

Kodiak Archipelago Youth Area Watch

Project Number: 030610

Restoration Category: General Restoration

Proposer: Kodiak Island Borough School District

Lead Trustee Agency: ADFG

Cooperating Agency: Kodiak Island Borough School District

Alaska SeaLife Center: Yes

Duration: 1st year, 3-year project

Cost FY 03: \$63,000

Cost FY 04: \$63,000

Geographic Area: Kodiak Archipelago

Injured Resources/Services: Harbor seals, sub-tidal and inter-tidal communities, subsistence, archaeological resources, near shore seasonal surveys, and commercial fisheries

ABSTRACT

The Kodiak Archipelago Youth Area Watch is an ongoing project designed to engage students in projects with goals aligned with the general restoration efforts of the Trustee Council. Students and site coordinators will conduct interviews with local experts and document TEK, publishing it in a District oral history magazine. Participation of KAYAW adults and students in the annual Academy of Elders/Science Camp will be strongly recommended. Such participation will serve as another avenue for more tribal members to learn about restoration efforts, scientific monitoring techniques, and occupations related to such work. The value and implications of TEK will be strongly emphasized throughout the implementation of the KAYAW project.

INTRODUCTION

In FY 99, Chugach Regional Resources Commission collaborated with the Kodiak Island Borough School District to institute an internship program within the Community Involvement Project. This internship program chose one student in the communities of Akhiok, Larsen Bay, Old Harbor, Kodiak and Ouzinkie. In FY 00 this project was expanded to develop the Kodiak Archipelago Youth Area Watch Program. The program collaborated with four research projects in FY 00, including EVOS-sponsored 00482, PSP Field Testing Kit; EVOS-sponsored 00245, Harbor Seal Bio-Sampling; intensive monitoring with the Fisheries Industrial Technology Center and National Oceanic and Atmospheric Administration; and an algae testing project with Dr. Gerry Plumley.

Increased involvement by students, teachers and community members was realized during the 1999-2000 school year to include: four students from Ouzinkie, one teacher and one community member; two students from Old Harbor, one teacher, and several community members; two students from Larsen Bay, one teacher, and one community member; two students from Kodiak, and one teacher; and two community members from Akhiok. Total involvement for 1999-2000 school year included ten students, four teachers, and over five community members.

During the 1999-2000 school year many KAYAW project activities took place. In the fall of 1999 a KAYAW orientation meeting took place in Kodiak to connect the District teachers with the scientists and their projects. During the Kodiak Island Borough School District Rural School's Science Fair the community members from Akhiok performed seal bio sampling with seals that had been harvested for a community dinner. A number of students from throughout the region, as well as their teachers, were exposed to the data collection and purpose of this project. Orders were taken to purchase equipment for the students to use. This was done through the recommendations given by the scientists, and coordinated by Brian Himelbloom and Bob Pfutzenreuter of University of Alaska-Fairbanks and the Fisheries Industrial Technology Center located in Kodiak. In December another meeting was held to further the development and organization of the KAYAW.

In 2000 a student/teacher orientation meeting took place to train participations in the use of the equipment and process data collection and reporting. Old Harbor School began to redesign their High School Science studies in order to integrate the KAYAW into their general requirements. During the 2000-01 school year the teachers focused more of their curriculum on marine studies, school-wide, K-12. Students began to collect data pertaining to ocean water temperature, presence of algae, general weather conditions, marine mammal sightings, and seal bio sampling. Students also began research regarding PSP and its presence in the Kodiak waters. In June of 2000 another training session took place that introduced participants to the collection of samples and use of the PSP testing kit created by Jellet Biotek.

During FY 01 the project included the expansion into two additional communities, Chiniak and Port Lions; site teacher training in collaboration with the Kodiak College; the construction of a web site for students, teachers, administrators, and project scientists to collaborate, share, and coordinate projects, as well as post data; additional equipment for monitoring activities; and, participation by students, teachers and scientists in the annual Science Camp held at Afognak. All these steps continued the project in the direction of student oceanographic monitoring in collaboration with the Fisheries Industrial Technology Center, continued beach monitoring for

PSP and algal blooms, harbor seal bio-sampling, and hands-on training for a select number of students within the Kodiak Island Borough School District with western scientific knowledge and traditional ecological ways of knowing. A project with the National Marine Fisheries Service to investigate the presence of sandlance and capelin has been integrated as well. The Youth Area Watch program instituted in the Prince William Sound and lower Cook Inlet has been one of the most popular and supported projects that the Trustee Council has implemented. The spill area does not strictly include only those areas; it also encompasses the Kodiak Archipelago and the Alaska Peninsula.

