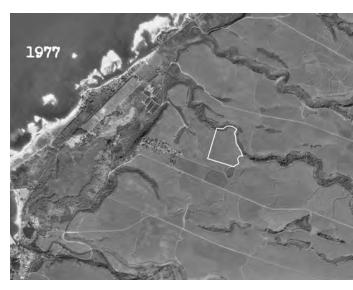
Land Use: Fallow Vegetation Cover: Invasive Dry Woodland & Scrub Landowner: Kamehameha Schools Lessee: None Source: Google Earth Pro

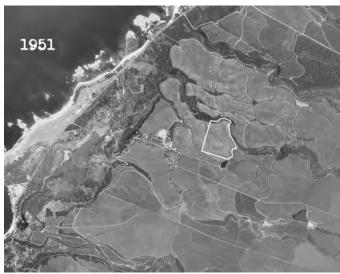
2000 NOAA Aerial Photo Overlay

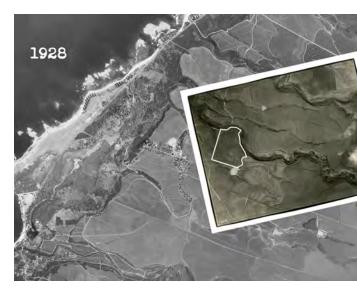
Land Use: Commercial Seed Production Vegetation Cover: Corn and Soybean Landowner: Kamehameha Schools Lessee: Monsanto Source: National Oceanic and Atmospheric Administration

1993 NOAA Aerial Photo Overlay

Land Use: Commercial Agriculture Vegetation Cover: Sugar Cane Landowner: Kamehameha Schools Lessee: Waialua Sugar Company Source: National Oceanic and Atmospheric Administration











1977 USGS Aerial Photo

Land Use: Commercial Agriculture Vegetation Cover: Sugar Cane Landowner: Kamehameha Schools Lessee: Waialua Sugar Company Source: U.S. Geological Survey

