PROPOSAL:

Exxon Valdez Oil Spill Marine Habitat
Harbor Water Quality Improvement Program

Submitted By:

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16 November 2012

CCH Project Partners: PWS Oil Spill Recovery Institute – PWS Science Center – Copper River Watershed Project – Native Village of Eyak – PWS Keeper – Cordova District Fishermen United – US Forest Service Cordova District – Alaska Sea Grant Marine Advisory Program - F/V *Alpine* – F/V *Chagvan*

PROJECT SUMMARY
Proposer: Native Village of Eyak
Title: Cordova Clean Harbor
Site: Cordova, Alaska
Land Owner: City of Cordova
Start Date: 1 June 2013
Habitat/Species benefiting: Cordova Harbor and Surrounding Water

Project Scope: In late 2010, a group of concerned local residents along with several organizations, including the Native Village of Eyak (NVE), formed a coalition named Cordova Clean Harbor project (CCH) with the following goals:

- Bring a local, physical presence down into the Cordova Harbor to promote clean boating practices through education and information dissemination,
- Engage local harbor staff, marine businesses, Coast Guard, and non- profit organizations in supporting increased use of available services, and
- Evaluate, recommend and assist with improving user practices and augmenting critical harbor services

Over the past two years we have worked to raise awareness of issues related to the harbor and collect input from harbor users to identify ways in which the harbor could be improved. Over three hundred and fifty responses to harbor user surveys were received over the two years. The input indicated that there is broad interest in improving harbor conditions, increasing garbage bin availability, anti-freeze and waste oil management, and bilge pumping services. Over forty percent of respondents in 2012 indicated that they supported more public education and signage.

NVE proposes a portfolio of several projects. The following components were identified by CCH over the past two years:

- Addressing waste and antifreeze disposal. This will be achieved by providing new waste receptacles and locations that reduce the chance of materials being lost back to the environment while making it easier to properly dispose of waste.
- Examining ways to improve our ability to respond to small spills and waste in the harbor. To achieve this we are looking at a workshop for identifying the best technologies for small spill cleanup, testing some of the approaches in the harbor, developing a small spill response document, and holding a competition at the high school level to build a better clean up system.
- Continued outreach activities aimed at educating harbor users to best practices that will reduce waste reaching the harbor. This will be done using signage and development of outreach materials,
- Evaluate the effectiveness of the effort by tracking changes in use patterns and PAH levels in mussels.

Project Outputs/Outcomes: Report
Time Line:

Organization	Activity	Present May 2013	June 2013	July 2013	Aug 2013	Sept 2013	Oct 2013-Mar 2014	April 2014	May 2014	June 2014	July 2014	Aug 2014	Sept 2014	Oct 2014-Mar 2015	April 2015	May 2015	June 2015	July 2015	Aug 2015	Sept 2015	Oct 2015-Dec 2015
NVF	Mussel Sampling																				
	Antifreeze Shed construction																				
	Antifreeze Backhaul																				
	Antifreeze Recycling Purchase																				
	Research and Reporting																				
	Evaluation																				
Prince William Sound-keeper CCH	Education/Outreach																				
	Distribute materials																				
	Bi-weekly volunteer dockwalk																				
	create and distribute newsletter																				
	evaluation																				
	reporting																				
	Trash Management Plan																				
	Harbor Signage																				
	Battery Shed																				
	Evaluation																				
OSRI	Small Spill Demonstration Project																				
	Small Spill Workshop																				
	High-School Design Contest																				

Permits and Approvals: Approval from the Harbormaster's office and the City of Cordova's Assistant Manager. See letters of support for documentation.
Federal Funds Requested: $417,441.22
Non-Federal Match Anticipated: None
Overall Project Cost: $417,441.22

PROJECT NARRATIVE

Goal: The goal of the proposal is to reduce the amount of oil, and solid and hazardous waste reaching the Cordova harbor.

Importance and Applicability:
Like many public harbors, the Cordova Harbor is faced with chronic oil and debris pollution. Annually waters in and around the harbor are coated with spilled petroleum products, mostly the result of contaminated bilge water, and debris from boat maintenance projects. The chronic level of oil within the harbor has led to it being used as a positive control for hydrocarbon studies in Prince William Sound (Thomas et al. 2007). Additionally, litter management in the harbor is a constant challenge for city staff.

The 700 harbor slips are occupied, with additional transient moorage heavily utilized in the summer months. With a broad range of vessels operations using the harbor including commercial fishing boats, tenders, charter, recreation/sail and subsistence skiffs, a portfolio of approaches is required to improve water quality including an increased and consistent public education and awareness of clean harbor practices and availability of harbor services is vital.

The goal of this proposal addresses priorities 4 and 8 of the funding announcement by targeting a reduction in oil and solid waste entering the Cordova harbor. The approaches we propose will address priorities 9, 10, 11, 13, and 16 as well.

Background:

The Native Village of Eyak (NVE) is a federally recognized tribe representing Alaska Natives from Cordova and the surrounding area. Cordova is a rural town of about 2,250 people located on the eastern side of Prince William Sound. Cordova is a rural town accessible only by air or water. Many tribal members are employed by the commercial fishing industry, which is the backbone of Cordova's economy. NVE is the largest tribe on the Copper River with a membership of about 582 people, which constitutes about 25% of Cordova's population. NVE includes Alaska Natives of Eyak, Chugach Eskimo, Aleut, Aluttiq, Athabascan, Yupik, Inupiat, Tlingit, and Haida/Tsimshian backround.

The 5-member Traditional Council that promotes self-determination to its tribal members governs NVE. Under the guidance of the Council, tribal offices provide health and social services, economic development, natural resource/environmental education, jobs, and job training to NVE. The tribe operates in a way that is acceptable to Alaska Native cultural values and traditions in order to enhance the well being of our people both physically and spiritually. The council seeks to enrich tribal living through community-operated tribal programs and self-determination opportunities.

In late 2010, a group of concerned local residents along with several organizations began a collaboration named Cordova Clean Harbor Project (CCH) with the following goals:

- Bring a local, physical presence to the Cordova Harbor to promote clean boating practices through education and information dissemination,
- Engage harbor staff, businesses, federal government agencies (USFS, USCG), and local organizations in supporting increased use of available services, and
- Evaluate, recommend and assist with improving user practices and augment critical harbor services

In 2011, CCH piloted a user survey to gather harbor user suggestions for keeping the harbor cleaner. A summer intern at a local NGO interviewed 50 commercial fishermen. To heighten awareness of needed harbor improvements, survey respondents were given a bilge sock absorbent that included information on available harbor services, contact information, etc. This exercise indicated there was broad interest in improving harbor conditions, and increasing garbage bin availability, anti-freeze and waste oil management, and bilge pumping services.

In 2012 a more extensive user survey and outreach effort was undertaken. CCH obtained small grants from two member organizations which produced three outcomes: 1) producing a project banner with a logo, rack cards with harbor services information, and two freestanding colorful display boards depicting harbor conditions, issues and solutions, 2) hiring of a quarter-time project coordinator, and 3) design a survey for dissemination by a volunteers. The survey was conducted at the harbor twice weekly for 2 months during the summer. Survey respondents received a bilge absorbent. Input from tender operators was gathered via surveys distributed through their respective seafood processors. Over 100 surveys responses from local resident and recreational users were obtained via an on-line website designed by CCH. This group was contacted via community email lists as well as through a CCH booth at the spring community health fare. Over 40 percent of respondents supported "more public education and signage" in the harbor.

Technical Approach and Community Outreach:
NVE proposes a portfolio of several projects. These components were identified in the past two years. The focal areas include:

- Addressing waste and antifreeze disposal around the harbor (addresses priorities 4, 8, and 11 of the funding announcement).
- Examining ways to improve our ability to respond to small spills and waste in harbors (addresses priorities 4, 8, and 9).
- Continued outreach activities aimed at educating harbor users to best practices that will reduce waste reaching the harbor (addresses priorities 4, 8, 10, 13, and 16).
- Evaluate the effectiveness of the effort.

Each focal area is addressed through a number of specific projects. The detail of each component follows.

Waste Disposal:
Trash management
Through CCH surveys, ongoing conversations with the Harbor Commission, and discussions with Harbor staff, we will focus on two priority activities over the next three years: 1) develop and implement a comprehensive harbor trash bin management plan (2013), and 2) development and installation of harbor signage highlighting user services, locations, maps and contact information (2014). In 2015, project evaluation and future planning will take place.

Trash management continues to be a chronic problem in the harbor and was recognized as one of the highest priority issues in both surveys. Over the years, many harbor land use plan revisions have resulted in a general decrease in the number of bins available at convenient locations, problems with overflow, avian scavenging in opened bins, etc.

We propose to address this issue in three ways: 1) coordinate discussion between Harbor staff, City Public Works, and Harbor Commission to develop a Harbor Waste Bin Management Plan; 2) investigate alternative bin designs and installation; and 3) communicate trash management alternatives and changes to the fleets.

Development of a Management Plan will require evaluating current bin usage, disposal responsibility, location, maintenance costs, and other factors. Once the current system is evaluated, solutions such as increasing the number of bins, determining efficient locations, modification of bins, and installation of cement containment pads will be evaluated and implemented in coordination with the City.

The proposed design includes building an 18 foot by 8-foot cement pad with a curb on three sides and the fourth side open for rubbish truck access. The cement pad would be sloped towards the center where a 2-foot by 4 foot rectangular opening would be located and a metal grate installed allowing water to drain away. Under the metal grate, removable absorbent pads would be installed for collecting any waste oil or oily spills other than water. Under the absorbent pads would be a base of coarse gravel allowing water to drain away. A cement slab of this size would hold two 8 cubic yard rubbish bins.

Around the cement slab on three sides would be a six-foot tall chain link fence with privacy slats installed to make the rubbish bins less visible to the public and passerby. A tall fence would also help retain any waste or debris that should fall out of the rubbish bins from either wind, animals or overflow. Funding this project would not only allow easier access for harbor users to the rubbish bins at the Cordova boat harbor but also help contain any debris that should escape from the rubbish bins preventing a major source of water pollution.

