13.08.01 – Reading File

December 1997

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 31, 1997

Tim Holder
1040 Bench Court
Anchorage, Alaska 99504

Dear Mr. Holder:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

Eric F. Myers
Director of Operations

efm/raw

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 31, 1997

Linda Maxwell
POB 671693
Chugiak, Alaska 99567

Dear Ms. Maxwell:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

Eric F. Myers
Director of Operations

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Exxon Valdez Oil Spill Trustee Council

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December 31, 1997

Joyce Bauer
2201 Lake George Drive
Anchorage, Alaska 99504

Dear Ms. Bauer:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

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Director of Operations

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December 31, 1997

Martin R. Sherman
POB 91298
Anchorage, Alaska 99509

Dear Mr. Sherman:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

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Director of Operations

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December 31, 1997

Gretchen A. Cusack
19634 Big Diomede
Eagle River, Alaska 99577

Dear Ms. Cusack:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 31, 1997

Tom Armstrong
POB 877156
Wasilla, Alaska 99687

Dear Mr. Armstrong:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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December 31, 1997

Dena Goldberg
5626 East 40th Avenue Unit E104
Anchorage, Alaska 99504

Dear Ms. Goldberg:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 31, 1997

Sylvio J. Lyr
2517 McKenzie Drive
Anchorage, Alaska 99517

Dear Mr. Lyr:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 31, 1997

Terri S. Brandon
4900 Chuck Drive
Anchorage, Alaska 99507

Dear Ms. Brandon:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 31, 1997

Marie V. Lastufka
POB 110052
Anchorage, Alaska 99511

Dear Ms. Lastufka:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 31, 1997

T. Smallwood
POB 231712
Anchorage, Alaska 99523

Dear T. Smallwood:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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December 31, 1997

Sandra Vaisvil
2440 East Tudor #337
Anchorage, Alaska 99507

Dear Ms. Vaisvil:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 31, 1997

P.H. Waddington
POB 797
Homer, Alaska 99603

Dear P.H. Waddington:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 31, 1997

Kim Behrens
POB 110498
Anchorage, Alaska 99511

Dear Ms. Behrens:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Sincerely,

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Director of Operations

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December 31, 1997

Richard L. Crisci
10160 Craig Creek
Anchorage, Alaska 99516

Dear Mr. Crisci:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

Eric F. Myers
Director of Operations

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December 31, 1997

Sylve Montalbo
POB 1032
Girdwood, Alaska 99587

Dear Ms. Montalbo:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

Eric F. Myers
Director of Operations

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December 31, 1997

David Dolese
2517 Foraker Drive
Anchorage, Alaska 99517

Dear Mr. Dolese:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

Eric F. Myers
Director of Operations

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December 31, 1997

Gwen Turner
5520 East 98th Avenue
Anchorage, Alaska 99516

Dear Ms. Turner:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Sincerely,

Eric F. Myers
Director of Operations

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December 31, 1997

Terry Cummings
6740 East 10th Avenue
Anchorage, Alaska 99504

Dear Mr. Cummings:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

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Director of Operations

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December 31, 1997

Robert F. Shary
3417 West 84th Avenue
Anchorage, Alaska 99502-5304

Dear Mr. Shary:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

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Director of Operations

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December 31, 1997

Jeri Alexia Rosenthal
325 Eklutna #3
Anchorage, Alaska 99504

Dear Ms. Rosenthal:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

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Director of Operations

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December 31, 1997

William Wakeland
1504 West 45th
Anchorage, Alaska 99503

Dear Mr. Wakeland:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

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Director of Operations

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December 31, 1997

Jean M. Eaton
8700 East Klatt Road
Anchorage, Alaska 99516

Dear Ms. Eaton:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

Eric F. Myers
Director of Operations

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Exxon Valdez Oil Spill Trustee Council

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December 31, 1997

Nancy Paton
336 Fischer Avenue
Anchorage, Alaska 99518

Dear Ms. Paton:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

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Director of Operations

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December 31, 1997

James R. Carter
3505 Woodland Park Drive
Anchorage, Alaska 99517

Dear Mr. Carter:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

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Director of Operations

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December 31, 1997

Gerald R. Taft
3180 Marathon Circle
Anchorage, Alaska 99515

Dear Mr. Taft:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

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Director of Operations

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December 31, 1997

Karen L Severy
3951 Kutcher
Anchorage, Alaska 99516

Dear Ms. Severy:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

If you have additional questions or comments about the *Exxon Valdez* oil spill restoration program, please feel free to contact the Restoration Office.

Sincerely,

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Director of Operations

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December 30, 1997

William M. Cox
7806 Linda Lane
Anchorage, Alaska 99518

Dear Dr. Cox:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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December 30, 1997

Nancy K Vait
POB 1532
Homer, Alaska 99603

Dear Ms. Vait:

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December 30, 1997

Leresa Blume
POB 201456
Anchorage, Alaska 99520

Dear Ms. Blume:

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December 30, 1997

Helen M Ryan
2220 North Star #21
Anchorage, Alaska 99503-1887

Dear Ms. Ryan:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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December 30, 1997

Jay and Colleen Bickford
2429 Telequana Drive
Anchorage, Alaska 99517

Dear Mr. and Mrs. Bickford:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 30, 1997

Sheri Baxter
905 Rich Vista Road # 322
Anchorage, Alaska 99501

Dear Ms. Baxter:

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Carol Franz DelValle
7571 College Drive
Anchorage, Alaska 99504

Dear Ms. DelValle:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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Ivar Van Koten
9495 Hiland Road
Eagle River, Alaska 99577

Dear Mr. Van Koten:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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December 30, 1997

Ralph H. Basner
POB 187
Palmer, Alaska 99645

Dear Mr. Basner:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 30, 1997

Jeanne Schaaf
14240 Old Rabbit Creek Road
Anchorage, Alaska 99516

Dear Ms. Schaaf:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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December 30, 1997

Dagmar Nye
1200 West Dimond Blvd.
Anchorage, Alaska 99515-1562

Dear Ms. Nye:

Thank you for your recent expression of support for the Trustee Council's Habitat Protection Program and your comment regarding future use of the Restoration Reserve. Please know that a copy of your correspondence will be provided to each of the Trustee Council members.

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Director of Operations

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MEMORANDUM

To: Bruce Wright, Bob Spies, Jeep Rice, Mike Castellini, Joe Sullivan, and Bill Hauser

From: Stan Senner, Science Coordinator Stan

Subject: Oral Presentations at the March 1999 10th Anniversary Symposium

Date: December 30, 1997

The deadline for submission of abstracts for the 10th anniversary symposium is May 15, 1998. I do not know what Brenda Baxter has received in the way of abstracts to date (I will check), but it now is timely for us to consider which topics or projects we consider to be essential for oral presentations at the symposium so that we can contact the appropriate individuals in the coming weeks.

I have enclosed a list of EVOS projects (damage assessment and restoration) that was compiled by Bruce Wright and the Restoration Office staff and a draft list of topics and projects that I consider to be essential for oral presentation. In developing this proposed list of "must" presentations, I tried to identify those projects for which there are substantial new results--i.e., information not already presented in the 1993 symposium volume (Rice et al. 1996). Here are some things I was looking for:

✏ Species or topics for which there have been multiple projects (e.g., marbled murrelet) or project components (e.g., APEX, SEA) seem especially appropriate for synthesis-type treatment, and it is important that we identify these now because additional effort will be required on the part of the presenters;

✏ Species for which there still is concern about recovery status (e.g., harbor seals);

✏ Projects where there has been some substantive pay-off in terms of management or restoration (e.g., in-season sockeye genetics), including successful supplementation projects (e.g., Port Dick);

✏ Subsistence and archaeology projects;

✏ I am not clear on what new material there is regarding fate of the oil. I have suggested some toxicology ideas (e.g., the NMFS synthesis of toxicological impacts on pink salmon), but this area needs more attention; and

✏ finally, the ecosystem projects need considerable thought. Beyond some kind of overview-level presentations, what do we want in the way of more specific presentations and how are these to be organized (e.g., by taxon, question, project component, etc.)?

Please give me your feedback on this draft list, preferably by Friday, January 16. Feel free to modify, delete from, or add to this list. Once I have your comments, I will prepare a revised list. We then can discuss when and how to contact the potential presenters.

SS/kh
encl: (2)
cc: Molly McCammon
Sandra Schubert
Brenda Baxter
Joe Hunt

12-30-97

DRAFT

Projects or Topics that Must Be Presented at the 10th Anniversary Symposium

[Note: These are organized by cluster, but there is no particular order within clusters. Also, the last column--with institutions and PIs--is intended to be suggestive, but not complete.]

Pink salmon		
Oil/pink salmon straying	\076	NMFS, Wertheimer
Oil/pink salmon survival & health	\076	NMFS, Heintz
Port Dick spawning channel (example of successful supplementation project)	\139A2	ADFG, Bucher & Dickson
Coded wire tag/otolith marking	\186-188	ADFG, Joyce
Linkage map for genome	\190	UM, Allendorf
Oil-related embroyo mortality	\191A	ADFG, Willette et al.
Spawning habitat recovery	\194	NMFS, Murphy & Rice
Genetic structure	\196	ADFG, Seeb et al.
Synthesis of toxicological impacts	\329	NMFS, Rice et al.
Synthesis of pink salmon impacts	\various	Mundy

[Note: pink salmon also covered by SEA talks]

Pacific Herring		
Synthesis: toxicological impacts	\various	NMFS, Rice et al.
Synthesis: herring disease [individual components too?]	\162	UW, Kocan et al.
Genetic structure	\165	ADFG, Seeb
Synthesis: decline/recovery status	\166+	ADFG/UAF/others?

[Note: herring also covered by SEA talks]

Sound Ecosystem Assessment		
Synthesis: pink salmon/herring productivity	\320	UAF, Cooney
Various individual SEA talks, perhaps organized by original hypothesis, project component, or what?	\320	UAF, PWSSC et al.
Pristane monitoring	\195	NMFS, Short

Sockeye Salmon		
Overescapement	\258	ADFG, Schmidt (?) & Tarbox
Kenai R. restoration (in-season genetics & hydroacoustics)	\255	ADFG, Tarbox & Seeb

Cutthroat Trout		
Anadromous & resident forms	\145	USFS, Reeves

Habitat improvement monitoring (example (of supplementation and followup monitoring)	\043B	USFS, Gillikin
Marine Mammals		
Harbor seal pop trends	\064	ADFG, Frost & Lowry
Synthesis: harbor seal ecology, including fatty acid datas	\064	ADFG, Frost & Iverson
Synthesis: har. seal health status	\001/341	UAF, Castellini
Harbor seal isotope ratios	\170/117	UAF, Schell
Synthesis: killer whale status, popul. structure & ecology	\012A	NGOC, Matkin
Nearshore		
Synthesis: impact & recovery of nearshore vertebrate predators	\025	USGS, Bartels
Various individual NVP talks, perhaps organized by taxon or what?	\025	USGS, Bodkin et al.
Black oystercatcher status	\035/289	USFWS, Andres ABR, Murphy
Mussel bed restoration (is there anything to say without another season in the field?)	\090	NMFS, Brodersen?
Synthesis: intertidal impacts & recovery	\various	Dean, Stekoll, Highsmith, Peterson
Subtidal/Eelgrass monitoring	\106	UAF, Jewett
Synthesis: harlequin duck status/recovery	\427	ADFG, Rosenberg, Esler
Harlequin duck genetics	\161	USGS, Scribner (?) & Lanctot
Seabird/Forage Fish		
Murre pop trends and productivity	\144	USFWS, Roseneau & Byrd
Synthesis: Marine bird boat surveys in PWS	\159	USFWS, Irons et al.
Status/ecology of Kittlitz's murrelet	\142	ABR, Day
Alcid genetics	\169	QU, Friesen
Synthesis: APEX seabirds/forage fish	\163	UAA, Duffy
Various individual APEX talks, by taxon, area, etc?	\163	USFWS, USGS, etc.
Synthesis: status & ecology of marbled murrelet	\various	USFWS, Kuletz
Archaeological Resources		
Index site monitoring	\007A	ADNR, Reger
Site stewardship	\149	ADNR, Reger
Site specific restoration	\007B	USFS, Yarborough

Subsistence

Traditional knowledge	\052B	CRRC, Brown-Schwalenberg, Short & Huntington
?Chugach clam restoration	\131	Brown-Schwalenberg et al.
?Kametolook R. coho salmon	\247	Perryville & ADFG, Sullivan & Hauser
community harbor seal & biosampling	\244	ANHSC, Riedel
Chenega shoreline restoration	\291	ADEC,NMFS

Reduction of Marine Pollution

??

Habitat Improvement

Kenai R. habitat restoration	\180	ADNR, Wiener ADFG, Kuwada
PWS human use model	\339	USFS, Suring & Murphy

Ecosystem Synthesis

Mass-balance model in PWS	\330	UBC, Pauly & Pimm

Exxon Valdez Oil Spill Damage Assessment and Restoration Projects

Pink Salmon

076 / Effect of Oil on Straying and Survival

093 / Diversion of Harvest Effort

139 / Salmon Instream Habitat Restoration

139A1-CLO / Little Waterfall Barrier Bypass Improvement

139A2 / Port Dick Spawning Channel

139C1-CLO / Montague Riparian Rehabilitation Monitoring

186 / Coded-wire Tagging and Recovery

188 / Otolith Thermal Mass Marking

190 / Linkage Map for the Pink Salmon Genome

191 / Oil-Related Embryo Mortalities

194-CLO / Spawning Habitat Recovery

196 / Genetic Structure

329 / Synthesis of Toxicological Impacts

FS02 / Pre-emergent Fry

FS03 / Coded-Wire Tags Damage Assessment (see 067, 184-188)

FS04A / Early Marine Salmon Damage Assessment

FS04B / Juvenile Pinks

FS28 / Run Reconstruction

FS30 / Database Management

R047 / Stream Habitat Assessment

R060A/B / PWS Pink Salmon

R060C / Pink Salmon Egg/Fry

Herring

074 / Herring Reproductive Impairment

162 / Disease Affecting Declines

165-CLO / Genetic Discrimination

166-CLO / Herring Natal Habitats

311 / Productivity Dependencies: Stable Isotopes

FS11 / Herring Injury

SEA and Related Projects

195 / Pristane Monitoring in Mussels

297-BAA / Oceanography of PWS Bays and Fjords

320 / Sound Ecosystem Assessment (SEA)

340 / Long-Term Oceanographic Monitoring

Sockeye Salmon

048-BAA / Historical Analysis of Sockeye Salmon Growth

251 / Akalura Lake Restoration

254-CLO / Delight and Desire Lakes Restoration

255 / Kenai River Sockeye Salmon Restoration

258 / Sockeye Salmon Overescapement

259 / Restoration of Coghill Lake Sockeye Salmon

504 / Genetic Stock ID of Kenai River Sockeye

FS27 / Sockeye Salmon Overescapement

R053 / Kenai River Sockeye Salmon Restoration

R059 / Genetic Stock Identification

R113 / Red Lake Sockeye Salmon Restoration

Cutthroat Trout, Dolly Varden, Rockfish, and Pollock

043B / Habitat Improvement Monitoring

145-CLO / Anadromous and Resident Forms

252 / Genetic Investigations of Rockfish and Pollock

302 / PWS Inventory

FS05 / Dolly Varden Damage Assessment

R090 / Dolly Varden Char Monitoring

R106 / Dolly Varden Restoration

ST6 / Rockfish Damage Assessment

Marine Mammals

001-CLO / Harbor Seal Condition and Health Status

012A-BAA / Killer Whale Investigation

064 / Harbor Seal Monitoring, Habitat Use, Trophic Interactions

117-BAA / Harbor Seal Blubber and Lipids

170-CLO / Isotope Ratio Studies of Marine Mammals

341 / Harbor Seals: Health and Diet

425 / Marine Mammal Book Publication

MM1 / Humpback Whales Damage Assessment

MM2 / Killer Whales Damage Assessment

R073/MM5 / Harbor Seals in PWS

Nearshore Ecosystem

025 / Nearshore Vertebrate Predators (NVP)

026 / Hydrocarbon Monitoring

027 / Kodiak Shoreline Assessment
034 / Pigeon Guillemot Recovery Monitoring
035 / Black Oystercatcher Recovery Monitoring
038 / PWS Shoreline Assessment
043 / Sea Otter Demographics and Habitat
086C / Herring Bay Experimental and Monitoring Studies
090 / Mussel Bed Restoration
106 / Eelgrass Monitoring
161-CLO / Differentiation/Interchange of Harlequins
223-BAA / Publication of Sea Otter Data
266 / Experimental Oil Removal
285 / Subtidal Monitoring
289-BAA / Status of Black Oystercatchers in Prince William Sound
290 / Hydrocarbon Database
291 / Chenega Area Shoreline Residual Oiling Reduction
325-BAA / Intertidal/Subtidal Manuscript Preparation
326 / Data Re-Analysis for MM6
348 / Response of River Otters to Oil Contamination
427-CLO / Harlequin Duck Monitoring
AW1 / Surface Oil Maps
AW3 / Hydrocarbons in Seawater/Chemical Sampling
B11 / Harlequin Ducks Damage Assessment Closeout
B12/R17 / Shorebirds Damage Assessment Closeout
CH1A / Coastal Habitat Damage Assessment
CH1B / Hydrocarbons in Mussels
FS13 / Effects of Hydrocarbons on Bivalves
FS18 / Impacts On Bottomfish and Shellfish
FS22 / Injury to Crabs Outside PWS
MM6.1 - 6.19 / Sea Otter Damage Assessment
R071 / Harlequin Duck Restoration and Monitoring
R102 / Coastal Habitat Restoration
R103-1 / Oiled Mussel Beds
R103-3 / Sea Otters and Oiled Mussels
ST1A/93285 / Subtidal Sediments
ST1B / Subtidal Microbial (see 95-97026)
ST2A / Shallow Benthic
ST2B (AW2) / Deep Water Benthic

ST3A (AW3) Hydrocarbons in Seawater: Caged Mussels

ST3B / Caged Mussels Damage Assessment

ST4 / Fate and Toxicity Damage Assessment

ST5 / Shrimp

ST7 / Demersal Fishes Damage Assessment

ST8/93290 / Sediment Data Synthesis

TM3 / River Otter and Mink Damage Assessment in PWS

TS1 / Hydrocarbon Analysis

Seabird/Forage Fish and Related Projects

021 / Seasonal Movements by Common Murres

029 / Population Survey of Bald Eagles in PWS

031 / Reproductive Success of Murrelets in PWS

038 / Symposium/Publication on Seabird Restoration

039B / Common Murre Productivity Monitoring

041 / Introduced Predator Removal

101 / Removal of Introduced Foxes from Islands

102 / Murrelet Prey and Foraging Habitat

121 / Fatty Acid Signatures of Forage Fish

142-BAA / Status and Ecology of Kittlitz's Murrelet

144 / Common Murre Population Monitoring

159 / Marine Bird Abundance Surveys

163 / Alaska Predator Ecosystem Experiment (APEX)

167-BAA / Curation of Seabirds Salvaged from EVOS

169 / Genetics of Murres, Guillemots, Murrelets

231 / Marbled Murrelet Productivity

306 / Ecology and Demographics of Sand Lance

327 / Pigeon Guillemot Research

338 / Survival of Adult Murres and Kittiwakes

346 / Sand Lance Publication

347 / Fatty Acid Profile/Lipid Class Analysis

B02 / Boat Surveys (see 93045 & 96159)

B03 / Murres Damage Assessment Closeout

B04 / Eagle Damage Assessment Closeout

B06 / Marbled Murrelet Damage Assessment Closeout

B07 / Storm Petrels Damage Assessment Closeout

B08 / Kittiwakes Damage Assessment Closeout

B09 / Pigeon Guillemots Damage Assessment Closeout

R011 / Murre Recovery Monitoring

R015 / Marbled Murrelet Restoration Study

Archaeological Resources

007A / Archaeological Index Site Monitoring

007B / Site Specific Archaeological Restoration

066 / Alutiiq Archaeological Repository

149 / Archaeological Site Stewardship

154 / Archaeological Resource Restoration Plan

ARC1 / Archaeological Survey

R104A / Site Stewardship

Subsistence

009D / Survey of Octopuses in Intertidal Habitats

052A / Community Involvement

052B / Traditional Knowledge

127 / Tatitlek Coho Salmon Release

131 / Clam Restoration

138 / Elders/Youth Conference

210 / Youth Area Watch

214 / Harbor Seal Documentary

220-CLO/ Eastern PWS Salmon Habitat Restoration

222 / Chenega Bay Salmon Habitat Enhancement

225 / Port Graham Pink Salmon Project

244 / Community Harbor Seal Sampling/Management

247 / Kametolook River Coho Salmon

256B / Solf Lakes Sockeye Salmon Stocking

263 / Port Graham Salmon Stream Enhancement

272 / Chenega Chinook Release Program

273 / Surf Scoter Life History and Ecology

274 / Herring/Nearshore Documentary

279 / Food Safety Testing

286 / Elders/Youth Conference

428 / Community Planning Project

Recreation

065 / Prince William Sound Recreation Project

339 / Prince William Sound Human Use and Wildlife Disturbance Model

Reduction of Marine Pollution

115 / Sound Waste Management

304 / Kodiak Waste Management Plan

417 / Waste Oil Disposal Facilities

Habitat Improvement

058 / Landowner Assistance Program

060 / Spruce Bark Beetle Impacts

180 / Kenai Habitat Restoration

230 / Valdez Duck Flats Restoration

R105 / Instream Survey Restoration Implementation Planning

TS3 / GIS Mapping and Analysis: Damage Assessment

Habitat Protection

051 / Habitat Assessments

059 / Habitat Identification Workshop

060 / Accelerated Data Acquisition

064 / Imminent Threat Habitat Protection

110 / Habitat Data Acquisition and Support

126 / Habitat Prot./Acq. Support

R092 / GIS Mapping and Analysis: Restoration

Ecosystem Synthesis

300 / Synthesis of Scientific Findings from EVOS

330-BAA / Mass-Balance Model of Trophic Fluxes

Admin./Sci. Mgmt./Pub. Info.

100 / Administration, Science Management, Public Information

507 / EVOS Symposium Publication

Research Facilities

197 / SeaLife Center Fish Pass

Project Management

250 / Project Management

600 / NOAA Program Management

Restoration Reserve

424 / Restoration Reserve

Exxon Valdez Oil Spill Trustee Council
Restoration Office
645 G Street, Suite 401, Anchorage, Alaska 99501-3451
Phone: (907) 278-8012 Fax: (907) 276-7178

December 22, 1997

Mr. James Duncan
Coronado Middle School
155 H Avenue
Coronado, CA 92118

Dear Mr. Duncan:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

On this CD-ROM you will find the EVOS Geographic Information System Database and Data Dictionary, 1989 State/Federal Trustee Council Hydrocarbon Database, the EVOS Project Bibliography, as well as an instruction booklet.

I hope you will find this information useful.

Sincerely,

Eric Myers
Director of Operations

EM/kh
Enclosures

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645 G Street, Suite 401, Anchorage, Alaska 99501-3451
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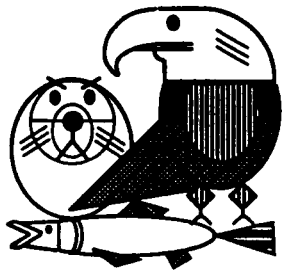

December 22, 1997

Mr. David J. Rinderknecht
6440 Baker Road
Howell, MI 48843

Dear Mr. Rinderknecht:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

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Eric Myers
Director of Operations

EM/kh
Enclosures (2)

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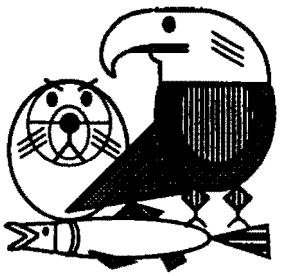

December 22, 1997

Yuichi Hara
104-260 Naganuma-cho
Hchioji-city,
Tokyo Japan, 192

Dear Yuichi Hara:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

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Director of Operations

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Phone: (907) 278-8012 Fax: (907) 276-7178

December 22, 1997

KD Auclair, President
Auclair & Associates
332 South 8th Court
P.O. Box 969
Ridgefield, WA 98642-0969

Dear KD Auclair:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

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Director of Operations

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645 G Street, Suite 401, Anchorage, Alaska 99501-3451
Phone: (907) 278-8012 Fax: (907) 276-7178

December 22, 1997

Mr. David A. Guinn
ADEC/SPAR
IPP/T&TF
4838 Drake Street
Fairbanks, AK 99709

Dear Mr. Guinn:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

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Eric Myers
Director of Operations

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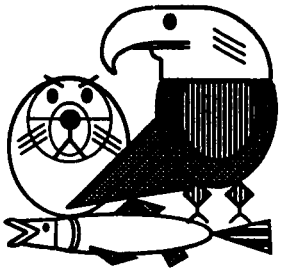

December 22, 1997

Mr. Edsel L. Beja, Jr.
Department of Economics
ATENEO de Manila University
1108 Loyola Heights, Quezon City
The Philippines

Dear Mr. Beja:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

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Eric Myers
Director of Operations

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Phone: (907) 278-8012 Fax: (907) 276-7178

December 22, 1997

Ms. Jennifer Fadden
Space Mark, Inc.
PSC 486 - Adak, Box 1834
FPO AP 96505

Dear Ms. Fadden:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

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I hope you will find this information useful.

