

EVOS ANNUAL PROJECT REPORT

All recipients of funds from the *Exxon Valdez* Oil Spill Trustee Council must submit an annual project report in the following format by September 1 of each fiscal year for which project funding is received, with the exception of the final funding year in which a final report must be submitted. Satisfactory review of the annual report is necessary for continuation of multi-year projects. Failure to submit an annual report by September 1 of each year, or unsatisfactory review of an annual report, will result in withholding of additional project funds and may result in cancellation of the project or denial of funding for future projects.

PLEASE NOTE: Significant changes in a project's objectives, methods, schedule, or budget require submittal of a new proposal that will be subject to the standard process of proposal submittal, technical review, and Trustee Council approval.

Project Number: 040610

Project Title: Kodiak Archipelago Youth Area Watch

PI Name: Teresa (Teri) L. Schneider

Time Period Covered by Report: October 1, 2003 – August 31, 2004

Date of Report: September 1, 2004

1. Work Performed:

Initial site planning to create a yearlong plan began with a follow up to the 2003 Academy of Elders/Science Camp that took place throughout the fall season and included the following:

- PI travel to the communities of Ouzinkie and Akhiok for specific science project development among their students, community members and teachers
- Teacher in-service training to include "Village Science" and the development of placed based science projects
- Planning for the 2004 camp with the Native Village of Afognak and the members of the Native Educators of the Alutiiq Region

A large project that was developed for implementation in all of our rural sites was the *Salmonoid Education Project*. The following tasks were performed and supported by the KAYAW project:

- Established licensing for every single community
- Contacting each community's Tribal Council via letter requesting their participation and permission to complete the salmon education project in their community
- Egg-takes were performed in cooperation with fish and game in Juneau, ADF&G, community member and students
- Set up the aquarium in each site
- Followed through with the incubation process

- Completed dissections and fish prints while studying the internal and external aspects of the fish
- Presentations were made by Fritz Kraus and Craig Baer from ADF&G, Anchorage
- Students followed up throughout the incubation process [regular water exchanges, maintained tank temperature to parallel conditions to wild stock, documented the temperature units (TUs) daily and predicted egg development]
- Unsuccessful egg take in Port Lions, so fish was brought from the Pillar Creek hatchery
- Larsen Bay was initially unsuccessful, but the community went out after being trained and performed the egg take on their own and set up themselves
- Old Harbor and Ouzinkie egg takes were successful with local stock
- Akhiok had no creek close enough for students to take under the weather conditions, so they also were sent eggs from the Pillar Creek hatchery
- A particular class in each of the schools took on the responsibility of maintaining the equipment while taking care of the eggs
- Several teachers took the three, 1-credit classes that supported their involvement (egg take, incubation, release)
- Students released fish back into the wild at their original location
- Student participation in the Kodiak Community “Salmon Carnival”
- Planning to pilot this in one of the rural sites next spring
- Photos may be viewed at the following website:
<http://kodiakstudents.koc.alaska.edu/vision/coho/powerpoint.html>
- A DVD is being produced from a Quick Time video of the events for future use

As a follow up to the “salmon” theme/study, the KAYAW coordinator worked closely with the Alutiiq Museum and school district personnel to plan and implement a traveling project where students processed raw salmon skin into a leather that was then used to make a pouch or wallet. The process included learning about the past ways of salmon skin processing by the Alutiiq people, cultural beliefs of the salmon and its environment, discussions of current use of the salmon, as well as fisheries issues relevant to the students and communities. Guest artist Susan Malutin and museum volunteer (VISTA), Stephanie Brown, and Teri Schneider participated in the implementation of this project in Akhiok, Larsen Bay, Old Harbor, Ouzinkie, and Port Lions.

The Rural Regional Science Fair took place in the village of Old Harbor, January 21-23, 2004. Students were chosen to participate from Ouzinkie (five), Chiniak (four), Old Harbor (seven), Port Lions (four), Akhiok (seven) and Larsen Bay (three) after project review from their communities. Also participating were science judges, Robbie Townsend Vennel with the Native Educators of the Alutiiq Region, and Linda Robinson, Community Liaison with the Prince William Sound Citizen’s Advisory Council. Elder judges were Nick Alokli and George Inga, Sr. Some of the placed based science projects shared include the following:

- Paralytic shellfish poisoning in butter clams
- Microbe growth in smoked salmon
- Power sources for rural Alaska
- Sudden eruptions of dormant volcanoes
- Life cycle of the salmon
- Strength of Kodiak wood
- Salting fish

- Home design and warmth
- Throwing board design and use
- Seal hop experiment (agility and strength)
- Oil lamps: Which oil puts out more heat?
- Concentration exercises and rifle accuracy (hunting)
- Insulation values of seal, sea otter, and fox fur
- Wild vs. farmed fish taste experiment
- How banyas have changed over time
- Efficiency of tools to hunt seal

Each student is required to show how their project or study is relevant to the culture and/or environment of our island community, thus much of what is shared is highly interesting to the visiting community and full of information of local use. Projects include background information gathered from local Elders and experts.

The three-day event included further student training on the scientific method and traditional science used by Elders.

Four projects, involving seven students, earned the opportunity to go on to the next level of competition at the Alaska Native Science and Engineering Society's Science Fair held in Anchorage, February 2004.

