



Exxon Valdez Oil Spill Trustee Council
Long-Term Research and Monitoring, Mariculture, Education and Outreach
Annual Project Reporting Form

****For Instructions for each section below, see Reporting Policy, II (B); the Reporting Policy can be found on the website, <https://evostc.state.ak.us/policies-procedures/reporting-procedures/>***

Project Number: 24220301

Project Title: Social, cultural and economic assessment of kelp mariculture opportunities for coastal villages within the EVOS spill zone

Principal Investigator(s):

Aaron Poe, Alaska Conservation Foundation (PI)

Kevin Berry, Department of Economics, University of Alaska Anchorage

Willow Hetrick, Chugach Regional Resources Commission

Jacqueline Keating, Alaska Department of Fish and Game, Division of Subsistence

Dune Lankard, Native Conservancy

Michael Stekoll, University of Alaska Southeast

Thomas F. Thornton, Alaska Coastal Rainforest Center, University of Alaska Southeast

Reporting Period: Feb 1, 2024 – January 31, 2025

Submission Date (Due March 1 immediately following the reporting period): March 12th.

Project Website: N/A

Please check all the boxes that apply to the current reporting period.

☐ **Project progress is on schedule.**

☒ **Project progress is delayed**

Due to not receiving a signed contract for funding until October of 2022 we remain delayed in some aspects of the project. Further, two significant personnel changes as well as two new opportunities caused the project team to re-evaluate our approach relative to Hypothesis 1 & 2. These changes are documented in the FY23 annual report.



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☐ **Budget reallocation request.**

Nothing additional is being requested at this time.

☒ **Personnel changes.**

We added Rachel Lekanoff to our team here at Alaska Conservation Foundation where she is a Research Coordinator for the Aleutian and Bering Sea Initiative. Rachel is a marine scientist, with an M.S. in Oceanography and a B.S. in Environmental Science. Since getting her master's, Rachel has worked on behalf of the Unanga tribes on a variety of projects including tribal fisheries co-management, climate resilience, and environmental remediation. She is now also a graduate student at UAF as a Tamamta fellow pursuing a PhD in Fisheries. Her research interests include genomics as an ecological monitoring tool for Alaskan coastal ecosystems. Academically and professionally, she endeavors to elevate Indigenous Knowledge to develop a more holistic view of the marine ecosystems all Alaskans rely on.

1. Summary of Work Performed:

Our Kelp Values has made significant progress this year connecting with the communities within the spill region. This includes presentations and focused sessions at Chugach Regional Resource Commission's annual subsistence gathering that brings all the Chugach Tribes to Anchorage each March. We were also invited to both spring and fall forums (2024) of the Kodiak Archipelago Leadership Institute (KALI) which hosted our team allowing us to share updates on our current work and offered a forum to invite participation in future work. These gatherings have proven critical for making and maintaining connections between our research team and community members from the region. We are currently engaged with five communities (Ouzinkie, Port Graham, Nanwalek, Port Lions, and Seward (Qutekcak Native Tribe) across H1 and H2 and are in discussions with several more in one aspect of the project or another.

We continue to hold monthly team check ins for all Kelp Values Partners and planned a focused team meeting in Sitka in association with the Alaska Mariculture Conference in February of



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2025. This session will be professionally facilitated, allowing the PI and all project partners to participate in a guided review of our progress to date and consider some different options for how we begin to pull the existing and expected results together at the approximate midpoint of this project. Some potential opportunities to engage with the other EVOSTC funded kelp projects that we will be discussing in that meeting are detailed in Section 3.

Finally, our full Kelp Values team has completed an initial consultation with Axiom Data Science to share the types of data currently being collected by teams as well as expected data in the remainder of the project. These helpful collaborations with Axiom also afforded some new thinking about how we might share some of our findings in more alternative and interactive formats.

H1: Evaluation of historical ecology, distribution and practices of traditional Indigenous mariculture and subsistence harvest activities is necessary for effective site selection of potential future mariculture sites. Key highlights from 2024 include:

- Dr. Thornton and PhD student Karen Grosskreutz (UAS) have completed an extensive Institutional Review Board (IRB) process through the University of Alaska system allowing them to proceed with their research. They have also conducted outreach via letters to 17 Tribes in the spill zone. These letters explain their portion of the Kelp Values project and a formal request to conduct research in their communities focused on documenting, traditional, historic and contemporary values around kelp and seaweed. This effort has helped the UA system explore a different way of conducting social science/ethnographic research centering the interests of tribal communities. They have had follow up interest from some communities and completed some early pilot interviews in Kodiak in fall of 2024 and will be returning to the region in spring of 2025.