Sincerely,

Eric Myers
Director of Operations

EM/kh
Enclosures (2)

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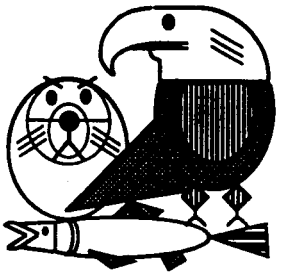

December 22, 1997

Mr. Don Fadden, Jr.
21327 Sweeney Road SE
Maple Valley, WA 98038

Dear Mr. Fadden:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

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I hope you will find this information useful.

Sincerely,

Eric Myers
Director of Operations

EM/kh
Enclosures

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

TO: Heide Sickles, NOAA Procurement

FROM: Veronica Christman

DATE: December 22, 1997

SUBJ: FY 98 Broad Agency Announcement 52ABNF700049

On December 18, 1997, the *Exxon Valdez* Oil Spill Trustee Council approved Project 98289-BAA, which had been deferred pending the availability of funds. Attached to this memo is a copy of the letter sent to the proposer informing him of the Council's action, an excerpt from the decision document and a copy of the staff review of this project.

On June 16, 1997, Kathy Telford, Applied Marine Sciences, sent you the review comments for this project along with those for all the other BAA projects. If you need to have the review comments resent, please contact Kathy at (510)373-7142. Her e-mail address is ktelford@a.marine.com.

Please let me know if you need additional information.

Attachments

cc(w/attachment): Byron Morris, NOAA
cc(w/o attachment): Sandra Schubert, EVRO

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Stephen M. Murphy
ABR, Inc.
PO Box 80410
Fairbanks, Alaska 99708-0410

RE: Project 98289 / Status of Black Oystercatchers in Prince William Sound

Dear Mr. Murphy:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved $80,400 for Project 98289/Status of Black Oystercatchers in Prince William Sound.

Before the project may begin, NOAA, the lead agency for the project, must (1) provide documentation to my office that the requirements of the National Environmental Policy Act (NEPA) have been met, and (2) execute a contract with you. I hope that both of these steps will be taken very soon so that there is no delay in starting this important project. If you have any questions, please contact Byron Morris, the Trustee Council liaison for NOAA.

For your information, I have enclosed a copy of the Trustee Council action on Project 98289. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

cc: Byron Morris, NOAA Liaison

12/18/97 TRUSTEE COUNCIL ACTION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98289-BAA	Status of Black Oystercatchers in Prince William Sound	S. Murphy/ABR, Inc.	NOAA	New 1st yr.	$80.4	$0.0	$80.4	**$80.4**		$0.0	$0.0	$80.4

Project Abstract

Black oystercatchers currently are considered to be "injured with recovery unknown." Because most of the unresolved issues for this species pertain to impacts to the breeding population in Prince William Sound, this study is designed to assess aspects of the life history (e.g., phenology and productivity) of oystercatchers that potentially are spill-related for th same population of oystercatchers that was studied during 1989 - 1993. Year 1 will entail an examination of the life-history parameters that were identified by previous researchers as having been negatively impacted by the oil spill and an evaluation of whether these birds have recovered from the previously identified impacts. Data analyses will focus on comparisons of previously oiled sites with unoiled sites and among-year analyses.

Chief Scientist's Recommendation

I previously had given this project a favorable recommendation, but a Trustee Council decision was deferred pending availability of funds. I continue to find that this is a worthwhile project. Ideally, it should be carried out and reported on in advance of the 10th Anniversary of the oil spill.

Trustee Council Action

Fund FY 98 only; additional funding in FY 99 will be considered following a review of FY 98 results. This project was deferred pending the availability of funds. The upcoming 10th Anniversary compels reassessment of the recovery status of black oystercatchers at this time. The FY 98 Invitation to Submit Restoration Proposals invited proposals for this additional monitoring.

98289-BAA
STATUS OF BLACK OYSTERCATCHER IN PWS

Preliminary Staff Recommendation: No recommendation pending Chief Scientist's review; should be evaluated with Project 98359. This project will assess the status of the breeding population of black oystercatchers in Prince William Sound and evaluate whether these birds have recovered from the previously identified impacts of the oil spill. FY 98 funding includes the cost of preparing the final report and a manuscript for publication in a peer-reviewed journal; funds will be requested in FY 99 only if the FY 98 study detects continued injury.

SMaximum S129.2 [Savings S5.4]

BAA:
This proposal meets the terms of the settlement, is responsive to the BAA, and has sufficient detail for evaluation. The proposed project would assess the phenology and productivity of the same population of black oystercatchers that was studied by the Trustee Council during 1989-1993. Black oystercatchers are a species that was injured by the oil spill.

Program Issues:
1. Invitation: "TC may consider additional monitoring of black oystercatchers in FY 98 following a review of the final report on the FY 96 marine bird boat surveys in PWS." This final report (/159) was submitted to Spies 4/7/97; not yet peer reviewed.
2. Productivity and survival of black oystercatchers in PWS have not been monitored since 1993, and the recovery status of this species is not known (per Sept. 1996 *Update on Injured Resources and Services*)

Budget Issues:
1. FY 99 cost ($231.9) is significantly higher than FY 98 ($134.6). "If Year 1 detects continued injury, Year 2 will be a more intensive investigation. If Year 1 detects recovery, Year 2 will be simply closeout." However, budget indicates that $18.9 is included in FY 98 for FY 99 report writing costs -- which is appropriate because proposer is a private contractor. I would recommend that these funds be used for the final report/manuscript if a second year of field work turns out to not be necessary.
2. Includes $7.2 for workshop attendance which is more than the 3 days of the PI's time and travel come to. [Savings $4.3]
3. Funds for travel to a technical review session are not needed. [Savings $.7]

Related Projects:
98359 would also determine recovery status of black oystercatchers -- through evaluation of demography, oil exposure, food limitations, and population structure (per NVP).

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

TO: Restoration Work Force

FROM: Sandra Schubert
Project Coordinator

RE: Deferred Projects: Trustee Council Action

DATE: December 19, 1997

As follow-up to yesterday's Trustee Council meeting on deferred projects, please find attached:

1. A spreadsheet summarizing additional funding approved for the FY 98 work plan. Copies of the final DPDs and budgets for these projects will be distributed (for addition to your FY 98 binders) in the next couple of weeks. The FY 98 Final Work Plan also will be available soon.

2. A spreadsheet summarizing the status of NEPA for the projects approved yesterday. As always, a letter of authorization from the Executive Director will be needed on each project before spending can occur. To receive authorization, the lead agency must show that NEPA requirements have been met. A few projects also have additional contingencies:
   - 98131 - Finalize contract with Qutekcak Native Tribe
   - 98263 - Resolve technical questions and reduce budget
   - 98286 - Revise DPD and budget
   - 98320T - Revise budget

Letters are being mailed today to the deferred projects' PIs informing them of yesterday's Council action. Copies of the letters also are being mailed to the appropriate agency liaisons.

cc: Molly McCammon, Executive Director

12/18/97 TRUSTEE COUNCIL ACTION: DEFERRED PROJECTS

Proj. No.	Project Title	Lead Agency	New or Cont'd	98 Revised Request	Funded August	Deferred August	**Funded December**	FY 99 Estimate	Total FY98-02	Trustee Council Action
98064	Harbor Seal Monitoring, Habitat, Trophics	ADFG	Cont'd	$307.5	$150.0	$157.5	**$122.5**	$265.0	$667.5	Fund
98131	Clam Restoration	ADFG	Cont'd	$290.1	$82.1	$208.0	**$208.0**		$290.1	Fund contingent
98162	Herring Disease	ADFG	Cont'd	$517.4	$465.7	$51.7	**$52.0**	$0.0	$517.7	Fund
98163	Alaska Predator Ecosystem Experim't(APEX)	NOAA	Cont'd	$2,018.0	$1,899.5	$118.5	**$112.7**	$1,880.3	$4,774.6	Fund
98263	Port Graham Salmon Stream Enhancement	ADFG	Cont'd	$135.4	$0.0	$135.4	**$107.0**	$23.6	$154.2	Fund contingent
98286	Elders/Youth Conference	DOI	Cont'd	$111.1	$0.0	$111.1	**$90.2**	$0.0	$90.2	Fund contingent
98289-BAA	Status of Black Oystercatchers	NOAA	New	$80.4	$0.0	$80.4	**$80.4**		$80.4	Fund
98314	Homer Mariner Park	ADNR	New	$102.1	$0.0	$102.1	**$0.0**	$0.0	$0.0	Do not fund
98320	Sound Ecosystem Assessment (SEA)	ADFG	Cont'd	$2,383.4	$2,332.6	$50.8	**$50.8**	$755.2	$3,138.6	Fund contingent
98338	Adult Murre/Kittiwake Survival	DOI	New	$76.1	$0.0	$76.1	**$56.2**	$57.9	$159.1	Fund
98339	Human Use and Wildlife Disturbance Model	USFS	New	$139.2	$0.0	$139.2	**$139.2**	$53.1	$192.3	Fund
	Total (Deferred Projects Only):			$6,160.7	$4,929.9	$1,230.8	**$1,019.0**	$3,035.1	$10,064.7	

Summary:

Approved by Trustee Council in August:	$13,079.1
Approved by Trustee Council in December:	$1,019.0
TOTAL:	**$14,098.1**

DRAFT

NEPA COMPLIANCE -- FY 98 WORK PLA (projects approved 12/18/97)

Proj.No.	Project Title	New or Cont'd	Lead Agency	NEPA Lead Agency	NEPA Document	NEPA Status
98064	Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound	Cont'd	ADFG	NOAA	CE	On file for all but deferred portion -- apply as well to deferred portion?
98131	Chugach Native Region Clam Restoration	Cont'd	ADFG	NOAA	EA	EA/FONSI on file (96131) -- apply to this newly approved work?
98162	Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound	Cont'd	ADFG	NOAA	CE	On file for all but pound portion -- apply as well to pound?
98163	APEX: Alaska Predator Ecosystem Experiment in Prince William Sound and the Gulf of Alaska	Cont'd	NOAA	NOAA/DOI	CE	On file for all but marbled murrelet; apply as well to marbled murrelet?
98263	Assessment, Protection and Enhancement of Salmon Streams in Lower Cook Inlet	Cont'd	ADFG	DOI	EA?	NEPA compliance will be part of Phase I
98286	Elders/Youth Conference on Subsistence and the Oil Spill	Cont'd	DOI	DOI	none?	Memo on file RE no NEPA for '97 planning; apply as well to '98?
98289-BAA	Status of Black Oystercatchers in Prince William Sound	New	NOAA	NOAA	CE?	
98320	Sound Ecosystem Assessment (SEA)	Cont'd	ADFG	NOAA	CE	On file for all but deferred portion -- apply as well to deferred portion?
98338	Survival of Adult Murres and Kittiwakes in Relation to Forage Fish Abundance	New	DOI	DOI	CE?	
98339	Prince William Sound Human Use and Wildlife Disturbance Model	New	USFS	USFS	CE?	

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Bob Henrichs
Native Village of Eyak Tribal Council
P.O. Box 1388
Cordova, Alaska 99574

RE: Project 98286 / Youth-Elders Subsistence Conference

Dear Bob:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved $90,200 for Project 98286/Youth-Elders Subsistence Conference, contingent on (1) approval of a reduced budget and (2) response to the issues raised by the Chief Scientist, particularly the date of the conference and better definition of the topics to be discussed.

Although I wanted to draw attention to the Trustee Council's traditional ecological knowledge protocols, it was not my intent to tie funding for the Youth-Elders Conference to adoption of the protocols. I hope the enclosed statement of the Council's action on Project 98286 now reflects this intent. The Trustee Council's protocols, which were developed with village council participation, are intended simply to lay out some guidelines for EVOS scientists' interaction with Alaska Native villages. The protocols are broadly written to allow each individual research situation to be tailored to a particular village's needs and interests. I continue to hope that the village councils will actively consider adoption of the protocols.

Before the funds approved by the Trustee Council for Project 98286 may be spent, my office must receive documentation from the U.S. Department of Interior, the administering agency for the project, that National Environmental Policy Act requirements for the project have been met. This is a standard requirement that all projects funded by the EVOS Trustee Council must meet, and it generally happens very quickly. In addition, the two contingencies described above must be addressed. If you have any questions, please contact Catherine Berg, the Trustee Council liaison for DOI.

Good luck in the coming year. I look forward to a productive conference.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Catherine Berg, DOI Liaison

12/18/97 TRUSTEE COUNCIL ACTION DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98286	Elders/Youth Conference on Subsistence and the Oil Spill	B. Henrichs /Native Village of Eyak	DOI	Cont'd 2nd yr. 2 yr. project	$111.1	$0.0	$111.1	**$90.2**	$0.0	$0.0	$0.0	$90.2

Project Abstract

This project will bring together, from all of the oil spill-affected communities, elders and other traditional knowledge bearers and youth, as well as principal investigators from EVOS-sponsored research projects to create a forum for the exchange of information between Western scientific ways of knowing and traditional ways of knowing. The forum will give rise to possible collaborative efforts between local community members and research scientists designing FY 99 restoration projects. In addition, it will facilitate a reexamination of the positive outcomes from the Community Conference on Subsistence and the Oil Spill sponsored by the Trustee Council in October 1995. Funds were provided in FY 97 for preliminary conference planning. Funds requested in FY 98 will be for holding the conference itself, which is scheduled to be held in Cordova in April 1998.

Chief Scientist's Recommendation

Action on this project was deferred, pending receipt and review of a full Detailed Project Description. Based on my review of the Detailed Project Description, I believe that this is a worthwhile project that will bring together village subsistence users and EVOS investigators to exchange the latest scientific knowledge and traditional and local knowledge on the status of fish and wildlife resources injured by the spill. Although I can affirm the value of this concept, I am concerned that most of the tribal councils in spill-area communities, including the Eyak Tribal Council which proposed this project, have not adopted the traditional knowledge protocols developed under project /052B. In addition, I have questions about the timing, length, and content of the conference, and about the budget. If these policy and substantive issues can be addressed satisfactorily, I recommend funding the project at a reduced level.

Trustee Council Action

Fund contingent on (1) response to the issues raised by the Chief Scientist and (2) approval of a reduced budget. This project was deferred pending receipt of a Detailed Project Description that focused the conference on the recovery of injured resources and services and involved EVOS researchers. The Detailed Project Description adequately addresses these two issues. However, the fact that the Eyak Tribal Council, and most other village councils in the spill region, have not adopted the Trustee Council's TEK protocols is a concern. It is hoped that preparation for the conference, as well as the conference itself, will lead to active consideration and adoption of the protocols. The Elders/Youth Conference is intended to create a forum for the exchange of information between Western scientific ways of knowing and traditional ways of knowing. Initial planning money for the conference, which is scheduled for March or April 1998 in Cordova, was provided by the Trustee Council in FY 97 (Project 97286). The Council sponsored a similar conference in October 1995.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Jody Seitz
UAF Herring Project
Box 2694
Cordova, Alaska 99574

RE: Project 98320T (Supp) / Herring TEK Component of SEA

Dear Jody:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved an additional $50,800 for Project 98320T/Herring TEK Component of SEA. This brings total FY 98 funding for your project to $75,900.

Before these funds may be spent, my office must receive documentation from the lead agency that NEPA (National Environmental Policy Act) requirements for the additional work have been met. In addition, we need to receive a revised budget from you that reflects the approved funding amount of $50,800. I hope that both of these steps will be taken very soon so that there is no delay in continuing this important work. If you have any questions, please contact Claudia Slater, the Trustee Council liaison for ADFG.

For your information, I have enclosed a copy of the Trustee Council's recent action on Project 98320T. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADFG Liaison
Ted Cooney, SEA Lead Scientist

12/18/97 TRUSTEE COUNCIL ACTION DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98320	Sound Ecosystem Assessment (SEA)	T. Cooney, et al/UAF	ADFG	Cont'd 5th yr. 6 yr. project	$2,383.4	$2,332.6	$50.8	**$50.8**	$755.2	$0.0	$0.0	$3,138.6

Project Abstract

This project is an integrated, multi-component study of processes influencing the annual survival of juvenile pink salmon and herring rearing in Prince William Sound. An emerging understanding of mechanisms of loss at this life stage is being captured by linked numerical simulations of ocean state, plankton dynamics, fish energetics, and prey/predator relationships. FY 98 will be the final fully-funded year of SEA, a period of reduced field work but accelerated data analysis and application of results to management models.

Chief Scientist's Recommendation

Most of the funding for the SEA project was approved previously, but action on the component related to traditional and local knowledge about herring was deferred pending review of 1997 results. I have now reviewed those results as presented in an interim report. Although I have questions about the specific applications of these data, this project is documenting information that may prove valuable for scientists and managers who are trying to understand changes in forage fish populations in Prince William Sound. I consider this project to be a pilot effort in bringing local and traditional knowledge to bear to help answer scientific questions, and I recommend funding in FY 98.

Trustee Council Action

Fund deferred component contingent on approval of a revised budget that reflects work planned for FY 98. This component, which would continue the collection of traditional and local knowledge on juvenile herring and other forage fish in Prince William Sound, was deferred pending review of FY 97 results. The review, which was favorable, indicated that in FY 98 the emphasis should be on collecting more data and interacting with scientists and managers who could benefit from the data collected. The Herring TEK work is a component of SEA, an interdisciplinary ecosystem project focused on issues relating to the survival and recruitment of pink salmon and herring. SEA is entering the final year of a five-year study effort (to be followed by one year of data analysis/report writing). The project has been the subject of numerous technical reviews, including recent review sessions on the SEA modeling efforts (February 1997) and the SEA herring effort (March 1997). Both reviews indicated strong progress toward meeting project objectives. The FY 98 recommended funding level includes $429,700 for PWSSC's FY 99 closeout costs. ADFG project management costs ($49,500) have been deducted from SEA's FY 98 request and added to Project 98250/Project Management. In FY 99, only closeout funds are expected. Submittal of the draft final report is expected April 15, 1999.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Stephen M. Murphy
ABR, Inc.
PO Box 80410
Fairbanks, Alaska 99708-0410

RE: Project 98289 / Status of Black Oystercatchers in Prince William Sound

Dear Mr. Murphy:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved $80,400 for Project 98289/Status of Black Oystercatchers in Prince William Sound.

Before the project may begin, NOAA, the lead agency for the project, must (1) provide documentation to my office that the requirements of the National Environmental Policy Act (NEPA) have been met, and (2) execute a contract with you. I hope that both of these steps will be taken very soon so that there is no delay in starting this important project. If you have any questions, please contact Byron Morris, the Trustee Council liaison for NOAA.

For your information, I have enclosed a copy of the Trustee Council action on Project 98289. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

cc: Byron Morris, NOAA Liaison

12/18/97 TRUSTEE COUNCIL ACTION DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98289-BAA	Status of Black Oystercatchers in Prince William Sound	S. Murphy/ABR, Inc.	NOAA	New 1st yr.	$80.4	$0.0	$80.4	**$80.4**		$0.0	$0.0	$80.4

Project Abstract

Black oystercatchers currently are considered to be "injured with recovery unknown." Because most of the unresolved issues for this species pertain to impacts to the breeding population in Prince William Sound, this study is designed to assess aspects of the life history (e.g., phenology and productivity) of oystercatchers that potentially are spill-related for th same population of oystercatchers that was studied during 1989 - 1993. Year 1 will entail an examination of the life-history parameters that were identified by previous researchers as having been negatively impacted by the oil spill and an evaluation of whether these birds have recovered from the previously identified impacts. Data analyses will focus on comparisons of previously oiled sites with unoiled sites and among-year analyses.

Chief Scientist's Recommendation

I previously had given this project a favorable recommendation, but a Trustee Council decision was deferred pending availability of funds. I continue to find that this is a worthwhile project. Ideally, it should be carried out and reported on in advance of the 10th Anniversary of the oil spill.

Trustee Council Action

Fund FY 98 only; additional funding in FY 99 will be considered following a review of FY 98 results. This project was deferred pending the availability of funds. The upcoming 10th Anniversary compels reassessment of the recovery status of black oystercatchers at this time. The FY 98 Invitation to Submit Restoration Proposals invited proposals for this additional monitoring.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Kathy Kuletz
U.S. Department of Interior
Fish and Wildlife Service
1011 East Tudor Road
Anchorage, Alaska 99503-6199

RE: Project 98163R / Marbled Murrelet Component of APEX

Dear Kathy:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved $112,700 for Project 98163R/Marbled Murrelet Component of APEX.

Before these funds may be spent, my office must receive documentation from the lead agency that the requirements of the National Environmental Policy Act (NEPA) have been met. I hope that this will happen very soon so that there is no delay in continuing this important work. If you have any questions, please contact Catherine Berg, the Trustee Council liaison for the Fish and Wildlife Service.

For your information, I have enclosed a copy of the Trustee Council action on Project 98163R. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Catherine Berg, USFWS Liaison

12/18/97 TRUSTEE COUNCIL ACTION DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98163	APEX: Alaska Predator Ecosystem Experiment in Prince William Sound and the Gulf of Alaska	D. Duffy, et al/UAA	NOAA	Cont'd 4th yr. 6 yr. project	$2,018.0	$1,899.5	$118.5	**$112.7**	$1,880.3	$882.1	$0.0	$4,774.6

Project Abstract

This project uses seabirds as probes of the trophic (foraging) environment of Prince William Sound, comparing their reproductive and foraging biologies, including diet, with similar measurements from Cook Inlet, an area with apparently a more suitable food environment. These measurements are compared with hydroacoustic and net samples of fish to calibrate seabird performance with fish distribution and abundance to determine the extent to which food limits the recovery of seabirds from the spill. Fish are sampled in order to compare diet, energetics and reproductive parameters of the different forage-fish species, to determine whether competitive and predatory interactions or different responses to the environment may favor the abundance of one fish species over another. In FY 98, a new sub-project (/163S-BAA) to study jellyfish is included.

Chief Scientist's Recommendation

Funding for most of this project was approved previously, but action on the marbled murrelet component was deferred pending a review of 1997 data relating the productivity index to forage fish data. Based on my review of a memorandum provided by the principal investigator and project leaders, a preliminary analysis of 1997 data indicates a very promising correspondence between murrelet productivity and the availability of forage fish in three different areas within Prince William Sound. Data of this type are fundamental to testing the APEX hypotheses, and the marbled murrelet continues to be a species of concern in the spill area. I recommend funding this project at the requested level.

Trustee Council Action

Fund deferred component with a slight reduction in personnel costs. This component, which addresses marbled murrelet productivity, was deferred pending analysis of the FY 97 data (Project 97231) for a direct link to the APEX hypotheses, namely a relationship between murrelet productivity and forage fish abundance. Preliminary analysis of the FY 97 data indicated that such a relationship exists, and the Chief Scientist has described this project as fundamental to testing the APEX hypotheses. In general, the APEX project is investigating the link between forage fish and seabird productivity. It may yield results that will benefit the marine ecosystem in Prince William Sound and the northern Gulf of Alaska.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Gary Marty, Ph.D.
Veterinary Medicine - APC
University of California
David, California 95616

Richard Kocan, Ph.D.
University of Washington
PO Box 355100
Seattle, Washington 98195

Christopher J. Kennedy, Ph.D.
Department of Biological Sciences
Simon Fraser University
Burnaby, BC V5A 1S6

Anthony P. Farrell, Ph.D.
Department of Biological Sciences
Simon Fraser University
Burnaby, BC V5A 1S6

RE: Deferred Component of Project 98162 / Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound

Dear Drs. Marty, Kocan, Kennedy, and Farrell:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved $52,000 for the herring pound component of Project 98162/Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound. This brings total FY 98 funding for your project to $517,700.

Before these funds may be spent, my office must receive documentation from the lead agency that NEPA (National Environmental Policy Act) requirements for this additional work have been met. I hope that this step will be taken very soon so that there is no

delay in continuing this important component of your work. If you have any questions, please contact Claudia Slater, the Trustee Council liaison for your administering agency.

Thank you again for your participation in the *Exxon Valdez* oil spill restoration program. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

cc: Claudia Slater, ADFG Liaison

12/18/97 TRUSTEE COUNCIL ACTION – DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98162	Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound	G. Marty/UC Davis; R. Kocan /Univ. Wash., C. Kennedy & A. Farrell, Simon Fraser Univ.	ADFG	Cont'd 4th yr. 4 yr. project	$517.4	$465.7	$51.7	**$52.0**	$0.0	$0.0	$0.0	$517.7

Project Abstract

Field and controlled laboratory studies will focus on viral hemorrhagic septicemia virus (VHS) and *Ichthyophonus hoferi*, a pathogenic fungus, to determine their role in the disease(s) and mortality observed in Prince William Sound herring since 1993. Herring will be monitored for signs of disease and immune status, while 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. Wild herring will be studied under laboratory conditions to determine the course of VHS infection associated with captivity and their immune status and susceptibility to reinfection. Protocols for field evaluation of the immune status of whole herring populations will be developed and field tested.

Chief Scientist's Recommendation

Funding for most of this project was approved previously, but action on the herring pound component was deferred pending review of the 1997 field results. I have now reviewed those results, which indicate that there is potential for spreading viral hemorrhagic septicemia from fish inside closed pounds to fish outside of the pounds. The significance of this potential remains unclear, however, as do the processes responsible for triggering viral outbreaks in the impounded fish. The principal investigators in this project are excellent. The possible management applications of their herring pound work warrant support for a second and, I hope, final field season in FY 98. I recommend funding this project.