Archaeological site surveys, preservation and maintenance projects have been performed by the Alutiiq Museum and Archaeological Repository staff in the communities of Old Harbor, Larsen Bay, Akhiok, Ouzinkie and Port Lions throughout the late winter and early spring of 2004, as well as another one in Ouzinkie held in November to make up for the one they were unable to schedule in 2003. Students learned of traditional harvest techniques, preservation and use of salmon. In the process, students processed salmon skin while learning about traditional fishing techniques and cultural beliefs. The Alutiiq Museum brought their traveling exhibit teaching residence about traditional sewing tools, etc.

Some harbor seal and sea lion bio-samples were sent directly from Akhiok and Old Harbor to Vickie Vanek throughout the year though no records were sent to the coordinator.

Students reported sea mammal sightings during Whale Fest in April and submitted those directly to the Whale Fest coordinators.

The *Iluani* oral history magazine was published in May. Though it has not been directly funded fully by KAYAW, some of the work leading up to the re-establishment of the oral history magazine has been influenced by KAYAW projects and the idea of a publication for place-based, culturally and environmentally relevant writing. KAYAW has assisted in sponsoring experts to take part in past work shops which included TEK training that is still being used today. KAYAW also has assisted in the printing and distribution of the magazine. This year's publication includes, but is not limited to, the following:

- "A Terrible Tragedy Never Forgotten: 1989 Exxon Valdez Oil Spill"

- “Ouzinkie’s Roads”
- “Power to the People” (Ouzinkie’s hydroelectric development)
- “A Summer in Port Hobron: George Inga’s unforgettable memories of a whaling station
- “That’s the Toughest Job I Ever Had” (cannery days in Ouzinkie)
- “Generational Changes” (an Elder’s reflections of change in our region)
- “Life as a Fisherman” (reflections of a fisherman in Ouzinkie)
- “ A Landmark Saved” (the Port Lions causeway)
- “That’s the Way We Grew Up” (reflections from Elder, Nick Alokli on Akhiok, reindeer, and Alitak Bay)
- “Peace and Quiet in Camel’s Rock”
- “Terror Lake: A Tour of Kodiak Island’s Hydroelectric Powerplant”

The coordinator was contacted in the spring regarding a UAF Coastal Biodiversity Project that would be taking place in the summer months and asked to coordinate student participation to scrape rocks in the inter-tidal zones, collecting organisms and quantifying the collection. Headed up by two professors, Brenda Konar and Katrin Iken, the project would take place near the villages of Akhiok, Old Harbor, Larsen Bay and Port Lions. A report regarding student and/or adult participation is pending.

Four archaeological interns were hired through KAYAW to work with Museum staff during the 2004 Community Archaeology Project in July and August. One student intern was hired through KAYAW to work with Dr. Brad Stevens at the Kodiak Fisheries Research Center with the National Marine Fisheries Service.

The Academy of Elders/ Science Camp took place this summer, June 28-July 2 and included Elders, scientists and teachers.

2. **Future Work:**

Staff continues to explore research and project opportunities for students. The coordinator hopes to complete site plans with each school to develop an area of concentration or theme of study at the local level, perhaps building on projects already taking place at the community or tribal level.

More work is being done to align KAYAW activities with the local Rural School’s Integrated Science Curriculum that is in use for the third year. With the state adding science to the Benchmark Exams and High School Qualifying Exam in 2005-06, staff will work to re-align KAYAW activities/projects with the soon-to-be revised State Science Content Standards.

Plans are currently being made now to develop KAYAW site plans for the 2004-05 academic year.

3. Coordination/Collaboration:

Coordination and collaboration continues to be extensive with the Alutiiq Museum and Archaeological Repository and the School District through the development of the summer intern employment, village outreach, and with the Museum being the final storing place for all oral histories gathered, as well as photos and other objects. Students continue to present locally to Tribal Councils and post information in public places for community members to read. Outreach to Elders and local experts came in the form of interviews for the oral history magazine, inclusion as judges in science fairs, participation in science camp, etc. The Native Village of Afognak and the District continue to collaborate in the development and continuation of the Academy of Elders/Science Camp and curriculum development. Coordination efforts for student projects and site studies continue through the efforts of the Alaska Department of Fish and Game, the National Marine Fisheries, and the Fisheries Research Center.

4. Community Involvement/TEK & Resource Management Applications:

Students submitting projects to the Rural Regional Science Fair must show evidence of consulting with local experts and/or Elders regarding their topic of study. Students must acknowledge the individual's contributions in their work. The oral history magazine continues to use guidelines developed, in part, during the TEK workshop with Huntington Consulting two years ago and the Guidelines for Respecting Indigenous Knowledge developed by Native educators throughout Alaska. All original interviews and photos from the Iluani project will be housed at the Alutiiq Museum and made accessible to future researchers. Tribal Councils were involved in the Salmonoid Education Project from the beginning.

5. Information Transfer:

- GLOBE postings have been made throughout the academic year, primarily from Kodiak City and Chiniak. Project Website design is still in process and can be viewed at <http://kodiakstudents.koc.alaska.edu/vision/coho/powerpoint.html>
- Rural School's Students. (2004). Iluani
- "On Kodiak Island, rural science fair tackles the deepest questions of life." *The Observer*. Volume 14, No. 1, page 8.

6. Budget:

No major differences or problems occurred between actual and budgeted expenditures.

Report Prepared By: Teresa L. Schneider

Project Web Site Address: <http://kodiakstudents.koc.alaska.edu/vision/coho/powerpoint.html>