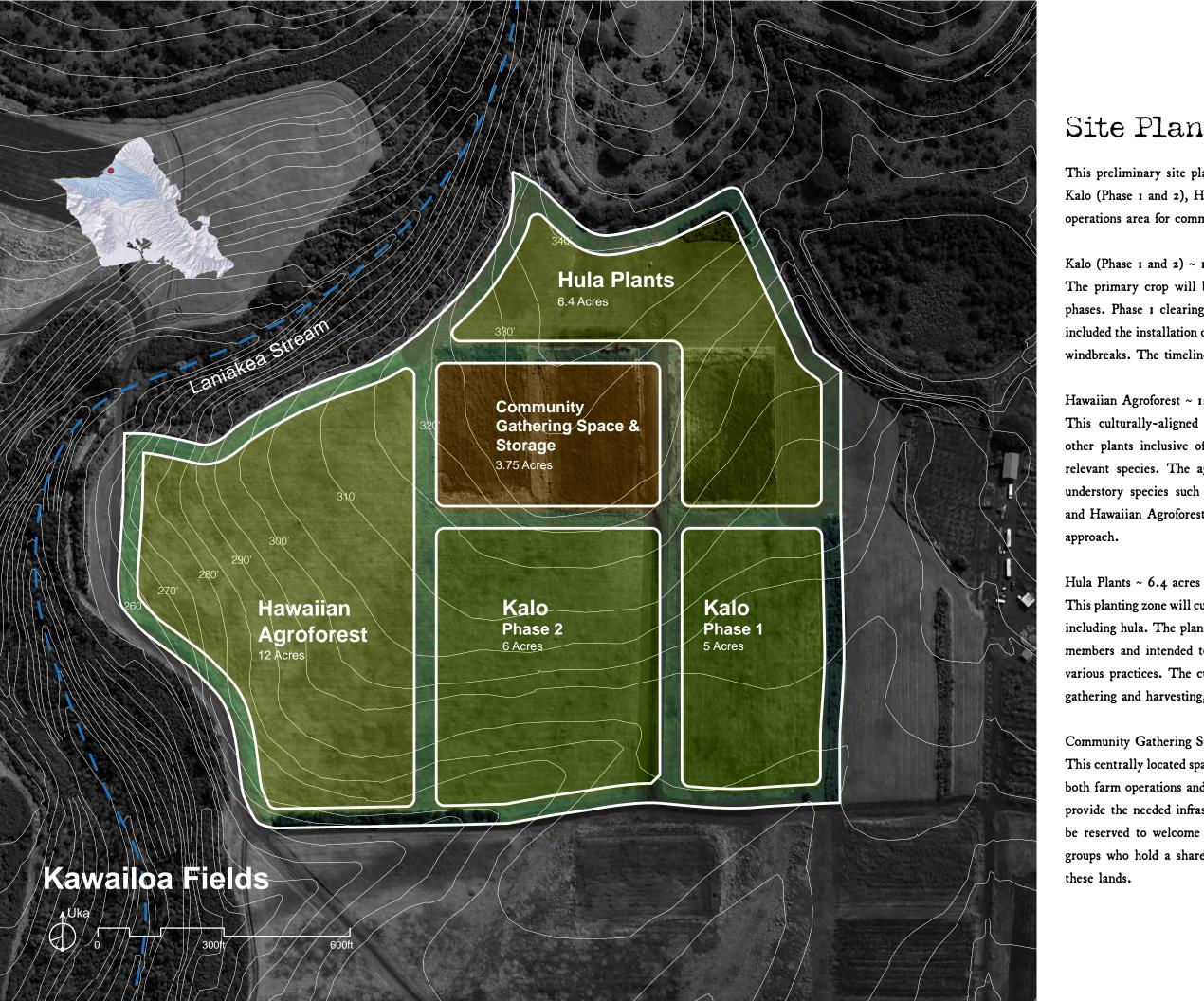
1951 USGS Aerial Photo

Land Use: Commercial Agriculture Vegetation Cover: Sugar Cane Landowner: Kamehameha Schools Lessee: Waialua Sugar Company Source: U.S. Geological Survey

1928 USGS Aerial Photo Overlay

Land Use: Commercial Agriculture Vegetation Cover: Sugar Cane Landowner: Kamehameha Schools Lessee: Waialua Sugar Company Source: U.S. Geological Survey





This preliminary site plan divides the parcel into three main planting zones: Kalo (Phase 1 and 2), Hawaiian Agroforest, and Hula Plants and one central operations area for community gathering and storage.

Kalo (Phase 1 and 2) ~ 11 acres

The primary crop will be kalo, and its planting will be carried out in two phases. Phase 1 clearing and planting commenced in November 2024. This included the installation of irrigation systems, and will be buffered by vegetative windbreaks. The timeline for Phase 2 has not yet been determined.

Hawaiian Agroforest ~ 12 acres

This culturally-aligned reforestation strategy integrates trees, shrubs, and other plants inclusive of food crops, medicinal plants, and other culturally relevant species. The agroforest will feature 'ulu as the canopy tree, and understory species such as mai'a, kalo, and kī. A Preliminary Plant List and Hawaiian Agroforestry diagram that follows offers more insight into this

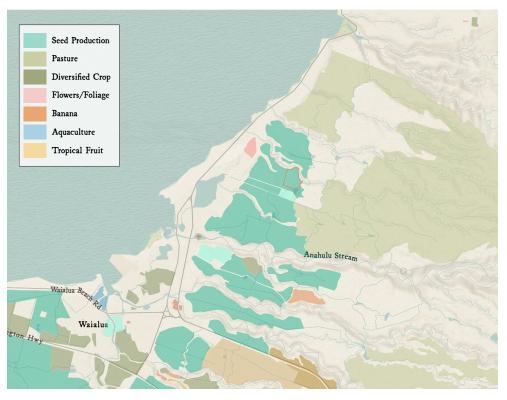
This planting zone will cultivate species essential for observing cultural practices including hula. The plant selection will be informed by input from community members and intended to address the gap practitioners face in preparing for various practices. The cultivation of these plants will also assure sustainable gathering and harvesting, and lessen the burden on wild populations.