Antifreeze Disposal Demonstration Project

Antifreeze is accepted and stored in drums at the City's baler facilities at mile 1.2 Whitshed Road, which has limited hours of operation. There is no current plan for the recycling or back hauling of the antifreeze collected. It is disposed of with the city's sewage once the storage area gets too full. According to the summer survey conducted by CCH, over 85% of harbor users said they would use an antifreeze receptacle if it were provided near the harbor.

Antifreeze can be neutralized by most sewer systems, however the toxins can be too much for some ecosystems to bear. Antifreeze should be treated as potentially hazardous waste and should never be dumped on the ground, in the water, or in dumpsters. Waste antifreeze can contain high levels of heavy metals including lead and chromium. Ethylene glycol is extremely toxic to humans and animals, even in small amounts. The City of Cordova's Harbormasters office has noted that many people currently dump anti-freeze into the used oil receptacle or into the harbor directly.

Alternatives to dumping the waste anti-freeze into the sewer system will be investigated. It is anticipated that a community the size of Cordova will generate approximately 500 gallons of anti-freeze for disposal and removal each year. We will keep track of how much anti-freeze is disposed of at the harbor and at the city baler. Three alternatives currently exist that will be examined; 1) Backhaul out of Cordova via transportation service 2) The purchase of a antifreeze recycling unit and training of city staff to operate. 3) Contracting with a mobile anti-freeze service to come to Cordova and recycle the waste antifreeze. Both recycling options produce a reusable anti-freeze that can be put back into a system. Research will include examining costs for back hauling, recycling, and to explore possible re-use of the anti-freeze in Cordova to find a viable alternative to dumping into the sewer.

We are proposing a pilot demonstration project over the next 3 years to see if backhauling or recycling of antifreeze would be a better fit for our community. The pilot project will examine costs and effectiveness of anti-freeze disposal, collection, storage, and transportation out of Cordova. The first step is the construction and installation of a anti-freeze waste receptacle located near the waste oil receptacle at the Cordova Harbor. It will consist of a shed with a secondary containment and a large plastic drum with lid to dispose the liquid. Clearly labeled signs will be created to show how to properly dispose of waste oil and anti-freeze. Education outreach will be conducted on of anti-freeze disposal and the dangers associated with negligent dumping. The harbor anti-freeze will be disposed of with the anti-freeze collected at the city baler until a safer alternative is created.

The second step is to ship no more than 10 drums filled with used anti-freeze to a recycling company in Anchorage after fishing season late fall 2013. Costs will be analyzed for this demonstration service to see how feasible and cost efficient it is to implement a backhauling program of anti-freeze out of Cordova.

The third step is the purchase of an anti-freeze recycling unit for the collected waste. Key personnel will be trained on the operation of the unit. Antifreeze from the harbor will be recycled and used to see how viable a product it is. Total costs for the backhauling will be compared to the total costs it would take to create and operate a antifreeze recycling station located in Cordova. City and Harbormaster will be engaged throughout this demonstration project, and the outcome will be an antifreeze management plan.

Small Spill Response

Over the past ten years there have been many advances in booms and skimmers used in large oil spills. However, most spills are less than a few gallons and come from activities in harbors or slow leaks from sunken vessels. The cumulative effect of the very small spills within the harbor can be significant. They provide a negative impression about the care of the marine resources and lead to increased hydrocarbon exposure. The many small spills have caused the Cordova boat harbor to be used as the positive control for oil pollutions studies (Thomas et al. 2007). These spills spread quickly over a large area and are very thin and difficult to clean up. Even larger spills will thin out to the point where large skimming systems are not efficient. Beach cleaning activities also may bring small amounts of oil back to the sea surface that is too small for conventional skimming equipment.

While there has been a focus on technology for large spills (see Wendy Schmidt X prize http://www.iprizecleanoceans.org/) the much more numerous small spills have not received much attention. Even small skimmers tend to require a large hydraulic power plant and separate collection systems to operate. In sheens even the best of the hydrophilic skimmers will still collect a significant amount of water that must be disposed of. Absorbent boom can be pulled across the water surface well, but has a small contact area. Absorbent pads have a large contact area, but are difficult to move on the water while maintaining contact.

We are proposing a multi-prong approach to address the need for improved capabilities to respond to small spills.

- We will hold a workshop to bring technical expertise together to explore ways in which small spills can be dealt with effectively.
- We will purchase some promising pieces of equipment to use as demonstration projects within the Cordova harbor.
- We will bring together stakeholders to develop a plan for responding to small spills.
- And we will support a competition among high school students to build a better recovery system.

Small spill cleanup workshop

The first component of the small spill response section is to hold a workshop of technical experts to explore response to small spills. We envision a workshop similar to the Alliance for Coastal Technologies and Oil Spill Recovery Institute's "Hydrocarbon sensors for oil spill prevention and response" (http://www.pws-osri.org/publications/Hydrocarbon%20Sensors.pdf). It would be a two-day workshop, most likely in Cordova, and address issues associated with responding to small spills. Participants will be asked to assess the capabilities and limitations of current technologies, and provide recommendations for research and development to improve our capabilities to respond to small spills. We expect about 20-30 participants with expertise in spill response, equipment development, harbor masters, and vessel owners. The workshop will generate a written report outlining the needs and recommendations.

We will identify other potential funding sources to seek matching funds. The Oil Spill Recovery Institute has identified this topic as an area of interest in their fiscal year 2013 work plan and money is available to contribute to the workshop. Discussions with spill response industry members provide an indication that this is the type of workshop they would also be willing to contribute to, although it is not possible to get commitments for other sources of funding as of the time this proposal is being written.

Demonstration of small spill clean up

Another aspect of our approach is to purchase some existing systems to be demonstrated in the Cordova harbor. The equipment we would like to demonstrate includes a wet-dry vacuum system, spill response kits for mounting on the dock, small nets that can be used to remove solid waste, and installation of absorbent boom in areas where oily waste is likely to accumulate. We will have volunteers and vessel owners use the equipment and provide feedback on the utility of various pieces of equipment for use in the harbor.

One type of equipment we will evaluate is an industrial wet-dry vacuum cleaner, such as the Big Brute Swarfman Industrial vacuum cleaner. It would be used for bilge pump outs too small for the existing system, cleanup of small solid waste, and potentially to remove material from the water surface.

We propose to purchase small spill response kits that would be appropriate for prepositioning along the docks (e.g. the Universal Drum Spill Kit available from Uline, www.uline.com) Kit will likely include absorbent pads, absorbent pillows, and sections of absorbent boom. We feel that the closer the initial response gear is to the vessels the more likely any spill will be contained.

Small items blown off boats or dropped on the way to disposal bins tend to accumulate within slips. We propose to purchase nets similar to those used to clean pools to allow volunteers to be able to scope out the solid debris.

Other pieces of equipment may be identified during the workshop and we propose some funding to allow additional equipment purchases for demonstrating their capabilities for response in the harbor.

While not exactly novel, we would like to purchase absorbent boom for deploying in areas where waste and debris tend to collect. We propose to purchase 300 feet of boom for each year to determine if the prepositioned boom can reduce the oily waste within the harbor. The prepositioned boom would be used to help remove contamination before it can spread to other areas when the tide or winds change direction. It will be deployed alongside of docks where waste tends to accumulate and in a position where it does not interfere with normal vessel operations.

Competition to improve clean up technology

The last aspect of the small spill response is to hold a competition among high schools to design a better system for cleaning up small spills. We contacted the Alaska National Ocean Science Bowl (NOSB) to see if the competition as described below can be incorporated into their activities. They have expressed an interest in the proposed activity, but exact details about how the program would be run will need to be determined.

The PWSSC has worked with NOSB in the past to hold a competition to build and pilot remotely operated vehicles. We envision a similar competition where teams would be provided a budget to

purchase materials needed to build their solution, set of criteria that the system must meet, and a testing scenario. The competition will consist of two parts. The first focuses on the effectiveness of the approach. A fish tote will be used for the test environment and vegetable oil for the test-product. Each team would be judged on the time needed to clean up a set amount of oil and the efficiency of their system. The efficiency being the amount of oil versus amount of water or other waste collected. The second portion of the test is to demonstrate that the system can clean the area of a harbor slip and the time needed to clean an area. Each system will be taken to the harbor and shown that it can be used to reach all points within the slip. No oil surrogate will be used. Cash prizes will be awarded to the top three finishers based on a score that combines recovery speed, efficiency, and speed for sweeping a region.

User Education:

Harbor signage

As highlighted in our survey results, harbor users are very open to additional directional signage in the harbor. Signage is a positive way to inform the public of available harbor services, contact information, and reinforce best practices.

In partnership with Harbor staff, Harbor Commission and project partners, a variety of hurricane metal signs will be developed for key traffic areas in the harbor. In addition, two permanent sign boxes will be installed to allow for rotation of posters, photos, and information.

Harbor outreach

Highest harbor use months are April through mid-September with several key times when different gear types are present. Gillnet drift fleet (over 500 vessels) and an accompanying tender fleet (50 vessels) use the harbor beginning mid-April prior to the traditional start of the Copper River sockeye and king seasons. In early June, gillnetters generally split fishing time between fishing opportunity in Prince William Sound and the Copper River. Also in early June, several purse seine vessels (50 to 80 vessels) begin using the harbor to prepare for PWS pink and chum fishing. Seiners generally leave the Cordova harbor for the duration of the season about July 1st, returning for repairs and provisioning before the end of their season in late August. The five-month gillnet season continues for cohos in mid-August through the end of September.