- Dr. Tom Bell (subcontractor for UAS) completed an expansion of surface kelp mapping using Landsat TM imagery into southeast Alaska under leveraging funding from another research grant. The completion of that model is allowing him to begin mapping surface kelps in the Spill Zone which is underway at the time of writing in March of 2025 and expected to be completed in late summer or early fall for 2025.



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- The Native Conservancy (NC) has contracted David Guilfoyle, an anthropologist who specializes in a community engagement methodology known as Healthy Country Planning was developed in collaboration with Aboriginal communities in Australia. David and his team from Applied Archaeology International (AIA) have completed one full Healthy Land and Sea Plan (HLSP) working with Ouzinkie and had initiated two others with Nanwalek and The Qutekcak Tribe of Seward. The Ouzinkie plan was developed over multiple visits to that community and has returned a detailed plan documenting important perspectives of the community to guide mariculture development. As the inaugural HLSP it has also identified some changes in approach that will be needed to complete subsequent plans.

- Chugach Regional Resources Commission (CRRC) has been supporting the efforts of the UAS, ADF&G Subsistence and NC/AIA team to connect with their communities in the region. They made kelp mariculture a key focus of their annual Celebration of Subsistence gathering in March of 2024. This brings all 7 of the Chugach communities in Prince William Sound and Lower Cook Inlet into Anchorage and allowed our full Kelp Values team to present the full arc of our project (H1-H3) to the gathering (80+ people) as well as attend their annual potlatch as part of their formal gathering. They also set up individual communities to participate in their own briefings from NC/AIA, ADF&G, and UAS to have more focused discussion to determine if communities were interested in collaborating on their efforts. These key engagements helped catalyze collaborations with Nanwalek, Port Graham, and Qutekcak Tribes.

- Dr. Stekoll has exhausted the published literature documenting kelp and seaweed specimens from the spill zone region and has included all instances into an online portal which has been shared with data managers from Axiom Data Science. Working with NC/AIA and ACF we are exploring a 'field school' type collaboration with one of our partner communities for summer of 2025 to allow youth the opportunity to participate in new specimen collection.



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D=delayed, X=planned or not completed, C=completed

H1 Milestones/Tasks	FY 22/23 ¹				FY24				FY25				FY26				FY27			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Identifying which kelp forests have been affected by the EVOS	C	C	C	C	C	C	C	C	X	X	X	X	X							
Anthropological research at focal communities		C	C	C	C	C	C	C	X	X	X	X	X	X	X	X	X	X		
Engage with 21-30 Alaska Native tribes located within the EVOS spill zone-listening tour led by Native Conservancy	C	C	C	C																
Create a story map					C	C	C	C	X	X	X	C								
Develop children's books ²									X	X	X	C								
Cultural GIS mapping		C	C	C	C	C	C	C	X	X	X	X	X	X	X	X	X	X		
Research and document Indigenous place names and their associations with mariculture resources and sites used by communities historically		C	C	C	C	C	C	C	X	X	X	X	X	X	X	X	X	X		
Peer reviewed paper																		X	X	X
Data posted online																		X	X	X

H2: New kelp mariculture activity that is led by Indigenous communities in the spill zone will have additional benefits relative to subsistence harvest and commercial fishing activities at the local scale. Key highlights from 2024 include:

-Christian Woodard from ADF&G conducted several Life History mapping interviews with the communities of Port Graham and Nanwalek focused on individuals from these communities who are identified as expert harvesters for kelp and seaweeds. These interview efforts have also allowed ADF&G to take a new approach to collect new data specific to these types of harvesters that will enrich their understanding of data that isn't always reflected in their standard household surveys. These surveys have returned map harvest distributions for

¹ A delay in funding set our project back several months such that significant work did not begin until the latter few months of FY22, with the majority of effort focused in FY 2023.

² The project team is now questioning if this deliverable is appropriate and necessary and aims to consult with the CORaL Team to discuss more impactful and appropriate communication products.



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decades of time and also resulted in an expanded map of Sustung place names delineating key natural features of importance to kelp and seaweed harvest.