Community Gathering Space & Storage ~ 3.75 acres

This centrally located space will serve as a multi-functional hub accommodating both farm operations and community activities. General storage facilities will provide the needed infrastructure for farm operations, while other spaces will be reserved to welcome the gathering of practitioners and other community groups who hold a shared interest in spiritual and ecological stewardship of

GIS Environmental Layers





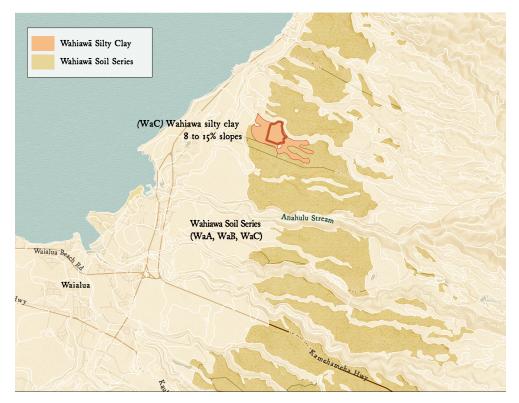
Geographic Names Information System (GNIS)

The official repository of geographic names developed by the United States Geological Survey (USGS), offers some information on the natural and man-made features found within Waialua. It also highlights the absence of significant cultural landmarks, placenames, and other features once found in the area that are acknowledged in oral histories and historical maps.

Agricultural Land Use

The parcel is within the Agricultural State Land Use District and zoned as AG-1 (Agricultural-1) which guides the permitted use of these lands. The Hawai i Statewide Agricultural Land Use Baseline is conducted every five years, and provides a comprehensive assessment of land use trends and crop types over time. The most recent assessment in 2020 shows the parcel to be seed production.







Infrastructure

Water for the parcel originates approximately five miles away in the ahupua'a of Kawailoa. Rainwater is captured in the Ōpāe'ula Reservoirs and transported via the Kawailoa Ditch system. The site lacks electrical infrastructure and municipal wastewater systems with the nearest above ground electrical lines observed over 3,200 feet (0.61 miles) makai of the site.

Soil Series

The Wahiawā soil series (WaA, WaB, WaC) consists of welldrained silty clay, dusky red in color. The entire parcel is composed of Wahiawā silty clay (WaC) with slopes between 8-15%. The surface layer is medium acid, and the subsoil is medium acid to neutral. Due to the slope, it has a slight to moderate erosion hazard, but permeability is moderately rapid.

Preliminary Plant List



'A'ali'i

Dodonaea viscosa H: 3-12 feet W: 3-8 feet Growth: Slow to moderate Sun: Full sun Water: Low Soil: 6.0-7.5

'Awapuhi

H: 4-6 feet

W: 3-4 feet

Zingiber zerumbet







Growth: Moderate Sun: Partial to full shade Water: High Soil: pH 5.5-7.0 Kalo Colocasia esculenta H: 3-6 feet

W: 2-4 feet Growth: Fast Sun: Full sun to partial Water: High Soil: pH 5.5-7.0

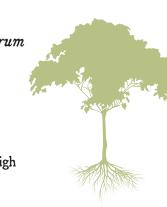
Kō

Saccharum officinarum H: 6-20 feet W: 1-3 feet Growth: Fast Sun: Full sun Water: Moderate to high Soil: pH 5.0-6.5









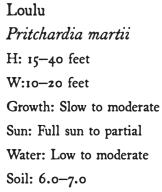
'Awa Piper methysticum H: 6-10 feet W: 3-5 feet Growth: Moderate Sun: Partial shade Water: Moderate Soil: pH 6.0-7.0

Hala Pandanus tectorius H: 15-25 feet W: 10-20 feet Growth: Moderate Sun: Full sun to partial shade Water: Low to moderate Soil: pH 5.5-7.0