On an annual basis, this project proposes activities during two time periods:

April 1 through September 30:

- Outreach education material distribution at cannery welcome-back picnics, fishing association annual meetings, etc. including flyers, user surveys as necessary, bilge socks, etc.
- Distribute materials to processors for summer tender fleet
- Research, write and record five PSA announcements on harbor waste management highlights, best practices, services, etc. for broadcast on KLAM Cordova & KCHU Valdez radio.
- Coordinate weekly and bi-weekly volunteer dockwalk teams (4-6 persons). Activities to include: trash pick up, sheen/organic debris pick up; assist harbor staff with monitoring cart condition, garbage bin/web recycling van loads; place passive sausage boom and roped absorbents in high sheen concentration areas; answer public questions; administer surveys, etc.
- In advance of each season, compile a newsletter to be mailed to all harbor slip owners (700). Items to include: update on harbor improvements, changes, etc., best management

practices for oil, hydraulic, bilge water management; reminders of existing waste management systems in the harbor, harbor photos, etc.

October 1 through March 31:

- Coordinate development of annual projects; conduct evaluation
- Coordinate partner communication and input to Harbor Commission, Harbor staff, city
- Conduct monthly partner meetings
- Reports to partners & funders

Evaluation:

To annually evaluate project effectiveness, the project coordinator will:

- Annually review annual summer outreach and winter infrastructure projects and report back to CCH committee and funders
- Document the number of bilge pump uses/requests as compared to previous year (available from harbormaster)
- Develop, distribute and analyze harbor surveys, as necessary, to identify challenges in achieving clean practices, suggestions for improvement, equipment needs, etc.
- Monitor PAH, BTEX, and pathogen levels in mussel tissues conducted twice per year

Thomas, R.E., M. Lindberg, P.M. Harris, and S.D. Rice, 2007, Induction of DNA strand breaks in the mussel (Mytilus trossulus) and clam (Protothaca staminea) following chronic field exposure to polycyclic aromatic hydrocarbons from the Exxon Valdez spill, Mar. Pol. Bul., 54(6), 726-7

DETAILED BUDGET

NOAA Harbor Water Quality Improvement Proposal Budget Table						
Expenses	**2013**	**2014**	**2015**	**Total**	**In-kind**	**Requested**
Direct						
Salaries and Wages						
NVE Clean Harbor Coordinator (25 FTE at $55,000/year)	$ 13,750.00	$ 13,750.00	$ 13,750.00	$ 41,250.00	$ 6,000.00	$ 35,250.00
NVE DENR Department Head (10 FTE at $70,000 year)	$ 7,000.00	$ 7,000.00	$ 7,000.00	$ 21,000.00	$ 6,000.00	$ 15,000.00
Fringe Benefits	$ 6,225.00	$ 6,225.00	$ 6,225.00	$ 18,675.00	$ 3,600.00	$ 15,075.00
Equipment						
Skimmer	$ 5,000.00	$ -	$ -	$ 5,000.00	$ 5,000.00	$ -
Supplies Expenditures						
Anti-Freeze disposal shed design and construction	$ 10,000.00	$ -	$ -	$ 10,000.00	$ -	$ 10,000.00
Antifreeze backhaul and recycle	$ 4,750.00	$ -	$ -	$ 4,750.00	$ -	$ 4,750.00
Antifreeze recycling machine	$ -	$ 5,000.00	$ -	$ 5,000.00	$ -	$ 5,000.00
Filters and drums	$ -	$ -	$ 250.00	$ 250.00	$ -	$ 250.00
Sausage Boom	$ 500.00	$ -	$ -	$ 500.00	$ 500.00	$ -
Absorbent Pads	$ 500.00	$ -	$ -	$ 500.00	$ 500.00	$ -
Oily Waste Bags	$ 500.00	$ -	$ -	$ 500.00	$ 500.00	$ -
sorbent wringer	$ 200.00	$ -	$ -	$ 200.00	$ 200.00	$ -
Contractual Expenditures						
Education and Outreach (Prince William Soundkeeper)						
Outreach Coordinator	$ 28,800.00	$ 28,800.00	$ 28,800.00	$ 86,400.00	$ -	$ 86,400.00
Volunteer Coordinator	$ 3,200.00	$ 3,200.00	$ 3,200.00	$ 9,600.00	$ -	$ 9,600.00
Annual mailings	$ 500.00	$ 500.00	$ 500.00	$ 1,500.00	$ -	$ 1,500.00
Rack cards, poster, banner	$ 2,500.00	$ 2,500.00	$ 2,500.00	$ 7,500.00	$ -	$ 7,500.00
Advertising	$ 1,500.00	$ 1,500.00	$ 1,500.00	$ 4,500.00	$ -	$ 4,500.00
Raingeer, absorbents, gloves, trash bags	$ 1,000.00	$ 1,000.00	$ 1,000.00	$ 3,000.00	$ -	$ 3,000.00
Bilge socks	$ 300.00	$ 300.00	$ 300.00	$ 900.00	$ -	$ 900.00
Sausage boom	$ 2,000.00	$ 2,000.00	$ 2,000.00	$ 6,000.00	$ -	$ 6,000.00
Harbor carts	$ 1,500.00	$ -	$ -	$ 1,500.00	$ -	$ 1,500.00
Harbor Signage (Prince William Soundkeeper)						
Design and Production	$ 10,000.00	$ -	$ -	$ 10,000.00	$ -	$ 10,000.00
Battery Shed (Prince William Soundkeeper)						
Battery Shed Construction	$ 2,000.00	$ -	$ -	$ 2,000.00	$ -	$ 2,000.00
Garbage Bin Management Plan and Improvements (PWS)						
Printing and supplies	$ 1,500.00	$ -	$ -	$ 1,500.00	$ -	$ 1,500.00
bins. purchase, freight, installation	$ 31,000.00	$ -	$ -	$ 31,000.00	$ -	$ 31,000.00
Workshops (OSRI)						
Small Spill Demonstration Project (OSRI)						
vaccuum	$ 1,000.00	$ -	$ -	$ 1,000.00	$ -	$ 1,000.00
spill kits (4 @ 2,000)	$ 8,000.00	$ -	$ -	$ 8,000.00	$ -	$ 8,000.00
nets	$ 200.00	$ -	$ -	$ 200.00	$ -	$ 200.00
boom	$ 2,000.00	$ 2,000.00	$ 2,000.00	$ 6,000.00	$ -	$ 6,000.00
other	$ 2,000.00	$ -	$ -	$ 2,000.00	$ -	$ 2,000.00
Small Spill Workshop (OSRI)						
travel	$ 25,000.00	$ -	$ -	$ 25,000.00	$ -	$ 25,000.00
High-School design contest (OSRI)						
$1000/team at 25 teams	$ 25,000.00	$ -	$ -	$ 25,000.00	$ -	$ 25,000.00
prize money	$ 2,250.00	$ -	$ -	$ 2,250.00	$ -	$ 2,250.00
other	$ 200.00	$ -	$ -	$ 200.00	$ -	$ 200.00
Miscellaneous						
Mussel Biomonitoring Lab analysis 2/year	$ 1,500.00	$ 1,500.00	$ 1,500.00	$ 4,500.00	$ -	$ 4,500.00
Sample Shipping 2/year	$ 200.00	$ 200.00	$ 200.00	$ 600.00	$ -	$ 600.00
Sample - Other	$ 200.00	$ 200.00	$ 200.00	$ 600.00	$ -	$ 600.00
subtotal	$ 201,775.00	$ 75,675.00	$ 70,925.00	$ 348,375.00	$ 22,300.00	$ 326,075.00
Indirect	$ 56,537.36	$ 21,204.14	$ 19,873.19	$ 97,614.68	$ 6,248.46	$ 91,366.22
Total	**$ 258,312.36**	**$ 96,879.14**	**$ 90,798.19**	**$ 445,989.68**	**$ 28,548.46**	**$ 417,441.22**

Budget Narrative

NVE has well-established administrative capacity, including procedures for accounting, auditing, evaluating, reviewing, and reporting. NVE has a mature financial management system and qualified staff necessary to properly administer the requested funding for the project. NVE has well maintained computer systems and broadband Internet service for easy grant management. The program has expanded to include emergency response oversight, subsistence resource monitoring, environmental regulatory enhancement, water quality oversight, assessment and monitoring, and natural resource and environmental planning. NVE is requesting $417,441.22 for this project. The overall budget for the Harbor Water Quality Improvement Program is $445,989.68 including $28,548 in in-kind resources and $91,366.22 for NVE's indirect costs. Total direct costs for the project come to $417,441.22.

Salaries and wages include a NVE Clean Harbor Coordinator at .25FTE and a NVE DENR Department Head at .10FTE, totaling $62,250. However, NVE is contributing $12,000 of in-kind services for these positions, which brings the total requested amount to $50,250. NVE's fringe rate of 30% of salaries and wages totals to $15,075.

The only piece of equipment is a skimmer that NVE will contribute to the project in-kind worth $5,000.

Supplies include all components to create and install a new anti-freeze waste receptacle at the Cordova Harbor. Supplies consist of secondary containment material, lumber, tools, plastic storage drums with lids, and signage. Supplies also include the cost of an anti-freeze recycling unit which is estimated to be $3,000-$4,000 plus shipping, and the cost of filters and connections. The total for the supplies for the antifreeze demonstration project is $15,000.

Contractual

NVE requests $235,050 for all contractual work with CCH partners and is broken down into cost per project below.

- Education and Outreach total requests are $120,900. This amount covers all costs, including salary of two seasonal coordinators, for three years. This team will produce deliverables that include annual mailings, rack cards, posters, banners, and advertisements. Purchases will include raingear, gloves, trash bags, bilge socks, sausage boom, and harbor carts. The outreach team will consist of the two coordinators and volunteers who will engage harbor users on CCH efforts, improvements, proper disposal methods, and will seek feedback and information through surveys. The education and outreach team will annually evaluate project effectiveness.

- Harbor Signage requests $10,000 for the design, production, and installation of directional signage to be placed within and around the harbor. Signs will highlight user services, locations, maps and contact information. In addition, two permanent sign boxes will be installed to allow for rotation of posters, photo, and information.

- Battery Shed design and construction requests $2,000 to design, construct, and install a shed that serves as a battery collection location.

- Garbage Bin Management Plan and Improvements requests a total of $32,500. This amount in includes the purchase, freight, and installation costs of bins, and costs for supplies and printing.