Trustee Council Action

Fund deferred component. This component, which would continue herring pound studies begun in FY 97 (Project 97162), was deferred pending evaluation of the FY 97 work. The FY 97 results indicate there is potential for spreading viral hemorrhagic septicemia (VHS) from impounded fish to fish outside of the pound. Completing this study (FY 98 would be the final year) may have important implications for fisheries managers. In general, Project \162 is investigating the potential link between oil exposure and disease in herring, and between disease and the herring population decline in Prince William Sound. Understanding the causes of the decline and the lack of recovery is important for restoration of the herring population in the sound.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Patty Brown-Schwalenberg
Chugach Regional Resources Commission
Tudor Centre Drive, Suite 300
Anchorage, Alaska 99508

RE: Project 98131 / Chugach Native Region Clam Restoration

Dear Patty:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved an additional $208,000 for Project 98131/Chugach Native Region Clam Restoration, contingent on final award of a contract to Qutekcak Native Tribe for operation of the new shellfish hatchery. This brings total FY 98 funding for the project to $290,100.

Before these funds may be spent, in addition to finalization of the contract my office must receive documentation from the lead agency that NEPA (National Environmental Policy Act) requirements for the additional work have been met. If you have any questions, please contact Claudia Slater, the Trustee Council liaison for ADFG.

For your information, I have enclosed a copy of the Trustee Council's recent action on Project 98131. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADFG Liaison

12/18/97 TRUSTEE COUNCIL ACTION [redacted]EFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98131	Chugach Native Region Clam Restoration	P. Brown- Schwalenberg/ CRRC	ADFG	Cont'd 4th yr. 5 yr. project	$290.1	$82.1	$208.0	**$208.0**				$290.1

Project Abstract

Cost effective procedures for establishing safe, easily accessible subsistence clam populations near Native villages in the oil spill region will be established. The Qutekcak hatchery in Seward will annually provide about 800,000 juvenile littleneck clams and cockles. Historical information, local and agency expertise, and research will be used to identify areas to seed and what method to use. Total seeded area during the project will not exceed five hectares. Follow-up research on success of seeding will be conducted. Development work will be confined to areas near the Native villages of Eyak, Tatitlek, Nanwalek, and Port Graham.

Chief Scientist's Recommendation

The revised Detailed Project Description and progress report indicate improvements in conditioning of brood stock, gamete quality and larval survival in association with changes in hatchery protocols for littleneck clams. I encourage further work of this sort to improve and maintain future hatchery production. In addition, the nursery operation appears to be improved with sustained algal blooms and satisfactory growth in the Seward pond nursery as well as in the tidal FLUPSY in Prince William Sound. Beach growouts also appear to surpass expectations with survival of over 85 percent and a doubling of size in a 15-month period. The revised Detailed Project Description is properly focused on improving the hatchery protocols in order to define the optimal conditions for spawning and larval rearing, as well as maintaining production of the later stages in the FLUPSY and following up on growth of out-planted clams on beaches in Tatitlek, Eyak, Nanwalek, and Port Graham. I recommend funding the revised proposal as requested.

Trustee Council Action

Fund deferred component contingent on final award of a contract to Qutekcak Native Tribe for operation of the new shellfish hatchery. This component, which is the balance of FY 98 funding (interim funding was approved in August), was deferred pending a determination of whether Qutekcak would be awarded the contract for operation of the shellfish hatchery from the Alaska Department of Fish and Game. A decision to award the contract to Qutekcak, as a subcontract through the City of Seward, has now been made. The contract is expected to be finalized by December 30, 1997, once Qutekcak obtains a $100,000 bond and the necessary insurance. This project is an effort to establish subsistence clam populations as replacements for subsistence resources injured by the spill. The emphasis in FY 98 should be on the development of standard operating procedures that produce viable littleneck clams. Technical difficulties have been encountered at the old hatchery; it is hoped that production will improve and be sustained at the new hatchery. A decision on whether or not to provide additional funding in FY 99 will be made following a review of FY 98 progress and results.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Dr. John F. Piatt
USGS Alaska Science Center
1011 E. Tudor Road
Anchorage, Alaska 99503

RE: Project 98338 / Survival of Adult Murres and Kittiwakes in Relation to Forage Fish Abundance

Dear Dr. Piatt:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved $56,200 for Project 98338 / Survival of Adult Murres and Kittiwakes in Relation to Forage Fish Abundance.

Before these funds may be spent, my office must receive documentation from the lead agency that the requirements of the National Environmental Policy Act (NEPA) have been met. I hope that this will happen very soon so that there is no delay in starting this important project. If you have any questions, please contact Lisa Thomas, the Trustee Council liaison for USGS.

For your information, I have enclosed a copy of the Trustee Council action on Project 98338. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

cc: Lisa Thomas, USGS Liaison

12/18/97 TRUSTEE COUNCIL ACTION [redacted] EFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98338	Survival of Adult Murres and Kittiwakes in Relation to Forage Fish Abundance	J. Piatt/USGS	DOI	New 1st yr. 3 yr. project	$76.1	$0.0	$76.1	**$56.2**	$57.9	$45.0	$0.0	$159.1

Project Abstract

Some seabird populations damaged by the spill continue to decline or are not recovering. In order to understand the ultimate cause of seabird population fluctuations, productivity, recruitment, and adult survival must be measured. Current APEX (Project /163) studies are focused on measuring productivity only. Recruitment measurement demands an unrealistic study duration. This project will augment current studies in lower Cook Inlet that relate breeding success and foraging effort to fluctuations in forage fish density by using banding and resighting to quantify the survival of adult common murres and black-legged kittiwakes.

Chief Scientist's Recommendation

A decision on funding for this project had been deferred pending the results of a pilot effort (conducted with non-EVOS funds) to use subcutaneous radio tags on murres. I have reviewed an interim report on the 1997 pilot study and a revised Detailed Project Description for the FY 98 work. Although the subcutaneous radio tags were successfully used on murres this past summer, the principal investigators concluded that the cost and effort involved did not warrant pursuing this approach. The investigators have reformulated the proposal to emphasize use of conventional leg bands, which I think provide a feasible, cost-effective way to obtain important data on adult survival as a means of gaining insights into the population-level effects of food availability. This is a dimension that is missing from the current APEX program, which emphasizes the effects of food on annual productivity, and the APEX project will benefit from the work proposed here. I do not think it is essential to fund the proposed use of conventional, external radio transmitters to supplement the banding data. Otherwise, I recommend funding this project as requested.

Trustee Council Action

Fund all but purchase of radio transmitters and related laptop computers, which the Chief Scientist has indicated are not essential for meeting core project objectives. This project was deferred pending completion of an FY 97 pilot study using subcutaneous radio tags as a means of obtaining data on adult survival of murres and kittiwakes. Although the subcutaneous tags were successfully used, the researchers concluded that the cost and effort did not warrant using this approach, and the Detailed Project Description has been revised to emphasize use of conventional leg bands. The project will explore adult overwinter survival as one mechanism by which forage fish availability may be affecting the recovery of seabirds, and will complement the work on chick production and forage fish being performed under APEX (Project /163).

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Karen A. Murphy
Lowell H. Suring
U.S. Forest Service
Chugach National Forest
3301 C Street, Suite 300
Anchorage, Alaska 99503

RE: Project 98339 / Prince William Sound Human Use and Wildlife Disturbance Model

Dear Ms. Murphy and Mr. Suring:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved $139,200 for Project 98339/Prince William Sound Human Use and Wildlife Disturbance Model.

Before these funds may be spent, my office must receive documentation from the lead agency that the requirements of the National Environmental Policy Act (NEPA) have been met. I hope that this step will be taken very soon so that there is no delay in starting this important project. If you have any questions, please contact Ken Holbrook, the Trustee Council liaison for the USFS.

For your information, I have enclosed a copy of the Trustee Council action on Project 98339. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Ken Holbrook, USFS Liaison

12/18/97 TRUSTEE COUNCIL ACTION [redacted]EFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98339	Prince William Sound Human Use and Wildlife Disturbance Model	K. Murphy, L. Suring/USFS	USFS	New 1st yr. 2 yr. project	$139.2	$0.0	$139.2	**$139.2**	$53.1	$0.0	$0.0	$192.3

Project Abstract

This project will use geographic information system (GIS) techniques to describe current human-use patterns in western Prince William Sound and to model potential changes in those use patterns as a result of additional development (e.g., increased access). GIS-generated maps of present and projected human-use patterns will be incorporated with GIS maps of the distribution of resources injured as a result of the oil spill. This will provide a basis to identify areas where there may be existing and potential conflicts between human use and wildlife concentrations resulting in disturbance. Disturbance of injured wildlife may result in decreased productivity exacerbating the effects of the oil spill and prolonging the time to recover.

Chief Scientist's Recommendation

This project would assess and model impacts on injured resources and services associated with increased human uses in western Prince William Sound. The model would allow projections of future impacts from increased human access and provide a basis for evaluating and possibly changing agency management practices with respect to species injured by the oil spill. This work could be very valuable, and I recommend funding it.

Trustee Council Action

Fund. This project was deferred pending the availability of funds. Funding this year will allow the work to be coordinated with other ongoing planning efforts in Prince William Sound, such as the update of the Chugach National Forest Plan and the work being undertaken by the Alaska Department of Transportation. The project will develop and test in western Prince William Sound a model for projecting future impacts of human use on resources injured by the oil spill. The model, which will be designed to be adaptable to other locations, will provide information useful for evaluating and possibly changing agency management practices with respect to injured species. This management tool could help protect injured resources and services for many years into the future.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Eileen Bechtol, Planning Director
City of Homer
491 East Pioneer Avenue
Homer, Alaska 99603-7624

RE: Project 98314 / Homer Mariner Park Habitat Assessment and Restoration Design

Dear Ms. Bechtol:

The *Exxon Valdez* Oil Spill Trustee Council completed its action on the FY 98 Work Plan at its meeting on December 18, 1997. I am writing to inform you that the Council accepted my recommendation not to fund Project 98314/Homer Mariner Park Habitat Assessment and Restoration Design. The limited funds available for new projects in fiscal year 1998 made your project a lower priority this year. I would urge you to resubmit your proposal for the FY 99 funding cycle (proposals will be due April 15, 1998), and I fully expect the Council to reconsider it at that time.

For your information, I have enclosed a copy of the Trustee Council action on Project 98314. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Carol Fries, ADNR Liaison

12/18/97 TRUSTEE COUNCIL ACTION DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98314	Homer Mariner Park Habitat Assessment and Restoration Design Project	E. Bechtol/City of Homer	ADNR	New 1st yr. 1 yr. project	$102.1	$0.0	$102.1	**$0.0**	$0.0	$0.0	$0.0	$0.0

Project Abstract

In its present state, Mariner Park is a highly stressed marine habitat in decline. The area is experiencing a dramatic reduction in marine biota and shorebird population while incompatible and environmentally destructive human uses flourish. From the results of a comprehensive feasibility study that includes botanical, biological, and hydrological field studies coupled to community information it is possible to develop a comprehensive habitat restoration and enhancement plan. This plan will establish the optimal hands-on restoration program to increase and diversify the intertidal fauna, which in turn will benefit migrating shorebirds and promote recreationally compatible use of the area by residents and tourists.

Chief Scientist's Recommendation

I previously had given this project a favorable recommendation, but a Trustee Council decision was deferred pending availability of funds. Although I continue to find that this is a worthwhile project, it is not a high priority to start in FY 98.

Trustee Council Action

Do not fund at this time. Although the proposed habitat restoration is designed to benefit intertidal resources injured by the oil spill, the limited funds available for new projects in FY 98 make this project a lower priority this year. The Trustee Council should reconsider funding this project in FY 99. The project would produce a feasibility study and environmental review for restoration of an intertidal area damaged as a result of spill response efforts.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Walter Meganack, Jr.
Port Graham Corporation
P.O. Box 5569
Port Graham, Alaska 99603-5569

RE: Project 98263 / Assessment, Protection, and Enhancement of Wildstock Salmon Streams in Lower Cook Inlet

Dear Walter:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved $107,000 for Project 98263/Assessment, Protection, and Enhancement of Wildstock Salmon Streams in Lower Cook Inlet, contingent on (1) resolution of the technical questions raised by the Chief Scientist and approval of a detailed budget. I expect the Chief Scientist to complete his review of your response to the technical questions very soon, and hope to receive your detailed budget very soon as well. As you know, the funds approved by the Trustee Council are for the Port Graham River and Windy Creek components of your proposal.

Once the above contingencies are met, I will authorize the release of funds for Phase 1 of the project. Upon completion of Phase 1 (NEPA, other necessary permits, and engineering/design), funds will be released for Phase II. If you have any questions, please contact Bill Hauser, the ADFG project manager for your project.

For your information, I have enclosed a copy of the Trustee Council's action on Project 98263. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Bill Hauser, ADFG Project Manager
Claudia Slater, ADFG Liaison

12/18/97 TRUSTEE COUNCIL ACTION – DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98263	Assessment, Protection and Enhancement of Salmon Streams in Lower Cook Inlet	W. Meganack, Jr./Port Graham Corporation	ADFG	Cont'd 2nd yr. 4 yr. project	$135.4	$0.0	$135.4	**$107.0**	$23.6	$23.6	$0.0	$154.2

Project Abstract

This project will replace lost subsistence services resulting from the oil spill by constructing enhancement projects on major salmon streams in the Lower Cook Inlet spill area. Protection and enhancement will be implemented using instream fisheries habitat improvement techniques, primarily creation of spawning channels, removal of natural barriers to spawning, and construction of wall-based rearing structures. Local subsistence users will be employed as technical assistants during field surveys and construction.

Chief Scientist's Recommendation

A decision on funding this project was deferred pending evaluation of 1997 field results. Based on my review of an interim report of the 1997 results, the prospects for significantly increased production of coho salmon appear to be good for at least two of the five proposed stream enhancements (Port Graham River and Windy Creek). The other proposed enhancements are of more marginal value. In addition, there remain questions about the source of supplementation stock, difficulties in maintaining spawning channels, and possible harvest management issues. I also am concerned about the ambitious scope and schedule of what the Port Graham Corporation proposes to undertake in FY 98. I recommend phased funding for the two most promising enhancements, provided that technical and management questions can be resolved.

Trustee Council Action

Fund the Port Graham River ($57,000) and Windy Creek ($50,000) components only, contingent on (1) resolution of the technical questions raised by the Chief Scientist and (2) approval of a detailed budget. This project was deferred pending a review of the stream inventories conducted in FY 97 (Project 97263). The Chief Scientist's review found two of the stream projects, those on the Port Graham River and Windy Creek, to be feasible and worthwhile. However, a few technical questions need to be answered before these projects can go forward. Consistent with Trustee Council policy, funds for Project 98263 will be released in two phases: Phase I will be NEPA, necessary permits (e.g., approval by the state geneticist, endorsement by the Cook Inlet Regional Planning Team), and engineering and design. Phase II, to begin upon completion of Phase I, will be actual construction of stream improvements. The goal of this project is to protect and enhance salmon streams important to the restoration of subsistence in the Port Graham area.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 19, 1997

Kathy Frost
Alaska Department of Fish and Game
1300 College Road
Fairbanks, Alaska 99701-1559

RE: Deferred Component of Project 98064 / Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound

Dear Kathy:

The *Exxon Valdez* Oil Spill Trustee Council acted on the balance of the FY 98 Work Plan at its meeting on December 18, 1997. I am pleased to inform you that the Council approved an additional $122,500 for Project 98064/Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound. This brings total FY 98 funding for your project to $272,500.

Before these funds may be spent, my office must receive documentation from the lead agency that NEPA (National Environmental Policy Act) requirements for the additional work have been met. I hope that this will happen very soon so that there is no delay in starting this important component of your project. If you have any questions, please contact Claudia Slater, the Trustee Council liaison for your agency.

For your information, I have enclosed a copy of the Trustee Council action on Project 98064. Good luck in the coming year.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADFG Liaison

12/18/97 TRUSTEE COUNCIL ACTION DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	**Funded in December**	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98064	Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound	K. Frost/ADFG	ADFG	Cont'd 4th yr. 5 yr. project	$307.5	$150.0	$157.5	**$122.5**	$265.0	$130.0	$0.0	$667.5

Project Abstract

This project will monitor the status of harbor seals in Prince William Sound and investigate the hypothesis that food limitation to pups and juveniles is causing the ongoing decline. Aerial surveys will be conducted during molting to determine whether the population continues to decline, stabilizes, or increases. Seal pups will be satellite-tagged to describe and compare their movements, hauling out, and diving behavior to older seals and seals in other areas. Fatty acids analysis will be conducted on recent and archived blubber samples and mathematical models developed to estimate seal diets and whether they have changed since the 1970s. Special emphasis will be on pups and juveniles, the age groups most likely to be affected by food limitation.

Chief Scientist's Recommendation

The monitoring component of this project was approved previously, but action was deferred on several expanded research objectives. Based on a harbor seal program review this autumn, I strongly support continued fatty acid analyses, statistical analyses of population trend data, and population modeling. Concern about the harbor seal in Prince William Sound is now being refocused on pups and juveniles, and it is important to better understand their movements and survival rates. Continued use of satellite tags should be informative, but there are limitations and technological questions about the smaller transmitters required for use on pups. There also is need to invest additional time in the analysis of existing transmitter data. Given this need and in view of the experimental nature of the pup-sized transmitters, I recommend providing funds for about half of the ten units proposed for FY 98 (a reduction of $35,000). Otherwise, I recommend full funding for this important project.

Trustee Council Action

Fund deferred component at a reduced level. This component, which focuses on pups and juveniles, was deferred pending a review of EVOS harbor seal studies. The results of this review, held in November, support an expanded research emphasis on pups. However, the Chief Scientist has recommended a "go-slow" approach to funding additional satellite tags for pups due to their experimental nature and current limitations, and the budget has been reduced accordingly. In general, Project 98064, in collaboration with projects 98001 and 98170, will help explain the long-term decline in harbor seals in Prince William Sound. The results of the study will enable resource managers, subsistence users, and others to focus their efforts and concern on the most probable causes of harbor seal population decline.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

To: Bob Spies, Andy Gunther, Bruce Wright, Jeep Rice, Dave Duffy, Phil Mundy, Pete Peterson, Chris Haney, and George Rose

From: Stan Senner Stan
Science Coordinator

Date: December 19, 1997

Subject: Communicating Science in the Public Interest

I have enclosed two items from the National Audubon Society's *Living Oceans News* for your information.

The first is a column by Carl Safina, in which he summarizes recent remarks by Roy Hemmingway on communicating scientific information to non-scientists. There is much of relevance to EVOS here, both in terms of how we relate what we know about injury and recovery to the public and also how we discuss the future of EVOS science *vis-a-vis* the restoration reserve (e.g., item #5).

The second item is an announcement for Safina's new popular book, *Song for the Blue Ocean.* I haven't read it, nor am I promoting it, but it may be something you want to take a look at.

encl: (1)

cc: Molly McCammon

SS/ty

SCHOOL OF THOUGHT

by Carl Safina, Ph.D.

Communicating Science in the Public Interest

I'd like to share an interesting presentation from the American Fisheries Society's recent meeting in Monterey. The speech was titled "Communicating Scientific Information to Non-scientists in the Political Decision-making Process." The speaker was Roy Hemmingway, a lawyer, who is the Salmon and Energy Advisor to the Oregon governor's office.

Mr. Hemmingway focused on scientists communicating to politicians and policy makers, but his insights have much to tell us about the way most non-scientists perceive scientific information. And that has a lot to tell us about why science and real information often take a back seat as bad policy decisions are sold to the public.

Hemmingway listed five reasons that politicians don't pay much attention to scientists, but one can substitute the word "general public" for politicians. I list these with some annotation of my own:

1. Politicians are aware that scientific conclusions sometimes change over time as new knowledge accrues. A year or a decade from now, some scientific conclusions will change as more information becomes available. For some people, this makes science and scientific opinion seem little better than anyone else's opinion.

2. Politicians perceive that scientists have no constituency. Scientists think that because they represent the truth as it is known, what they say should be adopted. But truth is only one of the currencies in the political process. Clout is a more important currency. Creating a winning message is more powerful than mere truth and the public interest.

3. Politicians and the public do not understand probability. Scientific results are almost always reported as probabilities, the chance that a conclusion is true. Most scientists do not accept conclusions unless statistical tests of their data show a 95-99 percent probability that the relationships in their data are not due to chance alone. That is a basic property of modern scientific methods, but non-scientists see this as "uncertainty." And "uncertainty" is the romping ground of industry lobbyists, who, held to no standard of truth at all, earn big dollars by clawing at scientific uncertainties and tearing down carefully built scientific conclusions that have very high probabilities of being true. The old saying that perception is reality is true in politics.

4. Politicians don't have the time or judgment to sift through competing information. People making money are given more credibility than people speaking in the public interest because business is perceived as mainstream, while those not involved in making money are often viewed as outside the mainstream of society. "The eccentricity of your message should be inverse to the quality of your clothing," said Hemmingway. "If you are challenging the conventional wisdom, wear a good suit."

5. Scientists arguing for more research are seen as simply trying to feather their own nests, looking for grant money.

Hemmingway admonished the audience of scientists that it is up to them to learn how to make scientific information work in the political process. I'd add that it is also up to the public and policy makers to try to understand science better. It's a two-way street. Here are some of the solutions he offered the assembled scientists: 1. Present science as evolving knowledge, thus there is a need to hedge bets and act with caution. 2. Base judgments on evidence. 3. Familiarize decision makers with probabilities and risks involved. 4. Scientists need to learn to speak like non-scientists and translate words like heuristic, stochastic, and metapopulation, etc. 5. Scientists must understand that they are competing with other people who are trying to use information to make the opposite argument. 6. If you or a fellow scientist were wrong, admit it. You'll gain credibility and respect by doing so.

That's good advice for everyone.

Coming in December:

Song for the Blue Ocean: Encounters Along the World's Coasts and Beneath the Seas

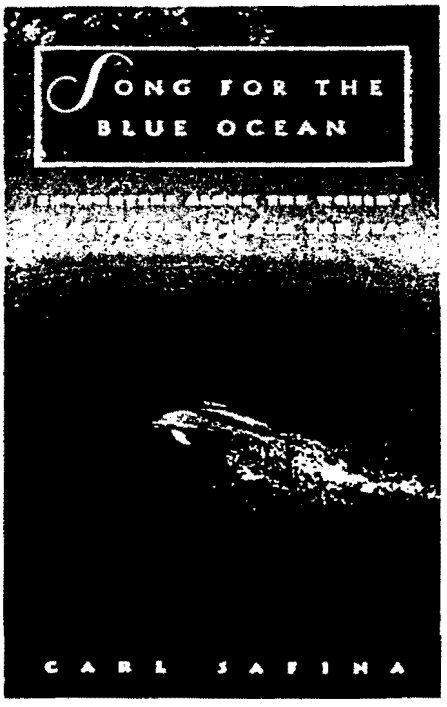
by Carl Safina (Henry Holt & Company Publishers)

Not since Rachel Carson's pioneering best-sellers, *The Sea Around Us* and *The Edge of the Sea*—published almost a half century ago—has a writer and scientist revealed the condition of today's oceans with such knowledgeable passion.

To understand the connections between the sea and our own survival, Carl Safina, director of Audubon's Living Oceans Program, probes for truth in this world tour of the oceans and their peoples. Part odyssey, part pilgrimage, this epic personal narrative follows the author's exploration of coasts, islands, reefs, and the sea's abyssal depths. Carl Safina takes readers on a global journey of discovery of the world's changing seas, deftly weaving adventure, political analysis, science, and insight into the human condition.

We accompany people whose lives and occupations with the oceans unfold in a drama of clashing personal histories and daily struggles for existence.

—John Macrae, Publisher



"Carl Safina has done what I could only dream about: he has written a plaintive, sensitive, caring, intelligent, indignant paean to his beloved waters and their threatened inhabitants. Safina takes us into the embattled world of the New England fisherman; to the salmon rivers of the American west, and to the once-pristine and lovely South Pacific Reefs. This book will make you mad as hell; it will make you marvel at the wonders he describes..."

—Richard Ellis, author of *Men and Whales*, and *Deep Atlantic*

"Sad, serious, wondrous, wise, provocative, funny, full of adventure, but above all, *Song for the Blue Ocean* is inspirational..."

—Sylvia Earle, author of Sea Change

To order in December, contact your local bookstore, or call 1-800-288-2131 to order by credit card

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

To: Dianne Munson, Ginny Fay, and Chris Brodersen, Project 97291
Alex Wertheimer and Ron Heintz, Project 97076
Dr. Gordon Reeves, Project 97145
Dr. Mike Castellini, Project 97001
Monica Riedel and Dr. Vicki Vanek, 97244

From: Stan Senner
Science Coordinator

Date: December 19, 1997

Subject: Community Facilitators' Meeting

I believe that all but one of you has confirmed your participation in the Community Facilitators' meeting on January 28, 1997, which is the day before the 1998 Restoration Workshop. The facilitators' meeting will be held in the large conference room at the Restoration Office in Anchorage. The meeting begins at 9 a.m., but the presentations and discussions involving EVOS project leaders and principal investigators do not begin until 1 p.m. This should be helpful to those of you who will be coming from out of town.

