

Project Title: Chugach Native Region Clam Restoration

Project Number: 01131

Restoration Category: General Restoration

Proposer: Chugach Regional Resources Commission

Lead Trustee Agency: Alaska Department of Fish & Game

Cooperating Agencies: Chugach Regional Resources Commission, Native Villages of Tatitlek, Nanwalek, Port Graham and Eyak

Alaska SeaLife Center

Duration: 6th year, 5-year project

Cost FY 00 0.0

Cost FY 01 \$11.5

Geographic Areas: Native villages in Prince William Sound and lower Cook Inlet

Injured Resource/Service: Clams/Subsistence

ABSTRACT

Cost effective procedures for establishing easily accessible subsistence clam populations near Native villages in the oil spill region are being established. All fieldwork has been completed on this project. Additional funding is needed to complete data analysis and final report preparation. FY 99 fieldwork and data collection was more costly than anticipated

INTRODUCTION

A. General

The purpose of this project is to develop cost effective procedures for establishing managed populations of clams in areas that are readily accessible from Native villages in the oil spill region. These clams will be used as a source for subsistence food to replace the natural clam resource that has been lost, damaged or depleted. The project was initiated in FY 95 and all fieldwork and data collection was completed in FY 99. The villages Nanwalek, Tatitlek, Port Graham and Eyak took part in the project.

Adverse weather conditions increased the cost of the fieldwork in FY 99. The fieldwork consisted of planting the final batch of littleneck clam seed produced by the Qutekcak Shellfish hatchery and collect growth and mortality data from seed that had been planted previously. Since this was the final year of the project all fieldwork had to be completed prior to October 1, 1999 regardless of the weather. This meant that rather than canceling field trips when the weather was bad, the consultant and field crew was put on standby waiting for the weather to clear.

In addition to the extra cost of the fieldwork in FY 99 the cost for data analysis in FY 98 was greater than expected. These costs were carried over to FY 99 and added to the deficit.

NEED FOR THE PROJECT

A. Statement of Problem

Local shellfish populations, especially clams have been severely reduced as a subsistence food source for Native villages. Part of the reduced use is a loss of confidence in the safety of consuming shellfish as a result of the Exxon Valdez Oil Spill. In addition, local shellfish populations have been greatly reduced as result of hydrocarbon toxicity, sea otter predation, human over harvest and beach changes from the 1964 earthquake.

B. Rationale

This project will accomplish two things. One, it will help restore the clam resource base in the oil spill area, and two, it will enhance subsistence gathering by providing an easily accessible source of clams for subsistence use.

C. Location

The hatchery and pre-nursery work was carried out at the Qutekcak Shellfish Hatchery in Seward. Growout operations and sampling occurred in the area around the villages of Tatitlek and Eyak in Prince William Sound and in the Port Graham/Nanwalek area in Lower Cook Inlet. Pathology work was conducted in Anchorage and Juneau.

COMMUNITY INVOLVEMENT

The communities named in this project were directly involved in it. Each community decided whether or not it wanted to be involved in the project initially. Local residents were heavily relied upon to help locate existing clam populations and the areas for

reseeded. Project work involving the villages was done mostly with local labor. Community leaders were kept apprised of how the project is progressing.

PROJECT DESIGN

A. Objectives

1. Complete data analysis.
2. Complete and submit final report.

B. Methods

Objective 1. Complete Data Analysis

The hatchery staff will conduct data analysis for the hatchery, including the pre-nursery. The hatchery analyses will compare growth and survival against industry standards. Dr. Ken Brooks of Aquatic Environmental Sciences, Port Townsend, WA will conduct analyses on data from the remote nursery and growout portions of the project. The remote nursery analysis will determine the efficacy of producing 10+ mm seed clams. The growout analysis will examine growth and mortality as a function of several parameters including tidal height, rearing density and in the presence or absence of protective predator exclusion devices. All data analysis work will be completed by December 31, 2000.