Kī Cordyline fruticosa H: 3-10 feet W: 2-4 feet Growth: Fast Sun: Full sun to partial Water: Moderate Soil: pH 6.0-6.5

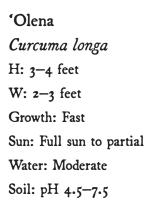
Aleurites moluccanus H: 40-60 feet+ W: 30-50 feet Growth: Fast Sun: Full sun to partial Water: Moderate Soil: pH 5.5-7.5





Pipturus albidus H: 10-15 feet W: 6-8 feet Growth: Moderate Sun: Partial to full shade Water: Moderate Soil: pH 6.0-7.0

Māmaki



'Uala Ipomoea batatas H: 1-2 feet W: 5-10 feet Growth: Fast Sun: Full sun Water: Moderate Soil: pH 5.5-6.5

Kukui

31









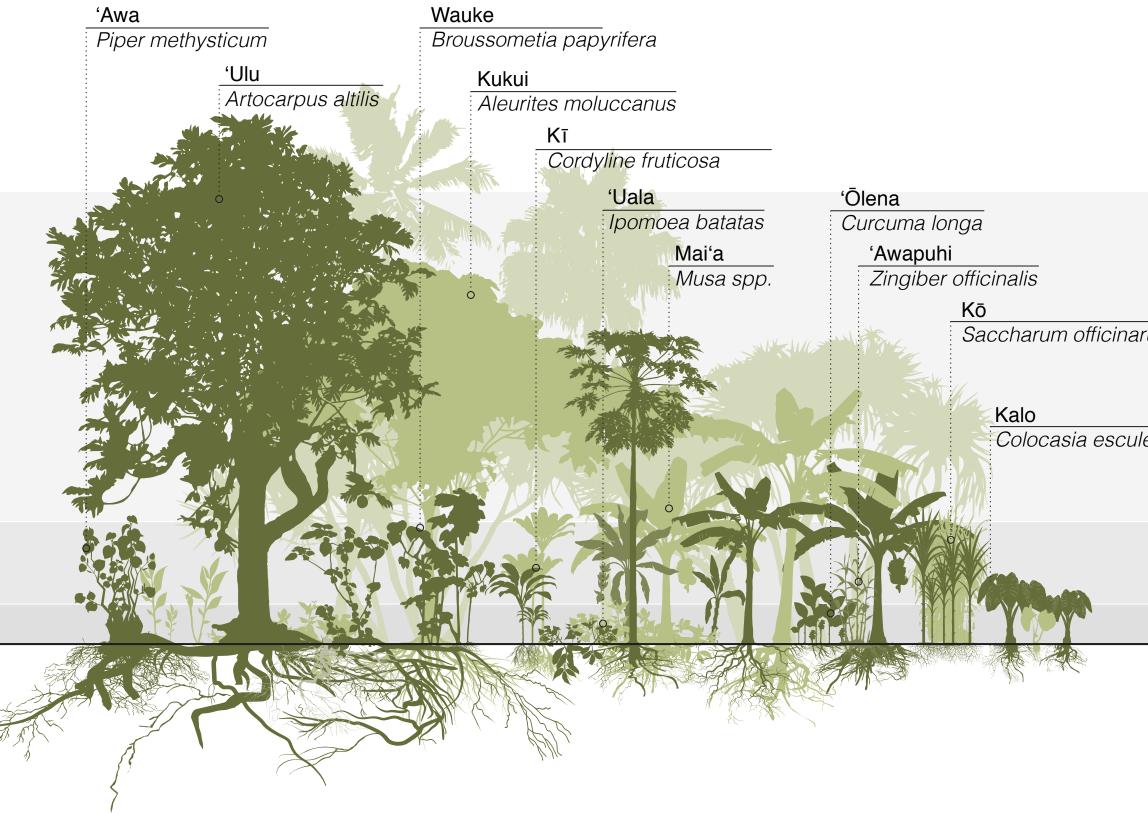
Mai'a Musa sp. H: 10-20 feet W: 6-10 feet Growth: Fast Sun: Full sun to partial Water: High Soil: pH 5.5-7.0