I have enclosed a draft agenda. If there is a problem with the particular time you are down for, please let me know, and I will see if the times can be juggled to suit your schedule.

We have allowed 45 minutes for each project. The idea is that there should be a presentation of about 20 minutes, which will then be followed by Q&A and discussion. Please remember that the facilitators are not scientists, so focus your talk on the main points and use a minimum of jargon.

encl: (1)

cc: Molly McCammon, Executive Director
Sandra Schubert, Project Coordinator
Hugh Short, Community Involvement Coordinator
Restoration Liaisons and Work Force
Rita Miraglia, ADF&G Subsistence Division
Henry Huntington, Project 98052B
Bob Spies, AMS

SS/ty

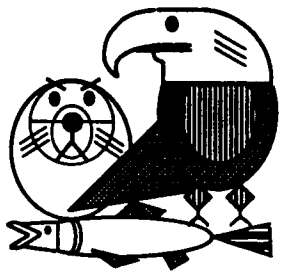
DRAFT

DRAFT

Traditional Ecological Knowledge Advisory Group Meeting
Community Facilitator Meeting
Restoration Workshop Session
***Exxon Valdez* Restoration Office - Anchorage**
January 28, 1997

9:00 am	Traditional Ecological Knowledge Advisory Group - Update of TEK Training Workshops and Synthesis Workshops
9:30 am	Discussion of status of TEK project
10:30 am	Break
10:45 pm	Community Facilitator Workshop - Discussion of DCRA projects submitted, EVOS project proposals to be drafted, administrative issues, and open discussion
12:00 pm	Lunch on your own
1:00 pm	Project 97291, Chenega Bay Oil Cleanup - Dianne Munson, Ginny Fay, and Chris Broderson
1:45 pm	Project 97076, Effect of Oil on Pink Salmon Straying and Survival - Alex Wertheimer and Ron Heintz
2:30 pm	Break
2:45 pm	Project 97145, Anadromous and Resident Forms of Cutthroat Trout and Dolly Varden in the Prince William Sound - Dr. Gordon Reeves
3:30 pm	Project 97001, Harbor Seal Condition and Health Status - Dr. Mike Castellini
4:15 pm	Project 97244, Community-Based Harbor Seal Management and Biosampling - Monica Riedel and Dr. Vicki Vannick
5:00 pm	Closure

Exxon Valdez Oil Spill Trustee Council
Restoration Office
645 G Street, Suite 401, Anchorage, Alaska 99501-3451
Phone: (907) 278-8012 Fax: (907) 276-7178



December 18, 1997

Andrew Richlen
Saint Jude The Apostle School
4926 West Bluemound Road
Milwaukee, WI 53208

Dear Mr. Richlen:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

On this CD-ROM you will find the EVOS Geographic Information System Database and Data Dictionary, 1989 State/Federal Trustee Council Hydrocarbon Database, the EVOS Project Bibliography, as well as an instruction booklet.

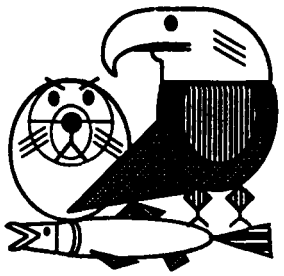
I hope you will find this information useful.

Sincerely,

Eric Myers
Director of Operations

EM/kh
Enclosures (2)

Exxon Valdez Oil Spill Trustee Council
Restoration Office
645 G Street, Suite 401, Anchorage, Alaska 99501-3451
Phone: (907) 278-8012 Fax: (907) 276-7178



December 18, 1997

Richard Metzger
2725 Willeys Lake Road
Custer, WA 98240

Dear Mr. Metzger:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

On this CD-ROM you will find the EVOS Geographic Information System Database and Data Dictionary, 1989 State/Federal Trustee Council Hydrocarbon Database, the EVOS Project Bibliography, as well as an instruction booklet.

I hope you will find this information useful.

Sincerely,

Eric Myers
Director of Operations

EM/kh
Enclosures

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

FAX MEMORANDUM

TO: Walter Meganack, Jr. / Port Graham Corporation
FROM: Sandra Schubert / Project Coordinator
RE: Budget for Project 98263/Port Graham Stream Enhancements
DATE: December 17, 1997

Just a quick note to let you know that we have reviewed your letter and budget dated December 15, 1997. Molly will still recommend that the Trustee Council approve $107,000 for Project 98263, not the additional $19,000 that your letter requests. We continue to feel that $107,000 is adequate for the work proposed.

Any funds the Council approves will be released only after Molly is assured that the technical questions raised by the Chief Scientist are resolved and a satisfactory budget has been submitted. The Chief Scientist has not yet reviewed your most recent letter (December 10), but there may need to be a meeting (maybe just a phone conversation) between you and your project folks and Bob Spies and Stan Senner on some of the project's technical aspects. If needed, there also can be further discussion of the budget, although I think the prospect of additional funding in FY 98 (beyond the $107,000) is unlikely.

I would urge you to take another look at your budget and see if it can be reconfigured to meet the $107,000 funding level. You will need to submit your budget on the Trustee Council's budget forms, which ask for an explanation of how you developed your budget estimate. For example, how was the $20,500 in personnel costs derived for Phase 1 of the Port Graham River project? What tasks would be performed, by whom, and at what level of pay? Bill Hauser at the Alaska Department of Fish and Game has offered to assist you with this task. He has electronic copies of the Council's budget forms and is knowledgeable about the level of detail we require.

In preparing your budget, please include engineering/design in Phase I. It is my understanding that the design work must be done in order to complete the NEPA and permitting processes. In addition, as Molly mentioned in her December 5 letter, Phase II funds will be released once it is known just what will be constructed and at what cost.

Please feel free to call if you have any questions. Thanks.

cc: John Hall, Taiga Resource Consultants
Bill Hauser, ADFG

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

TO: Accounting Department
Alaska Department of Fish & Game

FROM: Eric F. Myers
Director of Operations

DATE: December 16, 1997

SUBJ: Return Warrant

I am requesting a Return Warrant in the amount of $59.95. Please make the warrant payable to PBD, Incorporated. The warrant is to purchase the book *Managing Investment Portfolios*, 909003. (A copy of the sales quote is attached.) The warrant should be coded to 11981600/11981600/74229.

Please contact Tami Yockey at theTrustee Council Restoration Office (278-8012) when the warrant is ready to be picked up.

Thank you.

ty

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

TO: Marcia Blaszak, Claudia Slater, Tom Allen, Gordon Nelson, E. Lee Gorsuch, David B. Allen, John Goll

FROM: Molly McCammon

DATE: December 12, 1997

SUBJ: ARLIS Founders Board - Draft Operating Procedures

As promised, please find attached Draft Operating Procedures for the ARLIS Founders Board for your review and comment. This is a draft that has received some initial review from ARLIS staff and should be considered a working document.

A couple of issues deserve special note.

Budget cycle. A draft scenario is offered regarding a Founders Board annual budget cycle (p. 3). Given the varies budget cycles used by different agencies, any suggestions are most welcome.

Provisions from MOU and ADF&G Joinder. You will note that portions of the procedures reflect provisions taken directly from the MOU and the ADF&G Joinder. This was done deliberately in order to consolidate procedural information in one place for easy reference so that multiple documents would not have to be read simultaneously. A careful effort was made to ensure that no substantive changes were made.

Please review this draft and provide me or Eric Myers of my staff with any comments or suggestions you may have at 278-8012.

OPERATING PROCEDURES

Alaska Resources Library and Information Service

INTRODUCTION

Purpose. These operating procedures provide guidance for the operation of the Founders Board of the Alaska Resources Library and Information Services (ARLIS) consistent with the provisions and authority of the Memorandum of Understanding (MOU) signed and dated September 15, 1997 and the Statement of the Alaska Department of Fish and Game Regarding Participation in the MOU dated October 21, 1997.

Amendments. These procedures can be revised and amended by the Founders Board at any time.

Relationship. These procedures augment federal and state agency procedures but do not supersede or replace any agency's legal or regulatory requirements. Agencies participating in ARLIS are responsible for ensuring that all other procedures, regulations or laws applicable to the agency for procurement, contracting or other matters are followed.

OPERATING PROCEDURES

Founding agencies. Any publicly funded or nonprofit entity that signs the MOU and annually contributes a founders share for the ARLIS will serve as a founding agency. Founding agencies shall enter into appropriate contractual relationships to provide for payment, services or transfer of property. Founding agencies, as of December 1997, include:

University of Alaska Anchorage (UAA);
Bureau of Land Management, Alaska (BLM-AK);
National Park Service (NPS);
U.S. Fish and Wildlife Service (USFWS)
Minerals Management Service (MMS);
U.S. Geological Survey (USGS);
Exxon Valdez Oil Spill Trustee Council (EVOS TC); and
Alaska Department of Fish and Game (ADF&G).

- **Founders share.** A founders share shall consist of the expenditure of at least $40,000 through cash, personnel, and/or the purchase of new equipment. (The value of existing collections at the time of initial co-location will not contribute to the calculation of the founders share. However, amounts expended to directly purchase goods or services needed for the operation of ARLIS will be considered in-kind contributions to be included in calculation of the founders share.)

- **University of Alaska**. Consistent with the MOU, in the case of UAA:

  — Donation of administrative charges. The UAA founders share may be composed of a donation of all or part of normal administrative charges. In lieu of UAA's ordinary 27% administrative overhead, UAA will charge ARLIS 18% overhead on all costs, excluding rent, in-kind contributions and costs of the accounting clerk position. The difference of 9% may contribute to the calculation of UAA's founders share.

  — Recovery of cash outlay. In recognition of the extraordinary contribution of support by UAA, to the extent that moneys are received for the operation of ARLIS in excess of the annual budget requirements for a given year, UAA shall be entitled to recoup of all or part of the UAA $50,000 cash outlay contribution. Requests to recover part or all of UAA's $50,000 cash outlay contribution in a given year shall be presented by UAA to the Founders Board at the earliest possible time so that any necessary adjustments in the annual budget can be made in a timely manner.

- **Collections, materials and equipment**. A founding agency shall agree to combine, to the extent allowable by applicable law, its collection of books, book shelves, library furniture, equipment, and computers and to provide an inventory of its contribution.

Founders Board. A representative of each founding agency shall be represented on the Founders Board. Members of the Founders Board shall be executives of the founding agencies in Alaska or their duly designated representatives.

- **Chair**. The Founders Board shall annually choose a Chair from among the Board who shall preside at meetings of the Board. The chair may participate in discussion and debate at the meetings and shall vote on all questions properly before the Founders Board. ARLIS staff shall assist the Chair with the scheduling of meetings and providing other administrative support.

- **Secretary**. The Founders Board shall annually choose a Secretary from among the Board who shall be responsible for ensuring that minutes reflecting actions and decisions of the Board are recorded and maintained. ARLIS staff shall assist the Secretary and provide necessary administrative support to maintain records of meetings and actions. Written minutes shall be approved by the Founders Board and shall constitute the official record of the Founders Board.

DRAFT

- **Meetings**. The Founders Board shall meet at least twice a year, or more frequently as necessary, at the call of the Chair.

- **Quorum**. A quorum of two-thirds of the total Founders Board membership shall be required to convene a meeting.

- **Decision by consensus**. The Founders Board shall take action and make all decisions on the basis of consensus among the founding agencies. All actions by the Founders Board shall be taken at convened meetings except in the case where emergency action is required.

- **Budget**. The Founders Board shall approve the ARLIS annual budget providing for the allocation of expenses among the founding agencies and approve any necessary amendments to the budget.

  — Fiscal Year. ARLIS will operate on a federal fiscal year basis (October 1 - September 30).

  — Annual Operating Budget. Founding agencies shall prepare draft budgets for submission to the Founders Board by April 15 of each year with final action to be taken of the annual budget by the Founders Board by July 15. The founding agencies shall enter into appropriate contractual relationships to ensure that the ARLIS annual budget is met.

- **Recusal**. In the event that a Founders Board member believes he or she must recuse himself or herself from voting, the Board member shall request the decision be deferred until a designated alternate is available to vote.

- **Action on withdrawals**. The Founders Board shall act on all written notices of withdrawal within thirty (30) days of the receipt of written notice to withdraw (see below).

- **Executive sessions**. Executive sessions shall be kept to a minimum and shall be used only for discussion of matters concerning confidential personnel issues, litigation or legal advice, or other matters included under AS 44.62.310(c) or other applicable State or federal laws.

- **Emergency Action**. In the event of an emergency requiring Founders Board action before a meeting can be held, the Chair of the Board, or their designate, may poll the Founders Board and authorize action upon a determination of unanimous agreement by Board members. Decisions or actions authorized on this basis must be recorded in the minutes of the Founders Board together with an explanation and justification regarding the need to take emergency action.

Participating Agencies. Any publicly funded or nonprofit entity that signs the MOU and annually contributes a participating share of at least $5,000 shall be a Participating Agency. A Participating Agency shall establish appropriate contractual relationships for the contribution of a participating share or any other materials or equipment.

Withdrawal. Any founding agency or participating agency may withdraw from the ARLIS and the MOU at any time, effective upon at least thirty (30) days written notice to the Founders Board and cancellation of any underlying contractual obligations.

- **Return of property, equipment and materials.** Unless specific provision is otherwise made through contractual agreement, all property, furniture and other materials contributed by a withdrawing founding agency shall be returned to that agency along with any additions, accretions or updates after the effective date of withdrawal from ARLIS as determined by the Founders Board.

  — If the withdrawing founding agency's annual contribution was allocated for specific acquisitions, the release of the acquired item(s) to the agency will satisfy the agency's pro rata share.

  — If the withdrawing founding agency's contribution was not allocated for specific acquisitions, the withdrawing founding agency shall be entitled to a pro rata share of materials purchased with funds designated for ARLIS.

  — The precise pro rata share shall be determined by the Founders Board taking into account the relative contributions of all other Founding agencies and Participating agencies to ensure that the share of materials returned constitutes a value commensurate with the withdrawing agency's contribution.

  — Upon withdrawal from the MOU, a participating agency shall not be entitled to a pro rata share of materials purchased with funds designated for ARLIS.

- **Expenses.** Expenses associated with the removal and return of property, furniture, books, collection materials or other items (e.g., costs for moving, freight, storage, etc.) at the initiation of the withdrawing agency shall be the responsibility of that agency.

Governing Procedures. The current edition of *Roberts Rules of Order* will be used by the Chair to govern meetings of the Founders Board.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 11, 1997

Edgar Shangin, President
Bay View Incorporated
5531 Rabbit Creek Road
Anchorage, Alaska 99516

Mr. Shangin:

Your letter dated November 24, 1997, conveying your desire to nominate lands owned by Bay View Incorporated for consideration under the *Exxon Valdez* Trustee Council's habitat protection program has been received.

In order for a parcel to be considered for the program, a nomination form must be submitted by the landowner to address certain questions about the nominated lands and the injured resources and services associated with the lands. Please find a copy of the nomination packet attached. This packet includes information on the habitat protection process and a list of injured resources and services. When a nomination is received, the parcel is reviewed by Trustee Council agency personnel to determine the value of the lands to the habitat protection program.

Should you have questions regarding the nomination form or the habitat protection process in general, you may wish to contact Mr. Gary Muehlenhardt of the U.S. Fish & Wildlife Service who could assist you. He can be reached at 786-3388. Mr. Muehlenhardt is very familiar with the Alaska Peninsula National Wildlife Refuge area and the Trustee Council habitat protection program. Also, the U.S. Fish & Wildlife Service would be the most likely agency to have an interest in sponsoring this parcel for acquisition.

Thank you for your interest in the Trustee Council's habitat protection program.

Sincerely,

Eric F. Myers
Director of Operations

EFM/ty

Enclosure

cc: Gary Muehlenhardt, USFWS

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 11, 1997

David O'Brian
EMCON Alaska
4701 Business Park Blvd.
Suite 36
Anchorage, AK 99503

Dear Mr. O'Brian:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

On this CD-ROM you will find the EVOS Geographic Information System Database and Data Dictionary, 1989 State/Federal Trustee Council Hydrocarbon Database, the EVOS Project Bibliography, as well as an instruction booklet.

I hope you will find this information useful.

Sincerely,

Eric Myers
Director of Operations

EM/kh
Enclosures

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 12, 1997

Scott Rapp
190 East Louis Place
Iselin, New Jersey 08830

Dear Mr. Rapp :

Governor Knowles has asked me to respond to your electronic mail message regarding the *Exxon Valdez* Oil Spill Trustee Council restoration program. I want to provide you with an update on the restoration program and respond to the issues you have identified.

As you may be aware, the *Exxon Valdez* Oil Spill Trustee Council formally adopted a *Restoration Plan* in November 1994. This was the result of an extensive public process including preparation of a full Environmental Impact Statement. Thousands of Alaskans, as well as individuals from across the nation, contributed to the making of the final *Restoration Plan* that the Trustee Council uses to guide its decisions regarding use of the civil settlement funds. Under the *Restoration Plan*, the Council has identified a comprehensive and balanced approach to restoration that includes both habitat protection and an on-going scientific research and monitoring program to restore the biological resources, as well as the human services dependent upon those resources, that were injured by the *Exxon Valdez* oil spill.

Since first embarking upon the large parcel habitat protection program, the Trustee Council has either completed transactions or had offers accepted by landowners for purchases to protect more than 490,000 acres of land throughout the spill area for a total commitment of $269.6 million from settlement trust funds. This includes purchases of lands, or interests in lands, to expand the Kachemak Bay State Park on the Kenai Peninsula; land on Afognak Island in the vicinity of Seal Bay/Tonki Cape; land along Orca Narrows in eastern Prince William Sound; large portions of southern Kodiak Island; a large part of Shuyak Island at the northern end of the Kodiak archipelago; and land purchased from the Chenega Corporation in western Prince William Sound. Accepted offers that are in the final stages of completion include lands owned by the Tatitlek Corporation in northern Prince William Sound, lands in eastern Prince William Sound owned by the Eyak Corporation, and lands owned by English Bay Corporation within the Kenai Fjords National Park. Further, negotiations are on-going with the Afognak Joint Venture to protect additional lands on northern Afognak Island.

The Trustee Council can only work with willing private landowners. In nearly all cases, this has resulted in protection agreements that combine conservation easements and fee simple purchases. The Council's ability to successfully negotiate twelve large parcel protection packages is perhaps the best evidence of working cooperatively with these Native landowners.

The Trustee Council also has a substantial scientific research and monitoring program. Effective restoration efforts require an understanding of what is limiting the recovery of the injured species. This includes scientific research regarding the status and condition of resources: whether they are recovering, whether restoration activities are successful, and what factors may be constraining further recovery. One of the largest on-going research projects supported by the Council -- the Sound Ecosystem Assessment project -- was initiated and developed at the behest of Cordova area fishermen and community residents. This is a ground breaking investigation of ecosystem influences on the recovery and health of salmon and herring. Other parts of the Council's long-term restoration research and monitoring effort, especially matters involving questions of fishery genetics, marine birds, and marine mammals, will be conducted at the research facilities now being constructed at the Alaska SeaLife Center in Seward. For example, this facility will provide world class laboratory-based facilities to help address important questions regarding the health of the Steller sealion, a species that has declined dramatically and is widely recognized as endangered. You should also know that there no facilities being considered, designed or constructed at the Alaska SeaLife Center to accommodate whales.

The Council members consider public accountability to be an essential aspect of their trust responsibility and just recently concluded an independently contracted audit. To ensure the highest caliber of scientific research, the Council has in place a scientific peer review process that involves independent scientists from across the nation under the guidance of an independent Chief Scientist. On a number of occasions the Trustee Council has discussed the idea of a National Academy of Sciences (NAS) review of the restoration program and has repeatedly indicated its willingness to cooperate with the NAS or any other organization wishing to conduct a review.

With respect to the Restoration Reserve, you should know that this "savings account" can be used by the Council at any time for any purpose consistent with the court approved settlement. The Trustee Council is currently seeking public comment on how to use the Restoration Reserve and your comments will be included among those provided. Finally, pursuit of the "re-opener clause" remains an open matter.

Thank you for your comments. I will make sure that the Trustee members each receive a copy of your e-mail. For your reference, I have also enclosed the most recent annual status report for the Trustee Council that will provide additional information regarding our restoration activities and have added you name to our newsletter mailing list.

If you have any further questions, please do not hesitate to contact me or Eric Myers at (907) 278-8012.

Sincerely,

Molly McCammon
Executive Director

cc: Governor Tony Knowles

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 10, 1997

Jody Seitz
UAF Herring Project
Box 2694
Cordova, Alaska 99574

RE: Deferred Component of Project 98320T / Herring TEK

Dear Jody:

I am writing to inform you of my recommendation that the *Exxon Valdez* Oil Spill Trustee Council approve an additional $50,800 for the local and traditional knowledge component of Project 98320T, contingent on approval of a revised budget detailing how these funds will be spent. (The $50,800 includes University indirect charges and agency general administration costs.) The technical review of your project was favorable, as outlined in the enclosed memorandum from the Chief Scientist. Dr. Spies offers several comments on the project that I would ask you to take into consideration as your work continues.

My recommendation on your project will be considered by the Trustee Council at its meeting December 18. If the Council adopts my recommendation, funds will be released as soon as the above contingency is met and the administering agency provides my office with documentation of NEPA (National Environmental Policy Act) compliance.

If you have any questions about my recommendation, please give me a call.

Sincerely,

Steve Senn for Molly McCammon

Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADFG Liaison
Ted Cooney, SEA Lead Scientist

APPLIED
marine
SCIENCES

December 3, 1997

To: Molly McCammon
Executive Director
Exxon Valdez Oil Spill Trustee Council

From: Robert Spies, Chief Scientist

Re: Recommendation on "Local and traditional knowledge of herring and other forage fish" (98320T--Supp)

In August of this year the Trustee Council approved $25.1 K for this project, and deferred $50.8K. The allocation of the deferred funds is dependent on a review of the 1997 report submitted by Jody Seitz, the Principal Investigator. The report was recently received and has been reviewed. I provide the following comments.

1. The report reflects both work accomplished and work yet to be done. The major accomplishment so far is completion of 39 separate interviews with those who have local knowledge in Prince William Sound. Some of the data have been plotted on maps, and these are impressive.

2. Although the data on presence of juvenile herring and other forage fishes in Prince William Sound is impressive, there are a couple of considerations that need to be kept in mind. First, it should be made clear to the reader in presenting this data that the absence of data could either be interpreted as no observations were made, or that observations being made and no fish were seen. This is a very important distinction, as the universe of observations (all places and times where the interviewees could have observed fish) has not been defined. In other words, this data is mainly affirmative-indicating that fish were seen in certain places at certain times and should not be used to indicate that fish were absent from other places and times. Second, it was not entirely clear to me what each of the colored circles represents on the maps. Does this circle represent the observations of one interviewee during one time period ? If not, is there a way of weighting the data so that the locations with the most observations are given more emphasis ?

3. Some of the more important qualitative information has not yet been compiled and presented. For example, the fact that some schools of fish reflect certain colors when they "flash" and can be used to distinguish species is intriguing and useful information. This reminds me that a Marshalese taught me to parrot fish on shallow reefs in windy conditions by looking into the face of small wavelets where the images of fish briefly but clearly appeared as the wave passed over them. These are ways of seeing the environment that represent real skills that could greatly benefit the scientific culture. They are also skills that the "non-scientist" can rightly be proud of.

55 Las Positas Court, Suite S Livermore, CA 94550 510.373.7142 FAX 510.373.7834

4. Very little emphasis has yet been given to how the data being gathered will be useful to herring scientists and managers in PWS. More interaction of this sort would be useful to bring into the final year of work.

5. It appears that most of the work outside of Prince William Sound is being dropped. This is unfortunate as the historical value of TEK from Lower Cook Inlet and Kodiak Island is great. The budget should be checked for consistency with this change of scope.

Recommendation

Overall, this project is documenting some very valuable information of great potential use for scientists and managers trying to understand changes in forage fish populations in PWS. Increased emphasis on capturing and compiling more qualitative observational data, recognizing the limitations of the existing data, and involving scientists and managers who are the beneficiaries of the traditional and local knowledge are useful directions for the project in the coming year. The budget should also be adjusted for the change of scope.

cc: S. Senner
S. Schubert

****
*** ACTIVITY REPORT ***
****

TRANSMISSION OK

TX/RX NO.	7905
CONNECTION TEL	2672464
CONNECTION ID	SULLIVAN-SLATER
START TIME	12/10 16:37
USAGE TIME	02'05
PAGES	3
RESULT	OK

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 10, 1997

Drew Luellen
3709 Hillsborough Street
Raleigh, NC 27607

Dear Mr Luellen:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

On this CD-ROM you will find the EVOS Geographic Information System Database and Data Dictionary, 1989 State/Federal Trustee Council Hydrocarbon Database, the EVOS Project Bibliography, as well as an instruction booklet.

I hope you will find this information useful.

Sincerely,

Molly McCammon
Executive Director

MM/kh
Enclosures (2)

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 10, 1997

Patricia Hans
Norwich Tech High School
590 New London Turnpike
Norwich, CT 06360

Dear Ms. Hans:

Please find enclosed a copy of the *Exxon Valdez* Oil Spill (EVOS) Research and Restoration Information Project CD-ROM. It was funded by the Trustee Council and developed by the Alaska Department of Natural Resources and the United States National Oceanic and Atmospheric Administration.