Objective 2. Complete and Submit Final Report

CRRC staff will compile and edit the final report. The report will be ready for submission by April 15, 2001.

C. Cooperating Agencies, Contracts and Other Agency Assistance

There will be no agency assistance for data analysis or final report completion.

SCHEDULE

A. Measurable Project Tasks for FY 01

10/00 – 12/00

Complete data analyses.

1/01-4/01

Complete final report

B. Project Milestones and Endpoints

Objective 1.

December 31, 2000

All data analyses completed.

Objective 2.

April 15, 2001

Final report submitted

C. Completion Date

The objectives of this project will be met in FY 2001.

PUBLICATIONS AND REPORTS

April 15, 2001

Final report due

PROFESSIONAL CONFERENCES

The staff will not attend any professional conferences under this project in FY 2001.

EXPLANATION OF CHANGES IN CONTINUING PROJECTS

PROPOSED PRINCIPAL INVESTIGATOR(S)

Dave Daisy/Jeff Hetrick/Jon Agosti
Chugach Regional Resources Commission
4201 Tudor Centre Drive, Suite 300
Anchorage, AK 99508
Phone: (907) 562-6647
Fax: (907) 562-4939

PERSONNEL

PATRICIA BROWN SCHWALENBERG
6450 Andover Drive
Anchorage, Alaska 99516
907 345-2187

Employment:

June 1994 to Present: Executive Director Chugach Regional Resource Commission. Responsible for Natural Resource and Fisheries development for the seven native villages in the Chugach region. This includes administering office staff, village projects in mariculture and fisheries and protecting and enhancing subsistence opportunities.

October 92 to June 1994: Office Manager Bering Sea Commercial Fisheries Development Foundation. Responsibilities included maintaining all management systems for the organization including financial, personnel, property and central filing. She was responsible for financial management and accountability of all grants, payroll, taxes and financial statements, and organizing and overseeing public relations.

October 1987 to June 1992 Society Administrator /Public Relations Director. Native American Fish and Wildlife Society. Assisted in the establishment and development of a national office for the Native American Fish and Wildlife Society. Implemented personnel policies and procedures, property management policies, record and financial

management systems. Implemented strategies to obtain goals and objectives of the society.

Education:

Business Administration University of Alaska-Anchorage (ongoing).
Certification of Completion. 1977 Humboldt Institute

DAVID DAISY

3936 Westwood Drive
Anchorage, Alaska 99517
(907) 243-8544

Employment:

October, 1987-Present: Fisheries consultant with emphasis on aquaculture. Contractor to Chugach Regional Resource Commission developing salmonid hatcheries at Port Graham and Nanwalek and oyster mariculture operations at Tatitlek and Chenega Bay. Oversight and management of these projects involves grant writing and financial and activity reporting to granting agencies.

February, 1979 to October, 1987: Regional Program Manager, Region II, Fisheries Rehabilitation, Enhancement and Development (FRED) Division, Alaska Department of Fish & Game. Under general supervision of the FRED Director, responsible for the planning, development, operation and control of the State's salmonid enhancement and rehabilitation program in Region II which encompasses all of Alaska except Southeast.

November, 1977 to February, 1979: Regional Project Manager: Cook Inlet - Prince William Sound, Fisheries Rehabilitation, Enhancement and Development (FRED) Division, Alaska Department of Fish & Game. Under supervision of the Regional Program Manager responsible for the implementation and control of salmon enhancement research and development projects in the Prince William Sound and Cook Inlet areas. Assisted the Regional Program Manager in hatchery development planning.

April, 1968 to February, 1979: Management Biologist, Commercial Fisheries Division, Alaska Department of Fish and Game in the Ketchikan, Cook Inlet and Upper Cook Inlet areas. Oversaw various management projects (weirs, counting towers, fisheries sampling) determined and set fishing periods for herring and salmon and responsible for meeting escapement and recruitment goals.

Education:

B.Sc. Fisheries, University of Massachusetts, Amherst, 1965.

JEFF HETRICK

P. O. Box 7
Moose Pass, Alaska 99631
(907) 288-3667

Employment:

1987- Present: Hatchery Manager Cook Inlet Aquaculture Association. Manage Trail Lakes Hatchery which produces 12 million sockeye salmon fry and 2 million sockeye salmon smolts annually.

1988-Present: Consultant for Shellfish Culture. Clients include:

Chugach Regional Resource Commission- develop oyster farms at Chenega Bay and Tatitlek. Included permitting, farm design, training and marketing.

Qutekcak Native Tribe- Design and develop first shellfish hatchery in Alaska.

1983-1987 Assistant Manager. Alaska Department of Fish and Game.

Assistant manager at Main Bay (Chum and Sockeye Salmon) and Cannery Creek (Pink Salmon) Hatcheries in Prince William Sound.

Education:

MBA California Coast University- Thesis under review

B.Sc. Biological Sciences. University of Maryland, 1980

DR. KENNETH M. BROOKS

644 Old Eaglemount Road

Port Townsend, WA 98368

(360) 732-4464

Employment

1959-1979 U.S. Navy Officer - retired in 1959

1979-1992 Owner/operator of Black Angus ranch

1982-1992 Environmental mediator for Washington state

1988-1990 Battelle Marine Science Laboratory, NORCUS grant

1989-present President, Aquatic Environmental Sciences, Port Townsend, WA

1993-present Director, Fisheries Technology Program, Peninsula College

Education

B. Sc. - Physics, Naval Postgraduate School (NPS), 1973

M. Sc. - Physics, NPS, 1974

Ph.D. - College of Ocean Sciences and Fisheries, University of Washington, 1991

John L. Agosti

P. O. Box 369

Seward, AK 99664

(907) 224-5181

Employment

1983-1984 Hatchery Technician, Westcott Bay Sea Farm, Friday Harbor, WA

1984-1986 Research Consultant, Ketron Island Sea Farm, Stellacoom, WA
1986-1996 Assistant Hatchery Manager, Westcott Bay Sea Farm, Friday Harbor,
WA
1996-present Hatchery Manager, Qutekcak Shellfish Hatchery, Seward, AK

Education

B. Sc., Biological Oceanography, Humbolt State University, 1984

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email: ddaisy@tampabay.rr.com

2001 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2000 - September 30, 2001

Budget Category:	Authorized FY 2000	Proposed FY 2001					
Personnel		\$0.0					
Travel		\$0.0					
Contractual		\$9.9					
Commodities		\$0.0					
Equipment		\$0.0	LONG RANGE FUNDING REQUIREMENTS				
Subtotal	\$0.0	\$9.9			Estimated FY 2001	Estimated FY 2002	
General Administration		\$0.6					
Project Total	\$0.0	\$10.5			\$10.5	\$0.0	
Full-time Equivalent (FTE)		0.0					
Dollar amounts are shown in thousands of dollars.							
Other Resources							
Comments:							

FY01

Prepared: 4-12-00

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2001 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2000 - September 30, 2001

Personnel Costs:		GS/Range/ Step	Months Budgeted	Monthly Costs	Overtime	
Name	Position Description					
		Subtotal	0.0		0.0	
						Personnel Total
Travel Costs:		Ticket Price	Round Trips	Total Days	Daily Per Diem	
Description						
						Travel Total

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October 1, 2000 - September 30, 2001

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				

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Travel		\$0.0					
Contractual		\$9.0					
Commodities		\$0.0					
Equipment		\$0.0	LONG RANGE FUNDING REQUIREMENTS				
Subtotal	\$0.0	\$9.0			Estimated FY 2001	Estimated FY 2002	
Indirect		\$0.9					
Project Total	\$0.0	\$9.9			\$9.9	\$0.0	
Full-time Equivalent (FTE)		0.0					
Dollar amounts are shown in thousands of dollars.							
Other Resources							
Comments:							

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