-The NC/AIA is also documenting perspectives on subsistence during their HLSP efforts as is the UAS team in their values mapping. Collectively our team will be working in 2025 to connect these insights with the aim of informing mariculture site selection efforts.

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H2 Milestones/Tasks	FY22/23 ³				FY24				FY25				FY26				FY27			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Confirm interest maintain relationships with Indigenous leadership from up to 10 partner communities who will participate in a five-year study			C	C	C	C	C	C	X	X	X	X	X							
Conduct incentivized household surveys	C	C	C	C	C	C	C	C	X	X	C									
Conduct targeted focus groups in partner communities to understand broader community interests												X	X	X	X	X	X	X		
Conduct post-farm household surveys									X	X	X	X	X	X	X	X	X	X		
Community Survey Reports									X	X	C									

H3: Kelp mariculture led by Indigenous communities presents a viable economic activity that can help attenuate continued impacts on commercial fishing in the spill zone. This research area was slated to begin in Year 2 (so functionally 2024 with the late start of the project) and some highlights from this past year include:

-Barbara Johnson with UAA has conducted interviews with 20 individuals from companies who currently would potentially purchase kelp products with the aim of understanding Business-to-Business (B2B) implications. Early findings suggest that barriers align closely with those faced by other Alaskan businesses exporting perishables—primarily logistical challenges related to transportation. Current industry efforts are based on the premise that a financially sustainable

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business model is possible. This research brings new information to evaluate the viability of such opportunities.

-Dr. Kevin Berry with UAA has completed the development of a willingness to pay survey using Qualtrix that will be targeted on thousands of potential kelp consumers on the west coast of the United State. A pilot of this survey will be distributed this spring to inform the full survey that will be launched in summer of 2025.

- Rachel Lekanoff and Aaron Poe with ACF completed a workshop at the Alaska Marine Science Symposium in late January centered on identifying research questions that mariculture farms could help address, the logistics of these partnerships, and compensation models that ensure fair participation. This gathering drew 30 individuals who highlighted important considerations including the importance of developing science questions in collaboration *with* operators to draw on their knowledge of the systems they are working in.

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H3Milestones/Tasks	FY22/23 ⁴				FY24				FY25				FY26				FY27			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Conduct a national willingness-to-pay survey to identify valuation perspectives									X	X	X	X	X							
Develop several Pilot projects														X	X	X				
Conduct a willingness-to-pay analysis for environmental monitoring data								C	X	X	X	X	X							
Survey and Interviews (B2B)					C	C	C	C	C											
Identify processing strategies			C	C	C	C	C	C	X	X	X	X	X	X						
Existing market channels			C	C	C	C	C	C	X	X	X	X	X	X						
Examine supply chain of products			C	C	C	C	C	C	X	X	X	X	X	X						

Closing Reflections and Recommendations from 2024:

We continue to benefit greatly from the gracious support and productive collaborations with the Kodiak Archipelago Leadership Institute (KALI) who in 2023 connected the communities

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they support with HLSP efforts and in 2024 helped do the same for our subsistence life history surveys and kelp and seaweed values interviews. Similarly, CRRC has been vital for connecting their colleagues on this team with their communities.

Though our project has generally been well received we have had some communities decline to work with our HLSP efforts at this time and expect that might also be true for others in our kelp and seaweed values interviews too. This appears to be a function of competing priorities in communities but also some concern about the source of the funding as well as lack of familiarity with, or perhaps even trust for, some of the project team entities. This was expected, and indeed our own budget across the teams was never intended to allow for full engagement of the project with 17 communities in the region. We do expect that we will be able to engage in productive collaborations with up to 10 communities but it's unlikely that it will include full HLSP development for all and instead will likely be a mix of HLSP, subsistence life history mapping, and kelp/seaweed values interviews. We are also in the process of exploring some additional funding to help supplement efforts for all three of the teams working with communities. In the event some communities are more interested in one of three engagement elements vs. another, we want the flexibility that this additional funding could bring to expand upon preferred efforts.

In closing the Kelp Values team has made significant progress during 2024 which saw all research teams active for the first time with H3 having planned for a year 2 start. Our team feels like we are at the mid-point of research and are starting to focus on how to integrate results of each other's work as well leverage the community connections being made by individuals to the benefit of the broader team.