During FY 01 we continued the efforts of the previous years of this program. The Alaska Native Harbor Seal Commission, through 01245, Harbor Seal Bio-sampling continued to support the program through bio-sample training in Old Harbor and Kodiak and included students and hunters from throughout the region. The Fisheries Industrial Technology Center and National Oceanic and Atmospheric Administration, and the National Marine Fisheries Service continue to collaborate with the project and students to collect oceanographic monitoring data. This information will be used to assist the Trustee Council with the Gulf Ecosystem Monitoring Plan. Data collected through this program will fill a hole of oceanographic information that will be necessary for the formation of a 100-year data set. Continued work with 01482, Field-Testing of PSP Test Kits for Subsistence Use was achieved in FY01 regarding beach monitoring and chronic PSP site identification. Students have begun to work on mapping traditional use areas, which include Sugtestun terminology. The Chiniak site is working to determine the presence and abundance of sandlance and capelin along some Chiniak Bay beaches, as well.

In addition, students and site coordinators selected local projects to conduct and expand. Connections to traditional knowledge with integration of TEK data were made to enhance project reports and individual projects. Individual projects were developed and many were entered into the Kodiak Regional Rural Science Fair that is coordinated with the Alaska Rural Systemic Initiative with support from the Alaska Federation of Natives. Teri Schneider, Alutiiq Studies Coordinator for KIBSD and Aleut Regional Coordinator for AKRSI is very interested in pursuing this continued integration. It has proven to be a factor to motivate students to pursue individual or small group investigations that make sense to where and how they live. Student projects were expected to be presented at the March 2001 TEK Conference and CRRC Annual Gathering, but because of a conflict with scheduling, KAYAW students were unable to attend. Students will report their projects directly to the tribal council in their community. An intense "Immersion Institute" took place in April for all Kodiak's rural high school student. With help from Henry Huntington, all of our students were training in the documentation, integration and use of TEK, and learned interview techniques. Each student was given the opportunity to interview community members and Elders, which led to the first re-publication of the oral history magazine, *Illuani*. A number of KAYAW students, also, presented their projects to local and regional Elders and western science judges during the Kodiak Regional Science Fair. Five of our students, including three who were working with the PSP testing, won honors to present their projects at the Alaska Native Science and Engineering Society's Statewide Science Fair and the Alaska Science and Engineering Science Fair.

KAYAW in FY'02 integrated the Alutiiq Museum and Archaeological Repository into its program. The Museum provides technical assistance in the gathering and publishing of traditional ecological knowledge, provides opportunities for archaeological site surveys near the outlying villages, as well as hosting three high school student interns in their *Community*

Archaeology project that will take place during the 2002 summer season. Museum staff tour students throughout their facility while students explore the rich natural resources that the museum was built to protect and house. Personnel from the museum will also take part in the science camp activities, providing all camp participants the opportunity to explore archaeological resources as they are found in the field, while teaching the process of recovery, cleaning, documentation and preservation.

NEED FOR PROJECT

A. Statement of Problem

Kodiak Archipelago Youth Area Watch shares much of the same values and objectives as the original Youth Area Watch in the Chugach region. The KAYAW participants are committed to assisting in the restoration of the spill area through the collection and requisite samples and data for principal investigators of research projects. Research dollars are often scarce – the assistance of labor through this project to the four core projects is an invaluable asset to the overall restoration effort.

The public aspect of this is also invaluable to the Trustee Council. Youth involved in science, especially Alaska Natives, has been difficult to achieve in many cases. This project gives students hands-on experience and an avenue to achieve goals that may have once seemed impossible. The Youth Area Watch projects have received tremendous support throughout the spill area and beyond and the benefits of this project are felt in many different arenas. The Trustee Council would be supporting a win-win situation by funding this project again.