On this CD-ROM you will find the EVOS Geographic Information System Database and Data Dictionary, 1989 State/Federal Trustee Council Hydrocarbon Database, the EVOS Project Bibliography, as well as an instruction booklet.

I hope you will find this information useful.

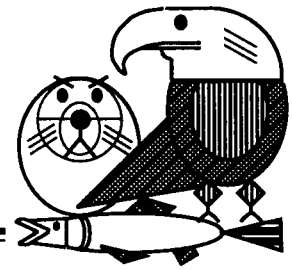
Sincerely,

Molly McCammon
Executive Director

MM/kh
Enclosures (2)

Exxon Valdez Oil Spill Trustee Council

Restoration Office
645 G Street, Suite 401, Anchorage, Alaska 99501-3451
Phone: (907) 278-8012 Fax: (907) 276-7178



December 9, 1997

Kathy Kuletz, Project 98163R Principal Investigator
Dave Irons, Migratory Bird Management
U.S. Department of Interior
Fish and Wildlife Service
1011 East Tudor Road
Anchorage, Alaska 99503-6199

RE: Deferred Project 98163R / Marbled Murrelet Component of APEX

Dear Kathy and Dave:

I am writing to inform you of my recommendation that the *Exxon Valdez* Oil Spill Trustee Council approve $112,700 for Project 98163R/APEX Marbled Murrelet Component. This amount represents a reduction from 11 to 10 months in personnel costs for Ms. Kuletz, in response to project approval being deferred two months into the fiscal year.

Please submit a revised detailed budget in the amount of $112,700 (including agency general administration costs) by December 15, 1997 if at all possible. My recommendation on your project will be considered by the Trustee Council at its meeting December 18. If the Council adopts my recommendation, funds will be released as soon as the administering agency provides my office with documentation of NEPA (National Environmental Policy Act) compliance.

If you have any questions about my recommendation, please give me a call.

Sincerely,

Molly McCammon
Executive Director

cc: Catherine Berg, DOI-USFWS Liaison

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

FAX COVER SHEET

FAXED

To: See below Number:

From: Sandra Schubert Date: December 9, 1997

Comments: Total Pages: 2

To: Kathy Kuletz
David Irons
Catherine Berg

HARD COPY TO FOLLOW Yes

Document Sent By: Keri Dile

3/27/96

****
*** MULTI TRANSACTION REPORT ***
****

TX/RX NO. 7874

INCOMPLETE TX/RX

TRANSACTION OK [20] 7863350 C.BERG
7863641

ERROR

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

TO: Trustee Council

THROUGH: Molly McCammon
Executive Director

FROM: Traci Cramer
Administrative Officer

DATE: December 9, 1997

RE: Financial Report as of November 30, 1997

Attached is the Statement of Revenue, Disbursements and Fees, and accompanying notes for the *Exxon Valdez* Joint Trust Fund for the period ending November 30, 1997.

The following is a summary of the information incorporated in the notes and contained on the statement.

Liquidity Account Balance	$54,719,138	
Plus: Current Year Adjustments (Note 5)	44,500,000	
Plus: Other Adjustments (Note 6)	1,910,550	
Uncommitted Fund Balance		$101,129,688
Plus: Future Exxon Payments (Note 1)	$210,000,000	
Less: Remaining Reimbursements (Note 3)	10,000,000	
Less: Remaining Commitments (Note 7)	40,305,734	
Total Estimated Funds Available		$260,823,954
Restoration Reserve		$52,036,708

If you have any questions regarding the information provided please do not hesitate to give me a call at 586-7238.

Attachments

cc: Agency Liaisons
Bob Baldauf

NOTES TO THE STATEMENT OF REVENUE, DISBURSEMENTS AND FEES
FOR THE *EXXON VALDEZ* JOINT TRUST FUND
As of November 30, 1997

1. Contributions - Pursuant to the agreement Exxon is to pay a total of $900,000,000.

Received to Date	$620,000,000
Current Year	$0
Future Payments	$210,000,000

2. Interest Income - In accordance with the MOA, the funds are deposited in the United States District Court, Court Registry Investment System (CRIS). All deposits with CRIS are maintained in United States government treasury securities with maturities of 100 days or less. Total earned since the last report is $262,487.

3. Reimbursement of Past Costs - Under the terms of the agreement, the United States and the State are reimbursed for expenses associated with the spill. The remaining reimbursements represents that amount due the State of Alaska.

4. Fees - CRIS charges a fee of 7.5% for cash management services. Total paid since the last report is $19,686.55.

5. Current Year Adjustments -- Includes the current year payment (less reimbursements), the transfer of $12,000,000 into the Restoration Reserve and the following land payments.

Seller	Amount	Due
Shuyak	$4,000,000	October 1998
Koniag, Incorporated	$4,500,000	September 1998

6. Other Adjustments - Under terms of the Agreement, both interest earned on previous disbursements and prior years unobligated funding or lapse are deducted from future court requests. Unreported interest and lapse is summarized below.

	Interest	Lapse
United States	$38,289	$1,228,170
State of Alaska	$591,419	$52,672

7. Remaining Commitments - Includes the following land payments.

Seller	Amount	Due
Shuyak	$12,000,000	October 1998 through 2001
Shuyak	$11,805,734	October 2002
Koniag, Incorporated	$16,500,000	September 2002

STATEMENT OF REVENUE, DISBURSEMENT, AND FEES
***EXXON VALDEZ* OIL SPILL JOINT TRUST FUND**
As of November 30, 1997

	1995	1996	1997	To Date 1998	Cumulative Total
REVENUE:					
Contributions: (Note 1)					
Contributions from Exxon Corporation	70,000,000	70,000,000	70,000,000	0	620,000,000
Less: Credit to Exxon Corporation for clean-up costs incurred					(39,913,688)
Total Contributions	70,000,000	70,000,000	70,000,000	0	580,086,312
Interest Income: (Note 2)					
Exxon Corporation escrow account					831,233
Joint Trust Fund Account	5,706,667	3,963,073	2,971,070	477,767	18,828,577
Total Interest	5,706,667	3,963,073	2,971,070	477,767	19,659,810
Total Revenue	**75,706,667**	**73,963,073**	**72,971,070**	**477,767**	**599,746,122**
DISBURSEMENTS:					
Reimbursement of Past Costs: (Note 3)					
State of Alaska		3,291,446	5,000,000	0	91,559,288
United States	2,697,000	0	0	0	69,812,045
Total Reimbursements	2,697,000	3,291,446	5,000,000	0	161,371,333
Disbursements from Liquidity Account:					
State of Alaska	41,969,669	43,340,950	17,846,130	0	172,791,328
United States	48,019,928	31,047,824	60,101,802	0	160,604,322
Transfer to the Restoration Reserve		35,996,231	12,449,552		48,445,783
Total Disbursements	89,989,597	110,385,004	90,397,484	0	381,841,433
FEES:					
U.S. Court Fees (Note 4)	586,857	396,307	254,221	35,833	1,814,218
Total Disbursements and Fees	**93,273,454**	**114,072,758**	**95,651,705**	**35,833**	**545,026,984**
Increase (decrease) in Liquidity Account	**(17,566,788)**	**(40,109,685)**	**(22,680,635)**	**441,934**	**54,719,138**
Liquidity Account Balance, beginning balance	134,634,311	117,067,523	76,957,839	54,277,204	
Liquidity Account Balance, end of period	117,067,523	76,957,839	54,277,204	54,719,138	
Current Year Adjustments: (Note 5)					44,500,000
Other Adjustments: (Note 6)					1,910,550
Uncommitted Liquidity Account Balance					**101,129,688**
Future Exxon Payments (Note 1)					210,000,000
Remaining Reimbursements (Note 3)					(10,000,000)
Remaining Commitments: (Note 7)					(40,305,734)
Total Estimated Funds Available					**260,823,954**
Restoration Reserve					**52,036,708**

Statement 1

Statement of *Exxon Valdez* Settlement Funds
As of November 30, 1997

Beginning Balance of Settlement	900,000,000
Receipts:	
Interest Earned on Exxon Escrow Account	337,111
Net Interest Earned on Joint Trust Fund (Note 1)	17,014,359
Interest Earned on United States and State of Alaska Accounts	5,949,619
Total Interest	23,301,089
Disbursements:	
Reimbursements to United States and State of Alaska	161,371,333
Exxon clean up cost deduction	39,913,688
Joint Trust Fund deposits	419,546,212
Total Disbursements	620,831,233
Funds Available:	
Exxon Future Payments	210,000,000
Current Year Payment	70,000,000
Balance in Liquidity Account	54,719,138
Future acquisition payments (Note 2)	(48,805,734)
Alaska Sealife Center	0
Remaining Reimbursements	(15,000,000)
Other (Note 3)	1,910,550
Total Estimated Funds Available	272,823,954
Restoration Reserve	52,036,708

Note 1: Gross interest earned less District Court registry fees.
Note 2: Includes both current year and future year payments
Note 3: Adjustment for unreported interest earned and lapse

Footnote:

Included in the Total Estimated Funds Available is the $12,000,000 payment to the Restoration Reserve for Fiscal Year 1998.

Statement 2

Cash Flow Statement
***Exxon Valdez* Liquidity Account**
As of November 30, 1997

Receipts:		
Exxon payments		
December 1991	36,837,111	
December 1992	56,586,312	
September 1993	68,382,835	
September 1994	58,728,400	
September 1995	67,303,000	
September 1996	66,708,554	
September 1997	65,000,000	
Total Deposits	419,546,212	419,546,212
Interest Earned	18,828,577	
Total Interest	18,828,577	18,828,577
Total Receipts		438,374,789
Disbursements:		
Court Requests		
Fiscal Year 1992	12,879,700	
Fiscal Year 1993	27,634,994	
Fiscal Year 1994	50,554,653	
Fiscal Year 1995	89,989,597	
Fiscal Year 1996	74,388,774	
Fiscal Year 1997	77,947,932	
Fiscal Year 1998	0	
Total Requests	333,395,650	333,395,650
District Court Fees	1,814,218	1,814,218
Transfer to the Restoration Reserve		48,445,783
Total Disbursements		383,655,651
Balance in Joint Trust Fund		54,719,138

Footnote:

A total of $48,445,783 has been disbursed from the Liquidity Account to the Restoration Reserve. Of the total, $48,445,663 was used to purchase laddered securities. The remaining $120 represents costs paid to the Federal Reserve Bank.

Schedule of Payments from Exxon
As of November 30, 1997

Disbursements:	December 91	December 92	September 93	September 94	September 95	September 96	September 97		Total
Reimbursements:									
United States									
FFY92	24,726,280	0	0						24,726,280
FFY93	0	24,500,000	11,617,165						36,117,165
FFY94	0	0	0	6,271,600					6,271,600
FFY95	0	0	0		2,697,000				2,697,000
Total United States	24,726,280	24,500,000	11,617,165	6,271,600	2,697,000	0	0	0	69,812,045
State of Alaska									
General Fund:									
FFY92	25,313,756	0	0						25,313,756
FFY93	0	16,685,133	0						16,685,133
FFY94	0	0	14,762,703						14,762,703
FFY95	0	0	0	0					0
Mitigation Account:									
FFY92	3,954,086	0	0						3,954,086
FFY93	0	12,314,867	0						12,314,867
FFY94	0	0	5,237,297	5,000,000					10,237,297
FFY95 (Prevention Account)	0	0	0		0				0
FFY96 (Prevention Account)						3,291,446			3,291,446
FFY97 (Prevention Account)							5,000,000		5,000,000
Total State of Alaska	29,267,842	29,000,000	20,000,000	5,000,000	0	3,291,446	5,000,000	0	91,559,288
Total Reimbursements	53,994,122	53,500,000	31,617,165	11,271,600	2,697,000	3,291,446	5,000,000	0	161,371,333
Deposits to Joint Trust Fund									
FFY92	36,837,111	0	0						36,837,111
FFY93	0	56,586,312	68,382,835						124,969,147
FFY94	0	0	0						0
FFY95	0	0	0	58,728,400	67,303,000				126,031,400
FFY96						66,708,554			66,708,554
FFY97							65,000,000		65,000,000
Total Deposits to Joint Trust Fund	36,837,111	56,586,312	68,382,835	58,728,400	67,303,000	66,708,554	65,000,000	0	419,546,212
Exxon clean up cost deduction	0	39,913,688	0	0	0	0	0	0	39,913,688
Total Payments	90,831,233	150,000,000	100,000,000	70,000,000	70,000,000	70,000,000	70,000,000	0	620,831,233

Remaining Exxon payments to be made:

September 1994	0
September 1995	0
September 1996	0
September 1997	0
September 1998	70,000,000
September 1999	70,000,000
September 2000	70,000,000
September 2001	70,000,000
	280,000,000

The December 1991 payment includes interest accrued on the escrow account. The actual disbursements without interest was $24.5 million to the United States, $29 million to the State of Alaska and $36.5 million to the Joint Trust Fund. The total interest earned on the escrow account was $831,233 which was disbursed proportionately. This included $226,280 to the United States, $267,842 to the State of Alaska and $337,111 to the Joint Trust Fund.

The September 1994 reimbursement to the United States included an over-payment of $80,700 to NOAA. This over-payment is a direct result of final costs for damage assessment activities being lower than what was previously estimated. The funds were returned to the Joint Account by reducing the amount transferred to the United States in Court Request number 15.

Schedule of Disbursements
***Exxon Valdez* Liquidity Account**
As of November 30, 1997

	United States	State of Alaska	Court Request Total	Court Fees	Disbursements Total
Total Fiscal Year 1992	6,320,500	6,559,200	12,879,700	23,000	12,902,700
Total Fiscal Year 1993	9,105,881	18,529,113	27,634,994	154,000	27,788,994
Total Fiscal Year 1994	6,008,387	44,546,266	50,554,653	364,000	50,918,653
Court Request 8	3,576,179	7,088,077	10,664,256		
Court Request 9		3,111,204	3,111,204		
Court Request 10	3226182	9,234,909	12,461,091		
Court Request 11	1,450,000		1,450,000		
Court Request 12	17,200,000		17,200,000		
Court Request 13	1,480,251	171,763	1,652,014		
Court Request 14	15,250,000		15,250,000		
Court Request 15	5,837,316	9,863,716	15,701,032		
Court Request 16		12,500,000	12,500,000		
Total Fiscal Year 1995	48,019,928	41,969,669	89,989,597	586,857	90,576,454
Court Request 17		3,294,667	3,294,667		
Court Request 18	8,000,000		8,000,000		
Court Request 19	3,222,224	1,968,898	5,191,122		
Restoration Reserve Transfer			35,996,231		
Court Request 20		8,000,000	8,000,000		
Court Request 21	1,007,000	5,520,500	6,527,500		
Court Request 22	18,818,600	24,556,885	43,375,485		
Total Fiscal Year 1996	31,047,824	43,340,950	110,385,004	396,307	110,781,312
Court Request 23	2,613,500	0	2,613,500		
Court Request 24	176,500	3,075,625	3,252,125		
Court Request 25	785,859	442,833	1,228,692		
Court Request 26	24,154,000	530,000	24,684,000		
Court Request 27	324,700	1,470,900	1,795,600		
Restoration Reserve Transfer			12,449,552		
Court Request 28	0	2,627,000	2,627,000		
Court Request 29	5,919,169	5,699,772	11,618,941		
Court Request 30	26,128,074	4,000,000	30,128,074		
Total Fiscal Year 1997	60,101,802	17,846,130	90,397,484	254,221	90,651,705
Court Request 31			0		
Court Request 32			0		
Court Request 33			0		
Court Request 34			0		
Restoration Reserve Transfer					
Total Fiscal Year 1998	0	0	0	0	0
Total	160,604,322	172,791,328	381,841,433	1,778,385	383,619,818

Exxon Valdez Liquidity Account								
Interest Earned/District Court Registry Fees								
As of November 30, 1997								
	FFY 1992	FFY 1993	FFY 1994	FFY 1995	FFY 1996	FFY 1997	FFY 1998	Total
Earnings Deposits	17,683	31,124	33,476	55,809				138,092
Earnings Allocated:								
1991	28,704							28,704
1992	526,613	553,697						1,080,309
1993		639,180	1,461,736					2,100,915
1994			1,876,788	1,402,938				3,279,726
1995				3,661,063	1,202,209			4,863,272
1996					2,364,556	810,894		3,175,451
1997						1,905,955	441,934	2,347,889
1998								
Total	555,317	1,192,876	3,338,524	5,064,001	3,566,766	2,716,849	441,934	16,876,267
Total Earnings	573,000	1,224,000	3,372,000	5,119,809	3,566,766	2,716,849	441,934	17,014,359
Registry Fees:								
1991	3,189							3,189
1992	19,811	100,223						120,034
1993		53,777	179,658					233,435
1994			184,342	180,072				364,414
1995				406,785	133,579			540,364
1996					262,729	90,099		352,828
1997						164,121	35,833	199,954
1998								
Total	23,000	154,000	364,000	586,857	396,307	254,221	35,833	1,814,218
Gross Earnings	596,000	1,378,000	3,736,000	5,706,667	3,963,073	2,971,070	477,767	18,828,577

edule of Interest Earned on United States and State of Alaska Acco			
As of November 30, 1997			
	State of Alaska	United States	
	EVOSS Account	NRDA& R	Total
June 1992	22,675		22,675
January 1994	22,398		22,398
February 1994	19,086	117,178	136,264
March 1994	20,754		20,754
April 1994	18,714		18,714
May 1994	15,878		15,878
June 1994	17,707	24,823	42,530
July 1994	52,823		52,823
August 1994	48,450		48,450
September 1994	40,408	43,567	83,975
October 1994	44,291		44,291
November 1994	63,286		63,286
December 1994	67,496	3,849	71,346
January 1995	89,341		89,341
February 1995	100,714		100,714
March 1995	104,570	17,033	121,603
April 1995	95,432		95,432
May 1995	92,595		92,595
June 1995	80,613	50,042	130,655
July 1995	76,424		76,424
August 1995	68,771		68,771
September 1995	59,945	44,826	104,771
October 1995	133,486		133,486
November 1995	154,119		154,119
December 1995	143,917	39,567	183,484
January 1996	134,300		134,300
February 1996	122,348		122,348
March 1996	132,469	64,381	196,850
April 1996	126,550		126,550
May 1996	136,732		136,732
June 1996	145,501	73,267	218,768
July 1996	128,195		128,195
August 1996	106,079		106,079
September 1996	110,890	29,042	139,933
October 1996	181,598		181,598
November 1996	162,806		162,806
December 1996	153,991	71,093	225,084
January 1997	147,934		147,934
February 1997	125,137		125,137
March 1997	131,457	24,374	155,831
April 1997	122,111		122,111
May 1997	114,954		114,954
June 1997	99,811	368,523	468,334
July 1997	221,906		221,906
August 1997	36,898		36,898
September 1997	159,695	38,289	197,984
October 1997	119,195		119,195
November 1997	49,120		49,120
Total	4,939,765	1,009,854	5,949,619

NOTE: The $117,178 NRDA&R interest figure is cummulative.

Interest was earned for the period July 1992 through December 1993, but the specific amounts have been hidden to allow the spreadsheet to print on one page.

Schedule of Interest Adjustments to the Court Requests
As of November 30, 1997

	October	November	December	January	February	March	April	May	June	July	August	Total	Unallocated
United States													
FFY92												2	Baldauf 12/6/96
FFY93			39,871						3,648			43,519	
FFY94			51,231						22,427			73,658	
FFY95	34,621		37,618			3,849					63,226	139,314	
FFY96				48,676				37,100		26,600	109,666	222,042	
FFY97			29,041								463,989	493,030	
FFY98													
Total United States												**971,565**	**38,289**
State of Alaska													
FFY92												0	
FFY93			80,775						35,012			115,787	
FFY94			64,944						239,090			304,034	
FFY95	52,823	117,838	44,291			320,837					449,634	985,423	
FFY96				262,202				300		289,400	934,433	1,486,335	
FFY97				398,567		275,700					782,501	1,456,768	
FFY98													
Total State of Alaska												**4,348,347**	**591,418**
Total Adjustment												**5,319,912**	**629,708**

Footnote: The unallocated interest is tied to the INT Acct. sheet.

Schedule of Lapse Adjustments to the Court Requests
As of November 30, 1997

	December 1993	June 1994	August 1995	August 1996	August 1997	Total
Disbursements:						
Court Requests						
United States						
FFY92						0
FFY93						0
FFY94		3,106,555				3,106,555
FFY95						0
FFY96			220,858			220,858
FFY97				1,165,334	1,102,442	2,267,776
FFY98						
Total United States	0	3,106,555	220,858	1,165,334	1,102,442	5,595,189
State of Alaska						
FFY92						0
FFY93						0
FFY94	3,661,600					3,661,600
FFY95						0
FFY96			2,376,950			2,376,950
FFY97				2,500,448	3,549,927	6,050,375
FFY98						
Total State of Alaska	3,661,600	0	2,376,950	2,500,448	3,549,927	12,088,925
Total Adjustment	3,661,600	3,106,555	2,597,808	3,665,782	4,652,369	17,684,114

Schedule of Work Plan Authorizations and Other Authorizations

	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	FFY 98	Total
Work Plan Authorizations United States:								
June 15, 1992	6,320,500	0	0					
January 25, 1993	0	3,113,900	0					
January 25, 1993	0	6,035,500	0					
November 10, 1993	0	0	0					
November 30, 1993	0	0	2,567,300					
June 1994			4,536,800					
June 1994			84,500					
July 1994			1,500,000					
Carry Forward Authorization				463,500				
August 1994				2,110,800				
November 1994				2,514,200				
December 1994				749,600				
March 1995				1,484,100				
August 1995				(36,700)	6,238,800			
December 1995					3,270,900			
January 1996					150,000			
April 1996					478,000			
May 1996				21,900	15,200			
June 1996					23,000			
August 1996						7,923,700		
December 1996						310,900		
February 1997						0		
May 1997						0		
August 1997						85,000	7,263,600	
Total	6,320,500	9,149,400	8,688,600	7,307,400	10,175,900	8,319,600	7,263,600	57,225,000

Schedule of Work Plan Authorizations and Other Authorizations

	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	FFY 98	Total
Work Plan Authorizations								
State of Alaska								
June 15, 1992	6,559,200	0	0					
January 25, 1993	0	3,574,000	0					
January 25, 1993	0	7,570,900	0					
November 30, 1993	0	0	4,454,400					
June 1994			12,391,700					
June 1994			215,800					
July 1994			0					
Carry Forward Authorization				576,300				
August 1994				7,140,900				
November 1994				9,098,700				
December 1994				180,500				
March 1995				492,600				
August 1995				36,700	12,653,600			
December 1995					2,231,100			
April 1996					500,000			
May 1996					300			
June 1996								
August 1996						11,606,300		
December 1996						310,400		
February 1997						275,700		
May 1997						0		
August 1997						(85,000)	9,393,200	
Total	6,559,200	11,144,900	17,061,900	17,525,700	15,385,000	12,107,400	9,393,200	89,177,300

Schedule of Work Plan Authorizations and Other Authorizations

	FFY 92	FFY 93	FFY 94	FFY 95	FFY 96	FFY 97	FFY 98	Total
Other Authorizations								
United States:								
Orca Narrows (6/94, Eyak)			2,000,000	1,650,000				3,650,000
Kodiak National Wildlife Refuge (3/95, 9/95 AKI)				21,000,000	7,500,000	7,500,000		36,000,000
Kodiak National Wildlife Refuge (3/95, 9/95 Old Harbor)				11,250,000				11,250,000
Koniag					12,500,000	4,500,000		17,000,000
Small Parcels					379,000	3,740,200		4,119,200
Chenega Land Acquisition						24,000,000		24,000,000
Chenega-Area Oiling Reduction					3,600	157,400	182,000	343,000
English Bay						14,128,074		14,128,074
Total			2,000,000	33,900,000	20,382,600	54,025,674	182,000	110,490,274
State of Alaska:								
Kachemak Bay State Park (1/95)		7,500,000						7,500,000
Alutiiq Repository (11/93)		1,500,000						
Seal Bay (11/93,11/94,11/95,11/96)			29,950,000	3,229,042	3,294,667	3,075,625		39,549,334
Shuyak (3/96, 10/96 - 10/02					8,000,000	2,194,266	4,000,000	14,194,266
Small Parcels					5,020,500	3,738,000		8,758,500
Alaska SeaLife Center				12,500,000	12,456,000	724,000		25,680,000
Chenega-Area Oiling Reduction					0	1,732,000		1,732,000
Alaska SeaLife Center Fish Pass						545,600		545,600
Sound Waste Management Plan						1,167,900		1,167,900
Total		9,000,000	29,950,000	15,729,042	28,771,167	13,177,391	4,000,000	99,127,600
Total Other Authorizations	0	9,000,000	31,950,000	49,629,042	49,153,767	67,203,065	4,182,000	209,617,874
Total Work Plan Authorizations	12,879,700	20,294,300	25,750,500	24,833,100	25,560,900	20,427,000	16,656,800	146,402,300
Restoration Reserve					36,000,000	12,450,000		48,450,000
Total Authorized	12,879,700	29,294,300	57,700,500	74,462,142	110,714,667	100,080,065	20,838,800	404,470,174

Footnotes:

Work Plan Authorization and Land/Capital Acquisitions only. Will not balance to the Schedule of Disbursements from the Joint Trust Fund or the court requests due to the reauthorization of projects (carry-forward) and deductions for interest and lapse.