This year our team has been reflecting more broadly on our work and CRRC's work on the project they lead; we started to think about ways to connect with the other EVOSTC funded projects. During our most recent strategy session in February, we reflected on some possible intersections with the Mariculture Research and Restoration Consortium (Mar ReCon) and the Community Organized Restoration and Learning (CORaL) Network projects. These draft ideas are of course limited based on our understandings of contemporary efforts of both projects and would of course be improved upon by the perspectives from those teams. We share them here as completely exploratory in hopes of attracting some potential points of collaboration:



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- NOAA via their NCOS office is leading a current effort across in Alaska to determine Areas of Opportunity (AOA) for mariculture that is compiling numerous GIS layers for habitat and some human use data as well. Could there be an opportunity to engage with NCOS across the 3 kelp research teams to see if we have information that could inform the AOA and vice versa—at least for the coastal region?
- Related to the above, could there be a complementary product from the AOA that could be focused to an audience of prospective new mariculture operators—and is this something that the CORaL project would have a potential interest in supporting the development of if so? We understand that Axiom has Mariculture Map project that was designed to be used by farmers and perhaps this could be repurposed to aid in such an endeavor.
- It's our understanding that there really isn't oceanographic data at fine enough resolution to predict ideal mariculture site selection. We would be curious to learn if the Mar ReCon team is developing insights in this regard and if that team can see ways that such information could be appropriately included into site guidance layers like what the AOA is putting together. CRRC also has an interest in this regard with their project as well.
- We understand that there may not be funding to assist Axiom with developing data visualization tools that could be used to access the data being produced by the 3 research projects. We would be open to exploring this jointly with the other research teams and are curious as to if this might be something that the CORaL project would have any interest in convening and helping to organize and support given their storytelling role?
- Our team is interested in engaging farmers working in our region more and wondered about some potential to do some joint workshops or other informal engagements where the projects could share out what we are doing and learn more from this important stakeholder group.
- Our team would be interested in talking with other research teams about what we have learned to date that might inform mariculture site permitting and perhaps also a strategy for how we might share our insights with relevant permitting agencies for their consideration and feedback.
- Finally, just in general we wondered if a professionally facilitated 'summit' of sorts might be of interest to other teams where a core group of researchers from each team might



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come together for 1-2 days to share results and learn about each other's work given that teams are a few years into their efforts.

2. Products:

Peer-reviewed publications:

NA

Reports:

NA

Popular articles:

NA

Conferences and workshops:

The Kelp Values and two of its research teams presented at the Spring and Fall Forums held by the Kodiak Archipelago Leadership Institute in 2024. Our team also presented our full project and all three research teams at CRRC's 2024 Subsistence Celebration. We also held a workshop at the Alaska Marine Science Symposium.

Public presentations:

NA

Data and/or information products developed during the reporting period:

NC/AIA developed a working Story Map documenting the Healthy Land and Sea Planning process that they have engaged in with Ouzinkie as a way to help explain to other potentially interested communities how the process works.



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Data sets and associated metadata:

An interactive map of published kelp and seaweed specimens from the spill zone has been completed and shared with Axiom.

Additional Products not listed above:

A Healthy Land and Sea Plan for the Alaska Native Village of Ouzinkie has been completed by NC/AIA.

3. Coordination and Collaboration:

The Alaska SeaLife Center or Prince William Sound Science Center

NA

EVOSTC Long-Term Research and Monitoring Projects

NA

EVOSTC Mariculture Projects

We continue to work very closely with CRRC on many aspects of the Kelp Values given they are a key member of our team. One key example was when CRRC partnered with the Kachemak Kelp Hub, a Homer-based organization, to host a kelp processing workshop with the Port Graham School. They invited members of our team and Christian Woodard, from ADF&G was able to attend providing a vital opportunity for networking and outreach to tribal members from that community.

Melissa Good remains a vital contact for our team to the Mar ReCon (project 24220302) team. She is invited to all of our team's monthly meetings to keep lines of communications open



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across all 3 EVOSTC projects. Aaron Poe was invited to present to their team in January of 2024 at their annual meeting but unfortunately had a family emergency and was not able to make it.

EVOSTC Education and Outreach Projects

Melissa Good also remains our best contact with the CORaL (project 24220400) team primarily through our monthly Kelp Values team check in meetings.