It is not sufficient for our KAYAW to wait for interested scientists to ask for help from the students, as has happened to some extent in Prince William Sound. Instead, the KAYAW will continue to create some of its own activities, building upon the special projects that some sites have already begun in previous years. Because they can't guarantee if or when outside scientists might become interested in the product of their efforts, students and site coordinators will begin to focus on addressing local interests and concerns. This will also help to build local support and give the students a sense of contributing to something substantive immediately, rather than just completing homework assignments and filing monitoring information for possible future use.

Given the need to have the tribes involved in GEM and in work related to documenting, learning and applying traditional knowledge, the KAYAW coordinator, site coordinators and student participants will organize a joint workshop with the tribes and the school district to outline a long term KAYAW program that draws upon traditional knowledge to develop a local environmental assessment and monitoring program. There are great resources among the students, the teachers, school district staff, and the Elders. Bringing them together on a collaborative project that focuses on the ecology, natural history and cultural perspectives of each could accomplish great things.

This work will begin with a traditional and scientific inventory of the local ecosystems around each community. The students will interview Elders, read scientific publications, and describe what exists in their area. The description will include species, how they interact, how they are affected by the physical environment, how humans have and could use them, what impacts those

uses would have, and where and when the species is particularly sensitive. Habitat mapping will include kelp bed studies, watershed mapping, and beach mapping to include drift studies. A thorough inventory will take the form of a series of reports on various species or areas, and together the series would make a natural history encyclopedia of the region. These reports can be integrated into the student-developed website that each community has already established. Additional communication will be enhanced through a monthly KAYAW newsletter that will be disseminated throughout the region. By understanding how the local system works from the local perspective, the community will then be able to design a monitoring program that looks at parameters they find relevant to their interests and observations.

Global Learning and Observations to Benefit the Environment (GLOBE) will be implemented at each site to provide a structure with defined protocols for monitoring while providing an effective avenue for publishing student work (www.globe.gov).

Such a program will take some time to set up and get going, but will be well worth the effort, capitalizing on the opportunity that exists in Kodiak by giving some structure to the enthusiasm that persists for KAYAW.

B. Rationale/Link to Restoration

The Kodiak Archipelago Youth Area Watch will work in primarily three areas. First, harbor seals disastrously affected by the oil spill were being studied under 02245. KAYAW participants will continue to assist in this recovery effort of the Alaska Native Harbor Seal Commission and Trustee Council. Secondly, the focus on the archaeological resources will continue to be a focus, capitalizing on the expertise of the Native owned and operated “Alutiiq Museum and Archaeological Repository.” Our own Dr. Sven Haakanson, Jr. is now the director of that facility and is excited about the opportunity to work directly with the KAYAW project. Finally, the Fisheries Industrial Technology Center has ongoing oceanographic monitoring that is being done with KAYAW students. This includes ongoing near shore monitoring projects being conducted by Dr. Robert Foy. The eagerness of this organization and its staff from the University of Alaska Fairbanks has been confirmed through their commitment in the development of the current monitoring data into a long-term KAYAW project.

The public/youth involvement through this project in the restoration process will assist the Trustee Council in their mission to inform and involve the public regarding the restoration program. A more direct line of communication between the Trustee Council and the Kodiak Archipelago communities will be established through the gatherings and trainings, the newsletter and the website.

C. Location

Kodiak Archipelago Youth Area Watch will take place in the Kodiak Island communities of Akhiok, Old Harbor, Port Lions, Ouzinkie, Chiniak, and Kodiak (Larsen Bay and/or Karluk may participate depending upon fluctuating student enrollment.) Site coordinators and students will be continually trained through the school district, Kodiak College, the Fisheries Industrial Technology Center, the Alaska Native Harbor Seal Commission, the Alutiiq Museum and Archaeological Repository, and as other opportunities present themselves with visits to our island communities from the many scientists that travel there. Teri Schneider will serve as the

coordinator and principal investigator for the program for the school district, with outreach to tribal councils through the Kodiak Archipelago. Additionally, traditional ecological knowledge will be integrated into the program with the assistance of TEK Specialist, Dr. Henry Huntington. Guest scientists will be invited to take part in gatherings and conduct site visits to the participating villages in order to share their work and provide feedback to our students and their work.