This schedule does tie to the quarterly reports with the exception of 93' and 92'. In FY93 the Work Plan represented the transition to the Federal Fiscal Year from the Oil Year or a seven month period. This schedule presents authorization on the Federal Fiscal Year and as such FFY92 and FFY93 does not balance.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

TO: Agency Liaisons

FROM: Traci Cramer
Administrative Officer

DATE: December 9, 1997

RE: Quarterly Report for the period ending September 30, 1997

Based on the information provided by the agencies, you will find attached summary financial reports relating to each of the Work Plans. Also attached is a copy of your agencies financial status report for other authorizations and the financial report by Work Plan. These reports are used to generate the summary reports and should be reviewed carefully.

If the information for your agency was not captured correctly, or if the information has changed, please contact me immediately at 586-7238.

attachments

cc: Molly McCammon
Kim Garnero
Bob Baldauf

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

TO: Trustee Council

THROUGH: Molly McCammon
Executive Director

FROM: Traci Cramer
Administrative Officer

DATE: December 9, 1997

RE: Quarterly Report for the period ending September 30, 1997

The attached reports consolidate the financial information submitted by the agencies for the quarter ending September 30, 1997.

The first report is a summary of activity by restoration category. This report reflects the total adjusted authorization and the total expended/obligated by Work Plan year and restoration category.

The second report displays the financial information by Work Plan. This report is used to determine what portion of the unexpended/unobligated balance or lapse, is available to off-set future court requests. Included are adjustments to reflect unreported interest and other revenue. As of September 30, 1997, it is estimated that $1,280,842 is available to off-set future court requests.

The third report is a summary of financial information associated with the 1997 Work Plan.

If you have any questions regarding the information provided, please do not hesitate to contact me at 586-7238.

attachments

cc: Agency Liaisons
Bob Baldauf

Exxon Valdez Oil Spill Trustee Council
Quarterly Financial Report As of September 30, 1997
Category

Category	92' Work Plan Adjusted uthorization	92' Work Plan Expended/ Obligated	92' Work Plan Percent Obligated	93' Work Plan Adjusted uthorization	93' Work Plan Expended/ Obligated	93' Work Plan Percent Obligated	94' Work Plan Adjusted uthorization	94' Work Plan Expended/ Obligated	94' Work Plan Percent Obligated
Administration	5,076,100	4,295,933	84.63%	4,136,052	2,653,889	64.16%	4,882,880	4,082,492	83.61%
General Restoration	4,103,070	3,794,442	92.48%	2,713,713	1,841,637	67.86%	5,179,300	3,172,367	61.25%
Habitat Protection	0	0	0.00%	486,200	156,760	32.24%	3,747,292	2,781,913	74.24%
Monitoring							2,883,118	2,573,751	89.27%
Research							8,640,710	8,143,985	94.25%
Monitoring and Research	2,237,788	2,207,007	98.62%	4,617,225	3,993,150	86.48%	417,200	335,717	80.47%
Damage Assessment	7,807,100	5,740,168	73.52%	1,991,807	1,571,049	78.88%			
Total	19,224,058	16,037,550	83.42%	13,944,997	10,216,485	73.26%	25,750,500	21,090,225	81.90%

Category	95' Work Plan Adjusted uthorization	95' Work Plan Expended/ Obligated	95' Work Plan Percent Obligated	96' Work Plan Adjusted uthorization	96' Work Plan Expended/ Obligated	96' Work Plan Percent Obligated	97' Work Plan Adjusted uthorization	97' Work Plan Expended/ Obligated	97' Work Plan Percent Obligated
Administration	4,253,526	3,205,025	75.35%	3,418,500	2,999,012	87.73%	2,944,020	2,514,694	85.42%
General Restoration	4,589,180	3,920,015	85.42%	3,554,110	3,224,643	90.73%	3,249,166	2,921,510	89.92%
Habitat Protection	1,716,737	1,550,472	90.32%	3,304,100	1,967,097	59.54%	1,258,334	860,676	68.40%
Monitoring	3,080,926	2,489,635	80.81%	1,571,271	1,511,739	96.21%	1,006,972	942,744	93.62%
Research	11,192,731	10,536,337	94.14%	13,712,919	13,280,664	96.85%	11,368,029	10,626,904	93.48%
Monitoring and Research									
Damage Assessment									
Total	24,833,100	21,701,484	87.39%	25,560,900	22,983,155	89.92%	19,826,521	17,866,528	90.11%

Work Plan Time Periods:

92' Work Plan- Oil Year 4 or March 1, 1992 through February 28, 1993
93' Work Plan - Oil Year 5 or March 1, 1993 through September 30, 1993 (Seven Month Transition)
94' Work Plan - October 1, 1993 through September 30, 1994
95' Work Plan - October 1, 1994 through September 30, 1995
96' Work Plan - October 1, 1995 through September 30, 1996
97' Work Plan - October 1, 1996 through September 30, 1997

Exxon Valdez Oil Spill Trustee Council
Quarterly Report as of September 30, 1997
Summary

DRAFT

WORK PLAN AND ASSOCIATED PROJECTS

Fiscal Year	Authorized	Adjustments	Adjusted Authorization	EVOS Expenditures	RSA Expenditures	Obligations	Unobligated Balance	EVOS Lapse	Federal Lapse	State Lapse
1992	19,211,000	13,058	19,224,058	13,317,450	2,720,100	0	5,906,608	5,906,608	2,286,572	3,620,036
1993	13,963,000	-18,003	13,944,997	10,210,471		6,014	3,728,512	3,728,512	1,716,453	2,012,059
1994	25,750,500	0	25,750,500	21,013,561		76,664	4,660,275	3,620,475	1,320,184	2,300,291
1995	24,833,100	0	24,833,100	21,618,840		82,644	3,131,616	3,131,616	427,008	2,704,608
1996	25,560,900	0	25,560,900	22,724,434		258,721	2,577,745	2,577,745	1,073,142	1,504,603
1997	19,827,600	-1,079	19,826,521	14,079,861		3,786,667	1,959,993	0	0	0
TOTAL	**129,146,100**	**-6,024**	**129,140,076**	**102,964,617**	**2,720,100**	**4,210,710**	**21,964,749**	**18,964,956**	**6,823,359**	**12,141,597**
OTHER AUTHORIZATIONS			**212,210,253**	**190,724,502**		**19,791,109**	**1,694,642**			
Total Reported Lapse (Through Court Request #29)								17,684,114	5,595,189	12,088,925
Unreported Lapse (1992 through 1996)								1,280,842	1,228,170	52,672
Unreported Interest								0	0	0
Other Revenue (Posters/Symposium Receipts)								0	0	0
Total Available to Off-set Future Court Requests								**1,280,842**	**1,228,170**	**52,672**

Footnote: The Unobligated Balances have been adjusted to reflect the carry forward of projects. This includes $30,672 in FY 92', $561,813 in FY 93' and $1,039,800 in FY 94'.

Exxon Valdez Oil Spill

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1997 Work Plan Summary

Project Number	Category	Description	97 State + Fed Authorized	97 State + Fed Adjustments	Col. D + E Adjusted Authorization	97 State + Fed Expenditures	97 State + Fed Obligations	Col. G + H Expended/ Obligated	Col. F - I Unobligated Balance
97001	R	Recovery of Harbor Seals From EVOS: Condition and	192,000	0	192,000	133,229	54,914	188,143	3,857
97007A	M	Archaeological Index Site Monitoring	145,000	602	145,602	125,267	16,550	141,817	3,785
97007B-CLO	G	Site Specific Archaeological Restoration	19,900	1,625	21,525	21,525	0	21,525	0
97009D-CLO	R	Survey of Octopuses in Intertidal Habitats	48,000	0	48,000	48,000	0	48,000	0
97012-BAA	M	Comprehensive Killer Whale Investigation in Prince William Sound	157,500	0	157,500	92,356	54,887	147,243	10,257
97025	R	Mechanisms of Impact and Potential Recovery of Nearshore Vertebrate Predators	1,736,300	22,000	1,758,300	1,335,860	391,118	1,726,978	31,322
97026-CLO	M	Report Writing: Micobial Sediments	15,100	0	15,100	15,100	0	15,100	0
97043B-	G	Monitoring of Cutthroat Trout and Dolly Varden Habitat	24,000	24	24,024	24,024	0	24,024	0
97052A	G	Community Involvement	248,400	0	248,400	178,401	63,535	241,936	6,464
97052B	G	Traditional Ecological Knowledge	94,500	0	94,500	48,633	42,426	91,059	3,441
97064	R	Monitoring, Habitat Use, and Trophic Interactions of Harbor	317,800	0	317,800	261,972	4,423	266,395	51,405
97076	R	Effects of Oiled Incubation Substrate on Straying and	618,800	0	618,800	402,702	72,800	475,502	143,298
97090-CLO	G	Mussel Bed Restoration and Monitoring	10,000	0	10,000	7,598	0	7,598	2,402
97100	A	Administration, Public Information and Scientific Management	2,940,600	3,420	2,944,020	2,366,597	148,097	2,514,694	429,326
97126	H	Habitat Protection and Acquisition Support	1,282,600	-24,266	1,258,334	770,151	90,525	860,676	397,658
97127	G	Tatitlek Coho Salmon Release	11,100	0	11,100	1,950	8,579	10,529	571
97131	G	Chugach Native Region Clam Restoration	365,000	0	365,000	163,879	192,483	356,362	8,638
97139A1	G	Salmon Instream Habitat and Stock Restoration - Little Waterfall Barrier Bypass Improvement	26,400	0	26,400	22,639	7	22,646	3,754
97139A2	G	Port Dick Creek Tributary and Development Project	76,500	0	76,500	62,427	9,087	71,514	4,986
97139C1-CLO	G	Montague Riparian Rehabilitation Monitoring	9,300	0	9,300	8,219	150	8,369	931
97142-BAA	R	Status and Ecology of Kittlitz's Murrelets in Prince William Sound	188,500	0	188,500	63,836	107,455	171,291	17,209
97144	M	Common Murre Population Monitoring	73,800	-7,000	66,800	62,453	0	62,453	4,347
97145	M	Cutthroat Trout and Dolly Varden: Relation Among and Within Populations of Anadromous and Resident Forms	229,700	0	229,700	229,700	0	229,700	0
97149	M	Archaeological Site Stewardship	66,300	-1,818	64,482	37,013	25,779	62,792	1,690
97159-CLO	M	Surveys to Monitor Marine Bird Abundance in Prince William Sound During Winter and Summer: Report and Publication Writing	60,100	2,388	62,488	62,488	0	62,488	0

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97161	R	Differentiation and Interchange of Harlequin Duck Populations Within the North Pacific	98,800	0	98,800	94,335	0	94,335	4,465
97162	R	Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound	552,000	0	552,000	360,409	177,035	537,444	14,556
97163A	R	APEX: Forage Fish Assessment	406,500	0	406,500	37,319	351,251	388,570	17,930
97163B	R	APEX: Seabird Interactions	118,400	0	118,400	118,342	0	118,342	58
97163C	R	APEX: Fish Diet Overlap	88,300	0	88,300	77,801	1,894	79,695	8,605
97163E	R	APEX: Kittiwakes	170,000	573	170,573	170,573	0	170,573	0
97163F	R	APEX: Guillemots	134,500	208	134,708	134,708	0	134,708	0
97163G	R	APEX: Seabird Energetics	171,000	0	171,000	79,958	79,842	159,800	11,200
97163H	R	APEX: Proximate Composition of Forage Fish	0	0	0	0	0	0	0
97163I	R	APEX: Project Management	139,200	0	139,200	0	130,100	130,100	9,100
97163J	R	APEX: Barren Island Murres and Kittiwakes	107,000	4,267	111,267	111,267	0	111,267	0
97163K	R	APEX: Large Fish as Samplers	9,200	81	9,281	9,281	0	9,281	0
97163L	R	APEX: Barren Is. Survey & Historic Review	91,400	0	91,400	76,425	8	76,433	14,967
97163M	R	APEX: Response of Seabirds to Forage Fish Density	243,300	0	243,300	242,918	0	242,918	382
97163N	R	APEX: Black-Legged Kittiwake Controlled Feeding Experiment	30,000	0	30,000	30,000	0	30,000	0
97163O	R	APEX: Statistical Review	21,400	0	21,400	20,000	0	20,000	1,400
97163Q	R	APEX: Modeling	69,800	0	69,800	65,114	0	65,114	4,686
97165	R	Genetic Discrimination of Prince William Sound Herring Populations	41,600	0	41,600	30,910	8	30,918	10,682
97166	R	Herring Natal Habitats	340,300	0	340,300	295,469	28,795	324,264	16,036
97167-BAA	R	Curation of Seabirds Salvaged from EVOS	32,100	0	32,100	30,000	0	30,000	2,100
97169	R	Genetic Study of Murres, Guillemonts Murrelets	59,400	0	59,400	59,400	0	59,400	0
97170	R	Isotope Ratio Studies of Marine Mammals in Prince William Sound	143,300	0	143,300	36,284	100,010	136,294	7,006
97186	G	Coded Wire Tag Recoveries From Pink Salmon in Prince William Sound	273,800	0	273,800	205,732	67	205,799	68,001
97188	G	Otolith Thermal Mass Marking of Hatchery Reared Pink Salmon In Prince William Sound	120,100	0	120,100	106,753	25	106,778	13,322
97190	R	Construction of a Linkage Map for the Pink Salmon Genome	254,500	0	254,500	145,583	98,090	243,673	10,827
97191A	R	Field Examination of Oil-Related Embryo Mortalities that Persist in Pink Salmon Populations in PWS	208,500	0	208,500	147,076	42	147,118	61,382
97194	M	Pink Salmon Spawning Habitat Recovery	138,300	0	138,300	128,560	0	128,560	9,740
97195	R	Pristane Monitoring In Mussels and Predators of Juvenile Pink Salmon and Herring	115,300	0	115,300	105,625	20	105,645	9,655
97196	R	Genetic Structure of Prince William Sound Pink Salmon	195,500	0	195,500	162,920	41	162,961	32,539
97210	G	Youth Area Watch	150,000	0	150,000	147,707	2,177	149,884	116

Exxon Valdez Oil Spill

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97214-CLO	G	Documentary on Subsistence Harbor Seal Hunting in Prince William Sound	12,100	0	12,100	6,910	2	6,912	5,188
97220	G	Eastern PWS Wildstock Salmon Habitat Restoration	115,000	-3,258	111,742	40,218	246	40,464	71,278
97223-BAA	R	Publication of Sea Otter Data	43,000	0	43,000	40,200	0	40,200	2,800
97225	G	Port Graham Pink Salmon Subsistence Project	74,400	0	74,400	21,400	49,510	70,910	3,490
97230	G	Valdez Duck Flats Restoration	67,800	0	67,800	0	67,800	67,800	0
97231	R	Marbled Murrelet Productivity	120,000	0	120,000	119,363	0	119,363	637
97244	G	Community-based Harbor Seal Management and Biological Sampling	114,900	0	114,900	107,366	18	107,384	7,516
97247	G	Kametolook River Coho Salmon	31,400	0	31,400	11,661	18,742	30,403	997
97250	G	Project Management	641,600	75	641,675	547,923	8,131	556,054	85,621
97251-CLO	R	Akalura Lake Restoration	43,700	0	43,700	38,659	10	38,669	5,031
97254	G	Delight and Desire Lakes Restoration	123,100	0	123,100	105,634	30	105,664	17,436
97255-CLO	G	Kenai River Sockeye Salmon Restoration	158,300	0	158,300	157,183	34	157,217	1,083
97256B	G	Sockeye Salmon Stocking at Solf Lake	50,000	0	50,000	31,623	0	31,623	18,377
97258A-CLO	R	Sockeye Salmon Overescapement Project	214,000	0	214,000	192,456	55	192,511	21,489
97259-CLO	G	Restoration of Coghill Lake Sockeye Salmon	46,800	0	46,800	46,796	12	46,808	-8
97263	G	Port Graham Salmon Stream Enhancement	58,000	0	58,000	40,884	15,608	56,492	1,508
97272-CLO	G	Chenega Chinook Release Program	45,000	0	45,000	39,750	2,706	42,456	2,544
97286	G	Elders/Youth Conference	15,800	0	15,800	15,800	0	15,800	0
97290	R	Hydrocarbon Data Analysis, Interpretation, and Database Maintenance	76,300	0	76,300	66,318	66	66,384	9,916
97300	R	Synthesis of Scientific Findings from EVOS Restoration Process	64,900	0	64,900	35,334	29,566	64,900	0
97302	M	PWS Cutthroat Trout/Dolly Varden Inventory	12,800	0	12,800	7,863	0	7,863	4,937
97304	G	Kodiak Waste Management Plan	267,500	0	267,500	120,434	147,066	267,500	0
97306	R	Ecology and Demographics of Pacific Sand Lance	32,800	0	32,800	32,800	0	32,800	0
97320E	R	SEA: Salmon and Herring Predation	631,800	0	631,800	545,996	24,602	570,598	61,202
97320G	R	SEA: Phytoplankton and Nutrients	130,000	0	130,000	127,635	2,233	129,868	132
97320H	R	SEA: Zooplankton	136,400	0	136,400	77,864	54,749	132,613	3,787
97320I	R	SEA: Confirming Food Webs of Fishes with Stable Isotope	125,400	0	125,400	82,801	34,399	117,200	8,200
97320J	R	SEA: Information Systems and Model Development	554,500	0	554,500	258,950	272,450	531,400	23,100
97320K	R	SEA: PWSAC Experimental Fry Release	24,800	0	24,800	19,343	4,053	23,396	1,404
97320M	R	SEA: Physical Oceanography	353,400	0	353,400	109,495	224,705	334,200	19,200

Exxon Valdez Oil Spill

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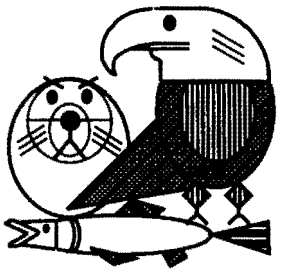
97320N	R	SEA: Nekton and Plankton Acoustics	364,400	0	364,400	108,056	236,944	345,000	19,400
97320R	R	SEA: Trophodynamic Modeling and Validation Through	182,100	0	182,100	129,479	5,695	135,174	46,926
97320T	R	SEA: Juvenile Herring	946,700	0	946,700	445,413	279,650	725,063	221,637
97320U	R	SEA: Somatic and Spawning Energetics of Herring, Pollock	154,400	0	154,400	78,619	315	78,934	75,466
97320Z1	R	SEA: Synthesis and Integration	61,300	0	61,300	12,241	45,868	58,109	3,191
97427	M	Harlequin Duck Recovery Monitoring	252,500	0	252,500	211,041	2,247	213,288	39,212
		Unbilled GA (ADF&G Only)	0	0	0	0	0	0	0
		General Administration Task Order (NOAA Only)	0	0	0	269,865	6,935	276,800	-276,800
		Total	19,827,600	-1,079	19,826,521	14,079,861	3,786,667	17,866,528	1,959,993

Exxon Valdez Oil Spill Trustee Council

Restoration Office
645 G Street, Suite 401, Anchorage, Alaska 99501-3451
Phone: (907) 278-8012 Fax: (907) 276-7178



MEMORANDUM

TO: Restoration Work Force

FROM: Molly McCammon
Executive Director

RE: Deferred Projects

DATE: December 8, 1997

Please find attached my recommendations on funding deferred projects:

- Numbers-only spreadsheet
- Text spreadsheet, containing the Chief Scientist's recommendation and my recommendation on each project

Also attached are the Chief Scientist's review memos on the following two deferred projects:

98064 / Harbor Seals
98320T / Herring TEK Component

The meeting of the Restoration Work Force to discuss my recommendations will begin at 9:00 a.m. Wednesday, December 10, 1997. See you then!

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj. No.	Project Title	Lead Agency	New or Cont'd	98 Revised Request	Funded August	Deferred August	RECOM-MENDATION	FY 99 Estimate	Total FY98-02	Exec. Director's Recommendation
98064	Harbor Seal Monitoring, Habitat, Trophics	ADFG	Cont'd	$307.5	$150.0	$157.5	**$122.5**	$60.0	$332.5	Fund
98131	Clam Restoration	ADFG	Cont'd	$280.0	$82.1	$197.9	**$197.9**		$280.0	Fund contingent
98162	Herring Disease	ADFG	Cont'd	$517.4	$465.7	$51.7	**$52.0**	$0.0	$517.7	Fund
98163	Alaska Predator Ecosystem Experim't(APEX)	NOAA	Cont'd	$2,018.0	$1,899.5	$118.5	**$112.7**	$1,880.3	$5,001.3	Fund
98263	Port Graham Salmon Stream Enhancement	ADFG	Cont'd	$135.4	$0.0	$135.4	**$107.0**	$23.6	$154.2	Fund contingent
98286	Elders/Youth Conference	DOI	Cont'd	$111.1	$0.0	$111.1	**$90.2**	$0.0	$90.2	Fund contingent
98289-BAA	Status of Black Oystercatchers	NOAA	New	$80.4	$0.0	$80.4	**$80.4**		$80.4	Fund
98314	Homer Mariner Park	ADNR	New	$102.1	$0.0	$102.1	**$0.0**	$0.0	$0.0	Do not fund
98320	Sound Ecosystem Assessment (SEA)	ADFG	Cont'd	$2,383.4	$2,332.6	$50.8	**$50.8**	$755.2	$3,138.6	Fund contingent
98338	Adult Murre/Kittiwake Survival	DOI	New	$76.1	$0.0	$76.1	**$56.2**	$66.0	$167.2	Fund
98339	Human Use and Wildlife Disturbance Model	USFS	New	$139.2	$0.0	$139.2	**$139.2**	$53.1	$192.3	Fund
	Total (Deferred Projects Only):			$6,150.6	$4,929.9	$1,220.7	**$1,008.9**	$2,838.2	$9,954.4	

Summary:

Approved by Trustee Council in August:	$13,079.1
Recommended for Deferred Projects:	**$1,008.9**
TOTAL:	**$14,088.0**
FY 98 Work Plan Target:	**$14,000.0**

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98064	Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound	K. Frost/ADFG	ADFG	Cont'd 4th yr. 5 yr. project	$307.5	$150.0	$157.5	**$122.5**	$60.0	$0.0	$0.0	$332.5

Project Abstract

This project will monitor the status of harbor seals in Prince William Sound and investigate the hypothesis that food limitation to pups and juveniles is causing the ongoing decline. Aerial surveys will be conducted during molting to determine whether the population continues to decline, stabilizes, or increases. Seal pups will be satellite-tagged to describe and compare their movements, hauling out, and diving behavior to older seals and seals in other areas. Fatty acids analysis will be conducted on recent and archived blubber samples and mathematical models developed to estimate seal diets and whether they have changed since the 1970s. Special emphasis will be on pups and juveniles, the age groups most likely to be affected by food limitation.

Chief Scientist's Recommendation

The monitoring component of this project was approved previously, but action was deferred on several expanded research objectives. Based on a harbor seal program review this autumn, I strongly support continued fatty acid analyses, statistical analyses of population trend data, and population modeling. Concern about the harbor seal in Prince William Sound is now being refocused on pups and juveniles, and it is important to better understand their movements and survival rates. Continued use of satellite tags should be informative, but there are limitations and technological questions about the smaller transmitters required for use on pups. There also is need to invest additional time in the analysis of existing transmitter data. Given this need and in view of the experimental nature of the pup-sized transmitters, I recommend providing funds for about half of the ten units proposed for FY 98 (a reduction of $35,000). Otherwise, I recommend full funding for this important project.

Executive Director's Recommendation

Fund deferred component at a reduced level. This component, which focuses on pups and juveniles, was deferred pending a review of EVOS harbor seal studies. The results of this review, held in November, support an expanded research emphasis on pups. However, the Chief Scientist has recommended a "go-slow" approach to funding additional satellite tags for pups due to their experimental nature and current limitations, and the budget should be reduced accordingly. In general, Project 98064, in collaboration with projects 98001 and 98170, will help explain the long-term decline in harbor seals in Prince William Sound. The results of the study will enable resource managers, subsistence users, and others to focus their efforts and concern on the most probable causes of harbor seal population decline.

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98131	Chugach Native Region Clam Restoration	P. Brown- Schwalenberg/ CRRC	ADFG	Cont'd 4th yr. 5 yr. project	$280.0	$82.1	$197.9	**$197.9**				$280.0

Project Abstract

Cost effective procedures for establishing safe, easily accessible subsistence clam populations near Native villages in the oil spill region will be established. The Qutekcak hatchery in Seward will annually provide about 800,000 juvenile littleneck clams and cockles. Historical information, local and agency expertise, and research will be used to identify areas to seed and what method to use. Total seeded area during the project will not exceed five hectares. Follow-up research on success of seeding will be conducted. Development work will be confined to areas near the Native villages of Eyak, Tatitlek, Nanwalek, and Port Graham.