- The Small Spill Demonstration Project requests a total of $17,200. This amount includes the purchase of a wet/dry vacuum, spill kits, nets, boom, and other supplies for demonstration within the harbor for the effectiveness of small spill clean up.

- The Small Spill Workshop requests a total of $25,000 to create and conduct a workshop of experts on small spill recovery. This amount includes $25,000 for travel to and from Cordova for out of town experts, and $7,000 for three months of research, planning and preparation, and report writing.

- The High School Design Contest requests a total of $27,450 for cost of supplies, prize money, and other. A set amount of $1,000 will be given to each of the 25 teams for their design. Prize monies will be awarded to winning teams at a total of $2,250.

Other costs include shipping and analysis for the Mussel Biomonitoring Plan, which totals $5,700. This accounts for two sampling events (summer and winter) each year for three years. Each sampling event, includes cost of lab analysis, supplies (coolers and ice), and shipping is budgeted at $950. Other costs include the anti-freeze backhauling cost from Cordova to Anchorage budgeted at $5,000 for 2013.

NVE's indirect rate is 28.02%. Indirect costs total $91,366.22 for the purpose of this grant.

In-Kind donations from NVE include $15,600 in wages for NVE's Clean Harbor Coordinator and Director of Environmental and Natural Resources. In addition, NVE will be donating $6,700 in oil spill response equipment and supplies to the program.

Total direct costs requested under the Harbor Water Quality Improvement Program grant are $326,075. NVE's federally negotiated indirect cost rate is 28.01%, so we are requesting an additional $91,366.22 for indirect. NVE's in-kind contribution totals $28,548.46, leaving the total requested funds for this project is $417,441.22.

MONITORING PLAN APPROPRIATE FOR PROJECT PROPOSED

The proposed monitoring plan will be modeled after Prince William Sound Regional Citizen's Advisory Council's (PWSRCAC) Long Term Environmental Monitoring Plan, which is similar to NOAA's Musselwatch program. It consists of bi-annual collection of mussels taken from a location within the harbor for multiple analysis. This type of biomonitoring will show physical and biological changes as harbor water quality improves and will show baseline data relative to when our project begins. The mussel is an important indicator species within the Cordova harbor because they are important food for sea birds and sea otters and are found readily within the harbor. Mussels are filter feeders and take up contaminants readily. A sample workplan will be developed and samples will be collected in summer and winter. Locations for sample collection will be along the breakwall or near the grid where boat haul out is common. The analyses for mussel tissue biomonitoring will include, but not limited to, Polycyclic Aromatic Hydrocarbons (PAH), Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), and total pathogens.

PROJECT DESIGN PLANS
Not available at this time

A SITE LOCATION MAP
The image below shows Cordova's harbor, with Old Harbor, New Harbor and dock floats clearly labeled.

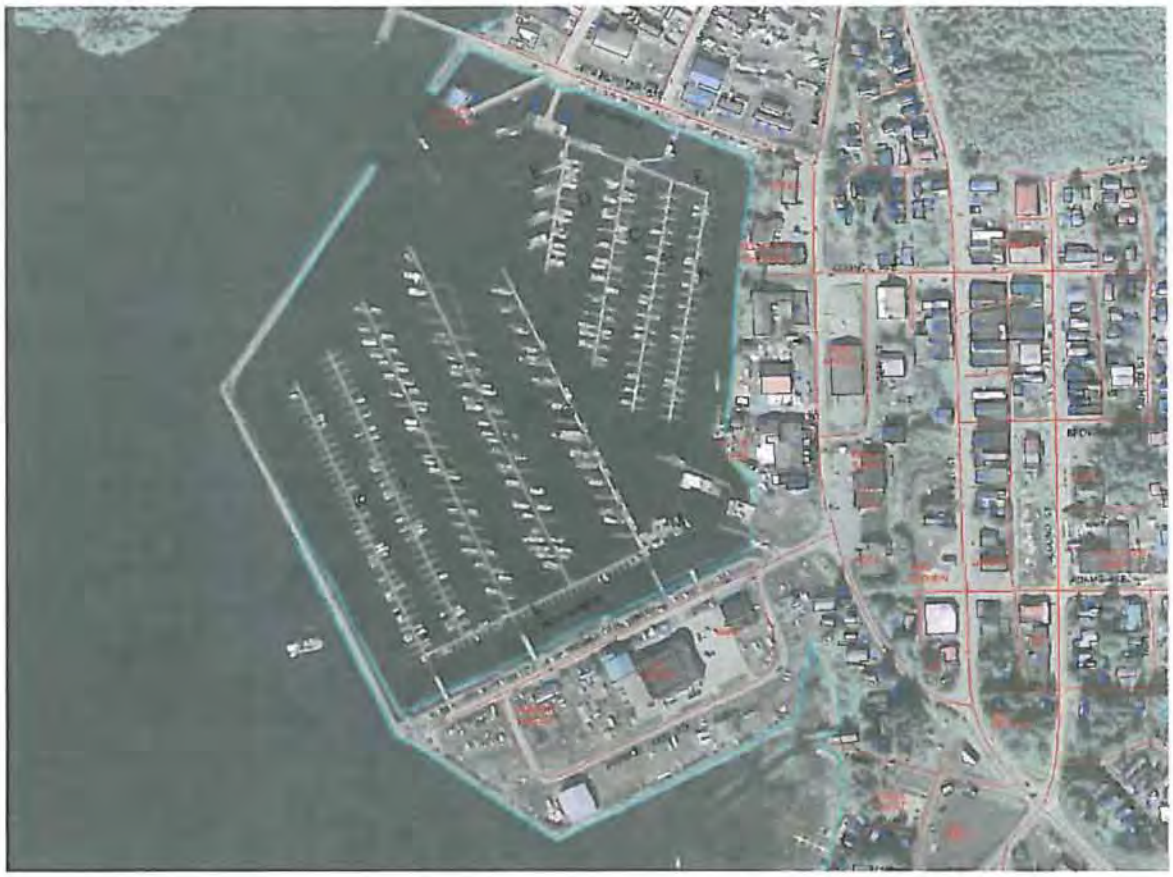

Figure 1. Map of the Cordova Harbor in downtown Cordova, Alaska.

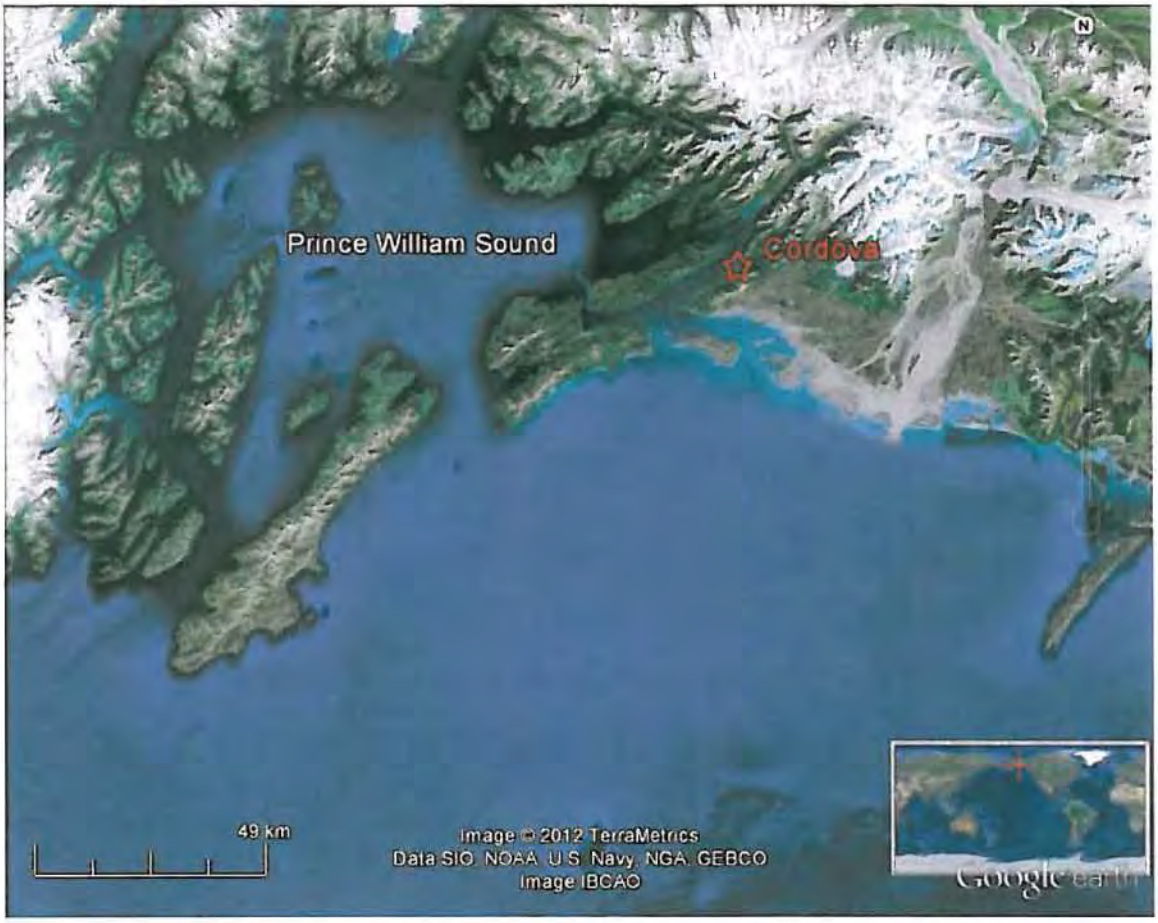

Figure 2. Map of Prince William Sound showing the location of the City of Cordova (☆).

BUDGET NARRATIVE

NVE has well-established administrative capacity, including procedures for accounting, auditing, evaluating, reviewing, and reporting. NVE has a mature financial management system and qualified staff necessary to properly administer the requested funding for the project. NVE has well maintained computer systems and broadband Internet service for easy grant management. The program has expanded to include emergency response oversight, subsistence resource monitoring, environmental regulatory enhancement, water quality oversight, assessment and monitoring, and natural resource and environmental planning. NVE is requesting $417,441.22 for this project. The overall budget for the Harbor Water Quality Improvement Program is $445,989.68 including $28,548 in in-kind resources and $91,366.22 for NVE's indirect costs. Total direct costs for the project come to $417,441.22.