COMMUNITY INVOLVEMENT AND TRADITIONAL ECOLOGICAL KNOWLEDGE

In addition to assisting in research, community involvement and the utilization of traditional ecological knowledge are at the heart of this program. Tribal councils, schools, communities, regional organizations, and researchers will all be collaborating to ensure that this project is a success. KIBSD will work closely to ensure that each of the tribal councils where there are KAYAW participants will have a voice in the research and curriculum of the program. Cooperation and communication will be enhanced between the Principal Investigator and Kodiak area community facilitator, Paul Panamarioff. Traditional ecological knowledge will be integrated into the projects that students and communities design and collaborating researchers will be encouraged to utilize TEK on their particular projects. As KIBSD resurrects the oral history magazine, *Illuani*, it will become an additional avenue to communicate the importance and application of local knowledge with regards to the environment and natural resources. Highlights from Elder interviews will also be featured in the monthly KAYAW newsletter and the museum's newsletter.

PROJECT DESIGN

A. Objectives

Selected students in the identified communities will participate in the project to accomplish the following objectives:

1. Communicate KAYAW activities to each site, local agencies, and tribal councils.
2. Identify all research and data collection activities.
3. Orient researchers on working with students.
4. Conduct research with the cooperating scientists.
5. Purchase consumable monitoring supplies for maintenance of area-wide monitoring, as needed.
6. Complete site teacher training in cooperation with the Kodiak College, the Fisheries Industrial Technology Center, the Alutiiq Museum and Archaeological Repository, and the Alaska Native Harbor Seal Commission regarding science monitoring, research, and traditional ecological knowledge.

7. Conduct school orientations for KAYAW students.
8. Maintain the Kodiak Archipelago Youth Area Watch web site to store data, provide information regarding all activities, and coordinate efforts of staff, students, researchers, and community members.
9. Involve KAYAW students, scientists and Elders in the annual Science Camp to be held in July and August of 2003.
10. Complete student project training with tribal council and site teacher.
11. Facilitate project follow-up training with site teachers.
12. Organize and host an annual workshop with the tribes and the school district to outline a long term KAYAW program that draws upon traditional knowledge to develop a local environmental assessment and monitoring program.
13. Conduct interviews with Elders and community members with regards to developing a traditional and scientific inventory of the local ecosystems around each community.
14. Host scientific researchers to present findings, research, and their understandings of the Kodiak Archipelago to school and tribal communities.
15. Continue KAYAW efforts throughout the summer months when school is not in session.
16. Identify and develop individual and small group student research projects that are relevant to their community.

B. Methods

The Kodiak Island Borough School District's Alutiiq Studies Coordinator will communicate directly with tribal councils throughout the island to ensure their meaningful involvement in the project. Researchers involved will sign agreements to ensure their follow-through to involve the youth in their projects.

Teri Schneider, Alutiiq Studies Coordinator and support staff of the Kodiak Island Borough School District will work cooperatively to plan the involvement and logistics of youth, tribal councils and researchers fieldwork. Additionally, training will take place with all involved parties to ensure that this project will work for everyone.

Selection of students is site based and flexible based upon the methods developed by site coordinators to choose students. Some are selected on their academic standing, personal interest, and potential for improvement, while other students are involved as a part of their regular curricular activities. Approximately 48 students will participate. While distribution varies according to interest and ability of students that apply, it is expected that the distribution will be as follows: 14 from Old Harbor, 14 from Ouzinkie, 12 from Port Lions, 2 from Chiniak, 2 from Akhiok, and 4 from Kodiak. Twelve of these students will be designated as interns. These students will be the primary ones to travel to special events and will be the 'leaders' of the

projects. The rest of the students will participate to a lesser degree but will be actively involved in the local implementation of the projects. The communities with a large number of students participating have chosen in the past to integrate the KAYAW project into their science curriculum, allowing all high school and/or middle school students to participate in either all, or part of the projects.