Trustee or Management Agencies

We worked with CRRC, Native Conservancy, Kodiak Archipelago Leadership Institute and a number of other regional partners on a \$3M proposal that was funded by NOAA in fall of 2024. The relationships built between ACF, CRRC, NC, and KALI via this project were vital in terms of building trust toward what we hope can become a new regional resilience partnership between communities, agencies and others in this “South Coast” region of Alaska. The proposal had numerous letters of support from across the region with a number of NOAA affiliates including the Kachemak Bay Research Reserve, Kasitsna Bay Laboratory, and Kodiak Marine Science Center, as well as DOI via the USGS Climate Adaptation Science Center and Kodiak National Wildlife Refuge among others.

Native and Local Communities

Project partners Native Conservancy, Kodiak Archipelago Leadership Institute, and Chugach Regional Resources Commission have both made outreach on the project to multiple Tribes within the region possible since we launched work in 2023. To date it seems the majority of Tribes are likely to have heard of the project and five (Ouzinkie, Port Graham, Nanwalek, Port Lions, and Seward, Qutekcak Native Tribe) across are active collaborations with us currently. We expect to add another 3-5 in 2025 based on current outreach efforts underway at time of writing.

4. Response to EVOSTC Review, Recommendations and Comments:

Science Panel Comments (FY22-FY23 Biennial Review)



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This is a 5-year project to assess how Indigenous kelp mariculture operations within the spill zone would be socially beneficial, economically viable and compatible with local cultural values of coastal communities. Best practices for the kelp mariculture industry will be investigated through the lens of historical ecological and subsistence food knowledge and practices, local Indigenous stakeholders, newly established and future kelp mariculture practitioners, scientists, and fishermen.

Some concerns were expressed by SP members. We understand the delay in funding and that much of FY22 was lost as a result. However, the very large key personnel turnover was concerning and raised questions regarding the ability of the project to be successful in the near term. We would appreciate a detailed update on personnel in the FY24 annual report.

It is not clear what the market is for kelp mariculture specifically for the species being grown. The SP would appreciate a direct appraisal of this. With delays in funding and significant personnel changes, it is understandable the progress was slowed.

While there are some concerns over loss of personnel originally associated with the proposal, the Science Panel, trusts the PIs to have made the appropriate decisions on replacements of critical personnel, and do not have any immediate concerns at this time.

PI Response: we explained the personnel changes to EVOS staff in early 2023 when they first surfaced and processed a formal amendment to the award in April of 2024 codifying those changes. The following is an excerpt from that amendment:

-
- *Bren Smith (GreenWave) has stepped down as a Co-PI due to GreenWave cutting back their overall engagement in the project due to timing and a shift in their focus away from Alaska; -Emily Stengel (GreenWave) will no longer be engaged as well. GreenWave's key contributions to the project relative to expertise around understanding economics of processing and markets for kelp products will now come of senior staff person: Samantha Garwin and she will be engaged in supporting UAA's survey design and analysis associated with Hypothesis 3.*
 - *Barbara Johnson (UAA) will assist with survey implementation that would have been originally implemented by GreenWave. Barbara's CV was shared in December of 2023.*



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- *Dr. Elizabeth Hoover (UC Berkeley) was originally listed as a Co-PI and is no longer able to manage a household subsistence survey program in the spill region. Instead, she will be contracted to assist with the design of narrative questions around historical ecology and cultural uses of kelp which will be implemented by other Co-PIs. Dr. Hoover will also assist with ethnographic analysis of these narrative questions.*
 - *Jacqueline Keating (ADF&G) will replace Dr. Hoover as a Co-PI and will manage the household subsistence survey program in the spill region. Jacqueline's CV was shared in December of 2023. She will be assisted by fellow ADF&G employees Christian Woodard for subsistence survey work and Gayle Neufeld for spatial summaries of subsistence harvest.*
 - *Dr. Jen Rose (a planned contract for Native Conservancy) who had originally been identified as a contractor for Native Conservancy to lead their cultural values mapping efforts, is no longer available to serve in this role. These efforts will now be led by contractor David Guilfoyle (Applied Archaeology International) who is an expert in cultural values mapping and an Indigenous planning procedure known as Healthy Country Planning. David's CV was shared in December of 2023.*
 - *We are adding new capacity at ACF in the form of a Research Coordinator position who will be joining our organization in May of 2024. They will assist with economic valuation of potential data collection efforts mariculture installations and once their offer letter is accepted (expecting early May of 2024) we can share a CV as we plan to add them as a CO-PI for this project.*

Rachel Lekanoff is now in place as that Research Coordinator as described in Personnel Changes above along with her bio and is contributing to the project most specifically in H3.