Chief Scientist's Recommendation

REVISED DETAILED PROJECT DESCRIPTION AND BUDGET UNDER REVIE.W

Executive Director's Recommendation

Fund deferred component contingent on (1) final award of a contract to Qutekcak Native Tribe for operation of the new shellfish hatchery and (2) the Chief Scientist's approval of the revised Detailed Project Description and budget. This component, which is the balance of FY 98 funding (interim funding was approved in August), was deferred pending a determination of whether Qutekcak would be awarded the contract for operation of the shellfish hatchery from the Alaska Department of Fish and Game. A decision to award the contract to Qutekcak, as a subcontract through the City of Seward, has now been made. The contract is expected to be finalized December 30, 1997, once Qutekcak obtains a $100,000 bond and the necessary insurance. This project is an effort to establish subsistence clam populations as replacements for subsistence resources injured by the spill. Technical difficulties encountered at the old hatchery have prevented the project from meeting its objective. It is hoped that production will improve at the new hatchery. A decision on whether or not to provide additional funding in FY 99 will be made following a review of FY 98 progress and results.

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98162	Investigations of Disease Factors Affecting Declines of Pacific Herring Populations in Prince William Sound	G. Marty/UC Davis; R. Kocan /Univ. Wash., C. Kennedy & A. Farrell, Simon Fraser Univ.	ADFG	Cont'd 4th yr. 4 yr. project	$517.4	$465.7	$51.7	**$52.0**	$0.0	$0.0	$0.0	$517.7

Project Abstract

Field and controlled laboratory studies will focus on viral hemorrhagic septicemia virus (VHS) and *Ichthyophonus hoferi*, a pathogenic fungus, to determine their role in the disease(s) and mortality observed in Prince William Sound herring since 1993. Herring will be monitored for signs of disease and immune status, while 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. Wild herring will be studied under laboratory conditions to determine the course of VHS infection associated with captivity and their immune status and susceptibility to reinfection.

Chief Scientist's Recommendation

Funding for most of this project was approved previously, but action on the herring pound component was deferred pending review of the 1997 field results. I have now reviewed those results, which indicate that there is potential for spreading viral hemorrhagic septicemia from fish inside closed pounds to fish outside of the pounds. The significance of this potential remains unclear, however, as do the processes responsible for triggering viral outbreaks in the impounded fish. The principal investigators in this project are excellent. The possible management applications of their herring pound work warrant support for a second and, I hope, final field season in FY 98. I recommend funding this project.

Executive Director's Recommendation

Fund deferred component. This component, which would continue herring pound studies begun in FY 97 (Project 97162), was deferred pending evaluation of the FY 97 work. The FY 97 results indicate there is potential for spreading viral hemorrhagic septicemia (VHS) from impounded fish to fish outside of the pound. Completing this study (FY 98 would be the final year) may have important implications for fisheries managers. In general, Project \162 is investigating the potential link between oil exposure and disease in herring, and between disease and the herring population decline in Prince William Sound. Understanding the causes of the decline and the lack of recovery is important for restoration of the herring population in the sound.

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98163	APEX: Alaska Predator Ecosystem Experiment in Prince William Sound and the Gulf of Alaska	D. Duffy, et al/UAA	NOAA	Cont'd 4th yr. 6 yr. project	$2,018.0	$1,899.5	$118.5	**$112.7**	$1,880.3	$882.1	$0.0	$4,774.6

Project Abstract

This project uses seabirds as probes of the trophic (foraging) environment of Prince William Sound, comparing their reproductive and foraging biologies, including diet, with similar measurements from Cook Inlet, an area with apparently a more suitable food environment. These measurements are compared with hydroacoustic and net samples of fish to calibrate seabird performance with fish distribution and abundance to determine the extent to which food limits the recovery of seabirds from the spill. Fish are sampled in order to compare diet, energetics and reproductive parameters of the different forage-fish species, to determine whether competitive and predatory interactions or different responses to the environment may favor the abundance of one fish species over another. In FY 98, a new sub-project (/163S-BAA) to study jellyfish is included.

Chief Scientist's Recommendation

Funding for most of this project was approved previously, but action on the marbled murrelet component was deferred pending a review of 1997 data relating the productivity index to forage fish data. Based on my review of a memorandum provided by the principal investigator and project leaders, a preliminary analysis of 1997 data indicates a very promising correspondence between murrelet productivity and the availability of forage fish in three different areas within Prince William Sound. Data of this type are fundamental to testing the APEX hypotheses, and the marbled murrelet continues to be a species of concern in the spill area. I recommend funding this project at the requested level.

Executive Director's Recommendation

Fund deferred component with a slight reduction in personnel costs. This component, which addresses marbled murrelet productivity, was deferred pending analysis of the FY 97 data (Project 97231) for a direct link to the APEX hypotheses, namely a relationship between murrelet productivity and forage fish abundance. Preliminary analysis of the FY 97 data indicated that such a relationship exists, and the Chief Scientist has described this project as fundamental to testing the APEX hypotheses. In general, the APEX project is investigating the link between forage fish and seabird productivity. It may yield results that will benefit the marine ecosystem in Prince William Sound and the northern Gulf of Alaska.

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98263	Assessment, Protection and Enhancement of Salmon Streams in Lower Cook Inlet	W. Meganack, Jr./Port Graham Corporation	ADFG	Cont'd 2nd yr. 4 yr. project	$135.4	$0.0	$135.4	**$107.0**	$23.6	$23.6	$0.0	$154.2

Project Abstract

This project will replace lost subsistence services resulting from the oil spill by constructing enhancement projects on major salmon streams in the Lower Cook Inlet spill area. Protection and enhancement will be implemented using instream fisheries habitat improvement techniques, primarily creation of spawning channels, removal of natural barriers to spawning, and construction of wall-based rearing structures. Local subsistence users will be employed as technical assistants during field surveys and construction.

Chief Scientist's Recommendation

A decision on funding this project was deferred pending evaluation of 1997 field results. Based on my review of an interim report of the 1997 results, the prospects for significantly increased production of coho salmon appear to be good for at least two of the five proposed stream enhancements (Port Graham River and Windy Creek). The other proposed enhancements are of more marginal value. In addition, there remain questions about the source of supplementation stock, difficulties in maintaining spawning channels, and possible harvest management issues. I also am concerned about the ambitious scope and schedule of what the Port Graham Corporation proposes to undertake in FY 98. I recommend phased funding for the two most promising enhancements, provided that technical and management questions can be resolved.

Executive Director's Recommendation

Fund the Port Graham River ($57,000) and Windy Creek ($50,000) components only, contingent on (1) resolution of the technical questions raised by the Chief Scientist and (2) approval of a detailed budget. This project was deferred pending a review of the stream inventories conducted in FY 97 (Project 97263). The Chief Scientist's review found two of the stream projects, those on the Port Graham River and Windy Creek, to be feasible and worthwhile. However, a few technical questions need to be answered before these projects can go forward. Consistent with Trustee Council policy, funds for Project 98263 will be released in two phases: Phase I will be NEPA, necessary permits (e.g., approval by the state geneticist, endorsement by the Cook Inlet Regional Planning Team), and engineering and design. Phase II, to begin upon completion of Phase I, will be actual construction of stream improvements. The goal of this project is to protect and enhance salmon streams important to the restoration of subsistence in the Port Graham area.

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98286	Elders/Youth Conference on Subsistence and the Oil Spill	B. Henrichs /Native Village of Eyak	DOI	Cont'd 2nd yr. 2 yr. project	$111.1	$0.0	$111.1	**$90.2**	$0.0	$0.0	$0.0	$90.2

Project Abstract

This project will bring together, from all of the oil spill-affected communities, elders and other traditional knowledge bearers and youth, as well as principal investigators from EVOS-sponsored research projects to create a forum for the exchange of information between Western scientific ways of knowing and traditional ways of knowing. The forum will give rise to possible collaborative efforts between local community members and research scientists designing FY 99 restoration projects. In addition, it will facilitate a reexamination of the positive outcomes from the Community Conference on Subsistence and the Oil Spill sponsored by the Trustee Council in October 1995. Funds were provided in FY 97 for preliminary conference planning. Funds requested in FY 98 will be for holding the conference itself, which is scheduled to be held in Cordova in April 1998.

Chief Scientist's Recommendation

Action on this project was deferred, pending receipt and review of a full Detailed Project Description. Based on my review of the Detailed Project Description, I believe that this is a worthwhile project that will bring together village subsistence users and EVOS investigators to exchange the latest scientific knowledge and traditional and local knowledge on the status of fish and wildlife resources injured by the spill. Although I can affirm the value of this concept, I am concerned that most of the tribal councils in spill-area communities, including the Eyak Tribal Council which proposed this project, have not adopted the traditional knowledge protocols developed under project /052B. In addition, I have questions about the timing, length, and content of the conference, and about the budget. If these policy and substantive issues can be addressed satisfactorily, I recommend funding the project at a reduced level.

Executive Director's Recommendation

Fund contingent on (1) resolution of the issues raised by the Chief Scientist, including the fact that the Eyak Tribal Council, and most other village councils in the spill region, have not adopted the Trustee Council's TEK protocols, and (2) approval of a reduced budget. This project was deferred pending receipt of a Detailed Project Description that focused the conference on the recovery of injured resources and services and involved EVOS researchers. The Detailed Project Description adequately addresses these two issues. The Elders/Youth Conference is intended to create a forum for the exchange of information between Western scientific ways of knowing and traditional ways of knowing. Initial planning money for the conference, which is scheduled for April 1998 in Cordova, was provided by the Trustee Council in FY 97 (Project 97286). The Council sponsored a similar conference in October 1995.

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98289-BAA	Status of Black Oystercatchers in Prince William Sound	S. Murphy/ABR, Inc.	NOAA	New 1st yr.	$80.4	$0.0	$80.4	**$80.4**		$0.0	$0.0	$80.4

Project Abstract

Black oystercatchers currently are considered to be "injured with recovery unknown." Because most of the unresolved issues for this species pertain to impacts to the breeding population in Prince William Sound, this study is designed to assess aspects of the life history (e.g., phenology and productivity) of oystercatchers that potentially are spill-related for th same population of oystercatchers that was studied during 1989 - 1993. Year 1 will entail an examination of the life-history parameters that were identified by previous researchers as having been negatively impacted by the oil spill and an evaluation of whether these birds have recovered from the previously identified impacts. Data analyses will focus on comparisons of previously oiled sites with unoiled sites and among-year analyses.

Chief Scientist's Recommendation

I previously had given this project a favorable recommendation, but a Trustee Council decision was deferred pending availability of funds. I continue to find that this is a worthwhile project. Ideally, it should be carried out and reported on in advance of the 10th Anniversary of the oil spill.

Executive Director's Recommendation

Fund FY 98 only; additional funding in FY 99 will be considered following a review of FY 98 results. This project was deferred pending the availability of funds. The upcoming 10th Anniversary compels reassessment of the recovery status of black oystercatchers at this time. The FY 98 Invitation to Submit Restoration Proposals invited proposals for this additional monitoring.

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98314	Homer Mariner Park Habitat Assessment and Restoration Design Project	E. Bechtol/City of Homer	ADNR	New 1st yr. 1 yr. project	$102.1	$0.0	$102.1	**$0.0**	$0.0	$0.0	$0.0	$0.0

Project Abstract

In its present state, Mariner Park is a highly stressed marine habitat in decline. The area is experiencing a dramatic reduction in marine biota and shorebird population while incompatible and environmentally destructive human uses flourish. From the results of a comprehensive feasibility study that includes botanical, biological, and hydrological field studies coupled to community information it is possible to develop a comprehensive habitat restoration and enhancement plan. This plan will establish the optimal hands-on restoration program to increase and diversify the intertidal fauna, which in turn will benefit migrating shorebirds and promote recreationally compatible use of the area by residents and tourists.

Chief Scientist's Recommendation

I previously had given this project a favorable recommendation, but a Trustee Council decision was deferred pending availability of funds. Although I continue to find that this is a worthwhile project, it is not a high priority to start in FY 98.

Executive Director's Recommendation

Do not fund at this time. Although the proposed habitat restoration is designed to benefit intertidal resources injured by the oil spill, the limited funds available for new projects in FY 98 make this project a lower priority this year. The Trustee Council should reconsider funding this project in FY 99. The project would produce a feasibility study and environmental review for restoration of an intertidal area damaged as a result of spill response efforts.

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98320	Sound Ecosystem Assessment (SEA)	T. Cooney, et al/UAF	ADFG	Cont'd 5th yr. 6 yr. project	$2,383.4	$2,332.6	$50.8	**$50.8**	$755.2	$0.0	$0.0	$3,138.6

Project Abstract

This project is an integrated, multi-component study of processes influencing the annual survival of juvenile pink salmon and herring rearing in Prince William Sound. An emerging understanding of mechanisms of loss at this life stage is being captured by linked numerical simulations of ocean state, plankton dynamics, fish energetics, and prey/predator relationships. FY 98 will be the final fully-funded year of SEA, a period of reduced field work but accelerated data analysis and application of results to management models.

Chief Scientist's Recommendation

Most of the funding for the SEA project was approved previously, but action on the component related to traditional and local knowledge about herring was deferred pending review of 1997 results. I have now reviewed those results as presented in an interim report. Although I have questions about the specific applications of these data, this project is documenting information that may prove valuable for scientists and managers who are trying to understand changes in forage fish populations in Prince William Sound. I consider this project to be a pilot effort in bringing local and traditional knowledge to bear to help answer scientific questions, and I recommend funding in FY 98.

Executive Director's Recommendation

Fund deferred component contingent on approval of a revised budget that reflects work planned for FY 98. This component, which would continue the collection of traditional and local knowledge on juvenile herring and other forage fish in Prince William Sound, was deferred pending review of FY 97 results. The review, which was favorable, indicated that in FY 98 the emphasis should be on collecting more data and interacting with scientists and managers who could benefit from the data collected. The Herring TEK work is a component of SEA, an interdisciplinary ecosystem project focused on issues relating to the survival and recruitment of pink salmon and herring. SEA is entering the final year of a five-year study effort (to be followed by one year of data analysis/report writing). The project has been the subject of numerous technical reviews, including recent review sessions on the SEA modeling efforts (February 1997) and the SEA herring effort (March 1997). Both reviews indicated strong progress toward meeting project objectives. The FY 98 recommended funding level includes $429,700 for PWSSC's FY 99 closeout costs. ADFG project management costs ($49,500) have been deducted from SEA's FY 98 request and added to Project 98250/Project Management. In FY 99, only closeout funds are expected. Submittal of the draft final report is expected April 15, 1999.

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98338	Survival of Adult Murres and Kittiwakes in Relation to Forage Fish Abundance	J. Piatt/USGS	DOI	New 1st yr. 3 yr. project	$76.1	$0.0	$76.1	**$56.2**	$66.0	$45.0	$0.0	$167.2

Project Abstract

Some seabird populations damaged by the spill continue to decline or are not recovering. In order to understand the ultimate cause of seabird population fluctuations, productivity, recruitment, and adult survival must be measured. Current APEX (Project /163) studies are focused on measuring productivity only. Recruitment measurement demands an unrealistic study duration. This project will augment current studies in lower Cook Inlet that relate breeding success and foraging effort to fluctuations in forage fish density by using banding and resighting to quantify the survival of adult common murres and black-legged kittiwakes.

Chief Scientist's Recommendation

A decision on funding for this project had been deferred pending the results of a pilot effort (conducted with non-EVOS funds) to use subcutaneous radio tags on murres. I have reviewed an interim report on the 1997 pilot study and a revised Detailed Project Description for the FY 98 work. Although the subcutaneous radio tags were successfully used on murres this past summer, the principal investigators concluded that the cost and effort involved did not warrant pursuing this approach. The investigators have reformulated the proposal to emphasize use of conventional leg bands, which I think provide a feasible, cost-effective way to obtain important data on adult survival as a means of gaining insights into the population-level effects of food availability. This is a dimension that is missing from the current APEX program, which emphasizes the effects of food on annual productivity, and the APEX project will benefit from the work proposed here. I do not think it is essential to fund the proposed use of conventional, external radio transmitters to supplement the banding data. Otherwise, I recommend funding this project as requested.

Executive Director's Recommendation

Fund all but purchase of radio transmitters and related laptop computers, which the Chief Scientist has indicated are not essential for meeting core project objectives. This project was deferred pending completion of an FY 97 pilot study using subcutaneous radio tags as a means of obtaining data on adult survival of murres and kittiwakes. Although the subcutaneous tags were successfully used, the researchers concluded that the cost and effort did not warrant using this approach, and the Detailed Project Description has been revised to emphasize use of conventional leg bands. The project will explore adult overwinter survival as one mechanism by which forage fish availability may be affecting the recovery of seabirds, and will complement the work on chick production and forage fish being performed under APEX (Project /163).

EXECUTIVE DIRECTOR'S RECOMMENDATION: DEFERRED PROJECTS

Proj.No.	ProjectTitle	Proposer	Lead Agency	New or Cont'd	FY98 Request	Funded in August	Deferred in August	RECOM-MENDATION	FY99 Estimate	FY00 Estimate	FY01-02 Estimate	Total FY98-02 Estimate
98339	Prince William Sound Human Use and Wildlife Disturbance Model	K. Murphy, L. Suring/USFS	USFS	New 1st yr. 2 yr. project	$139.2	$0.0	$139.2	**$139.2**	$53.1	$0.0	$0.0	$192.3

Project Abstract

This project will use geographic information system (GIS) techniques to describe current human-use patterns in western Prince William Sound and to model potential changes in those use patterns as a result of additional development (e.g., increased access). GIS-generated maps of present and projected human-use patterns will be incorporated with GIS maps of the distribution of resources injured as a result of the oil spill. This will provide a basis to identify areas where there may be existing and potential conflicts between human use and wildlife concentrations resulting in disturbance. Disturbance of injured wildlife may result in decreased productivity exacerbating the effects of the oil spill and prolonging the time to recover.

Chief Scientist's Recommendation

This project would assess and model impacts on injured resources and services associated with increased human uses in western Prince William Sound. The model would allow projections of future impacts from increased human access and provide a basis for evaluating and possibly changing agency management practices with respect to species injured by the oil spill. This work could be very valuable, and I recommend funding it.

Executive Director's Recommendation

Fund. This project was deferred pending the availability of funds. Funding this year will allow the work to be coordinated with other ongoing planning efforts in Prince William Sound, such as the update of the Chugach National Forest Plan and the work being undertaken by the Alaska Department of Transportation. The project will develop and test in western Prince William Sound a model for projecting future impacts of human use on resources injured by the oil spill. The model, which will be designed to be adaptable to other locations, will provide a basis for evaluating and possibly changing agency management practices with respect to injured species. This management tool could help protect injured resources and services for many years into the future.

9804

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December 1, 1997

To: Molly McCammon
Executive Director
Exxon Valdez Oil Spill Trustee Council

DRAFT

From: Robert Spies, Chief Scientist

Re: Harbor Seal Review

On November 12th and 13th I convened a review of the harbor seal-related research supported by the Trustee Council. Presentations were made on 1. general harbor seal research in the northern Gulf of Alaska (Kathy Frost/064), 2. the population status of harbor seals as determined by aerial surveys (Kathy Frost/064), 3. the results of satellite tagging (Lloyd Lowry and Kathy Frost/064), 4. use of stable isotopes in dietary studies (Dr. Don Schell/170), 5. use of fatty acids to assess diet (Dr, Sara Iverson/064), 6. a population model of harbor seals (Dr. Bob Small/064), 7. cooperative tissue sampling and the native harvest (Monica Reidel and Vicki Vanek, DVM./244), 8. health and condition (Dr. Mike Castellini and Dr. Brian Fadley), and 9. the Alaska Native Harbor Seal Commission (Monica Reidel). There were four peer reviewers in attendance: 1. Dr. Paul Thompson, University of Aberdeen, 2. Mr. Robin Brown, Oregon Department of Fish and Game, 3. Daniel Mulcahy, DVM, US Fish and Wildlife Service, Anchorage, and 4. Mr. Dave Withrow, NOAA, National Marine Fisheries Service, National Marine Mammal Laboratory, Seattle, WA.

The purpose of this memo is to summarize the reviewer comments, my observations and recommendations. The comments are organized by topic in approximately the order shown above. I will make my recommendations at the end of the memo. The reviewer comments are attached.

1. **Population trends.** The Alaska Department of Fish and Game had at least two areas for population surveys: Trend Area B, which encompasses the northeast portions of Prince William Sound and includes most of the glacier habitat, and Trend Area A, which includes most of the central rocky islands of the Sound. Mainly as a matter of convenience for aerial surveys out of Cordova, Trend Area A was selected by ADF&G for the trend counts that have been maintained continuously since 1988. There are a significant number of harbor seals in Trend Area B, and some biologists (e.g., John Burns, who now works for Exxon) claim that the seals missing from Trend Area A are, in fact, in Trend Area B). It is unclear if the methods of aerial survey used in Trend Area B are validated (counting seals in ice is difficult). Further, I am not aware of any data that would indicate significant movement of seals between these areas. The most recent set of data for Trend

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Area B started in 1991 and there were surveys in both 1992 and 1993. The only area of contention is at Columbia Glacier, where new habitat has opened up and where there may be as many as 1000 seals.

Analysis of satellite tagging data should shed some light on movements and that analysis has just begun. Most of the tagged seals to date have been adults, and from both the tagging and the fatty acid analyses it appears that few adults move extensively. Just a few pups and juveniles have been tagged, and this is the portion of the population that one would expect might be most likely to move permanently. Better resolution of the relationships between seals in the two trend areas requires an assessment of the reliability of the methodology for counting seals in Trend Area B, an analysis of the data from Trend Area B and further tagging of seals, especially pups and juveniles. Still, the resolution of the historical relationship between the Trend Areas may not be possible due to data limitations.

The statistical work that Jay ver Hoef is doing is sophisticated and germane to accurate populations assessment using hauled out animals. It is apparent that the adjustments made to the counts based on time of day, tide, etc. have eliminated some of the variance, therefore allowing more accurate tracking of the population trends. In order to predict population trends another method besides the bootstrapping technique should be tried. The alternative Bayesian statistical approach proposed should be pursued.

2. **Satellite tagging of harbor seals**--Satellite tagging in Prince William Sound has contributed much to our understanding of harbor seal movement. Site fidelity is obviously very strong, even given the relatively small number of tags that have been attached and followed. The analysis of the data is only just getting underway. As Lloyd Lowry has stated, there are many ways in which this data can analyzed and it will be crucial to the outcome to asked focused questions. While in some respects it would be desirable to use FY98 to analyze the tagging data accumulated over the last several years, the most pressing issues concern the health and movements of pups and juvenile seals. It therefore makes sense to continue the field tagging of these stages in the coming year, although there are unresolved technological issues with the smaller transmitters required for pups.

3. **Stable isotope data**--Don Schell presented the results of his glycine-labeling experiments of seals held in a Connecticut aquarium. A whisker growth rate was derived from these experiments, but further analysis indicated that the rate of whisker growth is very seasonal in nature. Recent analysis of plankton by Tom Kline indicates that offshore values are isotopically lighter than inshore values. When productivity is high the heavier isotope is incorporated at a slightly greater rate. Therefore, one could postulate that the known higher productivity on the shelf relative to the central Gulf is confirmed by heavier carbon isotope ratios of plankton on the shelf. The drop

in carbon isotope ratios (isotopically lighter) in both the Bering Sea and the GOA since 1978 is consistent with a loss of coastal productivity. Further analysis of the large collection of field-collected whiskers is essential to indicate if the recent feeding forays in the Gulf of Alaska indicated by some of the tagging and fatty acid data are reflected in stable isotope ratios.

4. **Fatty acid signatures and diet**-Dr. Sara Iverson presented a great deal of information on the use of fatty acids in multivariate analyses of trophic habits. This method has been useful in correctly classifying and differentiating harbor seals on the basis of their sites of collection. The implication is that: 1. they do not move much, and 2. their diets differ over small scales. It also appears that within Prince William Sound the fatty acid signatures of various forage fish can also be differentiated on small scales as well as by size. A crucial question is whether with a given fatty acid signature the prey composition can be qualitatively or quantitatively determined, or if there is a unique prey composition solution to a given fatty acid profile in a harbor seal. More mathematical and statistical modeling and working with the available data will be required in FY98 to answer this question. One reviewer suggested that more attention should be given to scat collection and analysis to lend support to the fatty acid approach to determining diet.

5. **Cooperative tissue sampling**--The reviewers and I were impressed with the range of samples collected under this program and the extensive use that has been made of the tissue samples taken in cooperation with native hunters. The importance of the collection of archived samples and the data continues to grow as the size of the sample collection increases.

I have two concerns about this project. First, someone with computer data base skills should review the current approach to data management and sharing and help set up a simple but effective system to handle a growing data base. Second, I am concerned that there has apparently been no effort to plan for long-term funding of this program, which can not be sustained indefinitely with EVOS funds. The participating agencies and organizations should actively plan for a transition from EVOS funds, so this valuable program does not suddenly reach a funding crisis that jepordizes its long-term viability.

6. **Population modeling**-The simple population modeling done by Dr. Bob Small is an encouraging part of the overall approach to understanding what the PWS population is experiencing. It would be interesting to see how sensitive the modeled population would be to slight decreases in rates of juvenile survival or increases in emigration. Perhaps the known decline in Trend Area A would be mimicked by slight increases in juvenile mortality and/or emigration. This and other promising approaches need to be explored more fully.

7. **Body condition and health indicators**--This project is being closed out in FY98. The results of this project show that there are not clinically ill seals in significant numbers in the PWS population. The blood panels and condition indices have provided a valuable reference for defining healthy seals. The loss of adults from the Trend Area A is therefore probably either through some undetected emigration or a subtle change in survival of pups or juveniles. It is important to continue to define clinically healthy and sick seals in defined conditions, as will be done through project 98341.