Early in the school year, participating KAYAW teachers will congregate to conduct a two-day training to become familiar with what the program will encompass. We will ask that researchers attend as well. Protocols from principal investigators and program details will be discussed. In addition to the site teachers, we will invite tribal council representatives.

All of the coordinating projects, archaeological site surveys, preservation and maintenance, algae testing, bio-sampling, near-shore monitoring, and oceanographic monitoring will take place geographically close to the participant's communities. It will be the responsibility of the site teacher and participants to determine field schedules. Harbor seal bio-sampling will require two training sessions and coordination with local seal harvesters. The oceanographic monitoring project will require coordinated efforts on contracted vessels and such. This will be negotiated between the individual licensed boat operators and KIBSD. Schedules will be determined when appropriate. Quarterly, students and support staff will congregate via audio-conference or in person in a chosen community to discuss progress, brainstorm ideas, and evaluate the program. Written reports describing the students' activities and the progress of the program will be submitted to EVOS quarterly. Training will be ongoing and project objectives will be met.

Ongoing projects will include:

1. Archaeological site surveys, preservation and maintenance – Alutiiq Museum and Archaeological Repository – Dr. Sven Haakanson, Jr. and the staff of the museum will work directly with students, both in the lab of the museum and on site in the villages, to identify archaeological sites while teaching proper preservation and maintenance of the identified sites. Students will learn about erosion (natural and human-caused), care of found archaeological materials, while discouraging “pot hunting.” Students will engage in discovering the scientific and cultural relevancy of found objects through their interaction with Elders and scientists, while engaging in the local harvest of wild resources.
2. Harbor Seal Bio-sampling – Alaska Native Harbor Seal Commission – KAYAW will work with local harvesters involved in the program to bio-sample harbor seals caught for subsistence purposes. Mitch Simeonoff, Akhiok, and Vickie Vanek from ADF&G will work with the school district to train and involve students.
3. Fisheries Industrial Technical Center - This will involve utilizing the monitoring kits we have acquired in establishing and continuing a long-term oceanographic and near-shore monitoring program. Indicators to be monitored will include ocean temperature, salinity, alkalinity, tides, as well as the presence of predator/prey, seabirds, and habitat, and other information as it pertains to the projects. Dr. Robert Foy and other staff members of the Fisheries Industrial Technology Center will involve students in conducting parts of surveys and will visit sites to share his findings while providing feedback to students regarding their findings.

4. GLOBE – The district will provide on going support to site coordinators to ensure the use and implementation of defined protocols is continued and enhanced.

In addition to these four core projects, students will work with their tribal council or local site teacher to identify a local research project to implement that is achievable. We will encourage the tribal councils to identify an area of TEK that may be of interest and integrate that with western science methods. TEK Specialist Henry Huntington will be called upon to assist in this effort.

The participation of the students in the annual Science Camp will be a continued component of this year's program. The annual Science Camp is an opportunity for students, teachers and community members from across the islands to learn from Elders and other culture bearers how traditional ways of knowing can be incorporated into western science. This camp will allow students to present their work to the other camp participants, educating and enlarging the support and momentum of the project. The Science Camp will be an opportunity for youth to recap the activities of the year and plan for the coming year. The KAYAW student participants will have the opportunity to provide some introductory training while showcasing their skills in water monitoring, seal bio-sampling and traditional observational skills to younger students and interested community members.

The development of a web site that will be integrated into the Kodiak Island Borough School District will be maintained, as well. The Kodiak School District's Technology staff will work with project staff to continue construction and maintenance of the site. The formation of this web site is seen as a necessary step to bring the program to a new level of communication, coordination, and information transfer. There will be links created between this site and each of the community's websites. The KAYAW website will continue to be a place to post oceanographic data, algae data and results, predator/prey presence, and harbor seal bio-sample information, as well as appropriate TEK. There will also be linkages to the GLOBE and Alutiiq Museum site.