With regards to the economic value of relative to specific species of kelp and seaweeds our research under H3 may shed some light on that particularly relative to insights gained by our interviews with business-to-business wholesalers.

Executive Director Comments (FY22-FY23 Biennial Review)

I concur with the Science Panel. This project's progress remains delayed due to delays in receiving FY22 funding and two significant personnel changes. Annual reports were two weeks late, but the expected delays and the reasons for that delay were communicated to staff by the PI. Staff are considering switching the reporting requirements for this project to quarterly



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reporting to increase oversight on the personnel changes and how they are affecting progress. Funding for this project is co-managed by ADF&G and the EVOSTC Office. During FY22-FY23, only two invoices were submitted. Invoices and supporting documents are easy to review. Budget summary on the annual report is easy to track. PI submitted a Proposal Amendment due to personnel changes and anticipation of overspending. The Proposal Amendment was approved by the Executive Director. Staff have no additional concerns at this time.

PI Response: We are happy to report at whatever interval feels most comfortable to the EVOSTC Office

PAC Comments (FY22-FY23 Biennial Review)

Stephens asked about key personnel turnover and effects on the project. Poe explained the University of California – Berkeley was going to lead a portion of the project, but they withdrew over a year ago. However, ADF&G Division of Subsistence agreed to step in to conduct household surveys among subsistence communities.

PI Response: This is correct we are grateful for the new partnership with ADF&G Division of Subsistence in this effort when Dr. Hoover and Berkeley could no longer lead that component.

Whissel asked if ADF&G conducted surveys consistent with previous EVOS-funded subsistence surveys, so that data is comparable. Poe stated they are using a slightly different approach because of the overall small amount of seaweed harvest documented in previous surveys. They are using life history mapping, which is a spatial approach that dives deeper and asks knowledge holders about harvests through their lifetime and how their community harvest has shifted and changed. Whissel appreciated the deeper dive that can cover previous data points and add value to and extend long-standing data sets and research the Trustee Council no longer funds.

PI Response: The life history survey approached focused on experts within households who specialize in harvesting kelp and seaweed is necessary given that the overall magnitude of that harvest is relatively minor compared to other subsistence resources. This means that comprehensive harvest for all species is not being collected by this proposal. However, a GIS, mapped synthesis of all household harvest from the last 20 years collected by ADF&G Division of Subsistence is one of our early products that was completed in 2024.



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Stephens did not think it was the PI's responsibility to determine the market for kelp species (the Science Panel requested a direct market appraisal), which is an industry problem. Whissel introduced a motion to proceed with no concerns. Stephens seconded, and Stekoll and Cunningham recused themselves. There was no opposition, and the motion passed with unanimous support from all voting members.

5. Budget:

Budget Category:	Proposed FY 22	Proposed FY 23	Proposed FY 24	Proposed FY 25	Proposed FY 26	5-YR TOTAL PROPOSED	ACTUAL CUMULATIVE	FY25 Carryover Request
Personnel	\$49,625	\$27,338	\$103,783	\$134,183	\$128,232	\$443,161	\$96,251	\$346,910
Travel	\$0	\$5,876	\$11,288	\$14,884	\$8,650	\$40,698	\$10,832	\$29,866
Contractual	\$316,428	\$475,556	\$567,276	\$543,349	\$495,684	\$2,398,292	\$639,429	\$1,758,863
Commodities	\$0	\$0	\$750	\$799	\$972	\$2,521	\$3,741	(\$1,220)
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Indirect Costs (report rate here)	\$64,059	\$89,035	\$110,777	\$111,890	\$104,546	\$480,307	\$131,294	\$349,013
SUBTOTAL	\$430,112	\$597,804	\$793,874	\$805,105	\$738,083	\$3,364,978	\$881,547	\$2,483,431
General Administration (9% of subtotal)	\$38,710	\$53,802	\$71,449	\$72,459	\$66,427	\$302,848	N/A	N/A
PROJECT TOTAL	\$468,822	\$651,607	\$865,323	\$877,564	\$804,511	\$3,667,826		
Other Resources (In-Kind Funds)	125,000.00	-	-	-	-	\$125,000		