Niu Cocos nucifera H: 50-80 feet W: 15-25 feet Growth: Moderate to fast Sun: Full sun Water: Moderate Soil: pH 5.0-8.0

'Ulu Artocarpus altilis. H: 40-60 feet W: 40-60 feet Growth: Moderate to fast Sun: Full sun to partial Water: Moderate Soil: pH 6.0-7.5

Wauke Broussonetia papyrifera H: 10-20 feet W: 8-12 feet Growth: Moderate to fast Sun: Full sun to partial Water: Moderate Soil: pH 6.0-7.5

Hawaiian Agroforestry



	Canopy Trees	 30ft
arum	Lower Shrub Canopy Trees	
	Shrubs	
	Ground Cover	3ft — _ — Oft —
	Rhizosphere	-3ft —



Next Steps

This preliminary research explored the rich history and cultural significance of the Kawailoa Fields, surrounding lands, and community in order to gain a foundational understanding of this place and develop strategies for its future management.

To further advance its revitalization and stewardship, it is suggested to create a comprehensive agricultural plan that integrates biocultural diversity and supports the cultivation of traditional crops. Below are the key deliverables to be included in an Agroecological Site Plan.

- Site Analysis: Conduct a thorough evaluation of the land's topography, soil composition, climate conditions, and historical native vegetation to understand the site's ecological potential and limitations.
- Design Layout: Develop a detailed map that arranges native tree and plant species strategically to create a sustainable canopy and understory. This layout will also facilitate the cultivation of canoe crops, ensuring the preservation of traditional agricultural practices.
- Management Practices: Outline organic and sustainable strategies for soil health, planting methods, pest and weed control, cultivation, and harvesting. These practices will promote long-term soil fertility and resilience.
- Water Management: Develop an irrigation and water conservation plan to manage water resources effectively. This will include techniques for efficient water use and strategies to reduce waste and preserve the watershed.
- Community Engagement and Education Component: Create programs to involve community members, organizations, and other stakeholders in the stewardship of the land.
- Data Monitoring and Evaluation: Establish criteria and protocols for monitoring and assessing the success of the implemented agroecological and biocultural practices. Key metrics will include:
- Carbon Sequestration: Measurement of the amount of carbon captured and stored by plant biomass.
 - Soil Carbon Storage: Assessment of the carbon content in the soil to gauge soil health and fertility.
 - Biodiversity Support: Evaluation of the diversity and abundance of native flora and fauna.
 - Reduced Soil Erosion: Analysis of soil retention and stability to prevent land degradation.
- Economic Viability Assessment: An analysis of the economic aspects of the agroecological practices, ensuring the financial sustainability of the site's operations.

These deliverables will guide the ongoing stewardship of the Kawailoa Fields, ensuring that the revitalization efforts align with cultural values and ecological sustainability. The integration of traditional knowledge and modern agroecological practices will create a thriving, resilient landscape that honors the legacy of this wahi pana.

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Appendix C Kumano I Ke Ala Five-Year Strategic Plan

5 YEAR STRATEGIC PLAN KUMAANO KUMAANO KEALA

DEVELOPED BY MAHINA CONSULTING

KUMANO I KE ALA P.O. BOX 181 WAIMEA, HI 96796 (808) 378-4661 info@kumanoikeala.org www.kumanoikeala.org



REVISED VISION:

Kumano i Ke Ala exists to elevate indigenous knowledge to revitalize traditional food systems to save our planet.

REVISED MISSION:

To build and perpetuate a foundation of Aloha 'Āina through culturally-based Native Hawaiian education programming to grow self-aware, self-determined and self-directed critical thinkers for a sustainable Hawai'i.