School credit for the youth involvement in this project is strongly encouraged. High school juniors and seniors are strongly encouraged to integrate a KAYAW project into their junior or senior project. Other school credit may be earned in integrated math, science, technology, Alutiiq studies, social studies, or language arts. This will encourage even more participation and give credibility to the project among site teachers and students who are thinking about applying to the project. Students and site coordinators will be contracted to continue their work when school is not in session to guarantee the continuity of their monitoring and documenting efforts.

C. Cooperating Agencies, Contracts, and Other Agency Assistance

The Kodiak Island Borough School District will serve as the administering agency for this project. KIBSD will work hard to coordinate and collaborate with tribal councils, site coordinators, researchers, and students on the successful implementation of the project.

Partnerships with the Fisheries Industrial Technology Center, National Marine Fisheries, and the Alaska Department of Fish and Game will continue to perpetuate the marine mammal monitoring, near-shore monitoring, and ocean-monitoring components of the project. Staff from each of these organizations has already integrated our KAYAW students into their research and

outreach component of their programs by providing shadowing opportunities and exchanging research with students.

The Alutiiq Museum will provide technical assistance in conducting site surveys and will host student interns during their Community Archaeology summertime project. Staff will provide support to students and site coordinators in their efforts to conduct Elder interviews, as well as support for individual and small group research projects.

The Native Village of Afognak Tribal Council provides the facilities and additional funding needed to conduct the Academy of Elders/ Science Camp.

Henry Huntington will be contracted to consult with the KAYAW coordinator and provide training to KAYAW students and tribal councils in the skills needed to conduct TEK investigations.

Individuals with 6-pack licenses may be contracted to provide transportation to remote sites in the monitoring and documentation processes.

SCHEDULE

A. Measurable Project Tasks for FY 03 (October 1, 2002 - September 30, 2003)

October 15:	Confirm research and data collection activities
October 31:	Site teacher, tribal, and researcher orientation
October 31:	Monthly newsletter is developed and distributed
November 15:	Students selected and preliminary site research plan is developed
December 15:	School site orientations
December 15:	Student orientation and training
January 31:	Individual or small group projects submitted to regional science fair
May 15:	Regional workshop is conducted
May 15:	Summer plans for continued work by students and site coordinators are submitted to Principal Investigator
May 25:	Students and site coordinators for summer work to be completed sign Contracts
July 15 - August 15:	Students, site coordinators and researchers participate in Science Camp

On-going activities will include:

October 1 - September 30:	Students conduct archaeological site surveys, preservation and maintenance
October 1 - September 30:	Students analyze found archaeological objects
October 1 - September 30:	Students conduct harbor seal bio-samples
October 1 - September 30:	Students shadow cooperating scientists
October 1 - September 30:	Researchers visit sites to exchange research with students

October 1 - September 30: Students conduct their local research project

B. Project Milestones and Endpoints

- Ongoing: Communicate KAYAW activities to each site, local participating agencies, and tribal councils.
- October 1: Identify all research and data collection activities.
- Annually and as needed: Orient researchers on working with students.
- Ongoing: Conduct research with the three projects.
- Annually: Purchase additional monitoring and research equipment for expansion of area-wide monitoring, as well as replacing consumable materials, such as test strips.
- Biannually: Complete site teacher training in cooperation with the Kodiak College, the Fisheries Industrial Technology Center, the Alutiiq Museum and Archaeological Repository, and the Alaska Native Harbor Seal Commission regarding science monitoring, research, and traditional ecological knowledge.
- Annually: Conduct school orientations for KAYAW students.
- Ongoing: Maintain the Kodiak Archipelago Youth Area Watch web site to store data, provide information regarding all activities, and coordinate efforts of staff, students, researchers, and community members.
- Annually: Involve KAYAW students, local scientists and knowledgeable Elders in the annual Academy of Elders/Science Camp to be held annually in July and August.
- Annually: Conduct student project trainings with tribal council and site teacher.
- Annually: Facilitate project follow-up training with site teachers.
- Annually: Organize and host a joint workshop with the tribes and the school district to outline a long term KAYAW program that draws upon traditional knowledge to develop a local environmental assessment and monitoring program.
- Biannually: Conduct interviews with Elders and community members with regards to developing a traditional and scientific inventory of the local ecosystems around each community.
- Ongoing: Host scientific researchers to present findings, research, and their understandings of the Kodiak Archipelago to school and tribal communities.

