Fiscal Year 1996 Work Plan

December 1995

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Prepared by:

Exxon Valdez Oil Spill Trustee Council

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Prepared for: *Exxon Valdez* Oil Spill Trustee Council

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INTRODUCTION

Each year the *Exxon Valdez* Oil Spill Trustee Council funds activities to restore the resources and services injured by the 1989 *Exxon Valdez* oil spill. This work plan describes restoration activities approved for federal Fiscal Year 1996 (October 1, 1995 through September 30, 1996).

Background

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In 1991 the U.S. District Court approved a settlement of a lawsuit concerning the 1989 *Exxon Valdez* oil spill. The terms of the civil settlement required Exxon Corporation to pay the United States and the State of Alaska \$900 million over ten years to restore the resources injured by the spill, and the reduced or lost services (human uses) they provide. Under the court-approved terms of the settlement, a Trustee Council of three federal and three state members was designated to administer the restoration fund and to restore the resources and services injured by the spill. According to the settlement:

Restoration funds must be used "... for the purposes of restoring, replacing, enhancing or acquiring the equivalent of natural resources injured as a result of the Oil Spill or the reduced or lost services provided by such resources..."

• Restoration funds must be spent on restoration of natural resources in Alaska unless the Trustee Council unanimously agrees that spending funds outside the state is necessary for effective restoration.

• All decisions made by the Trustees, such as a decision to spend restoration funds, must be unanimous.

Since the 1991 settlement, the Trustee Council has been working to restore the resources and services injured by the oil spill. In November 1994 the Council adopted the *Exxon Valdez Oil Spill Restoration Plan* to guide the restoration effort. To be eligible for funding, proposals must be consistent with the policies in the *Restoration Plan* and must be designed to achieve the recovery objectives for injured resources and services.

The *Restoration Plan* outlines a comprehensive, balanced approach to the restoration of damaged resources and services. This approach includes the following basic elements:

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- Monitoring and Research;
- General Restoration;
- Habitat Protection and Acquisition; and
- Restoration Reserve.

Table 1 lists the resources and services injured by the spill. For biological resources, the table includes those resources for which scientific research has demonstrated a population-level injury, or a continuing sublethal or chronic effect.

Restoration activities must address one or more resources or services identified in Table 1. They may address other resources or services if new scientific or local knowledge shows that other resources or services experienced a population-level injury or continuing chronic effect. In addition, restoration actions may address resources not listed in Table 1 if these activities will benefit an injured resource or service. For example, it may be permissible to focus activities on a resource that is not listed in Table 1 if the activities will help subsistence or commercial fishing activities or are a necessary part of a research proposal designed to help understand the injuries to a resource identified in the table.

IN	Lost or Reduced		
Biological	Biological Resources Other		SERVICES
Recovering Bald eagle Black oystercatcher Intertidal organisms (some) Killer whale Mussels Sockeye salmon (Red Lake) Subtidal organisms (some)	Not Recovering Common murre Harbor seal Harlequin duck Intertidal organisms (some) Marbled murrelet Pacific herring Pigeon guillemot Pink salmon Sea otter Sockeye salmon	Archaeological resources Designated wilderness areas Sediment	Commercial fishing Passive uses Recreation and Tourism including sport fishing, sport hunting, and other recreation uses Subsistence
Recovery Unknown Clams Common Loon Cutthroat trout Dolly Varden Kittlitz's murrelets River otter Rockfish	(Kenai & Akalura systems) Subtidal organisms (some)		

Table 1. Resources and Services Injured by the Spill The table includes only population-level and continuing sublethal injuries.

Trustee Council scientists are reviewing recommendations to add resources to the table. They are also in the process of updating the status of injured resources using information from 1994 and 1995. A revised table is expected to circulated for public review in February as part of the Invitation to Submit Restoration Projects for Federal Fiscal Year 1997.

Financial Summary

In the civil settlement, Exxon Corporation agreed to pay the United States and the State of Alaska \$900 million over ten years to restore the resources and services injured by the spill. From these payments approximately \$480 million has been authorized as of December 1995 for research, monitoring, general restoration, habitat protection, reimbursements required by the civil settlement, and deductions. The Trustee Council has also allocated \$36 million to the Restoration Reserve.

Past and estimated future uses of the civil settlement fund as of December 1995 are outlined in Table 2. Future costs in the table are estimates made for planning purposes. The Trustee Council members will base actual funding decisions on their examination of what is necessary for restoration at that time.

Table 2.	Past and Estimated Future Uses of the Civil	Settlement I	Fund
	as of December 1995		

Damage Assessment (incl. litigation & cleanup)	\$	214	Million	
(1) Reimbursements to govts: \$ 173.7 million				
(2) Reimbursements to Exxon: \$ 39.9 million	1 1	1		
Habitat Protection	\$	375	Million	
Large- & Small-parcel Acquisitions (including past and				
anticipated future purchases, and support costs)				4
Restoration Reserve	\$	108	Million	(plus interest)
FY 94 & FY 95: \$ 24.0 million				
FY 96: \$ 12.0 million				
Anticipated future: \$ 72.0 million				
Public Information, Science Mgmt, & Admin.	\$	35	Million	and a grade a design
Past Authorizations: \$ 21.8 million				
FY 92 \$ 5.1				
(3) FY 93 \$ 4.1				
FY 94 \$ 4.9				1 A
FY 95 \$ 4.3				the state of the s
FY 96 \$ 3.4				
Estimated Future: \$ 13.2 million		1.1		
Research, Monitoring, and General Restoration	\$	180	Million	
Past Authorizaitons: \$ 105.7 million				
FY 92 \$ 14.1				
(3) FY 93 \$ 11.2				
FY 94 \$ 18.0			en en la sec	
FY 95 \$ 19.2				
FY 96 \$ 18.2				
Alaska SeaLife Ctr \$ 25.0				
Estimated Future: \$ 74.7 million				
Total	\$	912	Million	
Exxon Payments \$ 900.0 million				$(-1) = (-1) \sum_{i=1}^{n} (-1) \sum_{i=1}^{$
Accumulated Interest less				
court fees \$ 12.0 million	· .			

Notes for the table.

(1) Reimbursements to governments is reduced by \$2.7 million because that amount of the reimbursement to the state government was for the FY 92 work plan.

(2) Deduction by Exxon Corporation for cleanup activities after January 1, 1992.

(3) FY 93 was a seven-month fiscal year to transition from the oil spill year to the federal fiscal year.

The Work Plan Process

This section describes the process used to develop the FY 96 Work Plan.

Restoration Workshop for Review and Planning. A Restoration Workshop was held in January 1995 to review previous years' work and analyze restoration needs for the future. More than 120 people participated, including individuals conducting restoration projects, independent peer review scientists, and members of the public.

Invitation to Submit Projects. Based in large part on the workshop, the Invitation to Submit Restoration Projects for Federal Fiscal Year 1996 was developed and distributed in March 1995. The Invitation asked individuals, private industry, government agencies, and other interested parties to submit ideas and proposals for restoration work in FY 96. The deadline to submit proposals was May 1, 1995.

Review of Proposals. One hundred and twenty-one projects totalling almost \$35 million were submitted in response to the *Invitation*. All projects received independent scientific review coordinated by the Trustee Council's Chief Scientist. They were also reviewed by agency staff and the Public Advisory Group.

Draft Work Plan. On the basis of these reviews, the Executive Director developed a preliminary recommendation for public review and comment in the Draft FY 96 Work Plan.

Public Review. The *Draft FY 96 Work Plan* was distributed for public comment in late June 1995. The public comment period closed August 4, 1995. The Public Advisory Group reviewed the draft work plan at a meeting in late July. In addition to the public review, many proposals underwent further technical, budget, policy, and legal review.

Final Executive Director's Recommendation. Based on public comments on the Draft FY 96 Work Plan, resolution of outstanding issues, and further review, the Executive Director made a final recommendation to the Trustee Council in mid-August.

Trustee Council Decision. On August 25, 1995, the Trustee Council approved projects totalling \$13.7 million, and deferred projects that required further review. At the August meeting, the Trustee Council also recommended a target of \$18 million for FY 96 monitoring, research, and general restoration projects.

Following the August meeting, the Chief Scientist and Trustee Council staff conducted additional technical review sessions to review most of the projects deferred from August. The sessions allowed detailed discussion of FY 95 results and FY 96 proposals by principal investigators and expert scientific reviewers.

Using the results of those reviews and additional public comment, on December 11, 1995, the Trustee Council authorized additional monitoring, research and general restoration projects totalling \$4.5 million. December's action brought the FY 96 authorization total to approximately \$18.2 million for these projects.

Where to go for More Information

Information about Individual Proposals. This document contains only summary information about each FY 96 project. The *Supplement to the Final Fiscal Year 1996 Work Plan: Detailed Project Descriptions (December 1995)* contains detailed project descriptions for each of the approved fiscal year 1996 projects. The document is very large and limited copies are available from the Restoration Office. Copies have been sent to libraries in the spill area and elsewhere in Alaska. If you would like a copy of the project description for one or more specific projects, contact the Restoration Office.

Information about Long-term Work Plan Needs. If you would like a more detailed overview of the individual clusters of work plan projects, please call the Restoration Office and ask for a copy of the *Draft Restoration Program: FY 96 and Beyond* (March 1995). An updated copy of this document is expected to be distributed in February 1996.

Information about the Restoration Program in General: Requirements, Policies, and Objectives. Please call and ask for a copy of the *Exxon Valdez Oil Spill Restoration Plan* (November 1994).

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Summary of FY 96 Projects

In May 1995 the Trustee Council received 121 research, monitoring, and general restoration proposals requesting funding for FY 96. In August and December 1995, the Trustee Council authorized sixty-one projects for FY 96. These projects total \$18.2 million. The Trustee Council also authorized \$3.4 million for Administration, Public Information, and Science Management, and authorized the third \$12 million payment to the Restoration Reserve. The chart shows the amount of funds that the Trustee Council authorized by restoration cluster.



Figure 1. Funding Distribution by Restoration Cluster.

Individual projects are listed in Table 3 on the following pages. The table shows the expected cost of completing projects approved in FY 96. The totals on the last page of the table show the FY 96 and estimated future-year cost of all research, monitoring, and general restoration projects funding this year. The total cost of these projects is \$18.2 million in FY 96. If estimates of next year's costs are accurate, at least \$13.2 million may be needed to continue this year's projects in FY 97.

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Table 3.	FY96	Projects
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Project		FY 96 and Estimated Future Costs				ts
Number	Project Title	FY 96	FY 97	FY 98	FY 99 +	Total 96+
Pink Salmon		\$2,017.5	\$1,268.5	\$775.2	\$163.8	\$4,225.0
96076	Effects of Oil on Straying and Survival	\$393.8			\$0.0	\$393.8
96139A1	Little Waterfall Barrier Bypass Improvement	\$55.0	\$35.0	\$15.0	\$0.0	\$105.0
96139A2	Port Dick Spawning Channel	\$230.5	\$37.0	\$23.2	\$30.0	\$320.7
96139C1	Montague Riparian Rehabilitation Monitoring	\$9.7	\$0.0	\$0.0	\$0.0	\$9.7
96186	Coded Wire Tag Recoveries	\$254.9	\$260.5	\$260.5	\$85.0	\$860.9
96188	Otolith Thermal Mass Marking	\$93.2	\$100.5	\$100.5	\$48.8	\$343.0
96190	A Linkage Map for the Pink Salmon Genome	\$167.7	\$250.0			\$417.7
96191A	Oil-Related Embryo Mortalities	\$474.6	\$407.0	\$246.0	\$0.0	\$1,127.6
96191B	Injury to Salmon Eggs	\$159.6	\$0.0	\$0.0	\$0.0	\$159.6
96196	Genetic Structure of Pink Salmon	\$178.5	\$178.5	\$130.0	\$0.0	\$487.0
Herring		\$1,323.0	\$930.6	\$708.7	\$0.0	\$2,962.
96074	Herring Reproductive Impairment	\$140.0	\$0.0	\$0.0	\$0.0	\$140.
96162	Disease Affecting Declines of Herring Populations	\$635.0	\$510.6	\$461.7	\$0.0	\$1,607.3
96165	Genetic Discrimination of PWS Populations	\$103.9	\$120.0	\$97.0	\$0.0	\$320.
96166	Herring Natal Habitats	\$444.1	\$300.0	\$150.0	\$0.0	\$894.
SEA Plan an	d Related Projects	\$4,648.2	\$3,685.0	\$2,685.0	\$0.0	\$11,018.
96195	Pristane Monitoring	\$114.8	\$85.0	\$85.0	\$0.0	\$284.
96320	Sound Ecosystem Assessment (SEA)	\$4,533.4	\$3,600.0	\$2,600.0		\$10,733.
Sockeye Sa	lmon	\$1,286.2	\$391.0	\$0.0	\$0.0	\$1,677.
96048	Historical Analysis of Affected Sockeye	\$116.9	\$0.0	\$0.0	\$0.0	\$116.
96255	Kenai River Sockeye Salmon	\$307.0	\$100.0	\$0.0		\$407.
96258A	Sockeye Salmon Overescapement	\$596.6	\$150.0	\$0.0	\$0.0	\$746.
96259	Coghill Lake Sockeye Salmon	\$265.7	\$141.0	\$0.0	\$0.0	\$406.
Cutthroat a	nd Dolly Varden	\$229.6	\$200.0	\$100.0	\$0.0	\$529.
96043B	Monitoring Habitat Improvements Structures	\$29.6				\$29.
96145	Cut & Dolly: Anadromous & Resident Forms	\$200.0	\$200.0	\$100.0	\$0.0	\$500.
Marine Man	nmals	\$812.8	\$687.3	\$275.1	\$25.0	\$1,800.
96001	Condition and Health Status of Harbor Seals	\$214.1	\$192.3	\$48.1	\$0.0	\$454.
96012A	Comprehensive Killer Whale Investigation	\$101.0				\$101
96064	Monitoring, Habitat Use, & Trophic Interactions of Harbor Seals	\$347.3	\$347.0	\$100.0	\$25.0	\$819.
96170	Isotope Ratio Studies of Marine Mammals	\$150.4	\$148.0	\$127.0	\$0.0	\$425.

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Table 3.FY96 Projects

Project		FY 96 and Estimated Future Costs			its	
Number	Project Title	FY 96	FY 97	FY 98	FY 99 +	Total 96+
Nearshore E	cosystem Projects	\$2,989.2	\$1,869.3	\$1,789.4	\$920.0	\$7,567.9
96025	Nearshore Vertebrate Predators	\$1,859.9	\$1,669.4	\$1,669.4	\$450.0	\$5,648.7
96027	Kodiak Archipelago Shoreline Assessment	\$39.8	\$0.0	\$0.0	\$0.0	\$39.8
96086	Herring Bay Monitoring and Restoration	\$173.0	\$0.0	\$0.0	\$0.0	\$173.0
96090	Mussel Bed Restoration and Monitoring	\$205.1	\$0.0	\$0.0	\$0.0	\$205.1
96106	Subtidal Monitoring: Eelgrass	\$253.1	\$0.0	\$0.0	\$0.0	\$253.1
96161	Differentiation & Interchange of Harlequin Populations in North Pacific Region	\$81.1	\$78.9	\$0.0	\$0.0	\$160.0
96290	Hydrocarbon Data Analysis, Interpretation, and Database Maintenance	\$116.1	\$121.0	\$120.0	\$470.0	\$827.1
96427	Harlequin Duck Recovery Monitoring	\$261.1				\$261.1
Seabird/For	age Fish and Related Projects	\$2,411.0	\$1,951.0	\$1,834.6	\$458.5	\$6,655.1
96031	Productivity Index to Monitor Murrelets	\$77.6	\$50.0	\$39.9	\$0.0	\$167.5
96038	Publication of Seabird Restoration Workshop	\$22.2	\$0.0	\$0.0	\$0.0	\$22.2
96101	Removal of Introduced Foxes From Islands	\$8.4	\$0.0	\$0.0	\$0.0	\$8.4
96142	Status and Ecology of Kittlitz's Murrelet	\$168.7		e de la compañía de l	the second second	\$168.7
96144	Common Murre Population Monitoring	\$70.5	\$125.3	\$44.0	\$458.5	\$698.3
96159	Surveys to Monitor Marine Bird Abundance	\$262.9	\$25.0	and the second		\$287.9
96163	APEX: Apex Predator Ecosystem Experiment	\$1,800.7	\$1,750.7	\$1,750.7		\$5,302.1
Subsistence		\$1,352.2	\$1,226.0	\$957.5	\$1,594.8	\$5,130.5
96009D	Survey of Octopuses in Intertidal Habitats	\$142.3	\$40.9	\$0.0	\$0.0	\$183.2
96052	Community Involvement/Traditional Knowledge	\$271.0	\$250.0	\$250.0	\$1,000.0	\$1,771.0
96127	Tatitlek Coho Salmon Release	\$26.6	\$15.9	\$15.9	\$15.9	\$74.3
96131	Chugach Native Region Clam Restoration	\$274.9	\$413.6	\$417.4	\$417.4	\$1,523.3
96210	PWS Youth Area Watch	\$115.0	\$100.0	\$100.0	\$0.0	\$315.0
96214	Documentary, Subsistence Seal Hunting	\$77.4	\$0.0	\$0.0	\$0.0	\$77.4
96220	Eastern PWS Wildstock Salmon Habitat Rest.	\$92.0	\$115.0	\$12.0	\$0.0	\$219.0
96222	Chenega Bay Salmon Restoration	\$16.1	\$56.4	\$0.0	\$0.0	\$72.5
96225	Port Graham Pink Salmon Subsistence	\$95.3	\$83.1	\$77.2	\$161.5	\$417.1
96244	Community Based Harbor Seal Management	\$128.5	\$100.0	\$85.0	\$0.0	\$313.5
96256	Columbia & Solf Lakes Sockeye Salmon	\$60.8				\$60.8
96272	Chenega Chinook Release Program	\$52.3	\$51.1	\$0.0	\$0.0	\$103.4

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Table 3. FY96 Projects

FY	FY	
96	96	
Proj	Wo	
ects	rk F	
	lan	

Project		FY 96 and Estimated Future Costs					
Number	Project Title	FY 96	FY 97	FY 98	FY 99 +	Total 96+	
Archaeology		\$504.2	\$195.0	\$195.0	\$135.0	\$1,029.2	
96007A	Archaeological Index Site Monitoring	\$145.1	\$135.0	\$145.0	\$135.0	\$560.1	
96007B	Site Specific Archaeological Restoration	\$78.4	\$0.0	\$0.0	\$0.0	\$78.4	
96149	Archaeological Site Stewardship	\$74.4	\$60.0	\$50.0	\$0.0	\$184.4	
96154	Comprehensive Community Plan for Restoration of Archaeological Resources	\$206.3				\$206.3	
Reducing Ma	arine Pollution	\$28.3	\$0.0	\$0.0	\$0.0	\$28.3	
96115	Sound Waste Management Plan	\$28.3				\$28.3	
Habitat Impr	ovements	\$560.6	\$800.0	\$600.0	\$0.0	\$1,960.6	
96180	Kenai Habitat Restoration & Recreation Enh.	\$560.6	\$800.0	\$600.0	\$0.0	\$1,960.6	
Information	Support	\$42.0	\$0.0	\$0.0	\$0.0	\$42.0	
96507	EVOS Symposium Publication	\$42.0	\$0.0	\$0.0	\$0.0	\$42.0	
Total: Mon	itoring, Research & Gnrl Restorat'n :	\$18,204.8	\$13,203.7	\$9,920.5	\$3,297.1	\$44,626.1	

Public Information, Science Mgmt, and Administration	\$3,439.6	\$3,200.0	\$2,800.0	\$7,200.0	\$16,639.6
Habitat Acquisition and Protection Support	\$2,160.9				2-
Total: All Projects:	\$23,805.3	\$16,403.7	\$12,720.5	\$10,497.1	\$61,265.7

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Research, Monitoring, and General Restoration Projects

This section provides an overview of the Fiscal Year 1996 Work Plan by restoration cluster.