KUMANO'S ROLE:

Kumano I Ke Ala programs are embedded in the community, built to support local farmers, local food and empower local youth.

KEY DELIVERABLES

Kanaka 'ōiwi and kama'āina must reclaim and reassert governance of their land, water and ocean resources to halt the extractive and abusive practices of corporate control that have gone unchecked for over 200 years. We commit to empowering the next generation to exercise their agency and mana to develop a thriving future in their kulāiwi.

To meet this thriving future, Kumano i Ke Ala (KIKA) initiated a strategic planning process to chart the course for transformative change over the next five years (July 2024-June 2029). The eight month engagement process gathered input and feedback from KIKA board members, community partners, staff, and program participants to formulate the following priorities, action steps, and revised vision and mission statement.



CALL TO ACTION

KIKA invites aligned partners, collaborators, business owners, investors, community champions and Hawai'i residents to join them in their efforts. Together, we will leverage the momentum to restore and revitalize economic models that radically address health, educational and economic inequities through targeted investment, meaningful and impact focused collaboration, business and social enterprise development. KIKA is seeking five million dollars in social capital investment to meet the priorities and goals described in this report to serve as a nexus of integrated indigenous innovation for West Kaua'i and beyond.

Take the next step with KIKA by contacting them at info@kumanoikeala.org to learn more.

We engage young people through 'āina-based education, employment readiness, mentoring, and cultural enrichment to help them grow leadership, critical-thinking and strengthen ties to family and community.



THEORY OF CHANGE

OUR MISSION

To build and perpetuate a foundation of Aloha ` Āina through culturally-based Native Hawaiian education programming to grow self-aware, self-determined and self-directed critical thinkers for a sustainable Hawai'i.

OUR VISION

Kumano i ke ala exists to elevate indigenous knowledge to revitalize traditional food systems to save our planet.

KUMANO I KE ALA

Kalo Crop Production

Achieves at scale indigenous kalo crop production sustainability to meet the needs of targeted consumers.

'Āina Based Programs

Increase access to 'āina based programming that cultivates 'āina mindset, behaviors and skills

Tool Kits/Curriculum

Developing tool kits/curriculum/models to deepen and expand social impact.

Stewardship

Expand 'āina stewardship through strategic partnerships, acquisitions and leaseholds.

Outputs

- # of jobs created in food systems and other relevant sectors
- Increase amount of kalo being produced year to year
- Increase acreage rehabilitated and stewarded each year

CTIVAI

ALOHA 'ĀINA POI CO.

Business Development

Achieves financial viability through profitable business development and efficient operations.

Physical Infrastructure

Builds physical infrastructure to enable effective business, farm operations and 'āina based programming

Climate Resilience

Facilitate indigenous integrated based solutions in climate resilience through food systems change/transformation and ethical business development

Social Enterprises

Amplifies indigenous led social enterprise development (workshops, farmer training, value added product and experience development)

Outputs

- Increase # of kalo produced and kalo products sold
- Increase accessibility to kalo products and locally grown vegetables

COLLABORATIONS

Certification Program

Develops a reputable and sought after 'āina workforce certification program for youth and adults.

Job Training

Attracts workforce development and job training opportunities to fully supply the local green workforce sector.

Network Hub

Builds a network hub of local, regional and international 'āina based partners to create radical change in food systems, education, health, land and economic development and to increase access to integrated and holistic programming for Kaua'i's youth.

Indigenous Evaluation

Leads in indigenous evaluation describes and quantifies linkages to measurable health benefits related to increase of kalo consumption /access to 'āina stewardship

Outputs

- Develop and maintain workforce housing
- # of `āina certifications that are conferred each year
- # of public-private partnership agreements executed each year
- Increase number of skilled farmers actively farming on Kaua'i, O'ahu, year by year
- # of workshops/presentations provided to build the capacity of local communities in Hawai'i and abroad

ATTRACI

Appendix D Kumano I Ke Ala Organizational Chart



KUMANO I KE ALA ORGANIZATIONAL CHART