C. Completion Date

Objectives identified in the project design will serve as guidelines for community involvement within the civil settlement throughout the life of the restoration effort. It is expected that the KAYAW will be completed upon termination of the restoration and monitoring effort.

PUBLICATIONS AND REPORTS

Project reports that will include a description of student activities and the progress of the program will be submitted to EVOS quarterly.

PROFESSIONAL CONFERENCES

Concentration of presenting project progress and results will be done locally in conjunction with gatherings pertaining to training opportunities and during the annual workshop in Kodiak.

NORMAL AGENCY MANAGEMENT

Not applicable.

COORDINATION AND INTEGRATION OF RESTORATION EFFORT

This project will work closely with the Community Involvement and GEM Planning Project (03052).

EXPLANATION OF CHANGES IN CONTINUING PROJECTS

Many changes have been made in this DPD as compared to the previously funded DPD primarily in response to peer reviewer comments and lead agency suggestions. Reorganization of the KAYAW has been suggested to make it more efficient and effective. One full-time certified teacher would have one third of her duties specifically dedicated to the coordination and implementation of the project. The other half of this staff person's duties correlates well with the overall objectives and goals of KAYAW. The need for better island-wide communication will be met with a monthly newsletter that will be distributed through the region. Site coordinators and student participants will be contracted for their continued services through the summer months when school is not in session so that continuity of monitoring and communication will not be broken. The KAYAW students and adult participants will host an annual gathering focusing on TEK documentation and ecological assessments of each community of the Kodiak Archipelago. Publication and distribution of TEK documentation will be integrated into the KIBSD oral history magazine that is bi-annually distributed. Henry Huntington will continue his involvement as a TEK consultant, providing training for students and KAYAW tribes. Because a number of the original projects KAYAW worked with have no longer been funded by their sources, and because there is an on-going need to protect archaeological sites and objects around the archipelago, the additional project with the Alutiiq Museum has been organized.

PROPOSED PRINCIPAL INVESTIGATOR

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PRINCIPAL INVESTIGATOR

Teri Schneider is the Alutiiq Studies Coordinator for the Kodiak Island Borough School District and the Aleut Regional Coordinator for the Alaska Rural Systemic Initiative. Teri has been in this position since 1997. She works closely with all KIBSD Native and rural educational programs and projects and many AKRSI statewide and regional educational projects with goals to integrate Native Ways of Knowing into the public school system. Teri, an Alaskan Certificated Educator, is a member and the advisor/coordinator of the Native Educators of the Alutiiq Region, a professional organization that works closely with the Alutiiq Elders Council to implement Native educational initiatives. She has experience in project development and administration, tribal relations, and managing budgets. Ms. Schneider will be responsible for all expenditures, contracts, and project management duties that are approved by KIBSD administrative staff.

OTHER KEY PERSONNEL

1. Janet Long, Administrative Assistant for KIBSD, will assist with logistical arrangements and communications.
2. Ray Maltos, Regional Village Principal, will provide administrative oversight and guidance. He has extensive experience in developing and managing budgets and well as implementing educationally sound programs.
3. Sally Wilker, KIBSD Itinerant Curriculum Specialist, will assist the Principal Investigator and site coordinators with student research and project design. Ms. Wilker will also work to integrate aspects of the KAYAW research and procedures into the existing KIBSD science curriculum, which will eventually help to define how we “do” science education in our district.
4. Eric Waltenbaugh, KIBSD Itinerant Curriculum Specialist, will assist the Principal Investigator and site coordinators in the gathering reporting of TEK through his continued development of the oral history magazine, *Illuani*.
5. Teachers from each of the KAYAW sites will fill the role as site coordinators. They are actively involved in building KAYAW into the school’s curriculum while providing organization and communication for such activities in each of their communities.
6. Dr. Brian Himelbloom, Dr. Susan Payne, Vicki Vanek, Dr. Sven Haakanson, Jr., Dr. Kate Wynn, and Dr. Robert Foy are all scientists who have dedicated numerous hours of their time for the benefit of our KAYAW students will continue to work closely with the KIBSD coordinator, site coordinators, and students.
7. Carla Lam, Craig Baker and Larry LeDoux are district GLOBE trainers and will provide professional development opportunities for our site coordinators.