RECOMMENDATION

The Trustee Council has already voted to fund: the closeout of "Recovery of harbor seals from EVOS: Condition and health status" (98001-CLO); the closeout of "Isotope ratio studies of marine mammals in Prince William Sound" (98170-CLO); "Community-based harbor seal management and biological sampling" (98244); and $150K for "Monitoring, habitat use and trophic interactions of harbor seals in PWS" (98064), with an additional $157K dependent on the outcome of the review. I strongly support the continued work on fatty acid analyses (Iverson), statistical analysis of the population trend data (ver Hoef), population modeling effort (Small). All of these portions of the project are very cost effective. The largest potential savings is in the satellite tagging studies. I strongly support the effort needed to analyze the accumulated data from tagged seals, with some recommended savings in the FY98 field program. In view of the comments of the reviewers with regard to the experimental nature, current limitations, and evolving efficiencies of the smaller 0.25 Watt transmitters for the juveniles, I would recommend a go-slow approach to funding additional satellite tags for pups. I therefore recommend a reduction of $35K in the proposed remaining budget for tagging pups and juveniles.

cc: S. Schubert
J. Sullivan

98320T(Supp)

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December 3, 1997

To: Molly McCammon
Executive Director
Exxon Valdez Oil Spill Trustee Council

From: Robert Spies, Chief Scientist

Re: Recommendation on "Local and traditional knowledge of herring and other forage fish" (98320T--Supp)

In August of this year the Trustee Council approved $25.1 K for this project, and deferred $50.8K. The allocation of the deferred funds is dependent on a review of the 1997 report submitted by Jody Seitz, the Principal Investigator. The report was recently received and has been reviewed. I provide the following comments.

1. The report reflects both work accomplished and work yet to be done. The major accomplishment so far is completion of 39 separate interviews with those who have local knowledge in Prince William Sound. Some of the data have been plotted on maps, and these are impressive.

2. Although the data on presence of juvenile herring and other forage fishes in Prince William Sound is impressive, there are a couple of considerations that need to be kept in mind. First, it should be made clear to the reader in presenting this data that the absence of data could either be interpreted as no observations were made, or that observations being made and no fish were seen. This is a very important distinction, as the universe of observations (all places and times where the interviewees could have observed fish) has not been defined. In other words, this data is mainly affirmative-indicating that fish were seen in certain places at certain times and should not be used to indicate that fish were absent from other places and times. Second, it was not entirely clear to me what each of the colored circles represents on the maps. Does this circle represent the observations of one interviewee during one time period ? If not, is there a way of weighting the data so that the locations with the most observations are given more emphasis ?

3. Some of the more important qualitative information has not yet been compiled and presented. For example, the fact that some schools of fish reflect certain colors when they "flash" and can be used to distinguish species is intriguing and useful information. This reminds me that a Marshalese taught me to parrot fish on shallow reefs in windy conditions by looking into the face of small wavelets where the images of fish briefly but clearly appeared as the wave passed over them. These are ways of seeing the environment that represent real skills that could greatly benefit the scientific culture. They are also skills that the "non-scientist" can rightly be proud of.

55 Los Positas Court, Suite S Livermore, CA 94550 510.373.7142 FAX 510.373.7831

4. Very little emphasis has yet been given to how the data being gathered will be useful to herring scientists and managers in PWS. More interaction of this sort would be useful to bring into the final year of work.

5. It appears that most of the work outside of Prince William Sound is being dropped. This is unfortunate as the historical value of TEK from Lower Cook Inlet and Kodiak Island is great. The budget should be checked for consistency with this change of scope.

Recommendation

Overall, this project is documenting some very valuable information of great potential use for scientists and managers trying to understand changes in forage fish populations in PWS. Increased emphasis on capturing and compiling more qualitative observational data, recognizing the limitations of the existing data, and involving scientists and managers who are the beneficiaries of the traditional and local knowledge are useful directions for the project in the coming year. The budget should also be adjusted for the change of scope.

cc: S. Senner
S. Schubert

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

FAX COVER SHEET

FAXED

To: **Restoration Work Force**

From: Sandra Schubert Date: December 8, 1997

Comments: Total Pages: 18

Executive Director's recommendations on funding deferred projects

&

Chief Scientists' review memos on project #s 98064 and 98320T

RESTORATION WORK FORCE MEMBERS INCLUDE:

Belt, Gina
Berg, Catherine
Fries, Carol
Gibbons, Dave
C. Slater/B. Hauser
Bartels, Leslie/Lisa Thomas
Miraglia, Rita
Morris, Byron
Fay, Ginny
Rice, Bud
Spies, Bob
Holbrook, Ken
Wright, Bruce
Traci Cramer

HARD COPY TO FOLLOW _____ FAX SENT BY: Keri Hile

1/10/97

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*** MULTI TRANSACTION REPORT ***
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TX/RX NO. 7829

INCOMPLETE TX/RX

TRANSACTION OK	[09] 19075867589	JUNEAU OFFICE
	[10] 19075867555	WOLFE-GIBBONS
	[13] 19077896608	MORRIS-WRIGHT
	[15] 2698918	CAROL FRIES
	[16] 2672450	RITA MIRAGLIA
	[17] 2713992	KEN HOLBROOK
	[18] 2672464	SULLIVAN-SLATER
	[19] 7863636	L.BARTELS
	[20] 7863350	C.BERG
	[21] 2572517	B.RICE
	[31] 19074655070	BROWN-FAY
	[35] 15103737834	B.SPIES
	[38] 2715827	G.BELT

ERROR

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

MEMORANDUM

To: Accounting Department
Alaska Department of Fish & Game

From: Tami Yockey
Administrative Assistant II

Date: December 8, 1997

Subject: Reimbursement for the *Exxon Valdez* Trustee Council Petty Cash Fund

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Attached you will find the log and receipts for petty cash disbursements from the *Exxon Valdez* Trustee Council petty cash fund (PCF97173). This is for the period of October 7, 1997, through December 8, 1997.

I am requesting a warrant in the amount of $42.86 to replenish the petty cash fund to its original total of $50.00.

If you have any questions or if I have neglected to attach any required backup paperwork, please give me a call.

Thank you.

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 8, 1997

Matthew Zencey, Campaign Manager
Alaska Rainforest Campaign
750 West Second Avenue
Anchorage, Alaska 99501-2167

Dear Mr. Zencey:

Governor Knowles forwarded a copy of the letter you wrote dated October 31, 1997 and asked me to respond directly to you.

As you know, the Congress adjourned prior to taking action on the amendment that would have authorized the Trustee Council to invest funds outside the federal Court Registry Investment System (CRIS) but would also have imposed certain limitations on the use of incremental earnings from those investments. As has been evident from various news accounts since that proposal first emerged, the idea of limiting uses of the investment earnings raised a number of issues. Of particular concern to the Trustee Council was the fact that the Restoration Office has just recently started a public process seeking input on how funds in the Restoration Reserve should be used. Proceeding with this public process this winter and allowing the public the opportunity to comment on a full spectrum of potential restoration activities was regarded as a priority by the Trustee Council. Although Congress adjourned before taking action on the proposal offered by Senator Murkowski, we will continue to work with the Alaska delegation to secure authority to invest funds outside of CRIS in order to maximize earnings on settlement funds consistent with prudent trust management.

Thank you for you comments and interest in the restoration program. Please know that the Trustees are very interested in public comment on the restoration program and that a copy of your letter will be provided to each member of the Council.

Sincerely,

Molly McCammon
Executive Director

cc: John Katz
COS

ALASKA RAINFOREST CAMPAIGN

ALASKA CENTER FOR THE ENVIRONMENT • AMERICAN RIVERS • DEFENDERS OF WILDLIFE • NATURAL RESOURCES DEFENSE COUNCIL • SIERRA CLUB • SIERRA CLUB LEGAL DEFENSE FUND • SOUTHEAST ALASKA CONSERVATION COUNCIL • THE WILDERNESS SOCIETY

Honorable Governor Tony Knowles
P.O. Box 10001
Juneau, AK 99801-0001

October 31, 1997

Dear Governor Knowles,

We write to express concern about a proposed amendment to the Commerce / State / Justice Appropriations bill which would unfairly restrict spending from the Exxon Valdez oil spill restoration program. Any effort you may undertake to modify and correct this amendment would be greatly appreciated by our Campaign members. If uncorrected, we feel this amendment should be opposed.

Senator Frank Murkowski is currently pursuing an amendment which potentially increases interest monies to the Exxon Valdez oil spill restoration fund, yet limits these funds to marine research and fisheries projects. Senator Murkowski's approach would cut short the successful and popular EVOS habitat acquisition program by preventing any new interest monies from being used for this purpose.

The EVOS Trustee Council operates with a high-degree of cooperation between state and federal representatives. This level of cooperation is impressive given the often contentious nature of state-federal relationships. Extensive public comment has stressed, and time has confirmed, the value of the Trustees' habitat acquisition program. Applying restrictions, like the Murkowski amendment, is wrong, and circumvents a working public process.

Thank you for any attention to our concerns.

Sincerely,

Matthew Zencey
Campaign Manager

Kevin Harun, Executive Director
Alaska Center for the Environment

Tom Waldo, Staff Attorney
Earthjustice Legal Defense Fund

Buck Lindekugel, Conservation Director
Southeast Alaska Conservation Council

Allen E. Smith, Alaska Regional Director
The Wilderness Society

Sally Kabisch, Alaska Representative
Sierra Club

Robert Dewey, Habitat Conservation Director
Defenders of Wildlife

Nathaniel Lawrence, Forestry Director
Natural Resources Defense Council

ALASKA OFFICE:
419 SIXTH STREET, #318 • JUNEAU, AK 99801
FAX 907-463-6716 • PHONE 907-463-6755
AKRAIN @ IGC.APC.ORG (INTERNET)

MAIN OFFICE:
320 4TH STREET, NE • WASHINGTON, D.C. 20002
FAX 202-544-5197 • PHONE 202-544-0475
AKRAIN @ 800.NET (INTERNET)

FAX TRANSMITTAL

STATE OF ALASKA
OFFICE OF THE GOVERNOR

TONY KNOWLES
GOVERNOR

FRAN ULMER
LIEUTENANT GOVERNOR

OFFICE OF THE GOVERNOR
PO BOX 110001
JUNEAU, AK 99811-0001

Telephone: (907) 465-3500
Fax: (907) 465-3532

==========

To: EVOS Trustees Council

From: Governor's Office, Alaska

==========

Rebecca,

16477
Reply Direct
Due 11/28/97

Please draft brief response.
M.

Thanks,
John

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 8, 1997

Kathy Frost
Alaska Department of Fish and Game
1300 College Road
Fairbanks, Alaska 99701-1559

RE: Deferred Component of Project 98064 / Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound

Dear Kathy:

I am writing to inform you of my recommendation that the *Exxon Valdez* Oil Spill Trustee Council provide $122,500 in additional funding for Project 98064/Monitoring, Habitat Use, and Trophic Interactions of Harbor Seals in Prince William Sound. The technical review of your project was very favorable, as outlined in the enclosed letter from the Chief Scientist. However, you will see that Dr. Spies recommends a "go-slow" approach to funding additional satellite tags for pups, and a corresponding reduction in your budget request, in view of the peer reviewers' comments regarding the experimental nature and current limitations of the smaller-size transmitters.

Please submit a revised detailed budget in the amount of $122,500 (including agency general administration costs) by December 15, 1997 if at all possible. My recommendation on your project will be considered by the Trustee Council at its meeting December 18. If the Council adopts my recommendation, funds will be released as soon as the administering agency provides my office with documentation of NEPA (National Environmental Policy Act) compliance.

If you have any questions about my recommendation, please give me a call.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADFG Liaison

9804

APPLIED marine SCIENCES

December 1, 1997

To: Molly McCammon
Executive Director
Exxon Valdez Oil Spill Trustee Council

There's a little confusion as to whether or not this is the FINAL version. Any changes will be minor in nature.
Sandra 12-8-97

From: Robert Spies, Chief Scientist

Re: Harbor Seal Review

On November 12th and 13th I convened a review of the harbor seal-related research supported by the Trustee Council. Presentations were made on 1. general harbor seal research in the northern Gulf of Alaska (Kathy Frost/064), 2. the population status of harbor seals as determined by aerial surveys (Kathy Frost/064), 3. the results of satellite tagging (Lloyd Lowry and Kathy Frost/064), 4. use of stable isotopes in dietary studies (Dr. Don Schell/170), 5. use of fatty acids to assess diet (Dr, Sara Iverson/064), 6. a population model of harbor seals (Dr. Bob Small/064), 7. cooperative tissue sampling and the native harvest (Monica Reidel and Vicki Vanek, DVM./244), 8. health and condition (Dr. Mike Castellini and Dr. Brian Fadley), and 9. the Alaska Native Harbor Seal Commission (Monica Reidel). There were four peer reviewers in attendance: 1. Dr. Paul Thompson, University of Aberdeen, 2. Mr. Robin Brown, Oregon Department of Fish and Game, 3. Daniel Mulcahy, DVM, US Fish and Wildlife Service, Anchorage, and 4. Mr. Dave Withrow, NOAA, National Marine Fisheries Service, National Marine Mammal Laboratory, Seattle, WA.

The purpose of this memo is to summarize the reviewer comments, my observations and recommendations. The comments are organized by topic in approximately the order shown above. I will make my recommendations at the end of the memo. The reviewer comments are attached.

1. **Population trends.** The Alaska Department of Fish and Game had at least two areas for population surveys: Trend Area B, which encompasses the northeast portions of Prince William Sound and includes most of the glacier habitat, and Trend Area A, which includes most of the central rocky islands of the Sound. Mainly as a matter of convenience for aerial surveys out of Cordova, Trend Area A was selected by ADF&G for the trend counts that have been maintained continuously since 1988. There are a significant number of harbor seals in Trend Area B, and some biologists (e.g., John Burns, who now works for Exxon) claim that the seals missing from Trend Area A are, in fact, in Trend Area B). It is unclear if the methods of aerial survey used in Trend Area B are validated (counting seals in ice is difficult). Further, I am not aware of any data that would indicate significant movement of seals between these areas. The most recent set of data for Trend

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Area B started in 1991 and there were surveys in both 1992 and 1993. The only area of contention is at Columbia Glacier, where new habitat has opened up and where there may be as many as 1000 seals.

Analysis of satellite tagging data should shed some light on movements and that analysis has just begun. Most of the tagged seals to date have been adults, and from both the tagging and the fatty acid analyses it appears that few adults move extensively. Just a few pups and juveniles have been tagged, and this is the portion of the population that one would expect might be most likely to move permanently. Better resolution of the relationships between seals in the two trend areas requires an assessment of the reliability of the methodology for counting seals in Trend Area B, an analysis of the data from Trend Area B and further tagging of seals, especially pups and juveniles. Still, the resolution of the historical relationship between the Trend Areas may not be possible due to data limitations.

The statistical work that Jay ver Hoef is doing is sophisticated and germane to accurate populations assessment using hauled out animals. It is apparent that the adjustments made to the counts based on time of day, tide, etc. have eliminated some of the variance, therefore allowing more accurate tracking of the population trends. In order to predict population trends another method besides the bootstrapping technique should be tried. The alternative Bayesian statistical approach proposed should be pursued.

2. **Satellite tagging of harbor seals**--Satellite tagging in Prince William Sound has contributed much to our understanding of harbor seal movement. Site fidelity is obviously very strong, even given the relatively small number of tags that have been attached and followed. The analysis of the data is only just getting underway. As Lloyd Lowry has stated, there are many ways in which this data can analyzed and it will be crucial to the outcome to asked focused questions. While in some respects it would be desirable to use FY98 to analyze the tagging data accumulated over the last several years, the most pressing issues concern the health and movements of pups and juvenile seals. It therefore makes sense to continue the field tagging of these stages in the coming year, although there are unresolved technological issues with the smaller transmitters required for pups.

3. **Stable isotope data**--Don Schell presented the results of his glycine-labeling experiments of seals held in a Connecticut aquarium. A whisker growth rate was derived from these experiments, but further analysis indicated that the rate of whisker growth is very seasonal in nature. Recent analysis of plankton by Tom Kline indicates that offshore values are isotopically lighter than inshore values. When productivity is high the heavier isotope is incorporated at a slightly greater rate. Therefore, one could postulate that the known higher productivity on the shelf relative to the central Gulf is confirmed by heavier carbon isotope ratios of plankton on the shelf. The drop

in carbon isotope ratios (isotopically lighter) in both the Bering Sea and the GOA since 1978 is consistent with a loss of coastal productivity. Further analysis of the large collection of field-collected whiskers is essential to indicate if the recent feeding forays in the Gulf of Alaska indicated by some of the tagging and fatty acid data are reflected in stable isotope ratios.

4. **Fatty acid signatures and diet**-Dr. Sara Iverson presented a great deal of information on the use of fatty acids in multivariate analyses of trophic habits. This method has been useful in correctly classifying and differentiating harbor seals on the basis of their sites of collection. The implication is that: 1. they do not move much, and 2. their diets differ over small scales. It also appears that within Prince William Sound the fatty acid signatures of various forage fish can also be differentiated on small scales as well as by size. A crucial question is whether with a given fatty acid signature the prey composition can be qualitatively or quantitatively determined, or if there is a unique prey composition solution to a given fatty acid profile in a harbor seal. More mathematical and statistical modeling and working with the available data will be required in FY98 to answer this question. One reviewer suggested that more attention should be given to scat collection and analysis to lend support to the fatty acid approach to determining diet.

5. **Cooperative tissue sampling**--The reviewers and I were impressed with the range of samples collected under this program and the extensive use that has been made of the tissue samples taken in cooperation with native hunters. The importance of the collection of archived samples and the data continues to grow as the size of the sample collection increases.

I have two concerns about this project. First, someone with computer data base skills should review the current approach to data management and sharing and help set up a simple but effective system to handle a growing data base. Second, I am concerned that there has apparently been no effort to plan for long-term funding of this program, which can not be sustained indefinitely with EVOS funds. The participating agencies and organizations should actively plan for a transition from EVOS funds, so this valuable program does not suddenly reach a funding crisis that jepordizes its long-term viability.

6. **Population modeling**-The simple population modeling done by Dr. Bob Small is an encouraging part of the overall approach to understanding what the PWS population is experiencing. It would be interesting to see how sensitive the modeled population would be to slight decreases in rates of juvenile survival or increases in emigration. Perhaps the known decline in Trend Area A would be mimicked by slight increases in juvenile mortality and/or emigration. This and other promising approaches need to be explored more fully.

7. **Body condition and health indicators**--This project is being closed out in FY98. The results of this project show that there are not clinically ill seals in significant numbers in the PWS population. The blood panels and condition indices have provided a valuable reference for defining healthy seals. The loss of adults from the Trend Area A is therefore probably either through some undetected emigration or a subtle change in survival of pups or juveniles. It is important to continue to define clinically healthy and sick seals in defined conditions, as will be done through project 98341.

RECOMMENDATION

The Trustee Council has already voted to fund: the closeout of "Recovery of harbor seals from EVOS: Condition and health status" (98001-CLO); the closeout of "Isotope ratio studies of marine mammals in Prince William Sound" (98170-CLO); "Community-based harbor seal management and biological sampling" (98244); and $150K for "Monitoring, habitat use and trophic interactions of harbor seals in PWS" (98064), with an additional $157K dependent on the outcome of the review. I strongly support the continued work on fatty acid analyses (Iverson), statistical analysis of the population trend data (ver Hoef), population modeling effort (Small). All of these portions of the project are very cost effective. The largest potential savings is in the satellite tagging studies. I strongly support the effort needed to analyze the accumulated data from tagged seals, with some recommended savings in the FY98 field program. In view of the comments of the reviewers with regard to the experimental nature, current limitations, and evolving efficiencies of the smaller 0.25 Watt transmitters for the juveniles, I would recommend a go-slow approach to funding additional satellite tags for pups. I therefore recommend a reduction of $35K in the proposed remaining budget for tagging pups and juveniles.

cc: S. Schubert
J. Sullivan

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

FAXED

FAX COVER SHEET

To: Kathy Frost Claudia Slater Number:

From: Sandra Schubert Date: 8 Dec 97

Comments: Total Pages: 6

re: project #98064

HARD COPY TO FOLLOW _____

Document Sent By: Keri Dile

3/27/96

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*** MULTI TRANSACTION REPORT ***
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TX/RX NO. 7825

INCOMPLETE TX/RX

TRANSACTION OK [18] 2672464 SULLIVAN-SLATER

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ERROR

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

December 5, 1997

Walter Meganack, Jr.
Port Graham Corporation
P. O. Box 5569
Port Graham, Alaska 99603

RE: Project 98263 / Assessment, Protection, and Enhancement of Wildstock Salmon Streams in Lower Cook Inlet

Dear Walter:

I am writing to inform you of my recommendation that the *Exxon Valdez* Oil Spill Trustee Council provide $107,000 for the Port Graham River and Windy Creek components of Project 98263/Assessment, Protection, and Enhancement of Wildstock Salmon Streams in Lower Cook Inlet, contingent on (1) resolution of the technical questions raised by the Chief Scientist in the enclosed letter and (2) approval of a detailed budget. Please note that the recommended funding amount includes general administration costs of $7,000 for the Alaska Department of Fish and Game, the agency administering your project.

My recommendation to fund only the Port Graham River and Windy Creek subprojects is based on the Chief Scientist's concerns about the cost effectiveness of the Rocky River and Red Lake enhancements.

You'll note that the Chief Scientist also has concerns about the scope and schedule of the proposed work. In response, and consistent with Trustee Council policy on projects of this type, I will recommend that the Council release the funds for your project in two phases. Phase I would be NEPA (National Environmental Policy Act) compliance, necessary permitting (e.g., approval by the state geneticist, endorsement by the Cook Inlet Regional Planning Team), and engineering and design. Phase II, to begin upon completion of Phase I, would be actual construction of stream improvements. Please submit a detailed budget to my office by December 15, if at all possible, that identifies the Phase I and Phase II costs for each of the two subprojects. As mentioned, the total budget including general administration should not exceed $107,000.

Also please submit a revised report, Detailed Project Description, or letter that addresses the Chief Scientist's questions regarding the source of the supplementation stock and maintenance of the spawning channels. In addition, the issue of potential harvest management problems should be taken up with the Alaska Department of Fish and Game.

My recommendation on your project will be considered by the Trustee Council at its meeting December 18, 1997. If the Council adopts my recommendation, Phase I funds will be released once the above contingencies are met.

I look forward to receiving your detailed budget and written response to the Chief Scientist's concerns as soon as possible. If you have any questions about my recommendation, please give me a call.

Sincerely,

Molly McCammon
Executive Director

Enclosure

cc: Claudia Slater, ADF&G Liaison

APPLIED
marine
SCIENCES

November 24, 1997

Ms. Molly McCammon
Executive Director
Exxon Valdez Oil Spill Trustee Council
645 G Street, Suite 401
Anchorage, Alaska 99501

Dear Molly,

I have received and sent out for review the report"Assessment, protection and enhancement of wildstock salmon streams in Lower Cook Inlet" (97263) submitted by the Port Graham Corporation. The reviewers found the report to have considerable merit, particularly with regard to the feasibility of supplementation for Coho salmon, but the schedule for implementation was far too compressed to be realistic and there were a number of comments and questions raised in the review:

1. What would be the source of the supplementation stock? If the source of the stock is not local, then the genetic implications of interbasin transplants need to be addressed as per Trustee Council policy.

2. There are often difficulties maintaining salmon spawning channels as proposed here. Given the local geomorphology, what is the prognosis for maintenance of such channels ?

3. Are there potential harvest management problems with the supplemented stock ? If so, how can these be satisfactorily addressed ?

4. Some of the five proposed projects appear to be worthwhile, while others, such as the Rocky River and Red Lake spawning channels, will produce only small numbers of additional salmon at a relatively high cost.

5. The scope and schedule of the proposed effort is rather ambitious. I doubt, for instance, that engineering plans and implementation of those plans can be carried out on the proposed schedule. Also the costs for the proposed work cannot be accurately estimated until the engineering is complete. In the EVOS process engineering plans and estimated costs are typically done in an initial phase and then approval would be obtained subsequently for implementation of the work.

Once basic questions with regard to supplementation in a biologically and economically appropriate manner are answered, I suggest a prudent approach. Such an approach would include pursuing one or two objectives for salmon supplementation, first with engineering plans and cost estimates in FY1998, and then a separate proposal for the actual work.

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I suggest that these issues be addressed by the Port Graham Corporation either in a revised proposal, report or in a supplementary letter before this project is considered by the EVOS Trustee Council on December 18th.

Sincerely,

Robert B. Spies
Chief Scientist

cc: S. Senner
S. Schubert
C. Rozen
J. Sullivan

Exxon Valdez Oil Spill Trustee Council

645 G Street, Suite 401, Anchorage, AK 99501-3451 907/278-8012 fax: 907/276-7178

FAX COVER SHEET

Bill Hauser

To: Walter Meganack Number: _____

From: Sandra Schubert Date: 5 December 97

Comments: Total Pages: 5

re: Project 98163

HARD COPY TO FOLLOW _____

Document Sent By: Keri

3/27/96

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*** MULTI TRANSACTION REPORT ***
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TX/RX NO. 7803

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TRANSACTION OK	[18] 2672464	SULLIVAN-SLATER
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