Salaries and wages include a NVE Clean Harbor Coordinator at .25FTE and a NVE DENR Department Head at .10FTE, totaling $62,250. However, NVE is contributing $12,000 of in-kind services for these positions, which brings the total requested amount to $50,250. NVE's fringe rate of 30% of salaries and wages totals to $15,075.

The only piece of equipment is a skimmer that NVE will contribute to the project in-kind worth $5,000.

Supplies include all components to create and install a new anti-freeze waste receptacle at the Cordova Harbor. Supplies consist of secondary containment material, lumber, tools, plastic storage drums with lids, and signage. Supplies also include the cost of an anti-freeze recycling unit which is estimated to be $3,000-$4,000 plus shipping, and the cost of filters and connections. The total for the supplies for the antifreeze demonstration project is $15,000.

Contractual
NVE requests $235,050 for all contractual work with CCH partners and is broken down into cost per project below.

- Education and Outreach total requests are $120,900. This amount covers all costs, including salary of two seasonal coordinators, for three years. This team will produce deliverables that include annual mailings, rack cards, posters, banners, and advertisements. Purchases will include raingear, gloves, trash bags, bilge socks, sausage boom, and harbor carts. The outreach team will consist of the two coordinators and volunteers who will engage harbor users on CCH efforts, improvements, proper disposal methods, and will seek feedback and information through surveys. The education and outreach team will annually evaluate project effectiveness.

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DETAILED BUDGET TABLE

NOAA Harbor Water Quality Improvement Proposal Budget Table						
Expenses	**2013**	**2014**	**2015**	**Total**	**In-kind**	**Requested**
Direct						
Salaries and Wages						
NVE Clean Harbor Coordinator (.25 FTE at $55,000/year)	$ 13,750.00	$ 13,750.00	$ 13,750.00	$ 41,250.00	$ 6,000.00	$ 35,250.00
NVE DENR Department Head (.10 FTE at $70,000/year)	$ 7,000.00	$ 7,000.00	$ 7,000.00	$ 21,000.00	$ 6,000.00	$ 15,000.00
Fringe Benefits	$ 6,225.00	$ 6,225.00	$ 6,225.00	$ 18,675.00	$ 3,600.00	$ 15,075.00
Equipment						
Skimmer	$ 5,000.00	$ -	$ -	$ 5,000.00	$ 5,000.00	$ -
Supplies Expenditures						
Anti-Freeze disposal shed design and construction	$ 10,000.00	$ -	$ -	$ 10,000.00	$ -	$ 10,000.00
Antifreeze backhaul and recycle	$ 4,750.00	$ -	$ -	$ 4,750.00	$ -	$ 4,750.00
Antifreeze recycling machine	$ -	$ 5,000.00	$ -	$ 5,000.00	$ -	$ 5,000.00
Filters and drums	$ -	$ -	$ 250.00	$ 250.00	$ -	$ 250.00
Sausage Boom	$ 500.00	$ -	$ -	$ 500.00	$ 500.00	$ -
Absorbent Pads	$ 500.00	$ -	$ -	$ 500.00	$ 500.00	$ -
Oily Waste Bags	$ 500.00	$ -	$ -	$ 500.00	$ 500.00	$ -
sorbent wringer	$ 200.00	$ -	$ -	$ 200.00	$ 200.00	$ -
Contractual Expenditures						
Education and Outreach (Prince William Soundkeeper)						
Outreach Coordinator	$ 28,800.00	$ 28,800.00	$ 28,800.00	$ 86,400.00	$ -	$ 86,400.00
Volunteer Coordinator	$ 3,200.00	$ 3,200.00	$ 3,200.00	$ 9,600.00	$ -	$ 9,600.00
Annual mailings	$ 500.00	$ 500.00	$ 500.00	$ 1,500.00	$ -	$ 1,500.00
Rack cards, poster, banner	$ 2,500.00	$ 2,500.00	$ 2,500.00	$ 7,500.00	$ -	$ 7,500.00
Advertising	$ 1,500.00	$ 1,500.00	$ 1,500.00	$ 4,500.00	$ -	$ 4,500.00
Raingeer, absorbents, gloves, trash bags	$ 1,000.00	$ 1,000.00	$ 1,000.00	$ 3,000.00	$ -	$ 3,000.00
Bilge socks	$ 300.00	$ 300.00	$ 300.00	$ 900.00	$ -	$ 900.00
Sausage boom	$ 2,000.00	$ 2,000.00	$ 2,000.00	$ 6,000.00	$ -	$ 6,000.00
Harbor carts	$ 1,500.00	$ -	$ -	$ 1,500.00	$ -	$ 1,500.00
Harbor Signage (Prince William Soundkeeper)						
Design and Production	$ 10,000.00	$ -	$ -	$ 10,000.00	$ -	$ 10,000.00
Battery Shed (Prince William Soundkeeper)						
Battery Shed Construction	$ 2,000.00	$ -	$ -	$ 2,000.00	$ -	$ 2,000.00
Garbage Bin Management Plan and Improvements (PWS)						
Printing and supplies	$ 1,500.00	$ -	$ -	$ 1,500.00	$ -	$ 1,500.00
bins: purchase, freight, installation	$ 31,000.00	$ -	$ -	$ 31,000.00	$ -	$ 31,000.00
Workshops (OSRI)						
Small Spill Demonstration Project (OSRI)						
vaccuum	$ 1,000.00	$ -	$ -	$ 1,000.00	$ -	$ 1,000.00
spill kits (4 @ 2,000)	$ 8,000.00	$ -	$ -	$ 8,000.00	$ -	$ 8,000.00
nets	$ 200.00	$ -	$ -	$ 200.00	$ -	$ 200.00
boom	$ 2,000.00	$ 2,000.00	$ 2,000.00	$ 6,000.00	$ -	$ 6,000.00
other	$ 2,000.00	$ -	$ -	$ 2,000.00	$ -	$ 2,000.00
Small Spill Workshop (OSRI)						
travel	$ 25,000.00	$ -	$ -	$ 25,000.00	$ -	$ 25,000.00
High-School design contest (OSRI)						
$1000/team at 25 teams	$ 25,000.00	$ -	$ -	$ 25,000.00	$ -	$ 25,000.00
prize money	$ 2,250.00	$ -	$ -	$ 2,250.00	$ -	$ 2,250.00
other	$ 200.00	$ -	$ -	$ 200.00	$ -	$ 200.00
Miscellaneous						
Mussel Biomonitoring Lab analysis 2/year	$ 1,500.00	$ 1,500.00	$ 1,500.00	$ 4,500.00	$ -	$ 4,500.00
Sample Shipping 2/year	$ 200.00	$ 200.00	$ 200.00	$ 600.00	$ -	$ 600.00
Sample - Other	$ 200.00	$ 200.00	$ 200.00	$ 600.00	$ -	$ 600.00
subtotal	$ 201,775.00	$ 75,675.00	$ 70,925.00	$ 348,375.00	$ 22,300.00	$ 326,075.00
Indirect	$ 56,537.36	$ 21,204.14	$ 19,873.19	$ 97,614.68	$ 6,248.46	$ 91,366.22
Total	**$ 258,312.36**	**$ 96,879.14**	**$ 90,798.19**	**$ 445,989.68**	**$ 28,548.46**	**$ 417,441.22**

The Eyak Corporation
901 1 stAvenue Street
PO Box 340
Cordova, AK 99574
Email: aarnold@eyakcorp.com
Toll Free: (800) 478-7161
Phone: (907) 424-7161
Fax: (907) 424-5161

November 1, 2012

Elise Hsieh
Executive Director
EVOS Trustee Council
4210 University Drive
Anchorage, AK 99508-4626

Dear Ms. Hsieh,
I am writing on behalf of Eyak Corporation in regards to the Native Village of Eyak's (NVE) Harbor Water Quality Improvement Program. The Eyak Corporation (TEC) supports NVE's efforts to improve water quality and reduce pollution in and around Cordova's small boat harbor.

The Eyak Corporation (TEC) is a village corporation representing 326 original shareholders. Orca Inlet and Prince William Sound holds profound significance for our people culturally and for subsistence. The Eyak Corporation has been an active partner of NVE's Community for a Renewed Environment Program (CARE). In 2012, community members chose Cordova Harbor Water Quality as CARE's number one priority for action. Cordova's small boat harbor has become polluted through poor design, negligence, and misuse. Many of our fishermen are uneducated on proper hazardous waste disposal methods and some are unaware what services are provided. Our harbor lacks adequate dumpsters that attract birds and bears and litter is always present. We support NVE and partners to educate and inspire our shareholders and community members to be proud of our harbor and to keep it clean for future generations.

We hope you can support this project for the important benefits it will have for our harbor users and community members.

Sincerely,

Angela Arnold
Land Manager

COPPER RIVER WATERSHED PROJECT
Voices for a wild salmon economy

November 1, 2012

Elise Hsieh
Executive Director
EVOS Trustee Council
4210 University Drive
Anchorage, AK 99508-4626

Dear Ms. Hsieh,

On behalf of the Copper River Watershed Project (CRWP), I am writing to express my support for the Native Village of Eyak's (NVE) application for funds to improve Cordova Harbor water quality. As an organization that works to foster sustainable economic development, we are very concerned about harbor water quality and the degradation of our near shore waters, which support several commercially fished species on which Cordova's fleet depends for earning a livelihood.

The harbor is a concentrated source of water pollution for two reasons: town drainage patterns direct a large percentage of our stormwater run-off to the harbor and Orca Inlet, and the fishing fleet of boats in the harbor needs more facilities for managing the waste it generates.

Cordova Harbor is located in a prominent downtown location at the base of Mt. Eyak. The harbor is flooded with sediment-laden water washed from the surrounding streets with each storm. There is a need for adequate dumpsters around the harbor that will keep solid waste in and wildlife out. CRWP supports education, outreach, and implementation of best operation practices to keep petroleum and other hazardous liquids out of our waters. CRWP has supported NVE's Community Action for a Renewed Environment (CARE) program and together we have worked on keeping dog waste out of our watershed by starting a "Clean Streets, Clean Streams, Clean Shoes" scoop the poop program. CARE's top priorities include water quality. Harbor pollution was identified by the CARE community group as the number one priority for action.

I urge your support for this important project that will help NVE work with other community organizations and harbor users to improve facilities for keeping waste materials out of our near shore waters.

Sincerely,

Kristin Carpenter

Kristin Carpenter, Executive Director

P.O. Box 1560, Cordova, AK 99574 tel 907.424.3334 web www.copperriver.org

Prince William SOUNDKEEPER®

PO Box 1368, Cordova, Alaska 99574
Phone: 1-907-424-5701
www.pwsoundkeeper.org
info@pwskeeper.org
Tax id # 45-0538213

November 8, 2012

Dear NOAA Funding Representative,

Prince William Soundkeeper (PWSK) is very proud to be a part of the Cordova Clean Harbor Project. By working together, the various environmental organizations that are involved in the goal of protecting Prince William Sound's ecosystem are able to produce meaningful results without duplicating or confusing efforts. Because of this group's past success in working towards bringing awareness to the Cordova harbor user groups and local citizens, the Board of Directors for PWSK strongly agrees that continuing this collaboration is a very important part of fulfilling the Water Keeper Alliance mission of protecting and enhancing the waters of Prince William Sound through stewardship and education.

The funding currently available through NOAA will provide much needed support to continue and expand this project through the next few years.

Prince William Soundkeeper strongly supports the efforts of this group to obtain funding through this NOAA water quality funding opportunity.

Please feel free to contact me with any questions.

Regards,

Kate McLaughlin
President and Executive Director

Sea Grant Alaska

Marine Advisory Program
School of Fisheries and Ocean Sciences
University of Alaska Fairbanks
PO Box 830 ~ Cordova, AK 99574
907.424.7542 ~ fax 907.424.3673

November 10, 2012

To Whom It May Concern:

On behalf of the Alaska Sea Grant Marine Advisory Program, I am writing in support of the Native Village of Eyak/Cordova Clean Harbor Project grant application to enhance local residents' efforts in improving management of Cordova Harbor oil and debris pollution. The Marine Advisory Program (MAP) is the outreach, research and extension unit within the University of Alaska Fairbanks School of Fisheries and Ocean Sciences. Our faculty is involved statewide in support of coastal community sustainability through university-supported research and outreach programs.

Cordova ranks in the top ten U.S. seafood ports. Salmon and halibut commercial landings are valued at over 120 million dollars annually with volumes in excess of 80 million pounds. Unlike Kodiak (third ranked U.S. seafood port) or Dutch Harbor (top ranked U.S. seafood port) where generally larger (80 to 200 foot) and fewer vessels are landing substantial catches, Cordova's fleet is comprised of over 600 individually owned and operated vessels (28 to 58 foot). This mix of fishing operations, tender vessels, subsistence and recreational skiffs, agency research vessels, barges, etc. makes for an intensely utilized harbor.

The 700-slip harbor is truly the economic heart of this community providing services and moorage for local fishing operations as well as vessels transiting and working in the Prince William Sound region. In my role with MAP, I have had the pleasure to be involved with the Cordova Clean Harbor Project since it's inception in 2010.

The Cordova Clean Harbor partnership is a cross-cutting group of residents and organizations leading a grassroots, resident-based effort to improve harbor conditions through public education, small spill response training, and infrastructure enhancement. The group successfully works with the Cordova Harbor Commission as well as Harbor staff. Project partners have extensive experience in oil spill technology (Oil Spill Recovery Institute), biological monitoring (Native Village of Eyak), as well as wide general public support (PWS Keeper, Copper River Watershed Project, Cordova District Fishermen United, et. al.). As exemplified in the volunteer-administered harbor user surveys (over 350 responses) during the pilot phase of the project, many Cordovans voiced their vested interest and support in the harbor's continued improvement.

This project is building on a local initiative focused on deliverable products, is collaborative, and will substantially improve harbor services to the benefit of local as well as regional boaters and vessel operators. I urge support of this application, and please contact me if I can answer any question.

Regards,

Torie Baker, Fisheries Agent/Associate Professor
UAF School of Fisheries and Ocean Science

THE STATE of ALASKA
GOVERNOR SEAN PARNELL

Department of Environmental Conservation

DIVISION OF SPILL PREVENTION & RESPONSE
Prevention & Emergency Response Program

555 Cordova Street
Anchorage, Alaska 99501
Main: 907-269-3063
Fax:907-269-7648

November 13, 2012

Elise Hsieh
Executive Director
EVOS Trustee Council
4210 University Drive
Anchorage, AK 99508-4626

Dear Ms. Hsieh,

The Alaska Department of Environmental Conservation (ADEC) is writing to express its support for the Native Village of Eyak (NVE) and partners to improve Cordova Harbor water quality. ADEC'S Spill Prevention and Response (SPAR) program has worked with NVE in the past to promote oil spill outreach education, home heating oil tank safety, and to assist bringing a presence to the community for spill reporting procedures and emergency response.

ADEC continues to support communities that choose to promote safe management practices for solid and hazardous waste storage, transfer, containment, and disposal. Harmful fluids such as antifreeze, petroleum, paints, and other solvents must be kept out of our state's waterways.

ADEC SPAR supports and looks forward to assisting NVE with exploring additional ways to improve the community and the State of Alaska's ability to prevent and respond to spills in the Cordova harbor. There is a need for continued collaboration with entities in Cordova to work together and develop a durable and safe protocol for spill prevention, outreach, and spill removal/response.

We hope you can support this project for the important benefits it will have for Cordova Harbor users and community members alike.

Sincerely,

John L Brown

John Brown,
Environmental Program Specialist IV

CITY OF CORDOVA

Elise Hsieh
Executive Director
EVOS Trustee Council
4210 University Drive
Anchorage, AK 99508-4626

November 14, 2012

Dear Ms. Hsieh,

The City of Cordova is writing to express its support for the Native Village of Eyak's (NVE) efforts to improve Cordova Harbor water quality. Water quality and harbor pollution is of great concern to the City since a majority of our residents and their families are harbor users. Cordova's harbor is vital not only for commercial fishing, which is Cordova's main economic driver, but for recreation and subsistence purposes as well.

There are noted concerns:

- During large rainfalls, the harbor gets infiltrated with water runoff washed from the surrounding streets.
- There is a continued need for improved dumpsters around the harbor that will keep solid waste in and wildlife out.
- There is a continued need to improve disposal of waste materials in safe locations adjacent to the harbor and for education of users.

The City fully supports education, outreach, and implementation of best operation practices to keep petroleum and other hazardous liquids out of our waters. Previously the City has partnered and supported NVE's Community Action for a Renewed Environment (CARE) program and together we have worked on keeping dog waste out of our watershed by starting a "Clean Streets. Clean Streams. Clean Shoes." Scoop the poop program. CARE's top priorities include water quality, with Harbor Pollution being the number one priority for action.

We hope you can support this project for the important benefits it will have for our harbor users and community members alike.

Sincerely,

Cathy Sherman

Cathy Sherman
Assistant City Manager

CC: Tony Schinella, Harbormaster

602 Railroad Avenue P.O. Box 1210 Cordova, Alaska 99574 Telephone (907) 424-6200 Fax (907) 424-6000

PRINCE WILLIAM SOUND
OIL SPILL RECOVERY INSTITUTE

P.O. Box 705
Cordova, AK 99574
(907) 424-5800 Fax: (907) 424-5820

November 14, 2012

Ivy Patton
Native Village of Eyak
PO Box 1388
Cordova, AK 99574

Dear Ivy,

The purpose of the Prince William Sound Oil Spill Recovery Institute (OSRI) is to support research, education, and demonstration projects designed to respond to and understand the effects of oil spills in the Arctic and sub-Arctic marine environments. The Cordova Clean Harbors proposal, which will examine ways to prevent, educate about, and respond to small spills, is directly related to OSRI's mission.

Demonstration projects that occur in Cordova but are successful will have transferability to other locations. Disseminating information about successful small spill response technologies and best practices is a priority to OSRI. By supporting research, education, and partnerships, OSRI regularly engages in the translation of technical information for non-technical audiences. We fully support your proposal's community engagement tactics through outreach activities designed to reduce the likelihood of small spills and increase the effectiveness of small spill response.

We hope your proposal will be successful and I look forward to helping generate positive outcomes. OSRI is pleased that our research program manager, Dr. Scott Pegau, will be able to contribute his considerable expertise to this project.

Regards,

Katrina Hoffman
President and CEO, Prince William Sound Science Center
khoffman@pwssc.org

PRINCE WILLIAM SOUND
SCIENCE
CENTER

Katrina Hoffman, President & CEO
Prince William Sound Science Center
PO Box 705
Cordova, Alaska 99574

Ivy Patton
Native Village of Eyak
Cordova, AK 99574

November 14, 2012

Dear Ivy,

The Prince William Sound Science Center has been very supportive of Cordova Clean Harbors activities as they have progressed over recent years. Two years ago, our education staff helped mentor the Clean Harbors intern and assisted with refining the messages she delivered to the initiative's target audience. We have provided storage for bilge pillows that were distributed and our staff have contributed input to Clean Harbors meetings as well as helped create the survey that was distributed in summer 2012.

The Science Center's mission is oriented towards understanding regional ecosystems, but also educating folks about them and ensuring that our communities understand their interconnectedness and dependence upon sustainable natural resources. The Cordova Harbor is a primary point of access between the community of Cordova and the waterfront. Further, the Science Center building sits on pier pilings in the harbor, and our research vessel is docked in the harbor.

We support evidence-based solutions to improving harbor conditions. We also support efforts to educate the community about the challenges of our harbor's conditions, and ways that they can contribute to solutions. Providing outreach and infrastructure to address the issues raised in the community survey are practical approaches. We fully support your proposal to NOAA to address hazardous waste and waste management issues.

Sincerely,

Katrina Hoffman
President and CEO, Prince William Sound Science Center
khoffman@pwssc.org

Cook Inletkeeper
3734 Ben Walters Lane
Homer, Alaska 99603

p. 907.235.4068
f. 907.235.4069
www.inletkeeper.org

November 14, 2012

Dear Exxon Valdez Oil Spill Trustee Council,

Cook Inletkeeper is pleased to support the Clean Harbors project proposed by the Native Village of Eyak and the Cordova Clean Harbors group. This project uses previously gathered information from local boaters, partner organizations, and community members to improve waste management and pollution prevention efforts at the Cordova Harbor.

As the lead organization of the Alaska Clean Harbors program, Cook Inletkeeper has been involved in clean boating and clean harbors efforts around the state since 2009. The kind of collaboration demonstrated in Cordova, and enhanced through this proposed project, serves as an example of how communities around the region can effectively tackle water quality and marine habitat protections with local, innovative solutions.

Coordination with the City Harbor staff and outreach to local fishermen and boat owners demonstrates this group's dedication to improving marine habitat and water quality through this project. I have been able to participate in several of their conversations regarding this proposal. We believe that funding of this project will benefit not only the area around the Cordova Harbor, but harbors and communities around the region by setting an example of effective collaboration towards common goals. The efforts put forth through this project have potential to lead the way towards creative solutions that can be implemented in other communities, thus adding to the pollution prevention toolbox for harbors throughout the *Exxon Valdez* spill area.

Cook Inletkeeper supports this kind of hands-on and collaborative effort to protect marine habitat and water quality. Please don't hesitate to contact me with any questions regarding our support for this proposed project.

Sincerely,

Rachel Elord

Rachel Lord
Outreach & Monitoring Coordinator

November 15, 2012

Elise Hsieh
Executive Director
EVOS Trustee Council
4210 University Drive
Anchorage, AK 99508-4626

Dear Ms. Hsieh,

The City of Cordova's Harbormasters Office recognizes and supports the work that the Clean Harbor Commission is doing. We are helping to bring awareness to the harbor that promotes best boating management practices for solid and hazardous waste alike. Trash and litter is a big problem near the harbor due to inadequate and abused dumpsters. There is a need for adequate dumpsters around the harbor that will keep solid waste in and wildlife out.

The education and outreach component is crucial to reach our harbor users about safe disposal of hazardous wastes such as oil, antifreeze, paint, and batteries. Signage around the harbor will encourage proper boat maintenance and encourage the prevention of litter and waste.

NVE and their partner's are exploring ways to improve the communication to prevent and respond to small spills in the Cordova harbor. There is a need for collaboration with entities in Cordova to work together and develop a durable and safe protocol for small spill prevention, outreach, and spill removal/response.

We hope you can support this project for the important benefits it will have for the Cordova Harbor and it's users.

Sincerely,

Anthony Schinella
Harbormaster, City of Cordova

Ivy Rae Patton
1005 Chase Avenue
Cordova, AK 99574

ivyraepatton@gmail.com
cell (907)360-4106

Education

B.S. Geology with Marine Science Minor. University of Hawaii at Hilo, May 2004
A.A.S. Engineering & Architectural Technology, University of Alaska, Anchorage, May 1997
Certificates received in Architectural, Civil, Electrical, Mechanical, and Structural drafting design, 1997
Certificate received in completion of Petroleum SuperSchool from Colorado School of Mines, 2007

Technical Skills

Computer Programs: Word, Excel, AutoCAD, GIS, Publisher, Seismic MicroTechnology (SMT), PowerPoint. Experience in surface and subsurface geological mapping and use of Trimble Global Positioning System equipment and hand-held GPS. Certified in 40-hour Hazwoper, first aid, and gun and bear safety.

Professional History

Brownfield/CARE Coordinator. Native Village of Eyak, Cordova, AK 11/2010 – present
Management of two government grants and support of other Department of Natural Resources programs, including grant writing and research. Emphasis on oil spill prevention and response, marine debris, harbor studies, and contaminated sites.

Environmental Geologist. Hoefler Consulting Group (HCG)/SLR Consulting, Anchorage, AK 12/2008-11/2010
Soil, sediment, and water sample collection at multiple project sites within the state of Alaska. Report writing, editing, and environmental baseline data collection.

Geologist. BHP Billiton. Anchorage, AK 2009
On-site geologist at an exploratory remote camp on Alaska's western north slope. Supervised drilling team and geology interns, and logged and photographed core.

Land Tech I. Arctic Slope Regional Corporation, Anchorage, AK 10/2006 – 6/2008
3-D seismic stratigraphy and well-log interpretation.

Geologist I. NovaGold Co., Nome, AK 4/2005 – 11/2005
On-site geologist at exploratory drilling sites. Supervised drilling team, identify minerals in gold pan, and logged and photographed core. Position was in remote locations for long lengths of time.

Transportation Planner. Kawerak, Inc., Nome, AK 2004 – 2005
Responsible for assessing construction need for local and village roads. Created drawings in AutoCAD and GIS with narratives that represent current conditions for routes needing improvements.

AutoCAD Technician I. Larsen Consulting Group, Anchorage AK 1997 –2002
Produce construction drawings. Architectural, civil, structural, mechanical and electrical AutoCad drafting.

John C. Whissel
Director
Department of Environment and Natural Resources
Native Village of Eyak

907.429.7869 (mobile)
907.424-7738 (office)

PO Box 1388
Cordova, Alaska 99574

education

I am a *cum laude* graduate of Allegheny College with a BSc. in Environmental Science/Marine Biology with a Marine Sciences certificate from Duke University. My bachelor's thesis demonstrated a strong correlation between streamside salamander density and diversity and riparian buffer width.

employment history

August 2012 to present. Director of Environment and Natural Resources. Native Village of Eyak. Promoted to department head, retained Environmental Coordinator duties (see below). Maintain and develop fisheries and wildlife research. Supervise department staff including Fisheries and Wildlife division, Renewable Energy division, Contamination and Remediation division.

November 2010-August 2012. Environmental Coordinator, Native Village of Eyak. Responsible for Indian General Assistance Program grant (EPA, manage Tribal recycling program, glacier monitoring, subsistence resource monitoring, manage and build Tribal GIS capacity, and monitor local Sea Otter population), Orphaned Moose Guardian program (USFWS, raise and wean captive moose calves orphaned elsewhere in Alaska and release them on the Copper River Delta to enhance herd genetic diversity), Moose Browse Winter Range Enhancement program (USFS, select areas on Tribal land undergoing forest succession from small woody shrubs to mature trees, and cut/mow these areas to encourage willow growth and improving habitat for supporting moose through the winter). Bear safety and firearms instructor, boating and water safety instructor. Trained and supervised field crews on Copper River Chinook Escapement Monitoring program (USFWS, mark recapture study of Chinook salmon to determine escapement from commercial and subsistence fisheries on the Copper River Flats), and RFID Streambed Monitoring program (USFWS, Install antenna in streambed of spawning tributary to detect external PIT tags on Chinook salmon).

April-September 2010. Wildlife Technician/Crew Leader, US Forest Service, Chugach National Forest, Cordova Ranger District. Worked on numerous Forest Service projects in Prince William Sound and the Copper River Delta including Dusky Canada Goose artificial nest island program, goose banding, pond ecology (invertebrate sampling, songbird monitoring, water chemistry), deer pellet surveys, Alaska Landbird Monitoring Survey (point counts), maintained a fleet of watercraft and trucks, boat operator.

July-September 2009. Sea Duck Technician. Simon Fraser University. Assisted with graduate research studying the feeding and foraging ecology of sea ducks (largely surf scoters) in Southeast Alaska. This project was entirely based in the backcountry, conducted out of skiffs in a nearshore marine habitat (backcountry hiking used to access ridgelines for radio telemetry during high wind events). Conducted bird counts, banded and attached radio transmitters (subcutaneous dermal anchors), monitored radio transmitters to time foraging dives, conducted aerial telemetry surveys, and collected and dissected specimens to correlate diet with body condition and molt status.

October 2005-present. Biologist, Swan Research Program. Responsible for leading and managing all aspects of four major research projects: 1) monitoring the migration of Tundra Swans breeding in ConocoPhillips oilfields on Alaska's North Slope; 2) developing restoration techniques for waterbirds including the rare Trumpeter Swan; 3) examining hybridization between Tundra Swans and Trumpeter Swans; and 4) researching non-lethal control of feral Mute Swans. Responsible for the care of one of the largest research swan collections containing free-swimming individuals from seven taxa. I have co-authored four research proposals that have collectively raised over $400,000, and led each of these projects

1999-2005. Owner. Rustic River Ltd. Artisinal sawmill and jointery.

March-August 1999. Amphibian Research Technician, United States Geological Survey: Shenandoah National Park.

May-August 1998. Research Assistant, Rocky Mountain Biological Laboratory.

May-August 1997. Research Assistant: Dr. Scott Wissinger. Rocky Mountain Biological Laboratory.

March-May 1997. Research Assistant: Dr. Daniel Ritschoff. Duke University Marine Laboratory.

1994-1998. Research Assistant: Dr. Michael Maniates. Allegheny College.

Committees

Alaska Marine Science and Fisheries Career Coalition Steering Committee: Develop strategic plans and partnership to enhance marine science and fisheries career opportunities for Alaska students.

Alaska Native Tribal Health Consortium Local Environmental Observer Network: Monitor local environmental issues and report to the larger group. Analyze reports from across the state to resolve trends in reported environmental observations.

certification/training

-Wilderness First Responder
-Federal Bird Banding subpermit holder
-USFWS Marine Mammal Tagger
-Medical Training: WFR , CPR, AED
-US Forest Service Boat Operator
-ATV Operator certification
-24 hour marine HAZWOPER
-Firearms/Bear Safety Instructor
-Marine and swiftwater boat instructor

skills

-Satellite and radio telemetry
-Aerial surveys, point counts, wildlife ID
-Backcountry travel and project logistics
-Use of GPS, orienteering/navigation
-Spatial data management and analysis
-Operate off road and 4x4 vehicles
-Maintain and repair small engines
-Expert wood worker
-Small boat operator: marine, swiftwater
-Animal husbandry
-Necropsy, surgical assistant

publications/presentations

Whissel, JC, E Potapov. 2009. Implantable versus neckband PTTs in swans: What is better? Microwave Telemetry Bird and Fish Tracking Conference Proceedings.

Sladen, WJ; JC Whissel. 2007. The winter distribution of Trumpeter Swans in relation to breeding areas: the first neckband study, 1972-1981. Selected Papers of the Twentieth Trumpeter Swan Society Conference. 117-125.

Wissinger, SA, JC Whissel, and C Eldermire. 2006. Predator defense along a permanence gradient: roles of case structure, behavior, and developmental phenology in caddisflies. Oecologia 148:667-678.

Jung, RE, JA Royle, JR Sauer, C Addison, RD Rau, J.L. Shirk, and JC Whissel. 2005. Estimation of stream salamander (Plethodontidae, Desmognathinae, and Plethodontinae) populations in Shenandoah National Park, Virginia, USA. Alytes 22(3-4):72-84.

Wissinger, SA, C Eldermire and JC Whissel. 2004. The role of larval cases in reducing aggression and cannibalism among caddisflies in temporary wetlands. Wetlands 24(4): 777-783.

Maniates, MF, JC Whissel. 2000. Environmental studies: the sky is not falling. BioScience. June: 509-517.

ALLEN MARQUETTE

P.O. Box 1891 – Cordova, Alaska 99574 – (907) 429-4444 - sciencepulse@gmail.com

EXPERIENCE

Prince William Sound Science Center 2001 to Present
Community Education Coordinator

- From 2008 to 2012 Managed all community education programs
- From 2003 to 2008 Education program coordinator - managed all science center education programs
- From 2001 to 2003 managed Discovery Room programs and implemented other community education programs including weekly Field Notes radio programs, weekly science lecture series, etc.

Cordova Clean Harbor Project
Project Coordinator

- Coordinate volunteer efforts, surveys and cleanup activities for the Cordova Clean Harbor project. 2012 to present

EDUCATION

B.A. Archaeology, Long Beach State University, Long Beach, California 1976
A.A. Orange County Community College, Costa Mesa, California 1974

COMMITTIES COUNCILS AND BOARDS

- *PWS Regional Citizen Advisory Council Education Committee*, 2012 to present
- *Cordova Historical Society Board*, 2012 to present
- *Cordova Public Library Board*, 2006 to present
- *Prince William Sound Community College Advisory Council*, 2012 to present
- *Cordova Electric Cooperative Board*, 2009 to 2012
- *Cordova Family Resource Center Board*, 2003 to 2007

VOLUNTEER PROJECTS

COASST Coastal Observation and Seabird Survey *Team* – Monthly survey of two mile stretch of beach near Cordova to monitor for dead seabirds to add to national register for avian research. 2011 to present

State Amphibian Surveys – Organized and monitored area around Cordova, the Copper River Delta and surrounding islands for frogs and toads using teams of citizen scientists to record amphibians for the State of Alaska to determine amphibian range and population densities throughout Alaska. Spring, summer and fall of 2007

Invasive Green Crab Surveys – Organized citizen scientist group to survey three locations around Cordova coastal areas for monitoring invasive green crabs during the months of April through September for three years. 2007 to 2009

Invasive Tunicate Surveys – Smithsonian Environmental Research Center sponsored surveys to place and monitor collecting plates throughout the Cordova Boat Harbor to collect tunicates and determine if any invasive species were present – 2006 through 2008

BIOGRAPHICAL SKETCH

W. Scott Pegau
Oil Spill Recovery Institute
Box 705
Cordova, AK 99574
ph: 907-424-5800 x222
email: wspegau@pwssc.org

Education:

1990 B.S., Physics, University of Alaska, Fairbanks
1996 Ph.D. Oceanography, Oregon State University

Professional Experience:

1987-1990	Research Assistant, University of Alaska, Fairbanks
1990-1996	Graduate Research Assistant, Oregon State University
1996-1997	Research Associate (Post Doc), Oregon State University
1997-1999	Faculty Research Associate, Oregon State University
1999-present	Assistant Professor, Oregon State University
2002-2003	Senior Scientist, Kachemak Bay Research Reserve
2003-2007	Research Coordinator, Kachemak Bay Research Reserve
2007-present	Research Program Manager, Oil Spill Recovery Institute

Research Interests:

To develop novel oil spill detection and tracking approaches. Understanding the fate and behavior of oil spilled in cold water environments. Development of response options for oceans with sea ice present. Circulation in Prince William Sound, Cook Inlet and the Gulf of Alaska and the associated larval transport. Relationship between oceanographic conditions and fisheries. Application of remote sensing for understanding coastal processes.

I am working to improve technologies for responding to oil spills in arctic and subarctic waters. I am also currently involved in the ONR Radiance in a Dynamic Ocean (RaDyO) project collecting optical instruments on an AUV.

Publications

Some recent publications

Montes-Hugo, M. A., K. Carder, R. J. Foy, J. Cannizzaro, E. Brown, and S. Pegau, Estimating phytoplankton biomass in coastal waters of Alaska using airborne remote sensing, *Remote Sens. Environ.* **98**, 481-493, 2005.

Wijesekera, H. W., W. S. Pegau, and T. J. Boyd, The effect of surface waves on the irradiance distribution in the upper ocean, *Optics Express*, **23**, 9267-9264, 2005.

Pegau, W. Scott, Inherent optical properties of the central Arctic surface waters, *J. Geophys Res*, **107**, doi. 10.1029/2000JC000382, 2002.

Bartlett, J. S., M. R. Abbott, R. M. Letelier, and W. S. Pegau, Analysis of a method to estimate chlorophyll-a concentration from irradiance measurements at varying depths, *J. Atmos. Ocean. Tech.*, **18**, 2063-2073, 2001.

Chang G. C., T. D. Dickey, O. M. Schofield, A. D. Weidemann, E. Boss, W. S. Pegau, M. A. Moline, and S. M. Glenn, Nearshore physical forcing of bio-optical properties in the New York Bight. *J. Geophys. Res.*, **107**, 10.1029/2001JC001018, 2002.

Pegau, W. S., and C. A. Paulson, The albedo of Arctic leads in summer, *Annals of Glaciology*, **33**, 221-224, 2001.

Skyllingstad, E. D., C. A. Paulson, and W. S. Pegau, Simulation of turbulent exchange processes in summertime leads, *J. Geophys. Res.*, **110**, doi:10.1029/2004JC002502, 2005.

Boss, E., R. Collier, G. Larson, K. Fennel, and W. S. Pegau, Measurements of spectral optical properties and their relation to biogeochemical variables and processes in Crater Lake National Park, OR. Hydrobiologia, DOI 10.1007/s10750-006-2609-3, 2007.

Skyllingstad E. D., C. A. Paulson, W. S. Pegau, M. G. McPhee, T. Stanton, Effects of keels on ice bottom turbulence exchange, *J. Geophys. Res.*, **108**, 3372, 2003.

Pegau, W.S., and R. Potter, *Visible remote sensing of the Gulf of Alaska*, Gulf Ecosystem Monitoring and Research final report Project G030685, pp. 51, 2004.

Collaborators

A. H. Barnard (Wetlabs), T. Boyd (OSU), G. C. Chang (UCSB), S. Saupe (CIRCAC), M. Twardowski (WETLabs), H. Wijesekera (OSU/NSF)

United States Department of the Interior
NATIONAL BUSINESS CENTER
Indirect Cost Services
2180 Harvard Street, Suite 430
Sacramento, CA 95815

RECEIVED
JAN 17 2012
Native Village of Eyak
P.O. Box 1388 • Cordova, AK 99574

January 06, 2012

Ms. Angela Arnold, Executive Director
Native Village of Eyak
P.O. Box 1388
Cordova, Alaska 99574-1388

Dear Ms. Arnold:

Enclosed is an original copy of the Indirect Cost Negotiation Agreement for the 12-month periods ending September 30, 2010 and 2012, between the Federal Government and the Native Village of Eyak.

Please visit our Web site at http://www.aqd.nbc.gov/ics for guidance and updates on submitting indirect cost proposals. In addition, you will find helpful tools such as a completeness checklist, indirect cost and lobbying certificates, sample proposals, Excel worksheet templates, and important links to other Web sites.

Sincerely,

Deborah A. Moberly
Indirect Cost Coordinator

Enclosure

cc: Self-Determination Specialist, Alaska Regional Office, Bureau of Indian Affairs
Director, Self-Determination Services, Indian Health Services, HQE
Compact Negotiator, Office of Self Governance, North West Field Office, BIA

Ref: J: Alaska/Tnvew524/Issue.ltr

We want to hear from you! Please let us know how we are doing in meeting your needs by taking a short survey at: http://www.aqd.nbc.gov/survey.

Phone: (916) 566-7111
Fax: (916) 566-7110
E-mail: ICS@nbc.gov
Internet: http://www.aqd.nbc.gov/ics

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY (1)	(2)	(3)	(4)	Total (5)
	Harbor Water Quality Improvement Program				
a. Personnel	$ 50,250.00	$	$	$	$ 50,250.00
b. Fringe Benefits	15,075.00				15,075.00
c. Travel	0.00				
d. Equipment	0.00				
e. Supplies	15,000.00				15,000.00
f. Contractual	235,050.00				235,050.00
g. Construction	0.00				
h. Other	5,700.00				5,700.00
i. Total Direct Charges (sum of 6a-6h)	321,075.00				$ 321,075.00
j. Indirect Charges	91,366.22				$ 91,366.22
k. TOTALS (sum of 6i and 6j)	$ 412,441.22	$	$	$	$ 412,441.22
7. Program Income	$	$	$	$	$

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