FY 03 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2002 - September 30, 2003

Budget Category:	Authorized FY 02	Proposed FY 03					
Personnel	\$17.6	\$18.0					
Travel	\$21.2	\$21.2					
Contractual	\$16.2	\$18.1					
Commodities	\$0.5	\$0.5					
Equipment	\$2.3	\$0.0	LONG RANGE FUNDING REQUIREMENTS				
Subtotal	\$57.8	\$57.8	Estimated				
Indirect	\$4.0	\$0.0	FY 04				
Project Total	\$61.8	\$57.8	\$61.8				
Full-time Equivalentents (FTE)	0.3	0.3					
Dollar amounts are shown in thousands of dollars.							
Other Resources	\$141.0	\$141.0					
<p>Comments:</p> <p>*No indirect costs will be taken by the Kodiak Island Borough School District. Administrative oversight, secretarial support and general grants management will be absorbed as cost sharing contributions to this project. Total cost sharing contributions from KIBSD include 0.7 certified staff, facilities and utilities, miscellaneous commodities, site coordinator costs, additional costs for the coordinators of the Science Camp, and expertise from the Native Educators organization and the Academy of Elders.</p> <p>*Costs for the Principal Investigator to attend the annual restoration workshop is estimated at \$500.00.</p> <p>NOTE: ADG&G GA (9%) OF \$5.2 NEEDS TO BE ADDED TO THIS PROJECT. PROJECT TOTAL \$63.0</p>							

FY03

Prepared:04-11-02

Project Number: 030610
 Project Title: Kodiak Archipelago's Youth Area Watch
 Agency: Kodiak Island Borough School District

FY 03 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2002 - September 30, 2003

Personnel Costs:		GS/Range/ Step	Months Budgeted	Monthly Costs	Overtime	
Name	Position Description					
T. Schneider	KAYAW Coordinator (0.3)		12.0	1.5		
Subtotal			12.0	1.5	0.0	
Personnel Total						
Travel Costs:		Ticket Price	Round Trips	Total Days	Daily Per Diem	
Description						
KAYAW coordinator, up to two roundtrips to each rural KAYAW site		0.2	8	8	0.1	
Researchers, site coordinators and student travel for trainings, etc.		0.2	22	42	0.1	
Student, site coordinator, researcher, and Elder travel to science camp/fair		0.2	12	4	0.1	
Student, site coordinator, researcher, and Elder travel to regional workshop		0.2	17	35	0.1	
KAYAW coordinator, one roundtrip to the Trustee Council's Annual Retoration Workhop		0.3	1	2	0.1	
Travel Total						

FY03

Prepared: 04-11-02

Project Number: 03610
 Project Title: Kodiak Archipelago's Youth Area Watch
 Agency: Kodiak Island Borough School District

FY 03 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2002 - September 30, 2003

Contractual Costs:	
Description	
Professional technical services from Huntington Consulting and Alutiiq Museum staff	
Vessel Charters	
Printing newsletter and other communications	
Professional technical services website development and maintenance	
Summer site coordinators	
Summer student participants	
Elder honorariums	
When a non-trustee organization is used, the form 4A is required.	Contractual Total
Commodities Costs:	
Description	
Replacement of consumable water monitoring materials such as test strips, slides, etc.	
Consumable audio/visual supplies	
	Commodities Total

FY03

Project Number: 03610
 Project Title: Kodiak Archipelago's Youth Area Watch
 Agency: Kodiak Island Borough School District

Prepared:

FY 03 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2002 - September 30, 2003

New Equipment Purchases:		Number of Units	Unit Price
Description			
Those purchases associated with replacement equipment should be indicated by placement of an R.		New Equipment Total	
Existing Equipment Usage:		Number of Units	
Description			
Portable computer		1	
Seal bio-sampling kits		7	
Marine station monitoring kits		5	
Tape recorders		4	
Digital camera		1	

FY03

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Prepared: