

LEGISLATIVE FINANCE-HOUSE / SENATE FINANCE COMM. FILES 8879

SB 396 cont. 672 268

PROJECT NUMBER: 9 3051	PROJECT TITLE: INJURY TO SEA URCHINS KODIAK	STATUTORY AUTHORITY: AS16	LOCATION: CAA KODIAK
		PROJECT MANAGER: DANA SCHMIDT	PHONE: 486-4791

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			
			AGENCY			GOVERNOR'S BUDGET
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services						
72000 Travel		1.6				
73000 Contractual Services		61.1				
74000 Supplies and Materials						
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		104.4				
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
105 Other: EXXON VALDEZ OIL SPILL		114.2				
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:
 STUDY TITLE INJURY TO IMPACTS ON SEA URCHINS OFF KODIAK ISLAND. GREEN SEA URCHINS SUPPORT A RAPIDLY GROWING COMMERCIAL FISHERY IN KODIAK WITH AN EXVESSEL VALUE OF \$152,000 IN 1988. URCHINS ARE SHIPPED LIVE VIA AIR FREIGHT TO MARKETS IN JAPAN & PROVIDE A HIGH-QUALITY ROE PRODUCT. SEA URCHINS OCCUPY INTERTIDAL & SUBTIDAL HABITATS WHICH MAY BECOME HEAVILY CONTAMINATED BY HYDROCARBONS FROM THE OIL SPILL. THE OIL SPILL COULD CAUSE CONCENTRATIONS OF HYDROCARBONS LETHAL TO URCHINS, RENDER THE ROE PRODUCT UNMARKETABLE, SMOTHER, OR CONTAMINATE THEIR PRIMAR FOOD SOURCE (KELP & ALGAE ON ROCKS), OR RESULT IN REPRODUCTIVE FAILURES DUE TO INJURY TO OVARIES, LOWERED EGG PRODUCTION, OR DEVELOPMENTAL DEFORMITIES IN THE EGGS. FURTHERMORE, OIL MAY BE TOXIC TO LARVAE, & RESULT IN FEWER RECRUITS TO THE FISHERY IN THE FUTURE. DATA FROM THIS STUDY WILL PERMIT QUANTIFICATION OF ANY HARVEST FOREGONE DUE TO THE OIL SPILL.

P2 PROJECT DETAIL

AGENCY FISH AND GAME
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9 305: INJURY TO SEA URCHINS KODIAK

OBJECTIVES

- A. MEASURE RELATIVE ABUNDANCE OF GREEN SEA URCHINS IN OILED & NON-OILED AREAS.
- B. DETERMINE THE TOXICITY OF CRUDE OIL TO GREEN SEA LARVAE.
- C. DETERMINE THE INCIDENCE OF ABNORMALITIES IN OVARIAN DEVELOPMENT IN URCHINS IN OILED & NON-OILED AREAS.
- D. DETERMINE RECRUITMENT OF YOUNG URCHINS IN OILED & NON-OILED AREAS.
- E. DETERMINE THE TOXICITY OF CRUDE OIL TO GREEN SEA LARVAE.



ADDITIONAL
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BRU CRUSTACEAN

COMPONENT WILDLIFE ASSESSMENT

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3 2102 INJURY TO DEER

OBJECTIVES:

- A. QUANTIFY THE NUMBER OF DEAD DEER PER UNIT AREA ON BOTH A HEAVILY OILED AND NON-OILED ISLAND IN THE SOUND.
- B. DETERMINE IF TISSUE AND RUMEN CONTENTS OF DEER ON HEAVILY OILED ISLANDS HAVE BEEN CONTAMINATED BY OIL.
- C. DETERMINE IF DEER FOUND DEAD HAVE RUMEN CONTENTS IN THE LUNGS.
- D. DETERMINE ANY ADVERSE CHANGES IN VIABILITY IN THE DEER. GUIDANCE FOR SUCH DETERMINATIONS IS PROVIDED IN 43 CFF

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ADDITIONAL
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AGENCY FISH AND GAME

BRU G.S.I.A.F.

COMPONENT OIL SPILL ASSESSMENT

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PROJECT NUMBER: 9 3155	PROJECT TITLE: INJURY TO BLACK BEAR	STATUTORY AUTHORITY: AS16	LOCATION: DWA CORDOVA
			PROJECT MANAGER: DON CALKINS
			PHONE: 267-2403

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			
			AGENCY			GOVERNOR'S BUDGET
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services						
72000 Travel						
73000 Contractual Services	0.3					
74000 Supplies and Materials	5.7					
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	6.0					
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1051 Other: EXXON VALDEZ OIL SPILL	6.0					
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:

STUDY TITLE ASSESSMENT OF EXXON VALDEZ OIL SPILL ON BLACK BEAR IN PWS. THERE IS A DENSE POPULATION OF BLACK BEARS IN PWS. THE BEARS ARE OMNIVOROUS, OPPORTUNISTIC FEEDERS NEAR THE TOP OF THE FOOD CHAIN. BLACK BEARS MAY INGEST OIL DIRECTLY BY EATING SLUDGE WASHED ASHORE, GROOMING OILED HAIR, FEEDING ON INTER-TIDAL ORGANISMS, OR SCAVENGING CARCASSES OF MAMMALS & BIRDS KILLED BY OIL OFFSHORE & DEPOSITED ON BEACHES. THEY ALSO MAY CONSUME PLANTS & ANIMALS CONTAMINATED BY SUBLETHAL DOSES OF

OIL. EFFECTS OF OIL INGESTION ARE VARIED & COULD RANGE FROM DEATH FROM ACUTE TOXIC EFFECTS TO LONG-TERM SUPPRESSION OF REPRODUCTION. EXPERIMENTAL WORK WITH OILED POLAR BEARS IN CANADA INDICATED TWO OF 3 ANIMALS DIED FROM ORGAN FAILURE AFTER GROOMING. POPULATION EFFECTS COULD RANGE FROM SHARP, IMMEDIATE DECLINES TO SUBTLE, LONG-TERM REDUCTIONS AS CHRONIC EFFECTS OF HYDROCARBONS STORED IN FAT ARE EXPRESSED.

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9 3155 INJURY TO BLACK BEAR

OBJECTIVES:

- A. DETERMINE MORTALITY RATES OF BLACK BEARS IN HEAVILY OILED HABITATS IN THE SOUND
- B. DETERMINE CHANGES IN PRODUCTIVITY OF FEMALE BLACK BEARS IN THE OIL-CONTAMINATED AREAS.
- C. DOCUMENT USE OF OILED FOODS BY BLACK BEARS THROUGH SCAT EXAMINATION & DIRECT OBSERVATION.
- D. DETERMINE CAUSE OF DEATH OF BEARS IN OIL-CONTAMINATED HABITAT
- E. CALCULATE THE DECLINE OF BLACK BEAR POPULATIONS DUE TO ADVERSE CHANGES IN VIABILITY, RESULTING FROM OIL CONTAMINATION.



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PROJECT NUMBER: 9 3205	PROJECT TITLE: INJURY TO RIVER OTTER & MINK	STATUTORY AUTHORITY: AS16	LOCATION: DWA CORDOVA
			PROJECT MANAGER: IM FARO
			PHONE: 262-9368

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services		155.8	127.4		127.4	
72000 Travel	0.8	12.5	15.7		15.7	
73000 Contractual Services	13.1	171.3	135.7		135.7	
74000 Supplies and Materials	0.6	35.4	12.7		12.7	
75690 Equipment						
75025 Lands/Buildings		18.2	1.2		1.2	
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	14.5	303.2	292.7		292.7	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1051 Other: EXXON VALDEZ OIL SPILL	14.5	393.2	292.7		292.7	
15 Full-Time			3.0		3.0	
16 Part-Time			1.0		1.0	
17 Non Permanent			3.0		3.0	
18 Staff Months			30.5		30.5	

PROJECT DESCRIPTION:
STUDY TITLE ASSESS THE EFFECTS OF THE EXXON VALDEZ OIL SPILL ON RIVER OTTER & MINK IN PWS. RIVER OTTER & MINK ARE EXPECTED TO BE THE TERRESTRIAL MAMMALS MOST AFFECTED BY THE OIL SPILL. BOTH SPECIES FEED IN THE INTERTIDAL ZONE, WHERE MUCH OF THE OIL HAS ACCUMULATED. BOTH SPECIES WERE ABUNDANT IN PWS PRIOR TO THE OIL SPILL. BOTH SPECIES RELY ON MARINE FISHES, CRABS AND OTHER INTERTIDAL INVERTEBRATES FOR FOOD; THEY CAPTURE THIS FOOD IN THE WATER. OILING WILL CAUSE DIRECT MORTALITY & POPULATION

DECLINES. OILING MAY CAUSE LONG-TERM CHANGES IN FORAGE FISH & INVERTEBRATE POPULATIONS THAT WILL DIRECTLY & INDIRECTLY IMPACT THESE 2 MAMMALS. LOST SERVICES RESULTING FROM DIRECT MORTALITY OF RIVER OTTER & MINK AND/OR REDUCED REPRODUCTION INCLUDE REDUCED INTRINSIC VALUES, REDUCED OPPORTUNITIES TO SEE & PHOTOGRAPH RIVER OTTER & MINK, & REDUCED OPPORTUNITIES TO TRAP THESE 2 VALUABLE FURBEARERS.

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AGENCY FISH AND GAME

BRU D. S. J. A. B.