Pink Salmon

The pink salmon program has four components as described below. Most are well underway and are expected to be complete within a few years.

THE SOUND ECOSYSTEM ASSESSMENT (SEA): a multi-year ecological investigation of the factors controlling populations of Prince William Sound pink salmon and herring is described on page 12.

TOXIC EFFECT OF OIL ON PINK SALMON. After the oil spill, research documented that pink salmon eggs in oiled streams were dying at higher rates than in unoiled streams. By 1994 and 1995, the monitoring showed that the level of egg mortalities had returned to a level that was not statistically different than that of the unoiled streams. Monitoring is expected to continue until egg mortalities in oiled and unoiled streams are not significantly different for two years for each of the odd- and even-year runs.

- Monitor egg mortality of wild pink salmon (96191A).
- Determine whether mortality is the result of genetic injury; that is, determine whether the original injury caused genetic damage that is passed to subsequent generations (96191B, 96076);
- Determine whether oiling causes pink salmon to increase their natural rate of straying or results in decreased marine survival (96076).

STOCK SEPARATION AND MANAGEMENT. Provide better information for use by fishery managers to protect injured pink salmon runs that might otherwise be overharvested. Fishery managers use the information to set harvest limits, locations, and timing to concentrate commercial harvest on hatchery or uninjured wild runs in order to protect injured wild stocks.

- Marking Salmon Coded Wire Tag & Otolith Thermal Marking (96186, 96188).
- Genetics and Stock Structure Investigations (96190, 96196).

SUPPLEMENTATION. Other supplementation projects are described in the subsistence cluster, page 18.

• Construct and monitor structures to enhance wild pink salmon production (96139A1, 96139A2, 96139C1).

COST (Pink Salmon)

	TTT 0.6	
	<u>FY 96</u>	Total thru 2002
Toxic Effect of Oil	\$1,028,000	\$1,681,000
Stock Separation and Management	\$694,300	\$2,108,600
Supplementation	<u>\$295,200</u>	<u>\$435,400</u>
Total:	\$2,017,500	\$4,225,000

Pacific Herring

The herring biomass in Prince William Sound declined by more than 75 percent from the record level in 1992 of over 100,000 tons. This precipitous decline was first observed in the spring of 1993 and continued during 1994 and 1995. The Prince William Sound herring fishery was curtailed in 1993 and has not opened since that time. The herring program focuses on investigating the causes of the crash and prospects for recovery, and on providing management information to help fishery managers protect injured stocks.

THE SOUND ECOSYSTEM ASSESSMENT (SEA): a multi-year ecological investigation of the factors controlling populations of Prince William Sound pink salmon and herring is described on page 12.

REPRODUCTIVE IMPAIRMENT. Close out research to determine if exposure to oil caused decreased reproduction or genetic damage, as major objectives have been accomplished (96074).

GENETIC STOCK IDENTIFICATION. Provide information about the number and distribution of stocks of herring to fishery managers to help them focus the fishery on uninjured populations (96165).

HERRING DISEASE. Study the causes and impact of a virus and a fungus that have become common in PWS herring populations. The project is also investigating the hypothesis that oil-induced stress is linked to the disease outbreaks and population decline. (96162).

HERRING NATAL HABITATS. Estimate the biomass of all spawning herring in Prince William Sound. Develop a management tool to be taken over by Alaska Department of Fish and Game (96166).

COST (Pacific Herring)

	Authorized for	Estimated
	<u>FY 96</u>	Total thru 2002
Close out: Herring Reproductive Impairment	\$140,000	\$140,000
Herring Genetic Stock Identification	\$103,900	\$320,900
Herring Natal Habitat	\$444,100	\$894,100
Herring Disease	<u>\$635,000</u>	<u>\$1,607,300</u>
Total:	\$1,323,000	\$2,962,300

Sound Ecosystem Assessment (SEA Program)

The SEA Program is a multi-year ecological investigation of the factors controlling populations of Prince William Sound pink salmon and herring. It began in FY 94 and will likely continue through FY 98.

SEA PROGRAM. The SEA Program is designed to obtain an understanding of the mechanisms that influence levels of adult production for pink salmon and herring in PWS by investigation of the early life stages of these species. The research goals for the program are:

- Acquire an ecosystem-level understanding of processes that interact to maintain the production of pink salmon and herring within natural limits of variability.
- Use this new information to develop improved predictors of annual levels of pink salmon and herring production. The information will help forecast pink salmon and herring responses to both natural and human disturbances, including fisheries management, enhancement, and restoration.
- *Establish a database* describing the status of the ecosystem relative to pink salmon and herring as an information source for improving the effectiveness of management, enhancement, and restoration of these and other resources.

RELATED PROJECT. One related project complements SEA Program goals. Project 96195, Pristane Monitoring in Mussels and Predators of Juvenile Pink Salmon and Herring, will provide an innovative measure of marine productivity, thus allowing improved predictions about fisheries productions and harvest levels.

Cost

			Authorized for	Estimated
			<u>FY 96</u>	Total thru FY 98
SEA Program			\$4,533,400	\$10,733,400
Related Project			<u>\$114,800</u>	<u>\$284,800</u>
		Total:	\$4,648,200	\$11,018,200

Sockeye Salmon

KENAI/SKILAK SOCKEYE. Commercial fishing for sockeye salmon in 1989 was curtailed in Upper Cook Inlet. As a result, there were higher than usual returns (overescapement) of spawning fish to the Kenai/Skilak lake systems. Research indicates that the overescapement reduced the nursery capability of Kenai and Skilak lakes.

Most of the fish spawned in 1989 returned as adults in 1995. The number of returning adults per 1989 spawner was significantly lower than usual. However, fishery managers were able to manage the fishery so that escapement goals were met. This ability was due large in part to information provided by Project 96255.

- Stock Separation and Management. Funding for continuation of the genetic stock identification technique is at a reduced level in FY 96 which reflects the beginning of a transition of responsibility to ADF&G. The project has developed and implemented techniques used to identify the portion of the Upper Cook Inlet commercial catch that comes from different sockeye runs. This information allows fishery managers to concentrate the fishery on uninjured sockeye runs (96255).
- **Research.** Complete work on the Kenai River in the next two years (96258A). Synthesize existing information on sockeye overescapement, including for the Chignik Lake system which has not been studied since the large escapement in 1989 (96048). The project will help resolve questions about the geographic extent and mechanism of the spill-related overescapement injury.
- Habitat Improvements, Protection, and Acquisition. The Trustee Council is providing significant funds for habitat protection and improvements along the Kenai River. (See Habitat Improvements, page 20; and Habitat Protection and Acquisition, page 23.) Funding for these activities is expected to continue over the next few years and will result in an important and long-lasting increase in the level of protection afforded the Kenai River habitat.

KODIAK SOCKEYE SALMON. Overescapement also affected the productivity of the Red, Frazer, Akalura, and Afognak lake systems in the Kodiak Archipelago. The monitoring program for these lakes is being closed out in FY 96 because the mixed-stock fishery in waters offshore of the lakes greatly complicates future restoration efforts for these lakes (Kodiak portion of Project 96258A).

SUPPLEMENTATION. FY 96 is the fourth year of a five-year program to fertilize Coghill Lake to provide replacement fish for the sport and commercial fishery in Prince William Sound (96259).

COST (Sockeye Salmon)

<u>FY 96</u>	Total thru 2002
\$1,020,500	\$1,270,500
<u>\$265,700</u>	<u>\$406,700</u>
\$1,286,200	\$1,677,200
9	\$1,286,200

Cutthroat and Dolly Varden Trout

Prince William Sound is the northern and western limit of the cutthroat trout's range, and the resource does not exist elsewhere in the spill area. The cutthroat stocks known to exist within the Sound are few, rarely more than 1,000 individuals, and are geographically isolated from each other. Studies conducted in 1989, 1990, and 1991 indicated that cutthroat and Dolly Varden trout growth rates and adult sizes were less in oiled than in unoiled areas.

Past restoration projects have emphasized supplementation of wild stocks to augment their small populations and thus their safety in the face of spill-related or natural stresses. In FY 96, the program focuses on finishing and monitoring habitat improvements, and on research on life history to enhance management of injured populations.

SUPPLEMENTATION. Finish construction of in-stream habitat improvements begun in 1994, and monitor them to determine their physical and biological success (96043B).

RESEARCH AND MONITORING. Implement a research project (96145) to provide basic information about the relationship between resident and anadromous forms of cutthroat and Dolly Varden Trout. The research may clarify the nature of previously documented injuries and suggest future management improvements.

COST

			Authorized for	Estimated
			<u>FY 96</u>	Total thru 2002
Supplementation			\$29,600	\$29,600
Research and Monitorin	g		\$200,000	\$500,000
an an an tao amin' a Amin' amin' amin	Frank and search and search An 1946 - An Angeler an Angeler	Total:	\$229,600	\$529,600

Marine Mammals

Understanding long-term declines in harbor seals, as well as factors presently limiting recovery, is fundamental to restoration of oil spill injuries. Indications from FY 95 are that the prespill decline in harbor seals is continuing in Prince William Sound. For killer whales, recent information indicates that there are as many or more killer whales in Prince William Sound as there were before the spill. However, one pod of whales, the AB pod, is missing individuals which may have been killed by the spill and the AB pod may never recover to its prespill numbers.

FACTORS LIMITING RECOVERY OF HARBOR SEALS. Conduct research into probable factors limiting recovery of harbor seals, particularly as these factors affect the survival of juveniles. Possible factors include food limitation, disease, and mortality caused by humans, including incidental take and subsistence harvest. This research is accomplished by a group of projects that will be completed in FY 98 (96001, 96064, and 96170).

CLOSE OUT THIS EPISODE OF MONITORING KILLER WHALES. Killer whales in Prince William Sound have been monitored every year since the spill. FY 96 funding will be used to complete past work and continue limited monitoring of the AB pod (96012A). The need for additional monitoring is unclear and will be evaluated when projects are submitted in FY 97.

OTHER HARBOR SEAL PROJECTS. Other projects concerning harbor seals are discussed in the section describing subsistence.

COST (Marine Mammals)

	Authorized for	Estimated
	<u>FY 96</u>	Total thru 2002
Factors Limiting Recovery of Harbor Seals	\$711,800	\$1,699,200
Killer Whale Monitoring	<u>\$101,000</u>	<u>\$101,000</u>
Total:	\$812,800	\$1,800,200

Nearshore Ecosystem Projects

This cluster of projects addresses sea otters, river otters, harlequin ducks, pigeon guillemots, black oystercatchers, mussels, clams, and other intertidal/subtidal organisms. Also included in this section are projects that monitor the fate and persistence of oil.

RECOVERY OF NEARSHORE VERTEBRATE PREDATORS. Project 96025 is one of the restoration program's three ecosystem studies. The study is designed to determine whether or not populations of target species are recovering, isolate processes constraining recovery, and identify potential activities to facilitate recovery. Four nearshore vertebrate predator species and their primary prey are being studied. The predators are sea otters, river otters, harlequin ducks, and pigeon guillemots. The prey are mussels, clams, sea urchins, and crabs for sea otters and harlequin ducks, and nearshore benthic fishes for river otters and pigeon guillemots.

MONITOR RECOVERY OF INTERTIDAL AREAS. The intertidal studies close out previous monitoring studies of the contamination and recovery of intertidal areas including invertebrates (96086), mussels (96090), and eelgrass communities (96106). Any future work on the intertidal communities will be coordinated with ongoing intertidal research performed by NOAA.

FATE AND PERSISTENCE OF OIL. The major issue involving the fate and persistence of oil is whether additional beach treatment would be effective, beneficial, or would inflict additional harm to the recovering intertidal areas. These issues are important and have attracted significant interest from the public, especially subsistence users around Chenega who previously used beaches on which surface oil remains visible. A workshop to address these issues was held in November 1995. The results of this workshop are expected to be distributed early in 1996. Project 96027 closes out a FY 95 assessment of shoreline oil in the Kodiak area, and follows up on information from November's Residual Oiling Workshop.

ADDITIONAL MONITORING

- Harlequin Duck Monitoring. Use newly available genetic techniques to determine the population structure and the interchange between populations of harlequin ducks in the northern Gulf of Alaska (96161). Monitor reproductive success in oiled and unoiled areas within Prince William Sound (96427).
- *Hydrocarbon Database*. Continue analysis of hydrocarbon samples to support many other Trustee Council projects, and maintain the database of information about those samples (96290).

COST

		Authorized for	Estimated
		<u>FY 96</u>	Total thru 2002
Nearshore Vertebrate Predators		\$1,859,900	\$5,648,700
Monitor Recover of Intertidal Areas		\$631,200	\$631,200
Fate and Persistence of Oil		\$39,800	\$39,800
Additional Monitoring		<u>\$458,300</u>	\$1,248,200
	Total:	\$2,989,200	\$7,567,900

December 1995

Seabird Forage Fish and Related Projects

This cluster of projects addresses bald eagles, common murres, marbled murrelets, and pigeon guillemots.

SEABIRD/FORAGE FISH PROJECT (APEX). The Seabird/Forage Fish Project (96163) — also known as APEX — is one of the three major ecological studies being undertaken by the Trustee Council. Populations of several injured fish-eating birds and mammals, including common murres, marbled murrelets, and pigeon guillemots, are not recovering in Prince William Sound. This group of projects examines whether the abundance, composition, and distribution of forage fish are limiting seabird recovery in Prince William Sound. The project envisions intensive study for five years (FY 95-99).

RELATED BIRD MONITORING AND RESEARCH PROJECTS. Although the Seabird/Forage Fish Project is likely to be the primary restoration effort addressing seabirds, other restoration projects gather basic life history information and monitor recovery of populations.

- *Murrelets:* The Trustee Council has previously funded significant work to monitor marbled murrelet populations and to provide an index of marbled murrelet productivity (96031). This year's funding is to synthesize past marbled murrelet work (including analysis of FY 95 field work) and to explore possible integration into the Seabird/Forage Fish Project. A second study will develop basic biological information about the Kittlitz's murrelet, a species thought to have received significant injury due to the spill, but about which very little is known (96142).
- Common Murres: Monitor the population of common murres at their major spill-area colony, the Barren Islands (96144).
- Other: Repeat a marine bird survey that monitors populations of a variety of marine birds (96159), contribute to publication of reports from a seabird restoration workshop sponsored by the Trustee Council in the fall of 1995 (96038), and close out a project to remove introduced foxes from islands with seabird colonies (96101).

	Authorized for	Estimated
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Seabird/Forage Fish (APEX) Project	\$1,800,700	\$5,302,100
Murrelets	\$246,300	\$336,200
Common Murres	\$70,500	\$698,300
Other	\$293,500	\$318,500
Total:	\$2,411,000	\$6,655,100

Subsistence

The most important subsistence restoration activities are those actions that restore the resources important to subsistence. These include clams, harbor seals, Pacific herring, pink salmon, sea otters, and sockeye salmon. Most projects in the FY 96 Work Plan aid this objective.

RESTORE INJURED RESOURCES USED FOR SUBSISTENCE. One project to restore subsistence resources that is not catalogued elsewhere is a survey to determine the extent, severity, and cause of an observed decline of octopus (96009D).

REPLACE OR ENHANCE SUBSISTENCE RESOURCES. Seven projects focus specifically on enhancing or replacing harvestable resources near subsistence communities.

- *Replacement Salmon Runs.* Provide enhanced or replacement salmon runs near subsistence communities (96127, 96220, 96222, 96225, 96256, 96272).
- *Clam Restoration*. Develop hatchery techniques to produce clam seed and provide replacement clam beds for subsistence use (96131).

FACILITATE PARTICIPATION OF AND COMMUNICATION WITH SUBSISTENCE USERS. These projects inform subsistence users about restoration efforts directed at the resources they use for food. In addition, they include efforts to make use of subsistence users' knowledge about resources in order to achieve restoration objectives. Finally, these projects help subsistence users participate in the restoration planning process. Aiding participation of and communication with subsistence users is expected to occur throughout the restoration process.

- Community Involvement/Traditional Knowledge (96052).
- PWS Youth Area Watch (96210).
- Harbor Seal Cooperative Management Projects: Harbor Seal Cooperative Assistance including community-based sampling (96244). Also, Documentary on Subsistence Seal Hunting (96214).

FOOD SAFETY TESTING; RESIDUAL SHORELINE OIL. Testing subsistence foods for safety began in 1989 under the auspices of the Oil Spill Health Task Force. This and similar work was continued by the Trustee Council in FY 93, 94, and 95. Communication of food safety information will continue under the Community Involvement/Traditional Knowledge project (96052). A workshop on the effects and potential remedies for the continued presence of residual shoreline oil was held in the fall of 1995. Results are expected to be presented to the Trustee Council in early 1996.

Cost	Authorized for	Estimated
	<u>FY 96</u>	Total thru 2002
Restore Injured Subsistence Resources*	\$142,300*	\$183,200*
Replace/Enhance Subsistence Resources	\$618,000	\$2,470,400
Facilitate Participat'n & Communication	\$591,900	\$2,476,900
Food Safety Testing	Included in t	the projects above
Total:	\$1,352,200	\$5,130,500

* Most projects described elsewhere in this work plan restore resources used for subsistence.

Archaeological Resources

Archaeological resources are non-renewable. They cannot recover in the same sense as biological resources. Thus, the restoration effort has focused on monitoring, site-stabilization and data recovery, and protecting artifacts and sites from further degradation.

MONITORING. Periodically monitor a small number of "index sites" to gauge whether there is a resurgence in looting and vandalism, and continue hydrocarbon testing (96007A).

SITE-STABILIZATION AND DATA RECOVERY. Finish curation of artifacts from two vandalized sites (96007B).

PROTECTING ARTIFACTS AND SITES. Two strategies seek to protect artifacts and sites from further degradation and vandalism.

- Site-stewardship Program: Provide training and coordination for volunteers to monitor vandalized archaeological sites in the spill area. The approved project funds a pilot program for Kachemak Bay, Uganik Bay, Uyak Bay, and the Chignik areas (96149).
- *Planning for Repositories.* The possibility of providing facilities to conserve and display artifacts within communities of the spill area has attracted significant community interest. Project 96154, would work with communities and museums in the spill area, and the University of Alaska to evaluate the need for additional repositories and develop a regional approach to artifact protection.

COST

		Authorized for	Estimated
		<u>FY 96</u>	Total thru 2002
Monitoring		\$145,100	\$560,100
Complete Artifact Curation		\$78,400	\$78,400
Protecting Artifacts and Sites		<u>\$280,700</u>	<u>\$390,700</u>
	Total:	\$504,200	\$1,029,200

Habitat Improvements

Along the Kenai River, the riparian zone provides important habitat for pink salmon, sockeye salmon, and Dolly Varden. It has been adversely affected by trampling, vegetation loss and the development of structures that affect the riverbank and water. One project (96180) would restore trampled habitat along the Kenai River through general restoration techniques such as revegetation and installation of boardwalks and signs to divert use away from sensitive areas.

Cost

	Authorized for	Estimated
	<u>FY 96</u>	Total thru 2002
Kenai Habitat Restoration & Recreation Enh.	\$560,600	\$1,960,600

Reduction of Marine Pollution

According to the *Restoration Plan:* "Restoration projects whose primary emphasis is to reduce marine pollution may be considered: where the marine pollution is likely to affect the recovery of a part of the injured marine ecosystem, or of injured resources or services; and where the project will not duplicate existing agency activities."

Sound Waste Management Plan. Project 96115 completes the second and final year of development of a comprehensive plan to identify and remove the major sources of marine pollution and solid waste in Prince William Sound that may be affecting recovery of resources and services injured by the spill. Implementation of the solutions to remove the waste will be funded mainly from sources other than Trustee Council funds. However, some solutions may be appropriate for funding by the Trustee Council in future years. The plan is expected to be finished during FY 96.

COST

		Authorized for	Estimated
		<u>FY 96</u>	Total thru 2002
Sound Waste Management Plan		\$28,300	\$28,300

Public Information, Science Management, and Administration

These expenses fund management and administrative functions necessary to efficiently implement the restoration program.

PUBLIC INFORMATION AND INVOLVEMENT

- *Public Advisory Group*. A 17-member advisory group provides input to the Trustee Council on the annual work plan and other aspects of the restoration program.
- *Public Meetings*. These meetings provide information and solicit comment on restoration activities.
- *Publications.* The Trustee Council publishes a newsletter, an annual status report, and a variety of other publications to provide information to scientists, resource managers, and the public.
- Oil Spill Public Information Center. OSPIC serves as the central access point for information and materials generated through the restoration process. In the past four years, staff librarians have responded to over 14,000 information requests, processed over 1,700 interlibrary loans, and distributed over 30,000 documents.
- Information Management System. Beginning in FY 95, the Trustee Council provided funding to develop a comprehensive database of restoration projects and reports for access through the Internet and other necessary tools to more efficiently synthesize and disseminate information generated through the restoration process.

SCIENTIFIC MANAGEMENT AND SUPPORT

- Independent Scientific Review. Since the oil spill, independent scientific review and support at the direction of the Chief Scientist have been a major part of the damage assessment and restoration process to ensure that studies are based on sound scientific principles. This process includes peer review of project proposals and draft reports.
- Scientific Workshops: Technical workshops in 1995 focused scientific discussion on seabird restoration, intertidal/subtidal communities, wild salmon stock supplementation, residual oiling, pink salmon, sockeye salmon, herring, harlequin ducks, the seabird/forage fish (APEX), and the SEA Program. Similar workshops will be conducted as needed in FY 96. In addition, an annual workshop is held to provide a forum for all principal investigators and project leaders to meet, report on the results of the most recent field season, and discuss efforts to integrate and synthesize information generated by the overall program. The 1996 Restoration Workshop is scheduled for January 16-18, 1996 in Anchorage. For more information on the workshop, please call the Restoration Office.

ADMINISTRATION. The Trustee Council is staffed by an executive director who oversees a staff that performs the planning, coordination, project oversight, fiscal accountability, and

communications functions of the Trustee Council. In addition, each Trustee Council agency has a liaison who assists with work plan development and other Council efforts.

OTHER. One project that addresses public information and is not catalogued elsewhere is 96507 which contributes additional funds to the publication of results from the *Exxon Valdez* Oil Spill Symposium of 1993. The project costs \$42,000 and is in addition to the \$102,000 the Trustee Council has previously spent on the proceedings.

COST. The budget for the Public Information, Science Management, and Administration component of the restoration program is targeted to be reduced by almost 20% in FY 96 — from \$4.2 million in FY 95 to \$3.4 million in FY 96. Further reductions are expected through FY 2002.

Cost - Public Information, Science Management, and Administration

Authorized for: FY96	\$3,439,600
Estimated for: FY97	\$3,200,000
FY9 8	\$2,800,000
FY99	\$2,500,000
FY2000	\$1,700,000
FY2001	\$1,500,000
FY2002	<u>\$1,500,000</u>
Subtotal: FY97 - 2002	\$13,200,000
Total: FY96 - 2002	\$16,600,000

Restoration Reserve

Complete recovery from the *Exxon Valdez* oil spill may not occur for decades. For example, some salmon return in cycles of four to six years, and other resources have lives that are much longer. To be effective, restoration activities may have to span more than one generation. Sometimes long-term research is necessary to understand why a resource is not recovering. In many cases, research must precede effective restoration or improved management decisions that will protect a resource or service. For these reasons, some restoration activities may continue for a long time.

Annual payments by the Exxon Corporation to the Restoration Fund end September 2001. The *Exxon Valdez* Restoration Reserve provides an account to hold funds to be used for restoration activities after the last annual payment. Allocation of the Reserve to specific activities will be made by the Trustee Council at a later date.

The \$12 million approved by the Trustee Council in FY 96 work plan is the third payment toward the *Exxon Valdez* Restoration Reserve. Additional deposits of \$12 million made in each of the remaining six years would provide a reserve of \$108 million plus interest. These funds are expected to be used to carry out long-term restoration activities after the final payment by Exxon in 2001. However, the Trustee Council may use these funds at any time if they determine they are necessary for restoration.

Research Facilities

Alaska SeaLife Center. In November 1994, the Trustee Council conditionally authorized funding of up to \$24,956,000 to support construction of the Alaska SeaLife Center to provide a basic marine research infrastructure important to the long-term restoration effort. The research facility will be affiliated with the existing University of Alaska School of Fisheries and Ocean Science in Seward. It will provide presently unavailable laboratory capabilities for research and monitoring of marine mammals — harbor seals and sea otters — and marine birds injured by the oil spill. Wet and dry labs will also be available for fish genetics research regarding salmon and herring, and for live studies of bioenergetics, disease, reproduction, and neurobiology associated with fish and invertebrates in the spill area.

The Trustee Council funds will be combined with \$12,500,000 appropriated by the Alaska State Legislature from the criminal settlement with Exxon for other development of the facility. Additional information about the Alaska SeaLife Center can be obtained from the Restoration Office.

Habitat Protection and Acquisition

In November 1994, the Trustee Council adopted the *Restoration Plan* that specifically identifies Habitat Protection and Acquisition as "one of the principal tools of restoration... important in ensuring continued recovery in the spill area." The goal of the Habitat Protection and Acquisition Program is to prevent additional injury to resources and services while recovery is taking place and to provide a long-term safety net for those resources.

The Trustee Council has completed an analysis of large parcels (greater than 1,000 acres) and small parcels (less that 1,000 acres) with high value habitats important to the recovery and restoration of injured resources and services. As indicated in Table 2 showing Past and Estimated Future Uses of the Civil Settlement Fund, the Trustee Council anticipates that approximately \$375 million of the settlement will be needed to implement the *Restoration Plan* Habitat Protection and Acquisition Program.

During the four years since the civil settlement, under the Large Parcel Program, the Trustee Council has committed \$161.5 million towards the protection in perpetuity of more than 305,000 acres of habitat important to the recovery and restoration of injured resources and services. In addition, Council action has resulted in 56,000 acres of land on Kodiak Island being placed into a protective conservation easement through the year 2001 pending further negotiation with the landowners. The Trustee Council is also working toward the protection of several small parcels in the spill area. As of December 1995, the Council had authorized purchase offers on some 22 small parcels for a total of \$15.6 million that would, if accepted, provide protection for approximately 17,645 acres.

Kachemak Bay. In 1993, the Trustee Council contributed \$7.5 million to the purchase of 23,800 acres of private inholdings within Kachemak Bay State Park on the Kenai Peninsula.

Seal Bay and Tonki Cape (Afognak Island). Also in 1993, the state purchased 41,549 acres on northern Afognak Island (17,166 acres on Seal Bay and 24,383 acres on Tonki Cape). In 1994, these lands were dedicated as the Afognak Island State Park.

Orca Narrows Subparcel. In January 1995, the federal government purchased from the Eyak Corporation timber rights on 2,052 acres of land in Orca Narrows near Cordova in Prince William Sound.

Akhiok-Kaguyak. In May 1995, the federal government purchased from Akhiok-Kaguyak, Inc. interests in 119,885 acres of land in Kodiak National Wildlife Refuge.

Old Harbor. Also in May 1995, the federal government purchased from the Old Harbor Native Corporation surface title to about 29,000 acres and conservation easements on 3,000 acres. These lands are also within the Kodiak National Wildlife Refuge. In addition, the Old Harbor Native Corporation agreed to preserve 65,000 acres of land on nearby Sitkalidak Island as a private wildlife refuge.

Koniag. In November 1995, the federal government purchased from Koniag, Inc., fee interest in the surface estate of nearly 60,000 acres of prime habitat for bear, salmon, bald eagles, and other species in the Kodiak National Wildlife refuge. This agreement also protected an additional 56,000 acres under a conservation easement through the year 2001. The Trustee Council is interested in acquiring fee interest in the lands covered by the conservation easement.

Shuyak Island. Also in November 1995, the Trustee Council agreed to acquire from the Kodiak Island Borough fee interest in 25,655 acres of prime habitat on Shuyak Island, at the northern tip of the Kodiak archipelago.

Small Parcels. To this point, the Council has identified 32 small parcels as having especially valuable restoration benefits. The Council acted on the first package of small parcels at both the November 20 and December 11, 1995 meetings, authorizing the appropriate agencies to make offers at appraised value for 22 small parcels, including approval of a Trustee Council contribution of \$4 million to a Kenai Natives Association package. If all are accepted, these acquisitions would ensure the protection of 17,645 acres throughout the oil spill area for a cost of \$15.6 million. Work on the remaining small parcels is on-going.

CURRENT ACTIVITIES. The Council is in various stages of negotiation with landowners to protect additional habitat. Negotiations are occurring with Eyak, Tatitlek, Chenega, Port Graham, English Bay, and Koniag corporations, and with Afognak Joint Venture. The Council anticipates that agreements will be completed with some of these landowners during the next year. In FY 96, the Council will also consider protection of additional small parcels

and attempt to finalize purchase agreements with owners of the small parcels on which the Council has made offers.

SUPPORT COSTS. Project 96126, Habitat Protection and Acquisition Support, funds the cost of negotiations, title searches, appraisals, surveys, and other work necessary to complete a purchase. The Council has authorized \$2,160,900 for these activities in FY 96. A major portion of these costs is attributed to the need for timber appraisal work.

HABITAT IMPROVEMENTS. An additional project was approved to improve habitat. This project is discussed under the "Habitat Improvement" cluster, see page 20.

Appendix A

FY 96 WORK PLAN MONITORING, RESEARCH, AND GENERAL RESTORATION PROJECTS DESCRIPTION OF PROJECTS AND TRUSTEE COUNCIL ACTION

<u>Cluster</u>
Pink Salmon Projects 1
Herring Projects
Sound Ecosystem Assessment (SEA)
SEA Program Related Projects
Sockeye Salmon Program
Cutthroat and Dolly Varden Trout Projects 13
Marine Mammal Program
Nearshore Ecosystem Projects
Seabird/Forage Fish Ecosystem Project 19
Seabird/Forage Fish Related Projects
Subsistence Projects
Archaeological Resources
Reducing Marine Pollution
Habitat Improvement
Information Support
Summary of Trustee Council Action

Acronyms

ABR	ABR, Inc., Environmental Research and Services	PWSAC	Prince William Sound Aquaculture Corporation
ANHSC	Alaska Native Harbor Seal Commission	PWS Econ DC	Prince William Sound Economic Development Corp.
Chugach HF	Chugach Heritage Foundation	PWSSC	Prince William Sound Science Center
Chugach RRC	Chugach Regional Resource Commission	TXAM	Texas A & M University
IRA	Council organized under the Indian Reorganization Act	UAF	University of Alaska - Fairbanks
NRC	Natural Resources Consultants, Inc.	UM	University of Montana
PacSeabird Group	Pacific Seabird Group	UW/UCD/SFU	Univ. of Washington/Univ. of California, Davis/Simon
			Fraser Univ.

HOW TO READ THE SPREADSHEET

Lead Agency The trustee agency (USFS, NOAA, DOI, ADF&G, ADEC, or ADNR) to which the project has been assigned for program management purposes. Proposer The individual, organization, or trustee agency that submitted the project proposal. **Project Duration** What year FY 96 is in the Trustee Council's funding of the project, followed by the total number of years Council funding is expected to be sought (e.g., 3rd year of a 5-year project). FY 96 Request The amount of funding requested by the project proposer for federal fiscal year 1996 (October 1, 1995 - September 30, 1996). The amount of funding approved by the Trustee Council for FY 96. FY 96 Approved FY 97 Estimate For multi-year projects, the estimated project cost for FY 97. FY 98 Estimate The estimated project cost for FY 98. FY 99 to End Sum of the estimated project cost from FY 99 to completion of the project (no projects continue Estimate beyond FY 2002). Total FY 96 to Sum of the estimated project cost for all years, beginning in FY 96 and ending with FY 2002 -- or the End Estimate project's completion, whichever is sooner. Description A brief summary of the project, prepared by the project proposer. Chief Scientist's A summary of the Chief Scientist's review of the project's technical merit. Comments **Trustee Council** An explanation of the Trustee Council's decision on project funding for FY 96. Action

APPENDIX A: DESCRIPTION OF PROJECTS	AND T	RUSTEE C	OUNCIL AC	<u>FION</u>	n an	e e e e e e e e e e e e e e e e e e e	and and the second s	PAG	<u>E 1</u>
Proj. No. Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
Pink Salmon Projects				\$2,140.5	\$2,017.5	\$1,268.5	\$775.2	\$163.8	\$4,225.0
96076 Effects of Oiled Incubation Substrate on Straying and Survival of Wild Pink Salmon	NOAA	NOAA	2nd. yr. 4 yr. project	\$393.8	\$393.8			\$0.0	\$393.8
Project Description	Chief S	cientist's Com	ments		Trustee	Council Acti	on		
embryonic development on straying, marine survival, and gamete viability of pink salmon. Controlled experiments relating oil exposure to pink salmon survival will complete information needed to understand the extent and mechanism of the injury to pink salmon.	rates ar of this j support which a oil expo project, costs w it will b area. T project of salm continu	ad survival of j project is parti is and extends addresses the p osure. In rega- , analysis of FY- ill be much gr be difficult to t The most effici- with /191B, ir ion in relation hed funding on	cularly important the continuing w possibility of herit rd to the straying Y 1995 results ind eater than origina ransfer the result ent approach will to a single study to oil exposure. I this basis.	survival portion because it ork in 95191B, able damage from portion of this licates that future lly anticipated an to the oil-spill be to combine th focused on surviv recommend	five to 1 sharing provide n straying manage nd is val	tour years, and In combinate useful inform that will have ement.	d has offere tion with /] nation on n /e broad ap	d significan 191B, this v narine survi plication to	nt cost vork will val and salmon
96139A1 Salmon Instream Habitat and Stock Restoration - Little Waterfall Barrier Bypass Improvement	ADFG	ADFG	2nd yr. 4 yr. project	\$55.0	\$55.0	\$35.0	\$15.0	\$0.0	\$105.0
Project Description	Chief S	Scientist's Com	ments		Trustee	Council Acti	ion		
This proposal will provide for continuation of Project 95139A1 to complete the barrier bypass improvement at Little Waterfall Creek. It will evaluate whether the improvements are successful once construction is complete. The project will increase spawning habitat use by pink and coho salmon and thus will increase salmon production in ensuing years.	This pı will lik	roposal is techn tely enhance pi	nically sound and nk salmon produ	its implementati ction.	on Fund. spawni coho sa lost in	Project is inten ng habitat and Ilmon for harv the oil spill.	ended to inc d thus provivest as a rep	rease availa ide addition placement fo	able al pink and or salmon
96139A2 Spawning Channel Construction Project Port Dick Creek, Lower Cook Inlet	ADFG	ADFG	1st yr. 5 yr. project	\$230.5	\$230.5	\$37.0	\$23.2	\$30.0	\$320.7
Project Description	Chief S	Scientist's Con	iments		Trustee	e Council Act	ion		
The proposed Port Dick Pink Salmon Spawning Channel would restore wild pink and chum salmon stocks. The proposed project would increase the spawning habitat available in Port Dick Creek by restoring formerly used tributaries by excavating down to stable water sources.	I Implem salmor perform previou	nentation of th n production, a mance of the m usly approved	is proposal will lind contains plans nod contains plans nodified channel. in 1995.	kely enhance pin to monitor It had been	k Fund. spawni chum s lost in	Project is intended in the second sec	ended to inc d thus prov rvest as a re	rease availa ide additior placement	able al pink and for salmon

APPENDIX A: DESCRIPTION OF	PROJECTS A	ND TF	RUSTEE C	OUNCIL ACT	ION	el el marina.		<u>PAGE 2</u>			
Proj. No. Title	I A	Lead gency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	
96139C1 Montague Riparian Rehabilitatio Monitoring Program	n T	USFS	USFS	3rd yr. 3 yr. project	\$43.1	\$9.7	\$0.0	\$0.0	\$0.0	\$9.7	
Project Description		Chief Sc	cientist's Com	ments		Trustee	Council Acti	on			
This project is a continuation of 94139 and 951 funding was granted to construct 25 to 30 struct flowing through clearcut areas on Montague Is structures were designed to improve fish spawn habitat, prevent erosion, and help restore the ne	139C. In FY 94, stures in streams land. These ning and rearing atural flows and	This pro improve proposal in 1994	posal is for th s riparian hab l is for monito and 1995, wh	e third year of a pr itat on Montague I ring and evaluation ich is appropriate.	oject that sland. The n of actions take	Fund. 7 previou	Γhis project is s EVOS proje	designed 1 ct.	o monitor i	results of a	
stream features that existed prior to logging. T also included the improvement of 20 acres of r vegetation. This project is to continue evaluati repair any damage that may have occurred and in the aquatic habitat, stream channels, and su	The 1994 work iparian on of structures, assess changes bstrates. The										
riparian vegetation work will also be evaluated					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	-					
96186 Coded Wire Tag Recoveries From Salmon in Prince William Sound	m Pink 1	ADFG	ADFG	7th yr. 10yr. project	\$260.5	\$254.9	\$260.5	\$260.5	\$85.0	\$860.9	
Project Description		Chief So	cientist's Com	ments		Trustee	Council Acti	on			
This project funds recovery of coded-wire tags salmon. The recovered tags are used to help A commercial fishery to protect injured stocks. T part of a program to transition to a more precisi tool, otolith marking, with a permanent fundin than the Trustee Council. (This project was fo 95320B.)	in PWS pink DFG manage the The project is is in-season g source other rmerly numbered	This pro otolith t disconti marking	oject is necessa hermal mass i nued only afte g is demonstra	ary to support the the marking. This proj er feasibility of otol ited.	ransition to the ect should be ith thermal	Fund. include Markin informa and loc wild sto the har enable	Future years' f s two years of g Project (96) ation that allo ation of comm ocks. This is d-hit Southwe continued fish	funding, as overlap wi 188). The pi ws manage nercial har especially i st District uing in this	recommen th Otolith oject provi rs to vary t vest to prote mportant fo in PWS and area.	ded, Thermal des he timing ect injured or stocks in d would	
96188 Otolith Thermal Mass Marking Reared Pink Salmon in Prince V Sound	of Hatchery Z	ADFG	ADFG	2nd yr. 6 yr. project	\$95.2	\$93.2	\$100.5	\$100.5	\$48.8	\$343.0	
Project Description		Chief Se	cientist's Com	ments		Trustee	Council Acti	on			
This project will develop otolith mass marking stock separation tool for pink salmon in PWS. composition data is used by fishery managers t damaged wild pink salmon stocks from overha mixed-stock fisheries. Coded-wire tags are pro- this purpose in the Sound. Transitioning to ot will reduce costs and increase precision. (This formerly numbered 95320C.)	as an in-season In-season stock to protect prvest in esently used for olith marking s project was	This is in program one of the improved	the continuati n. It is innova he most effect e pink salmon	on of a previously a ttive, cost effective, ive steps the Truste management.	approved and probably ees can support t	Fund. expense o now ob funding overlap Fundin transiti closeou	Otolith marki ive technology tained throug g, as recomme with Coded V g for applicat on to non-Tru th funds propo	ng is a more y for provident h coded with anded, incluse Wire Tag provident ion of this state state source sed in FY 9	te accurate ling the infi re tags. Fu ides two ye roject (961) technique v s by FY 99 99).	and less ormation ture years' ars of 86). vill make a (only	

APPENDIX	XA: DESCRIPTION OF PROJEC	TS AND 7	RUSTEE C	OUNCIL ACT	ION		PAGE 3				
Proj. No.	Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate	
96190 C Si	onstruction of a Linkage Map for the Pink almon Genome	ADFG	Allendorf/UM	1st yr.	\$240.0	\$167.7	\$250.0			\$417.	
Proposal would pink salmon by hundred DNA p the location of o identification, d genetic damage studies includin stock structure,	construct a detailed genetic linkage map for analyzing the genetic transmission of severa olymorphisms. The ability to genetically ma bil-induced lesions will allow the thorough escription, and understanding of oil induced This research will also aid other pink salm g estimation of straying rates, description of and testing if marine survival has a genetic	This p I numbe ap potent becaus implic ion decisio geneti diseas	roject will produce roject will produce ially provide signed to the set of the signed rest would increase ations of manage ons for wild and c linkage map ve- resistant strain	uce a linkage map nk salmon. This p gnificant benefits for case knowledge of t gement and suppler l hatchery stocks. I would facilitate dev	for a large project would or pink salmon, he genetic nentation For example, a elopment of de new markers	Fund. 7 which v salmon manage with na provide propose	This project p vill likely aid and which ar ment in the f tional import two years of rs should see	provides fund restoration re likely to b uture. It is a ance. Recon funding at t k additional	lamental ir of wild stoo enefit all p a long-term nmendatio he requeste funding sc	nformation cks of pink ink salmon n project n is to cd level, bu purces in	
basis.		for ger severa seek a the pro- Unive	netic stock ident l years of suppo dditional source oposer should co rsityi of Alaska.	tification. This provident of the second sec	ject will require the proposers to ture. In additio ent efforts at the	10000 y n,	cais.				
basis. 	oil-Related Embryo Mortalities in PWS ink Salmon Populations	for gen severa seek a the pro- Unive	ADFG	tification. This pro- ort, and I encourage es of funds in the fu oordinate with curr 5th yr. 7 yr. project	ject will require the proposers to ture. In additio ent efforts at the \$474.6	\$474.6	\$407.0	\$246.0	\$0.0	\$1,127.	

APPENDIA A: DESCRIPTION OF PROJECTS	AND TRUS	<u>STEE CO</u>	<u>DUNCIL AC</u>	TION				PAG	E 4
Proj. No. Title	Lead Agency Pr	roposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
6191B Injury to Salmon Eggs and Pre-emergent Fry Incubated in Oiled Gravel (Laboratory Study)	NOAA N	IOAA	5th yr. 5 yr. project	\$169.3	\$159.6	\$0.0	\$0.0	\$0.0	\$159.6
Project Description	Chief Scient	tist's Comr	nents		Trustee	Council Acti	ion		
pink salmon reproductive capacity. This requires culturing three generations of pink salmon which provides opportunities to examine other immediate and long-term effects of incubating in oiled gravel. The project already is underway and oil exposures were completed in 1994. This FY 96 proposal focuses on incubating eggs from maturing adults in 1995 and coded-wire tagging the second generation for release in Spring 1996.	exposed to o survival. Th crucial to foi Thus, I reco addition, the most valuab recommend	il as embr nis may be llow poten mmend co e work now le as suppo combining	yos produce your a very significar tial effects into a ntinued funding v being performe ort for this project g the two project	ng with reduced nt finding, and it is a second generatio of this work. In ed under 96076 is ct, and I s.	project j s field obs n. second j laborato	provides imp servation. Pr generation of ry companio	ortant labor oject should pink salmo n to 961912	atory confin d be continu on. This pro	rmation of red into oject is a
6196 Genetic Structure of Prince William Sound	ADFG A	DFG	3rd yr.	\$178.5	\$178.5	\$178.5	\$130.0	\$0.0	\$487.0
Pink Salmon Project Description	Chief Scient	tist's Com	5 yr. project nents		Trustee	Council Act	ion		
Pink Salmon Project Description Previous work found that wild-stock pink salmon suffered both direct lethal and sublethal injuries as a result of the oil spill. An understanding of the population structure of pink salmon in PWS is essential to assess the impact of these injuries on a population basis and to devise and implement management strategies for restoration. This project is designed to delineate the genetic structure of populations of wild pink salmon inhabiting PWS. (This project was formerly numbered 95320D.)	<u>Chief Scient</u> This project insights into Prince Willi within the S benefit for p continued fu	tist's Comu is yielding genetic d iam Sound Sound. Th yink salmo inding.	5 yr. project nents g interesting and iversity among v , most notably ea his work could ha n management, a	worthwhile vild pink salmon i ast-west difference ave significant and I recommend	Trustee Fund. s geograp s salmon. stocks a PWS w and goa	Council Act This project i hic extent of Knowledge nd genetic d ill help refine ls.	ion s designed t genetic dif of the loca ifferences a e pink salme	to determin ferences in tion of pink mong the st on manager	e PWS pink salmon tocks in ment areas
Pink Salmon Project Description Previous work found that wild-stock pink salmon suffered both direct lethal and sublethal injuries as a result of the oil spill. An understanding of the population structure of pink salmon in PWS is essential to assess the impact of these injuries on a population basis and to devise and implement management strategies for restoration. This project is designed to delineate the genetic structure of populations of wild pink salmon inhabiting PWS. (This project was formerly numbered 95320D.) Herring Projects	Chief Scient This project insights into Prince Willi within the S benefit for p continued fu	tist's Com is yielding genetic d iam Sound Sound. Th pink salmo inding.	5 yr. project nents g interesting and iversity among v , most notably ea is work could ha n management, a	worthwhile vild pink salmon i ast-west difference ave significant and I recommend \$1,532.6	Trustee Fund. 7 n geograp s salmon. stocks a PWS w and goa	Council Act This project i hic extent of Knowledge nd genetic d ill help refine ls. \$930.6	ion s designed t genetic diff of the locat ifferences a e pink salmo \$708.7	to determin ferences in tion of pink mong the st on manager	e PWS pink salmon tocks in ment areas \$2,962.3
Pink Salmon Project Description Previous work found that wild-stock pink salmon suffered both direct lethal and sublethal injuries as a result of the oil spill. An understanding of the population structure of pink salmon in PWS is essential to assess the impact of these injuries on a population basis and to devise and implement management strategies for restoration. This project is designed to delineate the genetic structure of populations of wild pink salmon inhabiting PWS. (This project was formerly numbered 95320D.) Herring Projects P6074 Herring Reproductive Impairment	Chief Scient This project insights into Prince Willi within the S benefit for p continued fu	tist's Com is yielding genetic d iam Sound Sound. Th pink salmo inding.	5 yr. project <u>nents</u> g interesting and iversity among v , most notably es is work could ha n management, a 3rd yr. 4 yr. project	worthwhile vild pink salmon i ast-west difference ave significant and I recommend \$1,532.6 \$347.7	Trustee Fund. 7 n geograp s salmon. stocks a PWS w and goa \$1,323.0 \$140.0	Council Act This project i hic extent of Knowledge nd genetic d ill help refine ls. \$930.6 \$0.0	ion s designed t genetic diff of the loca ifferences a e pink salme \$708.7 \$0.0	to determin ferences in tion of pink mong the st on manager \$0.0 \$0.0	e PWS pink salmon tocks in ment areas \$2,962.3 \$140.0
Pink Salmon Project Description Previous work found that wild-stock pink salmon suffered both direct lethal and sublethal injuries as a result of the oil spill. An understanding of the population structure of pink salmon in PWS is essential to assess the impact of these injuries on a population basis and to devise and implement management strategies for restoration. This project is designed to delineate the genetic structure of populations of wild pink salmon inhabiting PWS. (This project was formerly numbered 95320D.) Herring Projects P6074 Herring Reproductive Impairment Project Description	Chief Scient This project insights into Prince Willi within the S benefit for p continued fu	tist's Com is yielding genetic d iam Sound Sound. Th yink salmo inding.	5 yr. project <u>nents</u> g interesting and iversity among v , most notably ex- nis work could have n management, and 3rd yr. 4 yr. project <u>ments</u>	worthwhile vild pink salmon i ast-west difference ave significant and I recommend \$1,532.6 \$347.7	Trustee Fund. n geograp s salmon. stocks a PWS w and goa \$1,323.0 \$140.0 <u>Trustee</u>	Council Act This project i hic extent of Knowledge nd genetic d ill help refind ls. \$930.6 \$0.0 Council Act	ion s designed to genetic differences a e pink salme \$708.7 \$0.0 ion	to determin ferences in tion of pink mong the st on manager \$0.0 \$0.0	e PWS pink salmon tocks in ment areas \$2,962.3 \$140.0

APPENDIX A: DESCRIPTION OF PROJECTS	AND T	RUSTEE CO	DUNCIL AC	<u>CTION</u>				PAC	<u>E 5</u>
Proj. No.	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96162 Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound, AK	ADFG	UW/UCD/SFU	3rd yr. 5 yr. project	\$635.0	\$635.0	\$510.6	\$461.7	\$0.0	\$1,607.3
Project Description	Chief	Scientist's Com	nents		Trustee	Council Act	ion		
Septicemia (VHS) and <i>Ichthyophonus hoferi</i> , a pathogenic fungus, to determine their role in the disease and mortality observed in PWS herring since 1993. Herring in PWS will be monitored three times per year for signs of disease and immune status. Specific pathogen-free herring will be used to determine the degree of mortality, blood chemical changes and pathogenicity produced by these organisms alone and in combination with exposure to stressors such as petroleum hydrocarbons, temperature and crowding. (This project was formerly numbered 95320S.)	role of Pacific hypoth outbre projec recom	VHS and <i>Icthyp</i> c herring stocks i lesis that oil-indi ak and populatic t is on track for a mend continued	phonus in the re in Prince Willia uced stress is lin on decline remain achieving its obj funding.	cent decline of m Sound. The aked to the disease ins viable. The ectives, and I	between and the Underst recover of the h	a oil exposure herring popu- tanding the c y is importar erring fisher	e and diseas ilation decl auses of the t for restora y.	te, and betw ine in PWS decline and ation and re	the lack o sumption
96165 Genetic Discrimination of Prince William Sound Herring Populations	ADFG	ADFG	3rd yr. 5 yr. project	\$105.8	\$103.9	\$120.0	\$97.0	\$0.0	\$320.
Project Description	Chief	Scientist's Comn	nents		Trustee	Council Act	ion		
The PWS herring fishery has been in catastrophic decline since 1992. The Alaska Department of Fish and Game recovery effort includes incorporating a knowledge of genetically derived population structure into harvest management. This continuing project will delineate the structure of PWS population(s) and related North Pacific populations using both nuclear and mitochondrial DNA analyses. Tests for temporal and spatial diversity within years and temporal stability across years will be done.	This is of imp herrin g past p projec	s a continuing pr ortance for man g. The investiga rojects, and I rec t in 1996.	oject that will d aging Prince W tors have perfor ommend furthe	lirectly affect issue illiam Sound rmed admirably or r support for the	es Fund. T genetic other N importz limits, i or more	This project a composition orth Pacific j int to manage it is importan genetically	ddresses bar of PWS her populations, ement. What it to know w distinct pop	sic question rring in rela This infor en setting h whether ther ulations.	s about the ttion to mation is arvest e exists one

Proj. No. Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96166 Herring Natal Habitats	ADFG	ADFG	3rd yr. 5 yr. project	\$444.1	\$444.1	\$300.0	\$150.0	\$0.0	\$894.1
Project Description	Chief S	Scientist's Com	ments		Trustee	Council Acti	ion		
Past studies have documented damage from oil exposure in adult herring, hatching success of embryos, and levels of physical and genetic abnormalities in larvae. The PWS herring spawning population has drastically declined since 1993, and pathology studies implicated Viral Hemorrhagic Septicemia (VHS) and <i>Ichthyophonus</i> as potential sources of mortality as well as indicators of stress. The project will continue to provide estimates of spawning herring abundance and investigate the lethality of suspected pathogens and the role of environmental contaminants in disease transmission through laboratory and field studies.	This w herring year of is an ez back to	ork is vital to o g in Prince Will full support fro xplicit plan dev ADFG as part	n-going manager iam Sound. I rec om the Trustees, j eloped for transfe of normal agenc	nent of Pacific commend one mo provided that the er of this program y management.	Fund fo re project re source i improve This inf and guid sustain	r FY 96 cont begins a trar n FY 97. Pro- e estimate of ormation is 1 delines that a a healthy fish	ingent upon nsition to no oject's majo spawning b needed to es illow restora nery.	a expectation in-Trustee f r objective iomass of h tablish har ation to occ	n that unding is to erring. vest levels ur and to
Sound Ecosystem Assessment (SEA)				\$4,762.3	\$4,533.4				\$4,533.4
6320E Salmon and Herring Predation	ADFG	ADFG	3rd yr. 5 yr. project	\$670.5	\$637.7	an th An Antonia An An			\$637.7
Project Description This project would determine the extent to which variations in predation on juvenile pink salmon affect survival and describe mechanisms that cause variation in predation. This would include the identification of fish predators (distribution, abundance, species, and size composition) along the juvenile salmon migratory pathway. The project will also collect samples for a variety of the other SEA efforts.	Chief See 96	Scientist's Com 320.	<u>ments</u>		Trustee See 963	Council Act	<u>ion</u>		
6320G Phytoplankton and Nutrients	ADFG	McRoy/UAF	3rd yr. 5 yr. project	\$162.2	\$162.2				\$162.2
Project Description This project would focus on primary production and provide nutrient and phytoplankton data to help evaluate the influence of phytoplankton dynamics on the PWS food web. The project would examine variations in phytoplankton production in relation to zooplankton production and oceanographic	<u>Chief</u> See 96	<u>Scientist's Com</u> 320.	ments		<u>Trustee</u> See 963	Council Act	<u>ion</u>		

APPENDIX A: DESCRIPTION OF PROJECTS	AND T	RUSTEE C	OUNCIL AC	TION				<u>PAC</u>	E 7
Proj. No. Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96320H Zooplankton in the PWS Ecosystem	ADFG	Cooney/UAF	3rd yr. 5 yr. project	\$329.9	\$323.6				\$323.6
Project Description	Chief S	Scientist's Com	ments		<u>Trustee</u>	Council Act	ion		
This project would continue to investigate the annual zooplankton bloom and its relationship to fish predator abundance. The project would sample and monitor the distribution and composition of PWS macrozooplankton populations in collaboration with the physical oceanography component of SEA.	See 96	320.			See 963	20.			
96320I Isotope Tracers - Food Webs of Fish	NOAA	PWSSC	3rd yr. 5 yr. project	\$195.8	\$195.8			· · · ·	\$195.8
Project Description	Chief S	Scientist's Com	ments		Trustee	Council Act	ion		
This project would analyze tissue samples and use shifts in stable isotope ratios that occur with trophic level and food source to describe food sources and predation relationships among species in PWS.	See 96	320.			See 963 recomm a result process	20. (Note: Linended to fun of transition	An addition d report wr to the NOA	al \$74,500 iting costs i A-BAA co	is n FY 97 as ntracting
96320J Information Systems and Model Development	NOAA	PWSSC	3rd yr. 5 yr. project	\$489.9	\$482.7				\$482.7
Project Description	Chief ?	Scientist's Com	ments		Trustee	Council Act	ion		
This project would provide an information system appropriate for the PWS System Investigation effort and develop the modeling resources needed to achieve the program's objectives. This sub-project provides for overall data management and technical support to other PWS System Investigation efforts through field data communications; descriptive modeling; numerical modeling; support with sampling technologies; and providing for on-line analysis and visualization tools to	See 96	320.			See 963 recomm a result contrac	220. (Note: nended to fun of the transi ting process.	An addition ad report wr tion to the N)	al \$173,200 iting costs VOAA-BAA) is n FY 97 as A
provide the means by which various data can be collected, used and understood.									
96320K PWSAC: Experimental Fry Release	ADFG	PWSAC	3rd yr. 5 yr. project	\$61.4	\$61.4				\$61.4
Project Description	Chief	Scientist's Com	<u>ments</u>	nangan sa katalan karanan karana Karang pada karanan Karang pada karanan	Trustee	Council Act	ion		
This project would support the rearing of salmon fry for release, part of an effort to investigate the possible influence of fry size as a determinant of survival during early marine	See 96	320. 			See 963	320.			

APPENDIX A: DESCRIPTION OF PROJECTS	AND TRUSTEE CO	DUNCIL ACT	<u>FION</u>		<u>PAGE 8</u>		
Proj. No. Title	Lead Agency Proposer	Project Duration	FY 96 Request	FY 96 FY 97 FY 98 Approved Estimate Estimate	FY 99 Total FY to end 96 to end Estimate Estimate		
96320M Physical Oceanography in PWS	NOAA Salmon, PWSSC	3rd yr. 5 yr. project	\$506.9	\$499.4	\$499.		
<u>Project Description</u> This project would investigate the physical oceanographic structure of PWS including the space/time variability of atmospheric and oceanic processes within PWS, investigate relationships between atmospheric forcing (wind, storms, long term temperature changes) and wind and buoyancy-driven currents; determine how these relationships act to retain/disperse food resources for ecologically important species within PWS; and investigate large and fine scale oceanographic structures and major climatic cycles and events.	Chief Scientist's Comn See 96320.	<u>nents</u>		<u>Trustee Council Action</u> See 96320. (Note: An additionarecommended to fund report wri a result of the transition to the N contracting process.)	al \$146,400 is iting costs in FY 97 as IOAA-BAA		
96320N Nekton/Plankton Acoustics	NOAA PWSSC	3rd yr. 5 yr. project	\$487.6	\$487.6	\$487		
<u>Project Description</u> This project would describe macrozooplankton distribution and biomass in real time using hydroacoustics; describe fish predator distribution/biomass in real time using hydroacoustics; and investigate the hypothesis that plankton/nekton/predator populations aggregate in cyclic patterns and specific locations due to currents and bottom morphology.	<u>Chief Scientist's Comr</u> See 96320.	<u>nents</u>		<u>Trustee Council Action</u> See 96320. (Note: An addition recommended to fund report wri a result of the transition to the N contracting process.)	al \$195,000 is iting costs in FY 97 as IOAA-BAA		
96320Q Avian Predation on Herring Spawn	USFS USFS	3rd yr. 5 yr. project	\$40.4	\$40.4	\$40		
Project Description This project would close out research to determine herring egg loss to avian predators such as glaucous-winged gulls, surf scoters black turnstones and surfbirds	Chief Scientist's Comr See 96320.	<u>nents</u>		Trustee Council Action See 96320.			

APPENDIX A: DESCRIPTION OF PROJECTS AND TRUSTEE COUNCIL ACTION

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Proj. No. Title	Lead Agency Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96320R SEA Trophodynamic Modeling and Validation Through Remote Sensing	ADFG Eslinger/UAF	3rd yr. 5 yr. project	\$204.0	\$202.7				\$202.7
Project Description	Chief Scientist's Com	nents		Trustee	Council Actio	<u>on</u>		
This is a new SEA project in FY 96 as a result of an internal reorganization. Some of the work performed under 95320-G and J is to be done under this project in FY 96 and beyond. This project would continue the trophodynamic modeling of phytoplankton and zooplankton begun in FY 95 and add modeling of ichthyoplankton, herring larvae in particular. It will evaluate and verify the model against field data to be collected using a variety of remote sensing and in situ sampling platforms.	See 96320. This reorg seems logical and effect development of an und year-to-year variation Prince William Sound	anization of the S ctive. This work i lerstanding of cor in recruitment suc	SEA program is central to ntrols of ccess of fish in	See 9632	20.			
96320T Juvenile Herring Growth and Habitat Partitioning	ADFG Narcross/ UAF	3rd yr. 5 yr. project	\$1,234.6	\$1,141.6				\$1,141.6
Project Description	Chief Scientist's Com	<u>nents</u>		Trustee	Council Actio	<u>on</u>		
This project would investigate what may be causing the failure of herring runs in PWS by investigating the dynamics of larval and juvenile herring. The proposed project, together with other investigations being undertaken as part of the SEA program, would attempt to describe the relative importance of zooplankton abundance, oceanic conditions, habitat requirements, and density dependent predation in determining large fluctuations in herring abundance.	See 96320.			See 9632	20.			
96320U Energetics of Herring and Pollock	ADFG Paul/UAF	3rd yr. 5 yr. project	\$190.3	\$189.5				\$189.5
Project Description	Chief Scientist's Com	ments		Trustee	Council Acti	on		
Project would focus on the seasonal somatic energy cycles of two important forage fish species in the spill area Pacific herring and walleye pollock. The project would explore overwinter survival of juvenile herring and herring reproductive biology and provide energetic information to quantify trophic interactions (food webs) involving pollock	See 96320.			See 963	20.			

APPEN	DIX A: DESCRIPTION OF PROJECTS	AND T	RUSTEE CO	DUNCIL AC	<u>FION</u>				<u>PAC</u>	<u>E 10</u>
Proj. No.	Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96320Y	Variation in Local Predation Rates on Hatchery-Released Fry	ADFG	PWSSC	3rd yr. 5 yr. project	\$120.0	\$40.0				\$40.0
Project Des This project composition predators, e	cription t would close out the investigation of the size, n, behavior and duration of foraging aggregations of especially birds, at fry release sites.	Chief S See 96	Scientist's Com 320.	<u>nents</u>		Trustee See 963	Council Act 20.	<u>ion</u>		
96320Z1	Synthesis and Integration	ADFG	Cooney/UAF	3rd yr. 5 yr. project	\$68.8	\$68.8				\$68.8
This project activities as modelling s herring pop	t provides support for synthesis and integration sociated with the application of SEA field and studies to the restoration of pink salmon and Pacific pulations in PWS.	Necess for adr	sary for effective ninistrative sup	project manage port seems high.	ment, although cost	See 963	320.	<u>1011</u>		
SEA Progr	am Related Projects				\$114.8	\$114.8	\$85.0	\$85.0	\$0.0	\$284.8
96195	Pristane Monitoring in Mussels and Predators of Juvenile Pink Salmon & Herring	NOAA	NOAA	1st yr. 3 yr. project	\$114.8	\$114.8	\$85.0	\$85.0	\$0.0	\$284.8
Project Des	<u>cription</u>	Chief	Scientist's Com	ments		Trustee	Council Act	tion		
This project salmon and of these pro- copepods. an indirect salmon and prey-switch marine nur	t will measure pristane in predators of juvenile pink I larval herring to determine the dietary dependence edators on alternative prey, <i>Neocalanus</i> spp. This project will also monitor pristane in mussels as index of potential year-class strength for pink I herring. These results will be used to evaluate the hing hypothesis of the SEA plan and identify critical sery habitat in PWS.	This p tremer monito Thus,	roposal is extre adous potential a pring of the Prin I recommend fu	mely valuable an as an integrative ace William Sour all funding.	d elegant and has tool for future nd ecosystem.	Fund. project. may pr thus all produc	This is a tech Collecting ovide a simp lowing prediction and harv	nnically inno and measure le measure o ctions about vest levels.	ovative and ing pristance of marine p future fishe	excellent e in mussels roductivity, eries

<u>APPENI</u>	DIX A: DESCRIPTION OF PROJECTS	AND T	RUSTEE C	OUNCIL AC	TION				<u>PAC</u>	<u>FE 11</u>
Proj. No.	Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
Sockeye Sal	mon Program				\$1,758.4	\$1,286.2	\$391.0	\$0.0	\$0.0	\$1,677.2
96048-BAA	Historical Analysis of Sockeye Salmon Growth Among Populations Affected by Overescapement in 1989	NOAA	NRC, Inc.	1st yr. 1 yr. project	\$116.9	\$116.9	\$0.0	\$0.0	\$0.0	\$116.9
Project Desc	ription	Chief S	Scientist's Com	ments		Trustee	Council Act	ion		
appears to h survival. Ho systems occu sockeye scal before, durin used to docu recovery of t	ave reduced salmon growth, leading to reduced owever, few records of sockeye growth in these urred before 1989. This project will use adult es to reconstruct the growth of sockeye salmon ng, and after the oil spill event. These data will be ment the effects of the spill and the subsequent the sockeye stocks. Kenai River Sockeye Salmon Restoration	at Chig large e to com in the l long-te Thus, l	gnik Lake, whi scapement ever plement currer Kenai River sys rm oceanograp I recommend fu ADFG	ch has not been s nt after the oil sp at studies of over stem, as well as p bhic changes in t inding this proje 5th yr.	studied following a bill. Good potential escapement impact provide insight into he Gulf of Alaska. ct. \$447 9	Lake. 1 geograp s overesc o informa overcor	t will help re- bhic extent as apement inju ation helpful ne EVOS inj	solve questi nd mechanis ry. It also v to design m ury.	ons about t om of EVO vill provide anagement	he S-related strategies to
				6 yr. project	φ117.5	ψ307.0	ψ100.0	Ψ0.0		Φ407.0
Project Desc	ription	Chief S	Scientist's Com	ments		Trustee	Council Act	ion		
Greatly redu the presence escapements three times. juvenile soci reduction of necessary to project is to improved star regulation of	aced fishing time in upper Cook Inlet in 1989 due to of oil caused sockeye salmon spawning in the Kenai River to exceed the desired amount by The overescapement may have reduced survival of keye salmon. Careful monitoring and possible Kenai River sockeye salmon harvests may be ensure adequate escapements. The goal of this restore Kenai River sockeye salmon through ock assessment capabilities and more accurate f spawning levels	This have a have a the upp River s FY96, ADFG	as been an exce lready proven e per Cook Inlet stocks. I recom after which thi as part of its n	ellent program, t enormously valua mixed-stock fish mend limited ad s program shoul ormal managem	he results of which able in managing ery to protect Kena ditional funding in d be taken over by ent responsibilities	Fund at a transi i support i project identifi are har manage protect	reduced am tion to agend ; the project has proven s cation of actuve vesting. The ers to modify Kenai/Skilal	ount which by rather that will be close uccessful in ual runs that information fishing area stocks.	reflects the n Trustee (ed out in FY providing : Cook Inlet n is used by as and open	beginning o Council Y97. The in-season t fishermen fisheries ings to

ATTENDERM: DESCRIPTION OF TROUBERS	ND TH	<u>RUSTEE C</u>	<u>OUNCIL ACI</u>	<u>'ION</u>				PAG	<u>E 12</u>
Proj. No. Title A	Lead gency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
6258A Sockeye Salmon Overescapement Project	ADFG	ADFG	3rd yr. 4 yr. project	\$907.8	\$596.6	\$150.0	\$0.0	\$0.0	\$746.6
Project Description This project provides for completion of the Kenai lakes sockeye research program, and closeout of the sockeye monitoring program for Kodiak Island lakes. The Kenai research program investigates the mechanism and extent of injury for the continued depressed returns caused by the 1989 (and previous years) overescapement into the Kenai/Skilak system.	Chief Sc Recent a gathered between the subs populati by furthe understa sockeye approva portion o includes effects a investig done an waters o complic not reco	tientist's Communalysis of the l over the last fall zooplankt equent year. on cycles in the er analysis, this and of the F salmon rearin l of the funds for this work in funds for con t Red and Aka ators for the K excellent job, ffshore of Red ates future res mmend funding	nents extensive limnolo several years indi- con abundance and This may explain nese lake systems. Is is a major break Xenai River system g lakes in general needed to complet FY 1996. This p tinued assessment lura lakes on Koo odiak portion of t but the mixed-sto and Akalura lake toration efforts for ng Kodiak work b	gical and fry data cates a link d fry survival in sockeye salmon If substantiated through in and perhaps I recommend e the Kenai River project also of overescapeme liak Island. The his project have ck fishery in es greatly t these lakes. I do eyond FY 96.	Trustee Fund co Close-or consiste Project river so runs. R scientifi and mea r River. I significa	Council Acti mpletion of v ut work this y nt with Chie investigates 1 ckeye and mo eview of FY c breakthrou chanism of o if the discove antly advance ystem.	ion work on the year on Koo f Scientist's nechanism onitors reco 95 results i gh,which n verescapem ry is confir e the unders	Kenai Riva liak portion recommend of injury to very of Kod ndicates sig nay explain ent injury o med, it may standing of	er. of project dation. Kenai iak sockeye nificant the extent n the Kenai
5259 Restoration of Coghill Lake Sockeye Salmon	ADFG Chief So	ADFG cientist's Com	4th yr. 5 yr. project ments ing the productive	\$285.8	\$265.7 <u>Trustee</u>	\$141.0 Council Act	\$0.0 <u>ion</u>	\$0.0	\$406.
Project Description Coghill Lake has historically been a major sockeye producer or PWS. The current production is very low and could eopardize the sustainability of this sockeye stock without	Coghill The Tru	Lake for sock stees should c	eye salmon throug ontinue to suppor	t lake fertilization.	hydroad hydroad f effectiv	coustic monit coustic monit e. Smolt out	oring which migration a	ough FY 97 h has not be nd limnolo	, but not en very gical work

APPEN	DIX A: DESCRIPTION OF PROJECTS			PAC	<u>EE 13</u>						
Proj. No.	Title	Lead Agency	Proposer	Project Duration		FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
Cutthroat a	nd Dolly Varden Trout Projects	· · · · · · · · · · · · · · · · · · ·				\$377.1	\$229.6	\$200.0	\$100.0	\$0.0	\$529.6
96043B	Monitoring of Cutthroat Trout and Dolly Varden Habitat Improvement Structures	USFS	USFS	3rd yr.		\$40.4	\$29.6		- -		\$29.6
Project Des	<u>cription</u>	Chief S	cientist's Com	ments		an a	Trustee	Council Act	ion		
structures a populations Project 950 a project co 96145	nd their effects on cutthroat trout and Dolly Varden . These structures were installed in 1995 under 43B. Additionally this proposal would provide for mpletion report of Project 95043B. Cutthroat Trout and Dolly Varden: the Relation Among and Within Populations of	address least on 96, with funding USFS	ed, and it is ir e year. I reco n further revie commitment USFS	nportant to m mmend fundi w before mak s. 1st yr. 3 yr. projec	onitor ng of ing ar	the results for a this project in F additional	at Recomm Y whethe Re-eval	nendation is r additional r uate after FY \$200.0	for FY 96 o nonitoring i '96. \$100.0	s necessary	\$500.0
Dusiant Das	Anadromous and Resident Forms	Chief C	-:				The set	A T A	•		
Recovery of have taken supplement term is unk between res same water meristic, ar this study v ecologically developed	f cutthroat trout is unknown. Restoration efforts the form of instream habitat modification and stock ation. The usefulness of this approach in the long nown. This project would determine the relation sident and anadromous forms of these fish within the shed and between watersheds by examining genetic, ad life-history features of each group. Results from will allow a long-term, comprehensive and y sound restoration strategy for these fish to be	This is determi anadror Our lac constrai restorat also hel previou implica	a fundamenta ne the relation nous forms of k of knowledg ining our abilition strategies p clarify dam sly. Since the tions, I sugge	lly excellent p nships betwee Dolly Varder ge of life histo ity to identify for the specie age assessment e findings of t st substantial	ropos n resi n and ry stra the m s. Th nt resu his stu cost s	al that will dent and cutthroat trout. ategies is lost effective is project will ilts obtained idy have nations haring by the	Fund. 7 and life refines spill in occurre implica Prince al is provi	The project de history form understandin ury, and may d. This same tions for man William Sound ding signific	effines relations (e.g., analog of the nate confirm with e information nagement of nd and nations ant support	onships am dromous vs ure and ext hether reco n has direc sport fishe onwide, and for this pro	ong stocks . resident), ent of oil very has t tries in l the USFS ject.

APPEND	IX A: DESCRIPTION OF PROJECT	S AND	FRUSTEE CO	DUNCIL AC	TION				PAC	<u>E 14</u>
Proj. No.	Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
Marine Mam	mal Program				\$913.1	\$812.8	\$687.3	\$275.1	\$25.0	\$1,800.2
96001	Recovery of Harbor Seals from EVOS: Condition and Health Status	ADFG	Castellini/UAF	2nd yr. 4 yr. project	\$214.1	\$214.1	\$192.3	\$48.1	\$0.0	\$454.5
This project for mammal spec Sound. Perso cooperation w work with han blubber chem nutritional rec and nutritional recovery.	ocuses on the health of harbor seals, a marine ties that is not recovering in Prince William onnel from the University of Alaska in with the Alaska Department of Fish and Game w rbor seals to assess their health, blood and istry and size in relation to their ecological and quirements. The project addresses potential hea al problems that may be impeding harbor seal	This i questi area. rill evalua seals' lth	s a solid technica on about recover The investigator ate the most gene decline.	al proposal that a y of harbor seals is well qualified rally accepted h	addresses a basic in the oil spill I, and is helping to ypothesis for the	Fund. and nut test the harbor to elimi disease enable focus th sources	This project of tritional statu "is it food?" seal populati- inate alternat). This proje managers, su neir concerns of populatio	will docume s of harbor hypothesis on. This in ive hypothe ct complem bsistence he and efforts n decline.	ent the body seals, thus I for declines formation is ses (e.g., pr ents 96064 unters, and on the mos	condition helping to in the PWS s necessary redation, and will others to t probable
96012A-BAA	Comprehensive Killer Whale Investigation in Prince William Sound, Alaska	NOAA	N Gulf Oceanic	2nd yr. 2 yr. project	\$167.5	\$101.0				\$101.0
Project Descri	iption	Chief	Scientist's Comr	nents		Trustee	Council Act	<u>ion</u>		
This project c and other Prin on a yearly ba killer whales will help eval estimate kille	continues the monitoring of the damaged AB po- nce William Sound killer whales that has occurr asis since 1984. It develops a GIS database on that, when coupled with genetic and acoustic da uate recovery, recognize changes in behavior, a r whale impact on harbor seals.	d The A red spill, of sev tta, losing nd disint to doc additi in FY	AB pod, which su and which was a eral calves in 19 g members again, egrate entirely, v sument. Thus, I onal funds to ens 96.	stained losses at pparently rebuild 90 and 1991, is possible th It is possible th which would be a recommend appr sure that basic m	the time of the ding with the birth now apparently nat this pod could in important event roval of limited conitoring continue	Fund. of kille Williar funds b thoroug during es	There contin r whales, esp n Sound. Ho eyond FY 96 gh review of t the winter.	ues to be gr ecially the <i>A</i> wever, any should be o he recovery	eat interest AB pod, in 1 commitmer contingent of status of k	in the status Prince at of Trustee on a iller whales

AND TI	RUSTEE C	OUNCIL AC	FION	lan a sa			PAG	<u>E 15</u>
Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
ADFG	ADFG	2nd yr. 5 yr. project	\$381.1	\$347.3	\$347.0	\$100.0	\$25.0	\$819.3
Chief Se	cientist's Com	ments		Trustee	Council Act	ion		
This is : restorat perform	a very good pr ion of harbor s ing well.	oposal for continu seals. The investi	iing work on gators are	Fund. long-ten food?" I as preda resource focus th causes o	This basic stu m decline in hypothesis, b ation and dis e managers, s eir efforts an of population	idy explores harbor seal ut also addr ease. This y subsistence id concern of decline.	reasons for s. Focus is esses altern vork will en users, and c n the most	r the on "is it atives, such nable others to probable
ADFG	Schell/UAF	2nd yr. 4 yr. project	\$150.4	\$150.4	\$148.0	\$127.0	\$0.0	\$425.4
Chief S	cientist's Com	ments		Trustee	Council Act	ion		
Excelle provide Sound e	nt in all respection insights into the secosystem that	cts. This project whe functioning of cannot be obtained	vill doubtlessly the Prince Willia ed in other ways.	Fund. 7 m 96064, describi	This project j and will assi ng the food o	provides tec st the SEA j chains that	hnical supp program (90 support imp	ort for 5320) by portant
	AND TI Lead Agency ADFG Chief S This is a restorat perform ADFG ADFG <u>Chief S</u> Excelle provide Sound of	AND TRUSTEE C Lead Agency Proposer ADFG ADFG Chief Scientist's Com This is a very good pr restoration of harbor s performing well.	AND TRUSTEE COUNCIL ACT Lead Project Agency Proposer Duration ADFG ADFG 2nd yr. 5 yr. project Chief Scientist's Comments This is a very good proposal for continurestoration of harbor seals. The investigerforming well. Project ADFG Schell/UAF 2nd yr. 4 yr. project Chief Scientist's Comments Excellent in all respects. This project vertice insights into the functioning of Sound ecosystem that cannot be obtained	AND TRUSTEE COUNCIL ACTION Lead Project FY 96 Agency Proposer Duration Request ADFG ADFG 2nd yr. \$381.1 ADFG ADFG 2nd yr. \$381.1 <i>Chief Scientist's Comments</i> 5 yr. project State Chief Scientist's Comments This is a very good proposal for continuing work on restoration of harbor seals. The investigators are performing well. ADFG Schell/UAF 2nd yr. \$150.4 ADFG Schell/UAF 2nd yr. \$150.4 Aure of the Scientist's Comments Excellent in all respects. This project will doubtlessly provide insights into the functioning of the Prince Willia Sound ecosystem that cannot be obtained in other ways	AND TRUSTEE COUNCIL ACTION Lead Agency Proposer Project Duration FY 96 Request FY 96 Approved ADFG ADFG 2nd yr. \$381.1 \$347.3 ADFG ADFG 2nd yr. \$381.1 \$347.3 Chief Scientist's Comments This is a very good proposal for continuing work on restoration of harbor seals. The investigators are performing well. Trustee ADFG Schell/UAF 2nd yr. \$150.4 Fund. To long-ter food?" I as predares on the causes of focus the cause of focus the cau	AND TRUSTEE COUNCIL ACTION Lead Project FY 96 FY 97 Agency Proposer Duration Request Approved Estimate ADFG ADFG 2nd yr. \$381.1 \$347.3 \$347.0 Chief Scientist's Comments 5 yr. project Trustee Council Act This is a very good proposal for continuing work on restoration of harbor seals. The investigators are performing well. Trustee Council Act ADFG Schell/UAF 2nd yr. \$150.4 \$150.4 \$148.0 ADFG Schell/UAF 2nd yr. \$150.4 \$150.4 \$148.0 ADFG Schell/UAF 2nd yr. \$150.4 \$150.4 \$148.0	AND TRUSTEE COUNCIL ACTION Lead Project FY 96 FY 96 FY 97 FY 98 Agency Proposer Duration Request Approved Estimate Estimate ADFG ADFG 2nd yr. \$381.1 \$347.3 \$347.0 \$100.0 Chief Scientist's Comments 5 yr. project Trustee Council Action Fund. This basic study explores This is a very good proposal for continuing work on restoration of harbor seals. The investigators are performing well. Trustee Council Action ADFG Schell/UAF 2nd yr. \$150.4 \$150.4 \$148.0 \$127.0 ADFG Schell/UAF 2nd yr. \$150.4 \$150.4 \$148.0 \$127.0 ADFG Schell/UAF 2nd yr. \$150.4 \$160.4 \$148.0 \$127.0 ADFG Schell/UAF 2nd yr. \$150.4 \$150.4 \$148.0 \$127.0 Chief Scientist's Comments Trustee Council Action Fund. This project provides tecl \$16064, and will assist the SEA provide insights into the functioning of the Prince William \$06064, and will assist the SEA provide insights into the functioning of the Prince William \$0604, and will assist the SEA provides t	AND TRUSTEE COUNCIL ACTION PAC Lead Agency Project FY 96 FY 96 FY 97 FY 98 to end Agency Proposer Duration Request Approved Estimate Estimate Estimate Estimate ADFG ADFG 2nd yr. 5 yr. project \$381.1 5 yr. project \$347.3 \$347.0 \$100.0 \$25.0 Chief Scientist's Comments This is a very good proposal for continuing work on restoration of harbor seals. The investigators are performing well. Trustee Council Action Fund. This basic study explores reasons fo long-term decline in harbor seals. Focus is food?" hypothesis, but also addresses altern as predation and disease. This work will ex- resource managers, subsistence users, and focus their efforts and concern on the most causes of population decline. ADFG Schell/UAF 2nd yr. 4 yr. project \$150.4 \$150.4 \$148.0 \$127.0 \$0.0 ADFG Schell/UAF 2nd yr. 4 yr. project \$150.4 \$150.4 \$148.0 \$127.0 \$0.0 ADFG Schell/UAF 2nd yr. 4 yr. project \$150.4 \$148.0 \$127.0 \$0.0 MDFG Schell/UAF 2nd yr. 4 yr. project \$150.4 \$148.0 \$127.0 \$0.0 <

APPE	NDIX A: DESCRIPTION OF PROJECTS	AND TI	RUSTEE CO	DUNCIL A	<u>CTION</u>				PAC	<u>FE 16</u>
Proj. No.	Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
Nearsho	re Ecosystem Projects	_			\$3,159.1	\$2,989.2	\$1,869.3	\$1,789.4	\$920.0	\$7,567.9
96025	Mechanism of Impact and Potential Recovery of Nearshore Vertebrate Predators	DOI	DOI	2nd yr. 5 yr. project	\$1,859.9	\$1,859.9	\$1,669.4	\$1,669.4	\$450.0	\$5,648.7
Project D	escription	Chief So	cientist's Comn	nents		Trustee	Council Act	tion		
across a s determin knowledg recovery processes in or on l of predat benthic p	act assesses trophic, health, and demographic factors suite of "apex" predators injured by the spill to e mechanisms constraining recovery and improve ge of the status of recovery. Primary hypotheses: 1) of nearshore resources is limited by recruitment c; 2) initial and/or residual oil in benthic habitats and benthic prey has had a limiting effect on the recovery ors; and 3) EVOS-induced changes in populations of rey species have influenced the recovery of predators.	and an Council this pro order to	ogram was peer 18-month work . A detailed re gram will be co refine the prog	reviewed in d plan was appr view of the fir onducted in the gram for FY 96	letail in March 1995 oved by the Trustee st full field season of e 1995 - 96 winter in 5.	, Fund. intertid f the spil n organis address contam predato	In general, the al habitat and I. This project ms and closed es question of ination is slot rs.	he nearshore d organisms ect monitors ely linked ve of whether co owing recove	ecosystem, , was harder recovery of rtebrate pre- ontinuing ery of vertel	, including est hit by f intertidal edators and prate
96027	Kodiak Archipelago Shoreline Assessment: Monitoring Surface and Subsurface Oil	ADEC	ADEC	2nd yr. 2 yr. project	\$39.8	\$39.8	\$0.0	\$0.0	\$0.0	\$39.8
Project D	escription	Chief Se	cientist's Comn	nents		Trustee	Council Ac	tion		
This proj areal extr Archipel surveyed necessary acceptab presence also prov	ect completes work begun in FY 95 to determine the ent, toxicity and origin of oil on selected Kodiak ago shorelines. Most of these shorelines were last in 1990. The information about the remaining oil is y to determine whether recovery is proceeding at an le rate, and to help local people assess whether the of remaining oil is still affecting shoreline activities. It ides funding to develop information about future	Close-o held and	ut funding will d final report to	allow commu be written.	nity meetings to be	Fund. assessm and ass and alte	Project is clo nent work in ess informat ernative shor	seout of FY Kodiak. Pri ion about fu reline treatm	95 shorelir oject also w ture monito ents.	ne vill develop pring needs
shoreline	treatment in Prince William Sound.						an a		- 1	
96086	Herring Bay Monitoring and Restoration Studies	ADFG H	lighsmith/UAF	7th yr. 7 yr. project	\$185.3	\$173.0	\$0.0	\$0.0	\$0.0	\$173.0
Project I	Description	Chief S	cientist's Comr	nents		Trustee	e Council Ac	tion		
In 1990, Herring These str show con invertebr collected the exist recovery	intertidal restoration studies were established in Bay in response to the T/V <i>Exxon Valdez</i> oil spill. Idies have continued through the 1994 field season and thinued injury to <i>Fucus gardneri</i> and the associated ate population, especially in the upper intertidal. Data during the 1995 field season will be incorporated into ing Herring Bay database and the rates and extents of determined for injured resources.	This is with clo to be hi	a project that work of the schedul gh for a close-co	vas funded fron ed for FY 96. out project.	m 1990 through 199 The budget appears	5, Fund. I writing Trustee	Project is clo only) for str Council.	se-out (data adies previou	analysis an Isly funded	d report by the

<u>APPEN</u>	DIX A: DESCRIPTION OF PROJECTS	S AND T	RUSTEE C	COUNCIL AC	<u>FION</u>				<u>PAC</u>	<u>SE 17</u>
Proj. No.	Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96090	Mussel Bed Restoration and Monitoring	NOAA	NOAA	5th yr. 5 yr. project	\$209.7	\$205.1	\$0.0	\$0.0	\$0.0	\$205.1
Project Deal In FY 96 a and summa oiling in m restoration and sedime in 1996. N for FY 96.	scription comprehensive report will be produced synthesizin arizing four years of studies on the persistence of ussel beds in PWS and the Gulf of Alaska and of 12 of these beds. Chemical analyses of mussel ent samples collected in 1995 will be completed earl No new sample collection or site visits are proposed	<u>Chief</u> g It is es budget writing (which y	Scientist's Com sential to comp appears to be g is very high, i is recognized	<u>iments</u> blete this close-out high. The labor for given the donation and appreciated).	t project but the or the report n of time by NOAA	Trustee Fund. 1 contam beds ma nearsho could le mussel	Council Act Project would ination of mu ay be a pathwore vertebrate ead to further beds.	ion l close-out p issel beds by vay for on-g predators. cleaning ar	revious stu 7 oil. Oiled oing contar Informatio nd restoratio	dy on l mussel nination of n gathered on of
96106 <u>Project De</u> This project Project 95 analysis, d report will 1991.	Subtidal Monitoring: Eelgrass Communities <u>scription</u> ct would provide funds to write the final report for 106. The budget reflects projected costs of sample lata analysis, and report preparation. The final incorporate and compare all data collected since	ADFG Chief S This is the Tri subtida	Jewett/UAF Scientist's Com a close-out pr ustees. The inv al studies.	6th yr. 6 yr. project <u>uments</u> oject for work pre vestigator is doing	\$253.1 viously funded by a very good job or	\$253.1 <u>Trustee</u> Fund. 7 n years.	\$0.0 <u>Council Act</u> This project c	\$0.0 <u>ion</u> loses out wo	\$0.0 ork funded	\$253.1 in previous
96161	Differentiation and Interchange of Harlequin Duck Populations Within N. Pacific Region	DOI	DOI	1st yr. 2 yr. project	\$230.4	\$81.1	\$78.9	\$0.0	\$0.0	\$160.0
Harlequin little is known of a single advances i harlequin Alaska Per differentia in the oil-s	ducks range widely throughout the oil-spill area, bu own about whether the regional population consists stock or multiple, discrete subpopulations. Recent in avian genetics enable cost-effective sampling of ducks in Prince William Sound, Kodiak Island, the ninsula, and other locations to assess the degree of tion within and interchange among harlequin ducks spill area.	t This p testing marke intercl of hard of reco for ma sport a this tin	roposal has been a substantiated by the second seco	en revised to shift e transmitters to u ad the geographic he northern Gulf of This work should oil spill and yield his species, which e purposes. I record	emphasis from se of genetic structure and of Alaska populatio aid interpretation useful information is harvested for mmend funding at	Fund. on gene structur n the nor contrib Prince area.	this project This project etics as a way re and intercl thern Gulf of ute to restora William Sou	ton has been rec to look at t hange amon f Alaska. Tl tion and ma nd and elsev	ast with an he populati g harlequir nis informa nagement where in th	a emphasis ion a ducks in ition will goals in e oil-spill

APPENDIX A: DESCRIPTION OF PROJECTS	AND TRUS	STEE CO	DUNCIL AC	<u>TION</u>				PAG	<u>E 18</u>
Proj. No. Title	Lead Agency Pr	oposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96290 Hydrocarbon Data Analysis, Interpretation, and Database Maintenance	NOAA N	ΊΟΑΑ	5th yr. 11 yr. project	\$119.8	\$116.1	\$121.0	\$120.0	\$470.0	\$827.1
Project Description	Chief Scient	ist's Comn	nents		Trustee	Council Act	on		
This project is a continuation of the NRDA and Restoration database management, hydrocarbon interpretation and sample storage service. Subsistence response and restoration data will continue to be incorporated into the Trustee hydrocarbon database. A summary report for investigators and managers will be produced with an electronic copy of the database, that will allow easier access to this information. New user groups of the database will be identified, and tailored user interfaces will be generated.	This is an ex support the r continue to 1 interpreting	ccellent proje many proje face the tas environme	pposal. The wor cts, both past ar k of obtaining a ntal hydrocarbo	k is necessary to ad present, that nd correctly n data.	Fund. 1 data for project commu comput	Project is on- other Truste will make the nity and the j er Internet.	going analy e Council fi sse data ava public, inclu	sis of hydro inded studic ilable to the iding "on-lin	carbon es. This scientific ne" via the
96427 Harlequin Duck Recovery Monitoring	ADFG A	DFG	3rd yr. 4 yr. project	\$261.1	\$261.1				\$261.1
Project Description	Chief Scient	ist's Comn	<u>nents</u>		Trustee	Council Act	ion		
This project will compare population parameters between oiled and unoiled areas based on population structure, behavior, production, and growth rates. Shoreline boat surveys will be conducted simultaneously. Changes in population size, structure, and production in oiled and unoiled areas and between years will be compared. Continued population monitoring and brood surveys will allow us to assess trends and suggest factors limiting recovery.	Harlequin du and there co especially in review sessiv excellent pro comparing t western part forward, and	ucks were s ntinues to western P on this fall ogress in d he health o s of the So 1 I recomm	seriously impact be concern about rince William S , the investigato eveloping an ap of populations in und. This work end funding thi	ed by the oil spill, t their status, ound. Based on th rs have made proach to eastern and needs to go s project in FY 96	Fund. ' recover e Sound.	This project c y status of ha	ontinues ba rlequin duc	sic assessm ks in Prince	ent of William

APPENDIX A: DESCRIPTION OF PROJECT	<u>IS AND TRUSTEE C</u>	OUNCIL ACTI	I <u>ON</u>				<u>PAG</u>	<u>E 19</u>
Proj. No. Title	Lead Agency Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
Seabird/Forage Fish Ecosystem Project			\$1,982.6	\$1,800.7	\$1,750.7	\$1,750.7		\$5,302.1
96163 APEX: Apex Predator Ecosystem Experiment in Prince William Sound and the Gulf of Alaska	NOAA NOAA/DOI DOI	2nd yr. 5 yr. project	\$1,982.6	\$1,800.7	\$1,750.7	\$1,750.7		\$5,302.1

Project Description

This study will use seabirds as "probes" of the trophic environment of PWS and compare their reproductive and foraging biologies with similar measurements from the Barren Islands, an area with more suitable or abundant food. Measurements will be compared with hydroacoustic and net samples of fish to calibrate seabird performance with fish distribution and abundance. The project will use fish samples to compare diet, energetics and reproductive parameters of different forage-fish species to determine whether competitive and predatory interactions or different responses to the environment may be favoring the abundance of one fish species over another.

Chief Scientist's Comments

This project was undertaken on a pilot basis in FY 1995, and remarkable progress was achieved in demonstrating the link between seabird productivity and forage fish populations in the oil-spill area. The intercolony comparisons have provided qualitative evidence of food limitation of seabird colonies, which is essential to successful testing of the APEX hypotheses. However, there are substantial challenges ahead in documenting these relationships on a quantitative basis. In the future, the emphasis of this work should shift from deep water to nearshore environments, because most of the important interactions between seabirds and forage fish take place there. Preliminary analysis of historical trawl-catch data in the Gulf of Alaska has been extremely helpful showing how long-term and potentially large-scale changes in the composition of crustacean and fish populations might affect marine bird and mammal populations. This historical work, coupled with the current field investigations, may lead to significant improvement in the ability to understand, predict, and manage the spill-area ecosystem on a sustained basis. I recommend funding this work on a full-scale basis in FY 1996.

Trustee Council Action

Fund. The pilot effort in FY 95 has shown a link between forage fish and seabird productivity. The scientific reviewers are enthusiastic about the prospect that this work will yield results that are of benefit to the marine ecosystem in Prince William Sound and the northern Gulf of Alaska.

APPENDIX A: DESCRIPTION OF PROJECTS A Proj. No. Title	AND TI Lead Agency	RUSTEE C	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	PAC FY 99 to end Estimate	FE 20 Total FY 96 to end Estimate
Seabird/Forage Fish Related Projects	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	\$907.8	\$610.3	\$145.5	\$39.9	\$0.0	\$795.7
Development of a Productivity Index to Monitor the Reproductive Success of Marbled and Kittlitz's Murrelets in Prince William Sound, Alaska	DOI	DOI	2nd yr. 4 yr. project	\$254.6	\$77.6	\$50.0	\$39.9	\$0.0	\$167.5
Project Description	Chief So	cientist's Com	ments		Trustee	Council Act	ion		
productivity of maroled and Kitulitz's murrelets. The reproductive success of these two non-colonial seabirds cannot be monitored using standard techniques. To develop a productivity survey protocol, murrelets would be surveyed at sea to determine the timing and abundance of juveniles, the ratio of juveniles to adults and the coastal and marine features that best predict juvenile abundance. By monitoring murrelet productivity in relation to population trends, this index could eventually be used to determine what factors influence murrelet recovery.	product that furt valuable synthesi possible Seabird- only lim areas. I	of the restora her work on re- after there have the results integration o -Forage Fish (inted additionand do not recom	tion program. How marbled murrelets as been a concerted of past work and t f murrelet work in (APEX) project. T al funding to enabl amend additional fi	wever, I believe will be most d effort to to explore the to the larger 'hus, I recommen e progress in the ield work now.	field wo context funding and pub murrele d	ork on marble of the APEX is for the pr lish prior Tr ts and to full	ed murrelets (96163) pr incipal inve ustee-suppo y explore in	be conside edator proj stigator to s rted work c tegration v	ered in the ect. FY 96 synthesize on marbled with APEX.
6038 Publication of Seabird Restoration Workshop Project Description	DOI P	Pac Seabird G	r 2nd yr. 2 yr. project uments	\$31.0	\$22.2 Trustee	\$0.0 Council Act	\$0.0	\$0.0	\$22.2
The Trustee Council funded the Pacific Seabird Group (PSG) to hold a workshop in September 1995 to bring together experts in seabird biology and restoration. It included discussions of the theoretical and practical aspects of seabird restoration and provided recommendations for restoration plans founded on the best available scientific information and opinion. This proposal seeks funds for the writing and publishing of manuscripts summarizing the workshop discussions.	With su held a v in Septer reviews summar recomm followir events. and I re	pport from the ery successful ember 1995. That bring tog- rized before. and the <i>Exxon</i> by This information commend sup	e Trustees, the Pace I symposium on sea This event has proor gether information These reviews, and e of great value to <i>Valdez</i> oil spill and tion deserves to be oport of this modes	tific Seabird Grou abird restoration duced technical that has not beer that has not beer the resulting restoration l other such circulated widely t proposal.	Ip Fund. ' Seabird Trustee circulat funds w y,	The Pacific S Restoration, s, was highly ion in a publ ill suppleme	eabird Grou which was successful ished forma nt funds fro	up Symposi supported l and deserve t. Trustee m other sou	um on by the es wide Council Irces.

APPENDIX A: DESCRIPTION OF PROJECTS	AND T	RUSTEE (COUNCIL AC	TION				<u>PAC</u>	<u>GE 21</u>
Proj. No. Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96101 Removal of Introduced Foxes From Islands	DOI	DOI	3rd yr. 3 yr. project	\$88.9	\$8.4	\$0.0	\$0.0	\$0.0	\$8.4
<u>Project Description</u> This project proposes to remove introduced arctic foxes from Sequan Island as a means of allowing populations of three species of birds injured by the oil spill (black oystercatcher, pigeon guillemot and common murre) to increase. Although it is outside the area directly affected by the oil spill, Seguam Island has a particularly high potential for restoring populations of these species because it contains substantial amounts of habitat and remnant populations of all three species are present.	Chief S I have cost res Island injured replace to take be used	Scientist's Con supported fox storation techr is far from the by the spill, to ment/equivale concrete meas	ments removal as a high ique. One issue spill zone. Targ out would have to out resource basis sures of program	hly effective but lo is that Seguam et species were be justified on Every opportuni effectiveness shou	Trustee w Fund cl new wc spill-af ity ild	Council Act lose-out of pr ork at Seguan fected popula	ion ior work (9: 1 Island bec tions is not	5041). Do ause the be established	not fund nefit to l.
96142-BAA Status and Ecology of Kittlitz's Murrelet in Prince William Sound	NOAA	ABR, Inc.	1st yr. 1 yr. project	\$168.7	\$168.7				\$168.7
This project Description This project would investigate the status and ecology of Kittlitz's Murrelet, a rare seabird breeding in glaciated fjords of Prince William Sound. The study will evaluate the abundance, distribution, and productivity of this little known seabird and assess its habitat use and feeding habits in northwestern PWS. Given uncertainty about the effects of the oil spill on this species, a better understanding of its status and ecology is required to ensure its long-term conservation.	This is perhap knowled justifie restora with an should and wh sufficie	an excellent p s the most inju- edge of this sp d. This projection actions. ' n extensive bar be reviewed a hether the map ently large sca	proposal on a bird ured of any by the eccies is so sketchy the investigator i ckground in alcid fter the first year oping work will be le to be of use on	species that was spill. Our that this project or discovering s well qualified biology. The stu to assess progress e done at a the ground.	Fund F FY 96 is world-y populat the oil dy on a ra s identifi	Y 96 only; fur results. Kittl wide populati tion, it may h spill. This st re, poorly kno cation of rest	ture years' f itz's Murrel on, and, pro ave been th udy will gat own seabird oration mea	funding dep et has a sm oportionate e species ha ther basic in , which ma asures.	pendent on hall to that ardest hit by nformation ay lead to
96144 Common Murre Population Monitoring	DOI	DOI	1st yr. 7 yr. project	\$101.7	\$70.5	\$70.5			\$141.(
Project Description The project is designed to determine whether common murre populations at a series of index colonies within the area affected by the oil spill are recovering. This objective would be accomplished by counting murres at all five locations to document the presence or absence of post-spill population trends. Each location would be surveyed every 3 years, but the field work is proposed so that a portion of it would be accomplished annually (i.e. colonies in the western portion of the spill zone would be surveyed in FY 96, central colonies would be counted in FY 97, and the eastern-most colonies would be rejeted in FY 98.	Chief S Docum is a key oil spil Islands Seabiry that it elsewh recomm Island the Ba	Scientist's Cor nenting the rec y part of under 1. In addition s provides key d-Forage Fish is essential the ere in the Gul mend funding murres to sup rren Islands.	nments covery of murres is rstanding the long , study of murres data for testing h (APEX) program at we monitor mu f of Alaska at this a full population plement the APE	in the Barren Islan g-term effects of the in the Barren ypotheses in the I. I do not believe rre colonies s time. Thus, I census of Barren X (96163) work in	Trustee nds Fund. he monito Gulf of on the Barren APEX critical	e Council Act Rather than s ring commor Alaska color Barren Island Islands will study, as wel group of col	ion start a multi n murre pop nies, curren ls. Populati be very help l as to track onies.	-year commulations at t efforts will on censuse oful in term murre reco	nitment to a series of ll be focused is at the is of the overy at this

APPENDIX A: DESCRIPTION OF PROJECTS	AND TI	RUSTEE CO	DUNCIL ACT	ION				PAC	<u>E 22</u>
Proj. No. Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96159 Surveys to Monitor Marine Bird Abundance In Prince William Sound During Winter and Summer 1996	DOI	DOI	1st yr. 2 yr. project	\$262.9	\$262.9	\$25.0			\$287.9
Project Description This project would conduct small boat surveys to monitor abundance of marine birds and sea otters in PWS during March and July 1996. Previous surveys have observed more than 65 bird and eight marine mammal species in PWS. Data collected in 1996 will be used to examine trends from summer 1989-96 and from winter 1990-96 by determining whether populations in the oiled zone changed at the same rate as those in the unoiled zone. Overall population trends for PWS from 1989-96 also will be examined.	Chief So This is a otters. T are simi done a p detectin The pro reasonal commit between investig	cientist's Comm a solid proposa The surveys har lar data from 1 bower analysis g change in po posed biannual ble in light of ments should b monitoring in ations.	nents I for monitoring s ve been done sinc 984 - 85. The pr that indicates a lo pulations with int monitoring sche the analysis, but f e reviewed with r jured resources an	eabirds and sea e 1989 and ther oposers have w power of frequent sampli dule appears uture egard to balanc ad ecological	Trustee Fund for monito surveys recover ng. otters)	Council Act or this monito ring will be e provide basic y of an entire in PWS.	ion ring cycle c valuated wh c informatic suite of ma	only. Futur len propose on on status rine birds (e d. The and (and sea
Subsistence Projects				\$1,628.4	\$1,352.2	\$1,226.0	\$957.5	\$1,594.8	\$5,130.5
96009D Survey of Octopuses in Intertidal Habitats	USFS	PWSSC	2nd yr. 3 yr. project	\$142.3	\$142.3	\$40.9	\$0.0	\$0.0	\$183.2
Project Description This project addresses concerns that octopus and chiton have been depleted by EVOS and that subsistence uses are impaired. The first year (FY95) was to establish the feasibility of working on octopus in the Sound, identify suitable study sites, and evaluate techniques. The second year (FY96) will focus on identifying optimal habitat characteristics in the intertidal and subtidal area where octopus are harvested. Close-out costs are requested in the third year (FY97).	Chief So The pilo survey r octopus good mo resident approac produce that is a continu- the pilo	cientist's Comm of project in FY nethods and pr in Prince Will odel of how an s work togethe hes. If these su information v n important su ed funding to it t project.	nents 7 1995 was succes eliminary habitat iam Sound. This investigator and r to combine their urveys are now ca aluable for manag bsistence resourc mplement the me	sful in developi models for project provide community r knowledge an rried out, it wil gement of a spece I recomment thods developed	Trustee ing Fund. chiton s a subsiste success d Sound, 1 informa- cies 1 1 in	e Council Act Project addre stocks were d ence uses are ful in locatin developing s ation about th	ion sses the con epleted by t impaired. F g octopus ir urvey metho e life histor	cern that o he oil spill Y 95 pilot Prince Wi ods, and pro y of octopu	ctopus and and that effort was lliam oviding is.

APPENDIX A: DESCRIPTION OF PROJECTS	SAND T	RUSTEE C					PAGE 23		
Proj. No. Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96052 Community Involvement & Use of Traditional Knowledge	ADFG	ChugachRRC	2nd yr. 8 yr. project	\$271.0	\$271.0	\$250.0	\$250.0	\$1,000.0	\$1,771.0
Project Description	Chief :	Scientist's Com	ments		Trustee	Council Act	ion		
This project, submitted by the Chugach Regional Resources Commission (CRRC), will continue a program begun in FY 95. This project will encourage and facilitate communication among the Trustee Council, researchers working on oil spill restoration projects, regional organizations and residents of communities impacted by the oil spill. The project includes a pilot effort to integrate western science and Traditional Ecological Knowledge to further the restoration program.	Addre: interac membe	sses needed rest tions between E ers.	oration work by fu VOS scientists and	rthering d community	Fund. commu Council impacte	This project of nication and l, scientists, a ed by the oil s	continues a interaction and resident spill.	program to among the s of commu	facilitate Trustee mities
96127 Tatitlek Coho Salmon Release	ADFG	Tatitlek IRA	2nd yr. 5 yr. project	\$52.7	\$26.6	\$15.9	\$15.9	\$15.9	\$74.3
Project Description	Chief	Scientist's Com	ments		Trustee	Council Act	ion		
Project will create a coho salmon return to Boulder Bay near Tatitlek village. Enough coho eggs to produce 20,000 smolts will be collected from an ADF&G approved stream, incubated and reared to smolt at the Solomon Gulch Hatchery, transported and held for two weeks in net pens in Boulder Bay before release. Release will produce a 2,000 to 3,000 adult return to Boulder Bay for harvest in a subsistence fishery.	Excell Howev maxim years).	ent project, tech /er, Trustee Cou num of one life o	nically sound, hig incil funding shoul cycle of coho (appr	hly feasible. d be limited to oximately 4	Fund. 1 Project a replac injured	Fund for four will create a cement resou by the oil sp	years (one coho salmo rce for subs ill.	coho life cy n run near istence reso	rcle). Tatitlek as urces
96131 Chugach Native Region Clam Restoration	ADFG	ChugachRRC	2nd yr. 5 yr. project	\$405.6	\$274.9	\$413.6	\$417.4	\$417.4	\$1,523.3
Project Description	Chief	Scientist's Com	ments		Trustee	Council Act	ion		
Resident clam populations near the Native villages of Port Graham, Nanwalek, and Tatitlek will be re-established to restore diminished subsistence opportunities. The Qutekcak hatchery in Seward will annually provide about 800,000 juvenile littleneck clams, cockles and, if possible, butter clams for seeding. Historical information, local and agency expertise and research will be used to identify areas to seed and methods used. Total seeded area will not exceed 5 hectares. In addition beaches will be surveyed in Chenega and Ouzinkie for possible future seeding. Also, Eyak razor clams will be identified and work will be initiated to protect the existing clam populations from natural predators.	This p and ra an imp of clar develo e, consul s experi n, projec that ev	project was succe ising their spat, portant contribu ns. However, the poment of hatche tation with expe- ence. I recommend t, emphasizing of ventually may be	essful in spawning and it has the pote- tion to restoration here is need for cor- ery techniques, wh erts who have appr nend continued sup development of hat e applied on a larg	little-neck clam ential of making of subsistence untinued ich will require copriate port of this tchery technique er scale.	s Fund co Nanwa se Cheneg probler Fundin Descrip by peer subsiste subsiste	ontinuing pil lek, and Tati- ga and Ouzin n in Cordova g is continge otion, which reviewers. P ence clam po ence resource	ot effort in l tlek. Fund i kie, and ana (Native Vil nt on appro must addres roject is inte pulations as injured by	Port Graham initial beach alysis of cla llage of Eya val of Detain s hatchery ended to est replacement the oil spit	n, h surveys in m predator k). iled Project issues raised tablish nt for ll.

APPENDIX A: DESCRIPTION OF PROJECTS A	AND T	RUSTEE CO	DUNCIL ACT	TION				PAG	E 24
Proj. No.	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96210 Prince William Sound Youth Area Watch	ADFG	Chugach RRC	1st yr. 3 yr. project	\$233.4	\$115.0	\$100.0	\$100.0	\$0.0	\$315.0
<u>Project Description</u> Students from Chenega Bay, Tatitlek and some outlying areas will participate in research projects identified by the Prince William Sound Science Center and other EVOS researchers.	Chief S A solid in the presen	Scientist's Comm d proposal for a j scientific aspects ted and integrate	<u>nents</u> pilot project to im s of the restorationed proposal.	volve local youth n program. Well	Trustee Fund as particip	Council Actio a pilot project ate in ongoing	<u>n</u> . Project : restoratio	allows yout n projects.	h to
the effects of the oil spill and encourage their involvement in research/restoration. Students will be involved in oceanographic testing, fish monitoring, bird and mammal observations, pristane/mussel analysis and octopus studies.									
96214 Documentary on Subsistence Harbor Seal Hunting in PWS	ADFG	Tatitlek Village	1st yr. 1 yr. project	\$77.4	\$77.4	\$0.0	\$0.0	\$0.0	\$77.4
<u>Project Description</u> The purpose of this project is to make a documentary on subsistence hunting of harbor seals in PWS. This video will document all facets of harbor seal hunting including the ecological and biological knowledge hunters use to hunt harbor seals. By documenting this knowledge, the project will enhance the restoration of the seal population by providing an indigenous hunter's perspective on harbor seal ecology.	Chief Project interes harbor decisio	Scientist's Comm t is an excellent sts of the commu seals by allowin ons about the res	nents idea. Will direct nities, and will as ng subsistence use ource.	ly serve the ssist restoration of ers to make better	<u>Trustee</u> Fund. f	Council Actio	<u>n</u> 		
96220 Eastern PWS Wildstock Salmon Habitat Restoration	USFS	Eyak Nat Vill	1st yr. 3 yr. project	\$92.0	\$92.0	\$115.0	\$12.0	\$0.0	\$219.0
<u>Project Description</u> This project will replace lost subsistence services resulting from the oil spill by increasing wild salmon production in eastern Prince William Sound. Instream fisheries habitat improvement techniques, primarily the installation of log structures, will be employed by local subsistence users to increase the capability of selected streams to produce additional salmon.	Chief Good Counc techni	Scientist's Comr community invo cil guidelines on cally.	<u>nents</u> lvement. Compa fish supplementa	tible with Trustee tion. Excellent	Trustee Fund. lost due product	Council Action This project with to the oil spill ion in Prince V	<u>n</u> 11 replace l by increa William So	subsistence sing wild s ound.	services almon

APPEN	DIX A: DESCRIPTION OF PROJECTS	AND TRUSTEE (COUNCIL AC	<u>TION</u>				<u>PAC</u>	E 25
Proj. No.	Title	Lead Agency Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96222	Chenega Bay Salmon Restoration Anderson Creek	USFS Chenega IRA	1st yr. 2 yr. project	\$17.1	\$16.1	\$56.4	\$0.0	\$0.0	\$72.5
Project Des	<u>scription</u>	Chief Scientist's Con	<u>nments</u>		Trustee	Council Act	ion		
additional installing a upper tide in Crab Ba Target spea stream will Environme pass will b	spawning and rearing habitat for salmon by a fish pass on a six-foot barrier falls located near the zone on Anderson Creek. Anderson Creek is located by on Evans Island, near the village of Chenega Bay. cies are pink, coho, and chum salmon. In 1996 the l be surveyed and evaluated for enhancement and an ental Assessment will be completed. In 1997 the fish e installed.	salmon at Chenega E addressed concerns a species and nearby w recommend funding needed to implement	bout effects of oth ild stocks of pink to complete the pr this project.	oroposal has er indigenous salmon. I eliminary work	to the o rearing village	il spill by ope habitat for sa of Chenega.	epiace substr ening up add almon on Ar	litional spa nderson Cr	ices fost due wing and eek near the
96225	Port Graham Pink Salmon Subsistence Project	ADFG Port Graham	1st yr. 5 yr. project	\$95.3	\$95.3	\$83.1	\$77.2	\$161.5	\$417.1
Project De	<u>scription</u>	Chief Scientist's Con	nments		Trustee	Council Act	ion		
This project the Port Groot of the Port sockeye sal subsistence heavily rel that pink s more tradit	ct will help supply pink salmon for subsistence use in raham area during the broodstock development phase Graham hatchery. Because local runs of coho and lmon, which are the more traditional salmon e resources, are at low levels, pink salmon are now ied on for subsistence This project will help ensure almon remain available for subsistence use until the tional species are rejuvenated.	Potentially worthwhi pink salmon product users.	le project that sho ion for the benefit	uld supplement of subsistence	Fund. 1 of pink coho an	Project is inte salmon for si d sockeye sa	ended to inc ubsistence u lmon deplet	rease the av se, replacin ed since the	vailability ng runs of e oil spill.
96244	Community-Based Harbor Seal Management and Biological Sampling	ADFG ANHSC	3rd yr. 5 yr. project	\$128.5	\$128.5	\$100.0	\$85.0	\$0.0	\$313.5
Project De	<u>scription</u>	Chief Scientist's Cor	nments		Trustee	Council Act	ion		
The goal o subsistence species thr sampling, and develo subcontrac will contril	of the project is to facilitate the involvement of e users of harbor seals in the restoration of this ough two workshops, conducting biological collection and application of traditional knowledge, opment of a traditional knowledge database. A et with the Alaska Native Harbor Seal Commission bute to developing a meaningful role for subsistence	This is a well integra	ited and technical	y feasible project.	Fund. recomm previou will be collecti animals develop	This project v nendations fro s Trustee Con involved in h ng biological s, and a tradit red and distri	will follow t for worksho uncil project arbor seal n samples fro tional know buted.	hrough on ps supporte ts. Subsiste estoration t om subsiste ledge datab	ed through ence users hrough nce-taken ase will be

APPEN	DIX A: DESCRIPTION OF PROJECTS	AND T	RUSTEE (COUNCIL ACT	<u>rion</u>				PAG	<u>E 26</u>
Proj. No.	Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96256	Columbia and Solf Lakes Sockeye Salmon Stocking	USFS	USFS	lst yr. 1 yr. project	\$60.8	\$60.8				\$60.8
Project Desc	<u>cription</u>	Chief Se	cientist's Con	<u>nments</u>		Trustee	Council Act	ion		
This project self-sustaini Columbia L Island. Data 19,000 to 22 Bay near the could annua	would assess the feasibility of establishing ing runs of sockeye salmon in Solf Lake and ake. Solf Lake is located in Herring Bay on Knight is suggest it could annually produce returns of 2,000 sockeye. Columbia Lake is located in Heather e Columbia Glacier. Data indicate that the lake illy produce returns of 10,000 to 29,000 sockeye.	There a establish Solf and interest this pro recomm	ppear to be re- ment of self- l possibly Co- to subsistenc ject would me end funding	easonable prospects -sufficient sockeye lumbia lakes. This e users in Prince W ore fully explore its of this feasibility st	for successful salmon runs at is of considerable villiam Sound, and feasibility. I udy in FY 1996.	Fund fe provide and con	asibility stud sockeye saln umercial fish	y. If feasibl non to aid P eries.	e, this proje WS subsist	ct could ence, sport,
96272	Chenega Chinook Release Program	ADFG	PWSAC	3rd yr. 4 yr. project	\$52.3	\$52.3	\$51.1	\$0.0	\$0.0	\$103.4
Project Desc	<u>cription</u>	Chief S	cientist's Con	nments		Trustee	Council Act	ion	an a	
Chinook sal Hatchery wi community release will services inju (1994 & 19) will begin re projected at thereafter.	mon incubated and reared at the Wally Noerenberg ill be released in Crab Bay, adjacent to the native of Chenega. Adult salmon returning to the site of provide replacement resources and associated ured by the oil spill. Two releases have taken place 95) as part of this multi-year project. Adult salmon eturning in 1996 and 1997, with larger numbers nearly 1,000 adult fish returning in 1998 and	Exceller fish sup Suggest least FY effective	nt proposal. plementation continued T 7 97, pending eness.	Good match with 7 criteria. Good loc rustee Council fund project review in 1	Trustee Council's al involvement. ling through at Fall 1996 to assess	Fund th least FY Project subsiste the prop non-Tru	rough one fu 7 97). Review will provide nce salmon i posers should istee funding	Il chinook s w effectiven replacement njured by th develop a p	almon life ess in fall o resources e oil spill. lan for a tr	cycle (at f 1996. for However, ansition to
Archaeolog	rical Resources				\$505.6	\$504.2	\$195.0	\$195.0	\$135.0	\$1,029.2
96007A	Archaeological Index Site Monitoring	ADNR	ADNR	2nd yr. 5 yr. project	\$146.5	\$145.1	\$135.0	\$145.0	\$135.0	\$560.1
Project Des	<u>cription</u>	Chief S	cientist's Cor	nments		Trustee	Council Act	ion		
Monitoring vandalism a sites in the for re-introd if monitorin	of archaeological sites on public land injured by and oiling will concentrate on a sample of index three regions of the spill. Oiled sites will be tested duced oil. The 10-year project will end at five years and shows no continued injury.	This is that car is a nee	an excellent j i be done in a d to continue	proposal that repre- rchaeological site consultations with	sents the minimum monitoring. There Native groups.	Fund. archaeo The ten monitor should	The project p logical sites -year project ring shows no continue and	rovides con injured by v will end at continued expand con	tinued mon andalism a five years i injury. Th sultation w	itoring of nd oiling. f e proposer vith Native

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groups.

should continue and expand consultation with Native

APPEN	DIX A: DESCRIPTION OF PROJECTS	AND TRUSTEE COUNCIL ACTION						<u>PAGE 27</u>		
Proj. No.	Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
96007B	Site Specific Archaeological Restoration	USFS	USFS	3rd yr. 3 yr. project	\$78.4	\$78.4	\$0.0	\$0.0	\$0.0	\$78.4
Project Des	scription	Chief S	Scientist's Com	ments		Trustee	Council Act	ion		
Funding is archaeolog Project 960 Analysis an field work complete th sites in 199	requested for the final phase of the Forest Service's ical restoration at sites SEW-440 and SEW-488. 007B is a continuation of projects 94007 and 95007B nd interpretation of data gathered during previous will result in a peer-reviewed final report. This will he restoration process initially prescribed for these 91.	This is budget . Native	a close-out of appears reason groups are req	a previously funded nable. Continued c uired by federal lav	d project. The consultations with w.	Fund. 1 Native work to	Proposer sho groups. Proj restore arch	uld continue ect closes or aeological s	e consultati it previousl ites in the s	on with y funded spill area.
96149	Archaeological Site Stewardship	ADNR	ADNR	1st yr. 3 yr. project	\$74.4	\$74.4	\$60.0	\$50.0	\$0.0	\$184.4
Project Des	scription	Chief	Scientist's Com	iments		Trustee	Council Act	ion		
The archae training an vandalized ability of a protect dan Bay and th protection from site v	cological site stewardship program will provide ad coordination for a cadre of volunteers to monitor archaeological sites in the oil spill area beyond the gency monitoring. Volunteer site stewards will naged sites in Kachemak Bay, Uganik Bay, Uyak e Chignik area of the Alaska Peninsula. Further will come from increased local awareness of harm andalism.	The cc serve a resider	oncept was favo as a useful mod nts.	rably reviewed. T	his project could sites by local	Fund. coordin archaec current After F volunte	The project v ation for vol- ological sites ly beyond the Y 98, expens er stewards c	vill provide unteers to m in the oil sp ability of a ses will be a or agency bu	training an nonitor van vill area. T gency mon ssumed eith adgets.	d dalized his effort is itoring. her by
96154	Comprehensive Community Plan for Restoration of Archaeological Resources in PWS and Lower Cook Inlet	USFS	Chugach HF	1st yr. 1 yr. project	\$206.3	\$206.3				\$206.3
Project De	scription	Chief	Scientist's Con	nments		Trustee	Council Act	ion		
The propos community Prince Wil strategies f facilities w restoration increasing replacing t damage to	sed project would develop a comprehensive y plan for restoring archaeological resources in liam Sound and Lower Cook Inlet, including for storing and displaying artifacts at appropriate within the spill area. This plan would contribute to a objectives by protecting archaeological artifacts, awareness and appreciation of cultural heritage, and resources and services lost as a result of irretrievable some archaeological artifacts	A well restora spill, c the spi	l presented and ation of archae concentrating o ill area. I recon	complete proposal plogical resources a n storage and disp mmend this planni	for local affected by the lay of artifacts in ng effort.	Fund. compre	Project descr hensive com	iption has b munity plar	een revised ning effort	l to reflect a

		JUNCIL ACT.					EV 00	Total EV
Proj. No. Title	Lead Agency Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	to end Estimate	96 to end Estimate
Reducing Marine Pollution			\$29.6	\$28.3				\$28.3
96115 Sound Waste Management Plan	ADEC PWS Econ DC	2nd yr. 2 yr. project	\$29.6	\$28.3				\$28.3
Project Description	Chief Scientist's Comm	nents		Trustee	Council Act	ion		
The Sound Waste Management Plan is a comprehensive plan to identify and remove the major sources of marine pollution and solid waste in PWS that may be affecting recovery of resources and services injured by the <i>Exxon Valdez</i> Oil Spill. This request completes the first phase planning begun in FY 95. The following phases of the plan will be to implement these solutions using funds from a variety of sources, possibly including the Trustee Council.	Prior work won't come not supplied in 1996. I recovery of injured spe- clear. Future funding r	to fruition if these In theory, this proj cies but those link requests need close	e final funds are ject could speed ages are not e scrutiny.	Fund. J PWS cc for min be affec	Project compl ommunities to imizing mari ting recovery	letes comproductor o determine ine pollution of injured	ehensive pla appropriate n, some of w resources an	anning for strategies which may nd services.
Habitat Improvements			\$674.4	\$560.6	\$800.0	\$600.0	\$0.0	\$1,960.(
96180 Kenai Habitat Restoration & Recreation Enhancement Project	ADNR ADNR	1st yr. 3 yr. project	\$674.4	\$560.6	\$800.0	\$600.0	\$0.0	\$1,960.0
Project Description	Chief Scientist's Comn	nents		Trustee	Council Act	ion		
Project Description Adverse impacts to the banks of the Kenai River total approximately 19 miles of the river's 166 mile shoreline. Included in this total are 5.4 river miles of degraded shoreline on public land. Riparian habitats have been impacted by trampling, vegetation loss and structural development. This riparian zone provides important habitat for pink salmon, sockeye salmon and Dolly Varden, species injured by the <i>Exxon Valdez</i> oil spill. The project's objectives are to restore injured fish habitat, protect fish and wildlife habitat, enhance and direct recreation and preserve the values and biophysical functions that the riparian habitat contributes to the watershed.	Chief Scientist's Comm This is a well presenter information provided h work that is being carr the Exxon Valdez crimi This is a strong project habitats that are impor other fish species of co importance.	nents d proposal, and the nelps to clarify the ied out with funds inal settlement and t aimed at the dire tant to the recover mmercial and reco	e supplementar relationship to provided from d other sources. ct restoration of y of sockeye an reational	Trustee y Fund. ' the ben comme	Council Act This project v efit of sockey rcial and recr	ion will aid rest re salmon an reational im	oration of h nd other fish portance.	abitat for a species of

APPENDIX A: DESCRIPTION OF PROJEC	CTS AND T	RUSTEE C	COUNCIL AC	CTION				PAC	<u>JE 29</u>
Proj. No. Title	Lead Agency	Proposer	Project Duration	FY 96 Request	FY 96 Approved	FY97 Estimate	FY 98 Estimate	FY 99 to end Estimate	Total FY 96 to end Estimate
Information Support				\$42.0	\$42.0	\$0.0	\$0.0	\$0.0	\$42.0
96507 EVOS Symposium Publication	NOAA	NOAA		\$42.0	\$42.0	\$0.0	\$0.0	\$0.0	\$42.0
Project Description	Chief S	Scientist's Con	nments		Trustee	Council Act	ion		
The Exxon Valdez Oil Spill Symposium was held in Februa 1993. The Trustee Council funded publication and distribut of the symposium proceedings in FY94 with a budget of \$102,000. The length of the proceedings is now expected 51% longer than originally planned and the American Fish Society (AFS), the publisher, needs an additional \$35,000 the	rry Chief S ation to be aeries to	Scientist did no	ot review this pro	oposal.	Fund. publish Spill S Counci	This project of and distribu ymposium. F l's public info	completes the proce Publication for the proce	ne funding r edings of th furthers the als.	necessary to ne 1993 Oil Trustee
complete the project.									

See next page for summary of FY 96 Work Plan.

Summary of the FY 96 Work Plan

		FY 96 and Estimated Future Costs							
	Approved				FY 99 to	FY 96 to			
Resource/Service Cluster	in FY 95	FY 96	FY 97	FY 98	End	End			
Pink Salmon	\$2,543.5	\$2,017.5	\$1,268.5	\$775.2	\$163.8	\$4,225.0			
Herring	\$2,103.5	\$1,323.0	\$930.6	\$708.7	\$0.0	\$2,962.3			
Sound Ecosystem Assessment (SEA)	\$4,612.8	\$4,533.4	\$3,600.0	\$2,600.0		\$10,733.4			
SEA Program Related Projects	\$0.0	\$114.8	\$85.0	\$85.0	\$0.0	\$284.8			
Sockeye Salmon Program	\$1,569.7	\$1,286.2	\$391.0	\$0.0	\$0.0	\$1,677.2			
Cutthroat and Dolly Varden Trout	\$134.8	\$229.6	\$200.0	\$100.0	\$0.0	\$529.6			
Marine Mammal Program	\$913.2	\$812.8	\$687.3	\$275.1	\$25.0	\$1,800.2			
Nearshore Ecosystem	\$3,112.4	\$2,989.2	\$1,869.3	\$1,789.4	\$920.0	\$7,567.9			
Seabird/Forage Fish Ecoystem Pjct	\$1,262.9	\$1,800.7	\$1,750.7	\$1,750.7		\$5,302.1			
Seabird/Forage Fish Related	\$617.9	\$610.3	\$200.3	\$83.9	\$458.5	\$1,353.0			
Subsistence	\$1,006.9	\$1,352.2	\$1,226.0	\$957.5	\$1,594.8	\$5,130.5			
Archaeological Resources	\$457.7	\$504.2	\$195.0	\$195.0	\$135.0	\$1,029.2			
Reducing Marine Pollution	\$516.7	\$28.3				\$28.3			
Habitat Improvements	\$286.6	\$560.6	\$800.0	\$600.0	\$0.0	\$1,960.6			
Information Support	\$0.0	\$42.0	\$0.0	\$0.0	\$0.0	\$42.0			
Research Facilities	\$0.0	\$0.0				\$0.0			
Total: Monitoring, Research, and					······································				
General Restoration	\$19,138.6	\$18,204.8	\$13,203.7	\$9,920.5	\$3,297.1	\$44,626.1			
Public Information, Science				.					
Management, and Administration	\$4,208.9	\$3,439.6	\$3,200.0	\$2,800.0	\$7,200.0	16.625.1			
Habitat Protection/Acquisition Support	\$1,111.8	\$2,000.0	\$170.0	\$115.0	\$115.0	\$1,241.8			
Restoration Reserve	\$12,000.0	\$12,000.0	\$12,000.0	\$12,000.0	\$48,000.0	\$84,000.0			
Total, All Activities	\$36,459.3	\$35,644.4	\$28,573.7	\$24,835.5	\$58,612.1	\$129,867.9			