COMPONENT OIL SPILL ASSESSMENT

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PROJECT NUMBER: 9 2258	PROJECT TITLE: RECONNAISSANCE STUDY	STATUTORY AUTHORITY: AS16	LOCATION: EAA VALDEZ
			PROJECT MANAGER: KIM SUNDBERG
			PHONE: 267-2285

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services		32.4	4.5		4.5	
72000 Travel		12.1	3.0		3.0	
73000 Contractual Services		476.1	8.5		8.5	
74000 Supplies and Materials	0.3	15.5	1.5		1.5	
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	0.3	536.1	17.5		17.5	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1008 Other: EXXON VALDEZ OIL SPILL	0.3	536.1	17.5		17.5	
15 Full-Time			1.0		1.0	
16 Part-Time						
17 Non Permanent						
18 Staff Months			4.5		4.5	

PROJECT DESCRIPTION:

STUDY TITLE COMPREHENSIVE ASSESSMENT OF INJURY TO COASTAL HABITATS. COASTAL HABITATS ARE PARTICULARLY VULNERABLE TO OIL SPILL IMPACTS BECAUSE OF THE GROUNDING OF OIL IN THE INTERTIDAL ZONE, THE PERSISTENCE OF OIL IN INTERTIDAL AND SUBTIDAL SEDIMENTS, AND THE EFFECTS OF ASSOCIATED CLEAN-UP ACTIVITIES. ASSESSMENT OF INJURIES TO COASTAL HABITAT RESOURCES AND DETERMINATION OF RATES OF RECOVERY REQUIRES CONSIDERATION OF THE VARIOUS COASTAL GEOMORPHOLOGIC TYPES, THE DEGREE OF OILING, THE AFFECTED BIOTIC ASSEMBLAGES, AND THEIR TROPHIC INTERACTIONS. DIFFERENT CATEGORIES OF COASTAL HABITATS WILL BE TARGETED FOR INTENSIVE STUDY BASED ON IMPORTANCE OF ECOLOGICAL AND HUMAN US SENSITIVITY TO OILING, AND LIKELY PERSISTENCE OF OIL. GUIDANCE FOR THE USE OF CONTROL AREAS IS PROVIDED IN 43 CFR 11.72. DURING PHASE ONE, THE AFFECTED COASTLINE WILL BE CATEGORIZED I TO FIVE REPRESENTATIVE COASTAL HABITAT TYPES, EACH SUBDIVIDED FURTHER INTO AREAS THAT WERE UNOILED, LIGHT, OR MODERATE/HEAVY

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COMPONENT COASTAL ASSESSMENT

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9 225H RECONNAISSANCE STUDY

OBJECTIVES:

PHASE ONE - A. ESTABLISH A STATISTICALLY VALID SITE SELECTION AND SAMPLING STRATEGY AND IDENTIFY POTENTIAL STUDY SITES USING AN EXISTING COASTAL MORPHOLOGY CLASSIFICATION SCHEME AND SHORE-LINE IMPACT SURVEY MAPS. B. GROUND-TRUTH AND ESTABLISH APPROX 150 STUDY SITES.

PHASE TWO - A. ASSESS CHANGES IN CRITICAL TROPHIC LEVELS AND INTERACTIONS, AND ASSESS CHANGES IN TERMS OF QUANTITY, QUALITY, AND COMPOSITION. B. ASSESS INJURY TO BEACH SEDIMENTS AND SOILS.

C. ESTABLISH THE RESPONSE OF THESE PARAMETERS TO VARYING DEGREE OF OILING AND SUBSEQUENT CLEAN-UP PROCEDURES. D. QUANTIFY AND EXTEND IMPACT RESULTS TO THE ENTIRE SPILL AFFECTED AREA. E. ESTIMATE THE RATE OF RECOVERY OF THESE HABITATS AND THEIR POTENTIAL FOR RESTORATION. F. PROVIDE LINKAGES TO OTHER STUDIES BY DEMONSTRATING THE RELATIONSHIPS BETWEEN OIL, TROPHIC LEVEL IMPACTS, AND HIGHER ORGANISMS. G. DETERMINE LEVELS OF TOXICITY RESULTING FROM HYDRO CONTAMINATION IN WATER SEDIMENT COLUMNS.



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PROJECT NUMBER: 9 2351	PROJECT TITLE: PINK/CHUM PRE-EMERGENT FRY SAM	STATUTORY AUTHORITY: AS16	LOCATION: DWA CORDOVA
			PROJECT MANAGER: SAM SHARR PHONE: 424-3212

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services	10.8	60.9	180.5		180.5	
72000 Travel	1.6	3.1	5.1		5.1	
73000 Contractual Services	8.6	35.0	46.2		46.2	
74000 Supplies and Materials	3.7	5.0	8.4		8.4	
75690 Equipment	13.1	28.8	8.2		8.2	
75025 Lands/Buildings		7.0				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	37.8	139.8	248.4		248.4	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
Other: EXXON WILDEZ OIL SPILL	37.8	139.8	248.4		248.4	
15 Full-Time			2.0		2.0	
16 Part-Time	1.0		3.0		3.0	
17 Non Permanent			3.0		3.0	
18 Staff Months	5.0		36.0		36.0	

PROJECT DESCRIPTION:
WILD STOCKS OF SALMON PROVIDE A MAJOR FISHERY IN PWS. THE FRESHWATER SURVIVAL OF PWS SALMON COULD BE ADVERSELY AFFECTED AS A CONSEQUENCE OF THE PRESENCE OF OIL. THIS STUDY WILL DOCUMENT OIL IMPACTS ON SALMON EGGS AND FRY SURVIVAL.

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PROJECT NUMBER: 9 3255	PROJECT TITLE: INJURY TO BROWN BEAR	STATUTORY AUTHORITY: AS16	LOCATION: DWA CORDOVA
			PROJECT MANAGER: DON CALKINS
			PHONE: 267-2203

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services		16.0	24.2		24.2	
72000 Travel	0.3	5.5	2.4		2.4	
73000 Contractual Services	37.7	67.0	19.0		19.0	
74000 Supplies and Materials	5.2	9.1	2.3		2.3	
75690 Equipment						
75025 Lands/Buildings		17.5	3.5		3.5	
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	43.2	115.1	51.4		51.4	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
101 Other: EXXON VALDEZ OIL SPILL	43.2	115.1	51.4		51.4	
15 Full-Time						
16 Part-Time			1.0		1.0	
17 Non Permanent						
18 Staff Months			6.0		6.0	

PROJECT DESCRIPTION:
 STUDY TITLE ASSESSMENT OF EXXON VALDEZ OIL SPILL ON BROWN BEAR POPULATIONS ON THE AK PENINSULA. BROWN BEARS OCCUR ALONG A SECTION OF SHORELINE ON THE SOUTHERN EDGE OF THE AK PENINSULA IMPACTED BY THE EXXON VALDEZ OIL SPILL. IN THE AFFECTED AREA, BROWN BEAR DENSITIES ARE RELATIVELY HIGH. BROWN BEARS ARE OMNIVOROUS, OPPORTUNISTIC FEEDERS, & THEY COULD INGEST OIL DIRECTLY BY EATING SLUDGE WASHED ASHORE, GROOMING OILED HAIR, & SCAVENGING CARCASSES OF MAMMALS & BIRDS KILLED BY OIL. EFFECTS OF OIL INGESTION COULD RANGE OF IMMEDIATE DEATH TO OTHER ADVERSE CHANGES IN VIABILITY INCLUDING LONG-TERM SUPPRESSION OF REPRODUCTION. FOR BEAR POPULATIONS, EFFECTS COULD RANGE FROM SHARP, IMMEDIATE DECLINES TO SUBTLE, LONG-TERM REDUCTIONS.

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PROJECT NUMBER: 9 3303	PROJECT TITLE: HISTOPATHOLOGY ANALYSIS	STATUTORY AUTHORITY: AS16	LOCATION: EAA VALDEZ
			PROJECT MANAGER: ED MEYERS
			PHONE: 465-3577

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services		20.9	10.1		10.1	
72000 Travel	0.4	0.8	1.2		1.2	
73000 Contractual Services	0.7	50.0	96.0		96.0	
74000 Supplies and Materials		1.2	2.2		2.2	
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	1.1	72.9	115.5		115.5	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
105? Other: EAA&N VALDEZ OIL SPILL	1.1	124.1	115.5		115.5	
15 Full-Time			1.0		1.0	
16 Part-Time						
17 Non Permanent						
18 Staff Months			3.0		3.0	

PROJECT DESCRIPTION:
 STUDY TITLE HISTOPATHOLOGY; EXAMINATION OF ABNORMALITIES IN TISSUES FROM BIRDS, MAMMALS, FINFISH & SHELLFISH EXPOSED TO THE SPILLED OIL. HISTOPATHOLOGY IS AN IMPORTANT TOOL USED IN DETERMINING MECHANISMS OF DEATH & SUBLETHAL EFFECTS CAUSED BY INFECTIOUS AGENTS & TOXIC SUBSTANCES. A NUMBER OF HISTOPATHOLOGICAL CONDITIONS ARE KNOWN TO RESULT FROM EXPOSURE TO OIL. EVIDENCE OF THESE CONDITIONS WILL BE DOCUMENTED IN TISSUE SAMPLES TAKEN FROM SELECTED SPECIES OF BIRDS, MAMMALS, FINFISH, & SHELLFISH AS ONE MEANS OF DEMONSTRATING SPILL-RELATED INJURY IN THOSE ORGANISMS. TISSUES DETERIORATE (AUTOLYZE) RAPIDLY. SAMPLES TAKEN FOR HISTOLOGICAL EVALUATION AS PART OF THE DAMAGE ASSESSMENT WILL BE COLLECTED, PRESERVED, AND PROCESSED UNDER STRICT GUIDELINES, AS DETERMINED BY THE QUALITY ASSURANCE PROGRAM.

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9 3303 HISTOPATHOLOGY ANALYSIS

OBJECTIVES:

MEASURE THE INCIDENCE OF HISTOPATHOLOGICAL CONDITIONS & EXTERNAL LESIONS IN SELECTED SPECIES OF BIRDS, MAMMALS, FINFISH, & SHELLFISH COLLECTED IN COLLABORATION WITH RELEVANT BIOLOGICAL FIELD INVESTIGATIONS.



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PROJECT NUMBER: 9 3359	PROJECT TITLE: MAPPING OF DAMAGE ASSESSMENT	STATUTORY AUTHORITY: AS16	LOCATION: EAA VALDEZ
			PROJECT MANAGER: DIANE LYLES
			PHONE: 762-2437

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY		ACENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services		188.0	242.3		242.3	
72000 Travel	1.0	19.7	8.8		8.8	
73000 Contractual Services		34.2	47.0		47.0	
74000 Supplies and Materials		73.2	60.0		60.0	
75690 Equipment			84.0		84.0	
75025 Lands/Buildings		269.3				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		576.4	442.3		442.3	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1051 Other: EXXON VALDEZ OIL SPILL	1.0	576.4	442.3		442.3	
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:
 STUDY TITLE MAPPING OF DAMAGE ASSESSMENT DATA & INFORMATION. THE TRUSTEE AGENCIES NEED A SERIES OF MAPS THAT DEPICT OIL IMPACT DATA & SHORE TYPES OVER THE GEOGRAPHIC AREA INVOLVED. THESE MAPS WILL BE USED TO IDENTIFY CATEGORIES OF OIL IMPACTS FOR DIFFERENT SHORELINE TYPES, & TO DIRECT FIELD OPERATIONS IN RELATION TO THAT INFORMATION. THESE MAPS WILL BE UPDATED PERIODICALLY & USED AS A COMMON BASIS FOR PRESENTING INFORMATION & RESULTS FROM EACH OF THE DAMAGE ASSESSMENT STUDY CATEGORIES. A GEOGRAPHIC INFORMATION SYSTEM WILL BE SELECTED & IMPLEMENTED TO FACILITATE THE MANAGEMENT & PRESENTATION OF ALL INFORMATION. THIS IS AN RSA WITH DNR.

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9 3359 MAPPING OF DAMAGE ASSESSMENT

OBJECTIVES:

- A. DEVELOP A SINGLE MAP FORMAT DEPICTING THE DEGREE OF (INSHORE OILING & SHORE TYPE FOR THE ENTIRE REGION AFFECTED BY THE OIL SPILL.
- B. PRODUCE AT LEAST 1 SET OF THESE MAPS FOR EACH OF THE PARTICIPATING AGENCIES BY JUNE 19, 1989.
- C. CREATE & MAINTAIN, THROUGHOUT THE DAMAGE ASSESSMENT PROCESS, A DATA BASE OF DATA PERTINENT TO THE OVERALL DAMAGE ASSESSMENT PROCESS, IN A WAY THAT IS ACCESSIBLE TO ALL OF

THE PARTICIPATING AGENCIES.



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PROJECT NUMBER: 9 3402	PROJECT TITLE: PWS DOLLY VARDEN	STATUTORY AUTHORITY: AS16	LOCATION: EBA ANCHORAGE
		PROJECT MANAGER: KELLY MEPLER	PHONE: 267-2218

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services	73.0	184.5	215.4		215.4	
72000 Travel	4.8	7.0	8.0		8.0	
73000 Contractual Services	82.8	55.9	38.6		38.6	
74000 Supplies and Materials	50.7	41.7	20.0		20.0	
75690 Equipment	44.3					
75025 Lands/Buildings		0.8				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	255.6	289.9	282.0		282.0	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1051 Other: EXXON VALDEZ OIL SPILL		282.0	282.0		282.0	
1052 OIL HAZARDOUS WASTE RESPNS.	255.6					
15 Full-Time			2.0		2.0	
16 Part-Time			2.0		2.0	
17 Non Permanent			9.0		9.0	
18 Staff Months			61.0		61.0	

PROJECT DESCRIPTION:
 STUDY TITLE INJURY TO DOLLY VARDEN CHAR & CUTTHROAT TROUT IN PWS. CRUDE OIL HAS CONTAM. THE NEARSHORE & ESTUARINE WATERS IN PWS INHABITED BY JUVENILE & ADULT DOLLY VARDEN & CUTTHROAT TROUT. BIOASSAYS HAVE SHOWN THAT THE PRESENCE OF CRUDE OIL IN LOW CONCENTRATIONS CAN AFFECT THE SURVIVAL OF THE PREY OF THESE SPECIES. HIGH CONCENTRATIONS MAY DIRECTLY IMPAIR REPRODUCTION, GROWTH & SURVIVAL RATES OF DOLLY VARDEN & CUTTHROAT TROUT AS WELL. DOLLY VARDEN & CUTTHROAT TROUT IN THE SOUND ARE CAUGHT IN RECREATIONAL FISHERIES. RECREATIONAL FISHERS IN PWS EXPENDED OVER 8,000 ANGLER-DAYS IN 1987. REDUCTION IN ABUNDANCE OF THESE SPECIES COULD SERIOUSLY JEOPARDIZE UNIQUE STOCKS OF FISH ANY REDUCTION IN ABUNDANCE DUE TO THE OIL SPILL COULD CAUSE LOSS OF CATCH AND, ULTIMATELY, LOSSES IN REVENUE RELATED TO THESE RESOURCES.

P2 PROJECT DETAIL

AGENCY FISH AND GAME
 BRU 1123
 COMPONENT PWS DOLLY VARDEN

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 Revised Date:

9 3402 PWS DOLLY VARDEN.

OBJECTIVES:

- A. COMPARE SURVIVAL RATES OF JUVENILE & ADULT DOLLY VARDEN CHAR & CUTTHROAT TROUT WITHIN OILED & NON-OILED AREAS OF THE SOUND DURING 1989-90.
- B. COMPARE SURVIVAL RATES OF SMOLTING DOLLY VARDEN CHAR & CUTTHROAT TROUT FROM SPAWNING STREAMS WITHIN OILED AND NONOILED AREAS OF THE SOUND.
- C. ASSESS EXPLOITATION RATES IN RECREATIONAL FISHERIES OF DOLLY VARDEN CHAR & CUTTHROAT TROUT OVERWINTERING IN OILED & NON-

OILED AREAS.

P:

**ADDITIONAL
EXPLANATION
FORM**

AGENCY FISH AND GAME
BRU C.S.I.A.F.
COMPONENT OIL SPILL ASSESSMENT

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Revised Date: (09/01/90)

PROJECT NUMBER: 9 3405	PROJECT TITLE: PEALES PEREGRIN FALCONS	STATUTORY AUTHORITY: AS16	LOCATION: EBA ANCHORAGE
			PROJECT MANAGER: EFF HUGHES/CALVIN PHONE: 267-2201

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services		50.7	55.0		55.0	
72000 Travel	0.3	4.7	8.1		8.1	
73000 Contractual Services	1.0	64.5	99.8		99.8	
74000 Supplies and Materials	0.6	2.7	2.5		2.5	
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	1.9	122.6	166.0		166.0	
1002 Federal Receipts	1.9	122.6	166.0		166.0	
1004 General Fund						
1007 I-A Receipts						
Other:						
15 Full-Time			1.0		1.0	
16 Part-Time						
17 Non Permanent						
18 Staff Months			11.0		11.0	

PROJECT DESCRIPTION:
 SURVEYS IN PRINCE WILLIAM SOUND AND ALONG THE OUTSIDE COAST OF THE KENAI PENINSULA HAVE DOCUMENTED A CONSIDERABLE POPULATION OF PEALE'S PEREGRIN FALCONS. THESE FALCONS, THOUGHT TO BE YEAR-ROUND RESIDENTS OF THE AREA FORAGING ON SEASONALLY ABUNDANT PREY RANGING IN SIZE FROM WARBLERS TO DUCKS, COULD RECEIVE DIRECT AND INDIRECT INJURY FROM EXPOSURE TO SPILLED OIL. BIRDS OF PREY THAT BECAME OILED COULD BE TAKEN BY FALCONS. OIL TRANSFERRED TO PEREGRIN FALCONS COULD AFFECT THE POPULATION THROUGH

1) COATING OF FEATHERS AND THE RESULTANT LOSS OF INSULATION AND FLIGHT CAPABILITIES, 2) REDUCED REPRODUCTION DUE TO INJECTION AND THE RESULTANT EFFECTS ON THE PHYSICAL CONDITION OF ADULTS, 3) REDUCED REPRODUCTION DUE TO TRANSFER OF OIL FROM FEATHERS OF INCUBATING ADULT TO EGGS., 4) MORTALITY OF INDIVIDUALS DUE TO TOXICITY.

P2	PROJECT DETAIL
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AGENCY FISH AND GAME

BRU OIL SPILL ASSESSMENT

COMPONENT OIL SPILL ASSESSMENT

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PROJECT NUMBER: 9 3455	PROJECT TITLE: GLAUCOUS WINGED GULLS	STATUTORY AUTHORITY: AS16	LOCATION: EAA VALDEZ
			PROJECT MANAGER: PHONE: JAM PATTEN/CALKINS 267-2179

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services		55.9	104.0		104.0	
72000 Travel	3.0	15.0	40.0		40.0	
73000 Contractual Services	4.3	13.1	17.0		17.0	
74000 Supplies and Materials	2.6	10.1	4.0		4.0	
75690 Equipment	13.3		6.0		6.0	
75025 Lands/Buildings		20.6				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	23.2	114.7	171.0		171.6	
1002 Federal Receipts	23.2	114.7	171.0		171.6	
1004 General Fund						
1007 I-A Receipts						
Other:						
15 Full-Time			3.0		3.0	
16 Part-Time			1.0		1.0	
17 Non Permanent			1.0		1.0	
18 Staff Months			25.0		25.0	

PROJECT DESCRIPTION:
 ABOUT 50,000 GLAUCOUS WINGED GULLS USE PRINCE WILLIAM SOUND IN THE SUMMER AND LESSER NUMBERS ARE PRESENT YEAR ROUND. THEY SURVIVE PRIMARILY BY SCAVENGING AND FORAGING IN LITTORAL AND INTERTIDAL AREAS. SINCE THE OIL SPILL, A HIGH PERCENTAGE OF GULLS OBSERVED HAVE BEEN OILED. SMALL AMOUNTS OF INGESTED CRUDE OIL INHIBIT GROWTH AND AFFECT OSMEREGULATION (SALT GLAND) HEPATIC, AND ADRENAL GLAND ACTIVITY. EXSISTING LITERATURE ALSO DEMONSTRATES THAT MINUTE QUANTITIES OF NORTH SLOPE CRUDE OIL ARE TOXIC TO EGG EMBRYOS. TRANSFER OF OIL FROM ADULT GULL BREAST FEATHERS TO EGGS WILL LIKELY CAUSE EMBRYO MORTALITY AND A SIGNIFICANT DECLINE IN POPULATION PRODUCTIVITY. THE EGG ISLAND COLONY, LOCATED ABOUT 15 MILES SOUTH FROM THE SOUND, IS THE LARGEST GLAUCOUS WINGED GULL COLONY IN THE WORLD (WITH 10,000 BREEDING PAIRS)

P2	PROJECT DETAIL
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AGENCY _____
 BRU _____
 COMPONENT _____

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PROJECT NUMBER: 9 3505	PROJECT TITLE: SEA DUCKS	STATUTORY AUTHORITY: AS16	LOCATION: EAA VALDEZ
			PROJECT MANAGER: PHONE: SAM PATTEN/CALKINS 267-2179

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services		40.3	33.2		33.2	
72000 Travel	0.2	40.0	18.0		18.0	
73000 Contractual Services		53.1	48.2		48.2	
74000 Supplies and Materials		12.9	12.9		12.9	
75690 Equipment						
75025 Lands/Buildings		26.3	6.0		6.0	
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	0.2	172.6	118.3		118.3	
1002 Federal Receipts	0.2	172.6	118.3		118.3	
1004 General Fund						
1007 I-A Receipts						
Other:						
15 Full-Time			2.0		2.0	
16 Part-Time						
17 Non Permanent			1.0		1.0	
18 Staff Months			8.0		8.0	

PROJECT DESCRIPTION:
 PRINCE WILLIAM SOUND IS THE WINTERING AREA FOR OVER 25,000 SEA DUCKS. PRIMARILY BARROW'S GOLDENEYES, THREE SPECIES OF SCOTERS, HARLEQUINS, AND OLDSQUAWS. MORE THAN 160,000 SEA DUCKS WINTER IN THE NEARSHORE WATERS OF KODIAK AND NEIGHBORING ISLANDS. IN THE SPRING, THE SOUND IS A MAJOR MIGRATION AREA FOR SEA DUCKS. IN THE SUMMER IN BOTH AREAS THE NUMBERS OF SOME SPECIES ARE LOW, WHILE REMAINING HIGH TO MODERATE FOR OTHERS. SEA DUCKS ARE HEAVILY DEPENDANT ON INTERTIDAL AND SUBIDAL MARINE INVERTEBRATES. THE CRUDE OIL SPILLED FROM THE EXXON VALDEZ MAY CAUSE SEVERE DAMAGE TO MARINE INVERTIBRATES THAT SUPPORT SEA DUCKS YEAR ROUND, AND BIOACCUMULATION OF POLLUTANT IN THIS FOOD CHAIN MAY RESULT IN UPTAKE OF HYDROCARBONS BY SEA DUCKS OVER A LONG PERIOD OF TIME. THE STUDY EMPHASIZED WILL B IN PRINCE WILLIAM SOUND, WHERE OIL IMPACTS HAVE BEEN GRATEST.

P2 PROJECT DETAIL

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 BRU _____
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9 3505 SEA DUCKS

OBJECTIVES:

- A. DEVELOPE A DATA BASE DESCRIBING FOOD HABITS OF SEA DUCKS. SYNTHESIZE DATA ON HYDROCARBON LEVELS IN LOCAL MARINE INVERTEBRATES AND IN GUT SAMPLES FROM SEA DUCKS.
- B. DETERMINE TOTAL HYDROCARBON INTAKE BY SEA DUCKS BY MEASURING CONCENTRATIONS IN TISSUES AND FLUIDS, AND DETERMINE PYSIOLOGICAL AND HISTOLOGICAL EFFECTS OBSERVED IN COLLECTED BIRDS.



ADDITIONAL
EXPLANATION
FORM

AGENCY FISH AND GAME

BRU U.S. I. A. F.

COMPONENT WILDLIFE ASSESSMENT

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PROJECT NUMBER: 9 3605	PROJECT TITLE: STELLER SEA LIONS	STATUTORY AUTHORITY: AS16	LOCATION: EAA VALDEZ
			PROJECT MANAGER: PHONE: RON CALKINS 267-2403

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR ~ FY 91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services	1.7	80.1	28.5		28.5	
72000 Travel	2.3	7.8	5.0		5.0	
73000 Contractual Services	14.6	130.5	44.0		44.0	
74000 Supplies and Materials	4.8	9.4	2.0		2.0	
75690 Equipment						
75025 Lands/Buildings		6.0	1.2		1.2	
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	23.4	233.8	80.7		80.7	
1002 Federal Receipts	23.4	233.8	80.7		80.7	
1004 General Fund						
1007 I-A Receipts						
Other:						
15 Full-Time			1.0		1.0	
16 Part-Time			1.0		1.0	
17 Non Permanent						
18 Staff Months			8.0		8.0	

PROJECT DESCRIPTION:
 SEVERAL THOUSAND STELLER SAE LIONS WERE PRESENT IN PRINCE WILLIAM SOUND AND ADJOINING AREAS AT THE TIME OF THE OIL SPILL, AND REMAINED IN THE CONTAMINATION. SPECIFIC EFFECTS OF OIL ON SEA LIONS ARE UNKNOWN BUT ARE HYPOTHESIZED TO INCLUDE MORTALITY DISTURBANCE, DISPLACEMENT, INCREASED STRESS, BEHAVIORAL CHANGES AND/OR LOSS OR REDUCTION IN PREV. MORTALITY COULD OCCUR IMMEDIATELY OR BE DELAYED, BOTH AMONG ANIMALS THAT USE THE SOUND AND IN THE REST OF THE POPULATION ACROSS THE ENTIRE NORTHERN GULF OF ALASKA. STELLER SEA LIONS IN THE GULF ARE CURRENTLY IN A STATE OF DECLINE AND HAVE BEEN PROPOSED AS DEPLETED UNDER THE MARINE MAMMAL PROTECTION ACT. ANY ADDITIONAL MORTALITY OR REDUCTION IN PRODUCTIVITY IS OF GREAT CONCERN.

P2 PROJECT DETAIL

AGENCY FISH AND GAME
 BRU _____
 COMPONENT OIL SPILL ASSESSMENT

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9 3605 STELLER SEA LIONS

OBJECTIVES:

- A. ESTIMATE THE NUMBER OF SEA LIONS USING ROOPERIES AND HAULOUTS BETWEEN CAPE ST. ELIAS AND HOWITT ISLAND.
- B. DOCUMENT PREMATURE BIRTHING RATE AT STUDY SITES. ESTIMATE PUP PRODUCTION AND MORTALITY ON ROOLERIES IN THE NORTHERN GULF.
- C. DETERMINE IF PRESENCE OF HYDROCARBON CONTAMINATION AND HISTOPATHOLOGICAL EFFECTS IN STELLER SEA LIONS.
- D. DETERMINE EFFECTS OF SPILL ON GROWTH AND SURVIVAL OF STELLER

SEA LIONS.



ADDITIONAL
EXPLANATION
FORM

AGENCY FISH AND GAME

BRU U.S.F.W.S.

COMPONENT WILDLIFE SPILL ASSESSMENT

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9 3655 HARBOR SEALS

OBJECTIVES:

- A. EVALUATE EFFECTS OF THE OIL SPILL ON THE DISTRIBUTION OF HARBOR SEALS AT HAULOUTS WITHIN THE SOUND (DURING PUPPING AND MOULTING SEASONS).
- B. EVALUATE TRENDS IN HARBOR SEAL NUMBERS IN OILED AND NON-OILED PART OF THE SOUND.
- C. DETERMINE WHETHER CONTACT WITH OIL AFFECTS REPRODUCTIVE SUCCESS AND PUP SURVIVAL IN HARBOR SEALS.
- D. EXAMINE TISSUES OF SEALS FOR CONTAMINATION AND

HISTOPATHOLOGIC EFFECTS.



ADDITIONAL
EXPLANATION
FORM

AGENCY FISH AND GAME

BRU INDIAN

COMPONENT FULL AGREEMENT

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PROJECT NUMBER: 9 3701	PROJECT TITLE: PWS CLAMS	STATUTORY AUTHORITY: AS16	LOCATION: DWA CORDOVA
			PROJECT MANAGER: PHONE: CHARLES TROWBRIDGE 424-3212

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services	10.9	20.4	44.5		44.5	
72000 Travel		3.1	4.7		4.7	
73000 Contractual Services	17.1	46.5	66.4		66.4	
74000 Supplies and Materials	0.7	2.4	3.2		3.2	
75690 Equipment			1.5		1.5	
75025 Lands/Buildings		1.9				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	28.7	74.3	120.3		120.3	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1008 Other: EXAMINER'S OIL SPILL	28.7	74.3	120.3		120.3	
15 Full-Time						
16 Part-Time						
17 Non Permanent	1.0		4.0		4.0	
18 Staff Months			12.0		12.0	

PROJECT DESCRIPTION:
 STUDY TITLE INJURY TO PWS CLAMS. BIVALVE MOLLUSKS ARE AN IMPORTANT COMPONENT OF THE FOOD CHAIN, AND THEY SUPPORT SUBSISTENCE AND SPORT FISHERIES IN PWS. THE PRINCIPAL SPECIES EXAMINED DURING THIS STUDY WILL INCLUDE THE COCKLE, LITTLENECK CLAM, AND BUTTER CLAM. THIS STUDY IS DESIGNED TO DETERMINE INJURY TO PWS BIVALVE RESOURCES AND THEIR HABITATS.

**P2 PROJECT
DETAIL**

AGENCY FISH AND GAME
 BRU _____
 COMPONENT _____

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9 3701 PWS CLAMS

OBJECTIVES:

- A. DETERMINE LEVEL OF HYDROCARBONS IN BIVALVES AT BEACH SITES WITH NO OILING, MODERATE OILING, & HEAVY OILING
- B. DETERMINE THE EFFECTS OF OIL CONTAMINATION ON TISSUE & ORGANS OF BIVALVES.
- C. DETERMINE BIVALVE MORTALITY AT EACH SITE.
- D. DETERMINE GROWTH RATES OF LITTLENECK CLAMS.
- E. DOCUMENT ADVERSE CHANGES IN NUMBERS OF YOUNG-OF-THE-YEAR CLAMS



ADDITIONAL
EXPLANATION
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AGENCY FISH AND GAME

BRU BRU

COMPONENT FISH AND GAME

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PROJECT NUMBER: 9 3753	PROJECT TITLE: PWS OYSTERS	STATUTORY AUTHORITY: AS16	LOCATION: AWA JUNEAU
			PROJECT MANAGER: MIKE KAILL
			PHONE: 465-4160

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services		24.9				
72000 Travel		10.4	14.0		14.0	
73000 Contractual Services		26.1	39.1		39.1	
74000 Supplies and Materials		8.1	6.9		6.9	
75690 Equipment			3.1		3.1	
75025 Lands/Buildings		8.0				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		79.5	63.1		63.1	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1051 Other: EXXON VALDEZ OIL SPILL		79.5	63.1		63.1	
15 Full-Time			1.0		1.0	
16 Part-Time						
17 Non Permanent						
18 Staff Months			6.0		6.0	

PROJECT DESCRIPTION:
STUDY TITLE PWS OYSTERS. OYSTERS HAVE BEEN USED AS AN INDICATOR SPECIES IN OIL SPILL IMPACT ASSESSMENTS ELSEWHERE IN THE WORLD. OYSTERS ACCUMULATE PETROLEUM HYDROCARBONS IN THEIR TISSUES; HOWEVER, THEY DO NOT POSSESS THE ENZYME SYSTEM NECESSARY TO METABOLIZE HYDROCARBONS. THEREFORE, DEPURATION & RETURN TO CONTROL LEVELS MAY EXTEND OVER A LONG PERIOD OF TIME, AS OBSERVED 7 YEARS AFTER THE GROUNDING OF THE AMOCO CADIZ. THERE ARE 3 OYSTER FARMS IN THE SOUND, ONE OF WHICH PRODUCES 1.5

MILLION ANIMALS ANNUALLY. ONE FARM, AT PERRY ISLAND, IS WITHIN THE OIL SPILL. ANOTHER, AT FAIRMONT ISLAND, IS NEAR THE SPILL AREA. OYSTER TISSUES FROM THESE SITES WILL SERVE AS GOOD INDICATORS OF OIL CONTAMINATION.

P2	PROJECT DETAIL
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AGENCY FISH AND GAME

BRU

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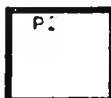
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9 3753 PWS OYSTERS

OBJECTIVES:

- A. DETERMINE THE EFFECTS OF OIL CONTAMINATION ON PACIFIC OYSTER GROWTH AND SURVIVAL.
- B. DETERMINE THE EFFECT OF OIL CONTAMINATION ON PHYSIOLOGY OF PACIFIC OYSTERS.
- C. MEASURE RATES OF DEPURATION AND RECOVERY OF THE SITE(S) IMPACTED BY THE OIL SPILL.

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FORM**

AGENCY FISH AND GAME

BRU U.S. F.A.W.

COMPONENT WILDLIFE & SEASONS

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PROJECT NUMBER: 9 3801	PROJECT TITLE: CLAMS OUTSIDE PWS	STATUTORY AUTHORITY: AS16	LOCATION: CVB HOMER
			PROJECT MANAGER: ALAN DAVIS
			PHONE: 235-8191

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services	9.5	43.8	61.5		61.5	
72000 Travel		7.1	8.2		8.2	
73000 Contractual Services		67.3	109.2		109.2	
74000 Supplies and Materials	0.1	6.3	3.2		3.2	
75690 Equipment	8.1		2.0		2.0	
75025 Lands/Buildings		3.9				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	17.7	128.4	184.1		184.1	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
105 Other: EXXON VALDEZ OIL SPILL	18.0	128.4	184.1		184.1	
15 Full-Time						
16 Part-Time						
17 Non Permanent			4.0		4.0	
18 Staff Months			18.0		18.0	

PROJECT DESCRIPTION:
 STUDY TITLE INJURY TO CLAMS OUTSIDE PWS. BIVALVE MOLLUSKS ARE AN IMPORTANT COMPONENT OF THE FOOD CHAIN & SUPPORT SUBSISTENCE AND SPORT FISHERIES IN RESURRECTION BAY, LCI, KODIAK ISLAND/SHELIKOF STRAIT, & THE ALASKA PENINSULA. THE PRINCIPALE SPECIES EXAMINED IN THIS STUDY WILL INCLUDE THE COCKLE, LITTLENECK CLAM, BUTTER CLAM, AND RAZOR CLAM. THIS STUDY IS DESIGNED TO ASSESS THE EFFECTS OF THE EXXON VALDEZ OIL SPILL ON BIVALVE RESOURCES IN SELECTED AREAS OUTSIDE PWS.

P2	PROJECT DETAIL
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AGENCY FISH AND GAME

BRU _____

COMPONENT _____

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9 3850 SCALLOPS

OBJECTIVES:

- A. ASSESS THE EFFECTS OF OIL CONTAMINATION ON SCALLOP GROWTH & SURVIVAL.
- B. ASSESS THE EFFECTS OF OIL CONTAMINATION ON HYDROCARBON CONTENT & PHYSIOLOGY.
- C. MONITOR RATES OF DEPURATION & RECOVERY BY SCALLOPS.



ADDITIONAL
EXPLANATION
FORM

AGENCY

FISH AND GAME

BRU

U.S. F.W.B.

COMPONENT

COAST GUARD

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PROJECT NUMBER: 9 3909	PROJECT TITLE: INJURY TO AIR-DEC. RSA #5	STATUTORY AUTHORITY: AS16	LOCATION: AWA JUNEAU
		PROJECT MANAGER: GERRY GUIAV	PHONE: 465-2670

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services		7.0				
72000 Travel		4.0				
73000 Contractual Services		201.0				
74000 Supplies and Materials		1.0				
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		213.0				
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1051 Other: EXXON VALDEZ OIL SPILL		213.0				
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:

THE HIGH LEVELS OF VOCs RELEASED INTO THE ATMOSPHERE BY OIL FROM THE EXXON VALDEZ HAVE ADVERSE HEALTH IMPLICATIONS FOR MAMMALS AND BIRDS IN THE SPILL ZONE. MODELING THE EXPECTED AMBIENT VOC CONCENTRATIONS AGAINST DISTANCE AND TIME WILL ALLOW PREDICTION OF POSSIBLE UNHEALTHFUL CONDITIONS AS MEASURED BY STANDARDS ESTABLISHED BY THE NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH. VOC CONCENTRATION RESULTS MAY BE APPLICABLE TO ASSESSING INJURY TO A VARIETY OF OTHER ORGANISMS RANGING FROM MARINE MAMMALS WITH DOCUMENTED LUNG DAMAGE TO VASCULAR PLANTS. THIS IS AN RSA WITH DEC.

**P2 PROJECT
DETAIL**

AGENCY FISH AND GAME

BRU

COMPONENT COASTAL ASSESSMENT

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9 3909 INJURY TO AIR-DEC. RSA #1

OBJECTIVES:

- A. MODEL THE AMBIENT VOC CONCENTRATIONS AS A FUNCTION OF TIME AND DISTANCE FROM BLIGH REEF.
- B. ESTABLISH "ZONES OF CONCENTRATION", AREAS WITH PREDICTED VOC CONCENTRATION EXCEEDING FEDERAL HEALTH STANDARDS.
- C. MODEL LOSS RATES OF VOCS FROM CRUDE OIL TO ASSIST IN MASS BALANCE CALCULATIONS AND TO VERIFY AMBIENT AIR MODELS.



**ADDITIONAL
EXPLANATION
FORM**

AGENCY _____

FISH AND GAME

BRU _____

BLIGH REEF

COMPONENT _____

AIR QUALITY ASSESSMENT

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Revised Date: 08/23/90

PROJECT NUMBER: 9 3955	PROJECT TITLE: SMALL MAMMALS OUTSIDE PWS	STATUTORY AUTHORITY: AS 16	LOCATION: EBA ANCHORAGE
		PROJECT MANAGER: DON CALKINS	PHONE: 267-2203

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			
			AGENCY			GOVERNOR'S BUDGET
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services	0.3					
72000 Travel	0.1					
73000 Contractual Services						
74000 Supplies and Materials						
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	0.4					
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
Other: ERREN VALDEZ OIL SPILL	0.4					
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:

THIS PROJECT WILL ASSESS THE INJURY TO HARBOR SEALS IN PWS AND ADJACENT AREAS. HARBOR SEALS ARE ONE OF THE MOST ABUNDANT SPECIES OF MARINE MAMMALS IN PWS. THEY ARE USED FOR SUBSISTENCE AND HANDICRAFT PURPOSES BY NATIVE RESIDENTS IN THE AREA. OIL INTRODUCED INTO THE MARINE ENVIRONMENT MAY INJURE HARBOR SEALS DIRECTLY OR ALTER THE BIOLOGICAL AND PHYSICAL SUITABILITY OF THEIR HABITAT. THERE IS POTENTIAL FOR INDIVIDUAL AND POPULATION IMPACTS THROUGH TOXICOLOGIC AND FOOD-CHAIN MECHAN-

ISMS. RESPONSES OF SEALS TO OILING OF HAULOUT SITES AND CONSEQUENCES OF HAULOUT BEHAVIOR CHANGES ARE UNKNOWN. SEAL PUPS BORN IN MAY AND JUNE MAY BE PARTICULARLY SUSCEPTIBLE TO INJURY OR DEATH UPON EXPOSURE TO OIL. SEALS THAT HAVE CONTACTED OIL OR EATEN OIL-CONTAMINATED PREY MAY NOT BE SUITABLE FOR HUMAN CONSUMPTION.

P2	PROJECT DETAIL
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AGENCY _____
 BRU _____
 COMPONENT _____

FY 91

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Revised Date: _____

9 4009 MINK REPRODUCTION

OBJECTIVES:

- A. DETERMINE THE EFFECT OF INGESTED OIL HYDROCARBONS ON MINK REPRODUCTION.
- B. DETERMINE THE PHASE IN THE REPRODUCTION CYCLE MOST SENSITIVE TO HYDROCARBON EFFECTS.
- C. DETERMINE THE LIKELY INJURY TO MINK POPULATIONS USING THE IMPACTS TO REPRODUCTION OBSERVED IN THE LABORATORY STUDIES.

F2	ADDITIONAL EXPLANATION FORM
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AGENCY	FISH AND GAME
BRU	0.5.1.4.1
COMPONENT	FISH AND GAME

FY 91

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Revised Date:	000001 90		

PROJECT NUMBER: 9 9004	PROJECT TITLE: BLACK BEAR	STATUTORY AUTHORITY: AS16	LOCATION: EBA ANCHORAGE
			PROJECT MANAGER: PHONE: NON-CALKINS 267-2403

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services						
72000 Travel						
73000 Contractual Services		150.0	300.0		300.0	
74000 Supplies and Materials						
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		150.0	300.0		300.0	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
105 Other: EXXON VALDEZ OIL SPILL		150.0	300.0		300.0	
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:
 BLACK BEARS. THIS NEW STUDY WILL BE AN EXTENTION OF THE ORIGINAL PROJECT THAT APPEARS IN THE NATURAL RESOURCES DAMAGE ASSESSMENT PLAN. BECAUSE OF THE LOGISTICAL PROBLEMS THE ORIGINAL PROJECT WAS NOT DONE AND IT IS HOPED THAT NEW APPROACHES MAY BE DEVELOPED TO SHOW INJURY TO BLACK BEARS.

P2	PROJECT DETAIL
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AGENCY FISH AND GAME

BRU

COMPONENT

FY 91

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Revised Date:

PROJECT NUMBER: 9 9006	PROJECT TITLE: DEER HARVEST SURVEY	STATUTORY AUTHORITY: AS16	LOCATION: EBA ANCHORAGE
		PROJECT MANAGER: PHONE: DON CALKINS 267-2403	

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services		15.0				
72000 Travel		3.0				
73000 Contractual Services		49.0	30.0		30.0	
74000 Supplies and Materials						
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		67.0	30.0		30.0	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
100 Other: EXXON VALDEZ OIL SPILL		67.0	30.0		30.0	
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:
 DEER HARVEST SURVEY: THIS NEW STUDY WILL BE USED IN CONJUNCTION WITH THE EXISTING DEER PROJECT AND TO TIE IN WITH ECONOMIC USE STUDIES ON LOST RECREATION OPPORTUNITIES. A MAIL OUT SURVEY WOULD BE CONDUCTED OF HUNTERS WHO PARTICIPATED IN DEER HUNTING IN THE 1989 SEASON. THE SURVEY FORM WOULD BE DEVELOPED WITH AN ECONOMIST TO PROVIDE DATA ON A SHIFT OF USE PATTERNS, LOST OPPORTUNITIES, AND CHANGE IN HUNTER SUCCESS OF PRINCE WILLIAM SOUND AND THE KODIAK AREA DEER HUNTERS AS A RESULT OF THE EXXON VALDEZ OIL SPILL.

P2 PROJECT DETAIL

AGENCY FISH AND GAME
 BRU _____
 COMPONENT OIL SPILL ASSESSMENT

FY 91

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 Revised Date: _____

PROJECT NUMBER: 9 9008	PROJECT TITLE: KODIAK SOCKEYE OVER-ESCAPEMENT	STATUTORY AUTHORITY: AS16	LOCATION: CAA KODIAK
			PROJECT MANAGER: JANA SCHMIDT
			PHONE: 486-4791

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services		70.0	153.8		153.8	
72000 Travel		1.0	1.0		1.0	
73000 Contractual Services		27.0	7.5		7.5	
74000 Supplies and Materials		24.3	14.3		14.3	
75690 Equipment						
75025 Lands/Buildings		5.0	1.0		1.0	
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		127.3	177.6		177.6	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
105: Other: EXXON VALDEZ OIL SPILL		127.3	177.6		177.6	
15 Full-Time			2.0		2.0	
16 Part-Time						
17 Non Permanent			7.0		7.0	
18 Staff Months			42.5		42.5	

PROJECT DESCRIPTION:

THIS NEW PROJECT DEALS WITH OVER ESCAPEMENT OF SOCKEYE SALMON INTO SYSTEMS WHICH IS IN EXCESS OF ESTABLISHED ESCAPEMENT GOALS BECAUSE MANY COMMERCIAL FISHING AREAS WERE CLOSED OR MODIFIED AS A RESULT OF THE EXXON OIL SPILL. THERE IS A CONCERN THAT THIS OVER ESCAPEMENT MAY PRODUCE DIMINISHED RETURNS OR IMPACT FUTURE SOCKEYE SALMON RETURNS BY HAVING POTENTIALLY LARGE NUMBERS OF REARING JUVENILES IN LAKE SYSTEMS. THE EFFECT OF THE LARGE NUMBER OF DECOMPOSING

CARCASSES HAS ON THE NUTRIENT LEVEL OF NURSERY LAKES, AND CORRESPONDING BIOLOGICAL PARAMETERS OF THE FISHERIES STOCKS. THIS PROJECT WILL INTREGATE DATA FROM SIMILAR PROJECTS ON THE IMPACTS OF SOCKEYE SALMON REARING/SPAWNING AREAS-LIMINOLOGICAL STUDIES IN COOK INLET, KODIAK, AND THE ALASKA PENINSULA.

P2	PROJECT DETAIL
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AGENCY FISH AND GAME

BRU _____

COMPONENT _____

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Revised Date: _____

PROJECT NUMBER: 9 9009	PROJECT TITLE: KOD SOCKEYE OVER-ESC LAKE HYDR	STATUTORY AUTHORITY: AS16	LOCATION: EAA HOSPITAL PROJECT MANAGER: PHONE:
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LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY91			GOVERNOR'S BUDGET
			AGENCY		AGENCY REQUEST	
			ADJUSTED BASE	INCREMENT/ DECREMENT		
71000 Personal Services		8.0	28.6		28.6	
72000 Travel		1.0	4.1		4.1	
73000 Contractual Services		5.0	27.9		27.9	
74000 Supplies and Materials		2.0	6.0		6.0	
75690 Equipment						
75025 Lands/Buildings		51.0				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		67.0	66.6		66.6	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
Other: EXXON VALDED OIL SPILL					6.0	
15 Full-Time						
16 Part-Time						
17 Non Permanent			7.0		7.0	
18 Staff Months						

PROJECT DESCRIPTION:

THIS NEW PROJECT DEALS WITH OVER ESCAPEMENT OF SOCKEYE SALMON INTO SYSTEMS WHICH IS IN EXCESS OF ESTABLISHED ESCAPEMENT GOALS BECAUSE MANY COMMERCIAL FISHING AREAS WERE CLOSED OR MODIFIED AS A RESULT OF THE EXXON OIL SPILL. THERE IS A CONCERN THAT THIS OVER ESCAPEMENT MAY PRODUCE DIMINISHED RETURNS OR IMPACT FUTURE SOCKEYE SALMON RETURNS BY HAVING POTENTIALLY LARGE NUMBERS OF REARING JUVENILES IN LAKE SYSTEMS. THE EFFECT OF THE LARGE NUMBER OF DECOMPOSING CARCASSES HAS ON THE NUTRIENT LEVEL OF NURSERY LAKES, AND CORRESPONDING BIOLOGICAL PARAMETERS OF THE FISHERIES STOCKS. THIS PROJECT WILL INTREGATE DATA FROM SIMILAR PROJECTS ON THE IMPACTS OF SOCKEYE SALMON REARING/SPAWNING AREAS-LIMINOLOGICAL STUDIES IN COOK INLET, KODIAK, AND THE ALASKA PENINSULA.

P2	PROJECT DETAIL
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AGENCY _____

BRU _____

COMPONENT _____

FY 91

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Revised Date: _____

PROJECT NUMBER: 4 9010	PROJECT TITLE: FOX	STATUTORY AUTHORITY: AS16	LOCATION: FD# 2403 PROJECT MANAGER: PHONE:
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LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			
			AGENCY			GOVERNOR'S BUDGET
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services						
72000 Travel						
73000 Contractual Services		80.0	300.0		300.0	
74000 Supplies and Materials						
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		80.0	300.0		300.0	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
Other: STATE AIDES OIL SPILL						
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:

FOXES: THIS NEW PROJECT WILL COCENTRATE ON SMALL CARNIVORES USING FOX AS AN INDICATOR SPECIES. THE SMALL CARNIVORES REPRESENT ANIMAL SPECIES IN THE UPPER PORTION OF THE FOOD WEB THAT MAY BE SHOWN HAVE INJURY DUE TO OIL CONTAMINATION AND ESTABLISHMENT PATHWAYS THROUGH THE ECOLOGICAL SYSTEM. INCONJUNCTION WITH THE RIVER OTTER AND MINK STUDIES IT IS HOPED THAT DATA WILL BE FOUND TO DEMONSTRATE LINKAGE TO OTHER FOOD ITEMS AND THEIR EFFECTS ON THE BIOLOGY OF HIGHER ANIMAL

SPECIES. CONSIDERATION TO LOST USE OF THE RESOURCE FOR TRAPPING SUBSISTENCE, AND RECREATIONAL HARVESTS MAY ALSO BE EXAMINED WITH DATA FROM THIS STUDY AND RELATED ECONOMIC/USE STUDUES.

P2 PROJECT DETAIL

AGENCY FISH AND WILDLIFE
 BRU
 COMPONENT

FY 91

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 Revised Date:

9011 RESTORATION PROJECTS

OBJECTIVES:

- A. INCORPORATE ECOLOGICAL CONCEPTS AND ECOSYSTEM PERSPECTIVES INTO RESTORATION RECOMMENDATIONS.
- B. REVIEW NRDA REPORTS, ASSESS FEASIBILITY AND COST EFFECTIVENESS OF RESTORATION PILOT PROJECTS.
- C. IDENTIFY POTENTIAL ALTERNATIVE METHODS AND STRATEGIES FOR RESTORATION OF LOST USE, POPULATIONS OR HABITAT.



ADDITIONAL
EXPLANATION
FORM

AGENCY FISH AND GAME
BRU D.S.B.A.F.
COMPONENT WATER QUALITY MANAGEMENT

FY 91

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Revised Date:

PROJECT NUMBER: 9 9012	PROJECT TITLE: NRDA PROJECTS MODELING	STATUTORY AUTHORITY: AS16	LOCATION: BUREAU OF FISH AND GAME PROJECT MANAGER: _____ PHONE: _____
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LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services						
72000 Travel						
73000 Contractual Services		400.0	975.0		975.0	
74000 Supplies and Materials						
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL		400.0	975.0		975.0	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
1008 Other: OIL SPILL						
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:

COMPUTER MODELING ON (NRDA) PROJECTS WILL BE IMPLEMENTED TO IMPROVE, DEFEND AND DEVELOP THE INJURY DETERMINATION, QUANTIFICATION AND DAMAGE ASSESSMENT PROCESS OF THE NATURAL RESOURCE DAMAGE ASSESSMENT PLAN. INFORMATION AND DATA INPUT FROM PROJECTS WILL BE USED IN DEVELOPING AN ARRAY OF COMPUTER MODELS THAT WILL SUPPORT THE DAMAGE ASSESSMENT PROCESS.

**P2 PROJECT
DETAIL**

AGENCY FISH AND GAME
 BRU _____
 COMPONENT _____

FY 91

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 Revised Date: _____

PROJECT NUMBER	PROJECT TITLE	PRIOR YEAR FY 89 ACTUAL		CURRENT YEAR FY 90 AUTHORIZED		BUDGET YEAR - FY 91				GOVERNOR'S BUDGET	
						AGENCY					
		GENERAL FUNDS	TOTAL	GENERAL FUNDS	TOTAL	ADJUSTED BASE		REQUEST		GENERAL FUNDS	TOTAL
						GENERAL FUNDS	TOTAL	GENERAL FUNDS	TOTAL	GENERAL FUNDS	TOTAL
9 105	PWS & KENAI COAST						71.1		71.1		
9 125	RESPONSE PLANNING, COOR &						91.4		91.4		
9 4400	PUBLIC INFORMATION		5.2		20.2						
9 4452	SPORT FISHERIES OIL MGMT		6.1		73.7		75.7		75.7		
9 4505	SOUTHCENTRAL/SW WILDLIFE		15.8		275.2						
9 4551	HQ PLANNING AND REVIEW, CF		7.0		42.6		52.1		52.1		
9 4601	KODIAK CHIGNIK MGMT, CF		118.4		398.0		944.2		944.2		
9 4651	UCI FISHERIES MGMT		22.4		177.9		115.0		115.0		
9 4661	LCI FISHERIES MGMT, CF		23.8		101.7		75.7		75.7		
9 4701	PWS SALMON FISHERIES MGMT,		109.8		163.8		79.4		79.4		
9 9002	OIL SPILL CONTINGENCY PLAN				65.9		150.5		150.5		
9 9003	CENTRAL REGION MANAGEMENT,				6.0		6.0		6.0		
TOTAL			308.5		1325.0		1661.1		1661.1		

P1 PROJECT LISTING

AGENCY FISH AND GAME
 BRU COASTAL AREA
 COMPONENT OIL SPILL MANAGEMENT

FY 91

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 Revised Date: _____

PROJECT NUMBER: 5 105	PROJECT TITLE: PWS & KENAI COAST	STATUTORY AUTHORITY: AS 18	LOCATION: AWA JUNEAU
			PROJECT MANAGER: _____ PHONE: _____

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR = FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services			41.1		41.1	
72000 Travel			10.0		10.0	
73000 Contractual Services			16.5		16.5	
74000 Supplies and Materials			7.5		7.5	
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL			71.1		71.1	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
Other: FURBER OIL SPILL			71.1		71.1	
15 Full-Time			1.0		1.0	
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:
 STUDY TITLE EVOS LONG TERM RESPONSE. THIS PROJECT WILL FUND UNANTICIPATED MANAGEMENT COSTS RESULTING FROM THE EVOS, UNTIL 6/30/90. FUNDS WILL BE USED TO: DETERMINE POSSIBLE SEASON MODIFICATIONS OF FURBEARERS, DEER AND BEARS; PROPERLY DISPOSE OF SEASONAL STAFF TIME FOR OIL SPILL GENERATED DUTIES AT VALDEZ, HOMER, ANCHORAGE, CORDOVA AND KODIAK; COVER ADDITIONAL PHONE, MAIL, COMMODITY, TRAVEL, AND EQUIPMENT MAINTENANCE/ REPLACEMENT COSTS OF THE SPILL.

P2 PROJECT DETAIL

AGENCY _____
 BRU _____
 COMPONENT _____

FY 91

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 Revised Date: _____

9 105 PWS & KENAI COAST

OBJECTIVES:

TO PROVIDE THE NECESSARY PERSONNEL, LOGISTICS, SUPPORT, AND MAINTENANCE SERVICES NECESSARY FOR LONG TERM MANAGEMENT TO THE EXXON VALDEZ OIL SPILL.



**ADDITIONAL
EXPLANATION
FORM**

AGENCY _____

FISH AND GAME

BRU _____

WILDLIFE

COMPONENT _____

FISH MANAGEMENT

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Revised Date: 10/01/78

FY 91

PROJECT NUMBER: 9 125	PROJECT TITLE: RESPONSE PLANNING. COOR & SUPP	STATUTORY AUTHORITY: 4516	LOCATION: BUREAU
		PROJECT MANAGER:	PHONE:

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services			85.9		85.	
72000 Travel			2.5		2.	
73000 Contractual Services			1.5		1.	
74000 Supplies and Materials			1.5		1.	
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL			91.4		91.	
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
Other:			91.4		91.	
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:
 STUDY TITLE EVOS LONG TERM RESPONSE. THIS PROJECT WILL FUND UNANTICIPATED MANAGEMENT COSTS RESULTING FROM THE EVOS. UNTIL 6/30/90. FUNDS WILL BE USED TO: DETERMINE POSSIBLE SEASON MODIFICATIONS OF FURBEARERS, DEER AND BEARS; PROPERLY DISPOSE OF SEASONAL STAFF TIME FOR OIL SPILL GENERATED DUTIES AT VALDEZ, HOMER, ANCHORAGE, CORDOVA AND KODIAK; COVER ADDITIONAL PHONE, MAIL, COMMODITY, TRAVEL, AND EQUIPMENT MAINTENANCE/ REPLACEMENT COSTS OF THE SPILL.

P2 PROJECT DETAIL

AGENCY _____
 BRU _____
 COMPONENT _____

FY 91

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 Revised Date: _____

§ 125 RESPONSE PLANNING, COOP & SUPT

OBJECTIVES:

1. PROVIDE THE NECESSARY PERSONNEL, LOGISTICS, SUPPORT, AND MAINTENANCE SERVICES NECESSARY FOR LONG TERM MANAGEMENT TO THE EXXON VALDEZ OIL SPILL.



ADDITIONAL
EXPLANATION
FORM

AGENCY _____

FISH AND GAME

BRU _____

COMPONENT _____

FY 91

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Revise Date: _____

PROJECT NUMBER: 9 4400	PROJECT TITLE: PUBLIC INFORMATION	STATUTORY AUTHORITY: AS16	LOCATION:
		PROJECT MANAGER: _____ PHONE: _____	

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY91			GOVERNOR'S BUDGET
			AGENCY			
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services	2.0	14.9				
72000 Travel		2.0				
73000 Contractual Services	1.4	0.1				
74000 Supplies and Materials	1.1	0.5				
75690 Equipment						
75025 Lands/Buildings	0.1	1.0				
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	5.6	18.5				
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
105 Other: Exxon Valdez Oil Spill						
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:
 STUDY TITLE PUBLIC INFORMATION. THIS PROJECT SUPPORTS 6MM OF FUNDING FOR TWO INFORMATION OFFICER II'S (BOTH NEW POSITIONS), ONE IN ANCHORAGE, AND ONE IN CORDOVA, TO ANSWER QUESTIONS FROM FISHERMEN, FISH BUYERS, THE PUBLIC AND THE PRESS REGARDING EFFECTS OF THE EXXON VALDEZ OIL SPILL ON FISHERIES AND WILDLIFE RESOURCES IN THE AFFECTED AREAS; TO PREPARE AND DISSEMINATE INFORMATION; AND TO COORDINATE INFORMATION EFFORT AMONG DEPARTMENT OFFICES.

P2 PROJECT DETAIL

AGENCY FISH AND GAME
 BRU _____
 COMPONENT WILDLIFE MANAGEMENT

FY 91

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 Revised Date: _____

9 4400 PUBLIC INFORMATION:

OBJECTIVE:

TO PROVIDE FISHERMEN, THE PUBLIC AND THE PRESS NECESSARY INFORMATION ON THE FISHERIES AND WILDLIFE RESOURCES, PARTICULARLY IN REGARD TO FISHING SEASONS AND QUALITY ASSURANCE, AND TO ENSURE A CONSISTENT AND HIGH LEVEL OF RESPONSE TO PUBLIC INQUIRY.



ADDITIONAL
EXPLANATION
FORM

AGENCY _____

FISH AND GAME

BRU _____

COMPONENT _____

FY 91

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Revised Date: _____

PROJECT NUMBER: 9 445:	PROJECT TITLE: SPORT FISHERIES OIL MGMT	STATUTORY AUTHORITY: A516	LOCATION:
			PROJECT MANAGER: PHONE:

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR		GOVERNOR'S BUDGET
			AGENCY		
			ADJUSTED BASE	INCREMENT/ DECREMENT	
71000 Personal Services	4.7	50.4	55.7		55.7
72000 Travel		7.5	8.5		8.5
73000 Contractual Services	0.2	1.5	0.7		0.7
74000 Supplies and Materials	1.2	2.0	2.0		2.0
75690 Equipment					
75025 Lands/Buildings					
77000 Grants, Claims					
78000 Miscellaneous					
TOTAL	6.1	61.4	75.7		75.7
1002 Federal Receipts					
1004 General Fund					
1007 I-A Receipts					
101 Other: EXXON VALDEZ OIL SPILL			75.7		
15 Full-Time					
16 Part-Time					
17 Non Permanent					
18 Staff Months					

PROJECT DESCRIPTION:

STUDY TITLE SPORT FISHERIES OIL MGMT. THE STATE BUDGETED LEVEL OF MANPOWER FOR MGMT OF THE SPORT FISHERIES IN PWS, LCI, & KODIAK IS NOT SUFFICIENT TO DEAL WITH THE INCREASED MGMT DEMANDS RESULTING FROM THE EXXON VALDEZ OIL SPILL. PRESENTLY THE DIVISION HAS NO STAFF LOCATED IN PWS OR LCI. THIS PROJECT WILL FUND ONE FULL TIME AND ONE PART TIME FISHERIES BIOLOGIST THAT WILL MONITOR SPORT FISHERY HARVESTS AS NEEDED TO PROTECT THE RESOURCE. THESE STAFF WILL ALSO WORK WITH OTHER AGENCIES TO ENSURE THAT HARVESTED FISH ARE NOT CONTAMINATED WITH OIL. CLERICAL SUPPORT FOR THE CORDOVA BIOLOGIST IS ALSO REQUESTED, ALONG WITH FUNDS FOR MAIL, PHONE, TRAVEL AND OTHER OPERATIONAL NEEDS.

P2 PROJECT DETAIL

AGENCY FISH AND GAME
 BRU _____
 COMPONENT _____

FY 91

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 Revised Date: _____

9 445: SPORT FISHERIES OIL MGMT

OBJECTIVES:

1) PROVIDE ADEQUATE STAFF TO HANDLE THE INCREASED WORK LOAD
(CAUSED BY THE PWS OIL SPILL; 2) TO PROVIDE MANPOWER TO
SAMPLE POTENTIALLY AFFECTED STOCKS FOR TESTING BY DEC; 3) TO
PROVIDE INFORMATION TO THE PUBLIC REGARDING SPORT FISHING AND
THE OIL SPILL.



ADDITIONAL
EXPLANATION
FORM

AGENCY _____

FISH AND GAME

BRU _____

COMPONENT _____

SPORT FISHERIES MANAGEMENT

FY 91

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Revised Date: _____

PROJECT NUMBER: 9 4505	PROJECT TITLE: SOUTHCENTRAL/SW WILDLIFE	STATUTORY AUTHORITY: AS16	LOCATION:
		PROJECT MANAGER: _____ PHONE: _____	

LINE ITEM DETAIL	PRIOR YEAR FY 89 ACTUAL	CURRENT YEAR FY 90 AUTHORIZED	BUDGET YEAR - FY 91 PERKINS			
			AGENCY			GOVERNOR'S BUDGET
			ADJUSTED BASE	INCREMENT/ DECREMENT	AGENCY REQUEST	
71000 Personal Services	15.6	228.9				
72000 Travel		14.2				
73000 Contractual Services	0.2	27.9				
74000 Supplies and Materials		4.0				
75690 Equipment						
75025 Lands/Buildings						
77000 Grants, Claims						
78000 Miscellaneous						
TOTAL	15.8	275.0				
1002 Federal Receipts						
1004 General Fund						
1007 I-A Receipts						
Other: EXXON VALDEZ OIL SPILL	15.6	275.0				
15 Full-Time						
16 Part-Time						
17 Non Permanent						
18 Staff Months						

PROJECT DESCRIPTION:

STUDY TITLE EVOS LONG TERM RESPONSE. THIS PROJECT WILL FUND UNANTICIPATED MANAGEMENT COSTS RESULTING FROM THE EVOS, UNTIL 6/30/90. FUNDS WILL BE USED TO: DETERMINE POSSIBLE SEASON MODIFICATIONS OF FURBEARERS, DEER AND BEARS; PROPERLY DISPOSE OF SEASONAL STAFF TIME FOR OIL SPILL GENERATED DUTIES AT VALDEZ, HOMER, ANCHORAGE, CORDOVA AND KODIAK; COVER ADDITIONAL PHONE, MAIL, COMMODITY, TRAVEL, AND EQUIPMENT MAINTENANCE/ REPLACEMENT COSTS OF THE SPILL.

P2	PROJECT DETAIL
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AGENCY FISH AND GAME

BRU _____

COMPONENT OIL SPILL MANAGEMENT

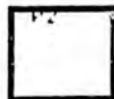
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4505 SOUTHCENTRAL SW WILDLIFE

OBJECTIVES:

TO PROVIDE THE NECESSARY PERSONNEL, LOGISTICS, SUPPORT, AND MAINTENANCE SERVICES NECESSARY FOR LONG TERM MANAGEMENT TO THE EXXON VALDEZ OIL SPILL.



ADDITIONAL
EXPLANATION
FORM

AGENCY _____

FISH AND GAME

BRU _____

CONSERVATION

COMPONENT _____

WILDLIFE MANAGEMENT

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Revised Date: _____