

RPWG
I

February 8, 1990

From: Gary Chapman and Hal Kibby, Coordinators
ORD Restoration Activities - Prince William Sound

Subject: ORD Technical Advisory Panel for Restoration of Prince
William Sound

To: See Below

The purpose of this memo is to ask your assistance in putting together an ORD technical advisory panel for restoration of Prince William Sound. If you have people with expertise in restoration or monitoring of ecological resources we would appreciate your naming one or two people from your laboratory that could serve on this advisory panel. If you have any questions please do not hesitate to contact either one of us. (Gary Chapman ERL-Narragansett 8-503-867-4027 or Hal Kibby ERL-Corvallis FTS 420-4625).

EPA has been designated by the President to coordinate the planning of restoration activities on behalf of the Federal Government. The Office of Water has been given the EPA lead for planning this effort. The Office of Research and Development (ORD) has been asked to provide technical assistance to Region X, the Office of Marine and Estuarine Programs (OMEP) and the Restoration Planning Work Group (RPWG) in their restoration planning efforts. Within ORD the Office of Environmental Processes and Effects Research (OEPER) has been assigned the lead to coordinate our participation.

At present, ORD is expected to undertake the following activities:

- 1) Conduct a comprehensive literature review on restoration of damaged marine ecosystems. The literature search will cover both techniques to restore habitats as well as literature on natural recovery of systems following oil spills.

- 2) Develop a working document on "State of the Art" techniques for restoration of habitats of Prince William Sound.

- 3) Assist in the planning for a technical workshop on restoration techniques following public meetings in Alaska on March 26 and 27.

- 4) Assist in the development of proposed demonstration projects, applicable to restoration of damaged resources. A limited number of these could be funded and initiated in the Summer of 1990.

- 5) Assist the Regional Office and RPWG in the development of a long range monitoring plan that documents the recovery of habitats in Prince William Sound.

While the short term assignment is not intended as a research planning exercise, we fully expect that during the course of events over the next 4 or 5 months that several research opportunities may arise and provide us with some ideas for an initiative for FY 93

In order to most efficiently provide the necessary technical assistance we have decided to set up a technical advisory council of ORD and other EPA scientists. It is expected that the technical advisory council will participate in biweekly conference calls, review documents and participate in the technical workshop to be held March 26 through 30 in Anchorage.

Unfortunately travel for ORD experts to the meetings in Alaska will have to be borne by individual laboratories.

ORD Laboratory Directors

Ken Hood

Mike Slimak

Conrad Kleveno, OMEP

Brian Ross

4990 Shoreline Highway

Stinson Beach

California 94970

1 415 868 1221

1 415 868 1946 (Fax)



POINT REYES
BIRD OBSERVATORY

RPWS
I

March 30, 1992

FINAL BILLING

COPY

RE: COOP-91- 039

Direct Labor	\$ 21,113
Direct Operating Expenses	3,880
Indirect Expenses	<u>9,672</u>
	TOTAL: <u>34,665</u>
Less progress payments	< <u>17,866</u> >
	BALANCE DUE: \$ 16,799

TO: Stan Senner
Restoration Program Manager
Restoration Planning Work Group
437 "E" Street - Suite 301
Anchorage, AK 99501

RPWG
I

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	ADAMS, FUMIKO (SALLY)		8700 BLACKBERRY	ANCHORAGE, AK 99502	
	ADAMS, MICHAEL		P.O. BOX 8	ANCHORAGE, AK 99510	
	ALASKA FEDERATION OF NATIVES,	ALASKA FEDERATION OF NATIVES	4114TH AVE., SUITE 301	ANCHORAGE, AK 99501	
	ALASKA LAND MANAGERS ASSOC,	ALASKA LAND MANAGERS ASSOC, C/O AFN	411 W. 4TH AVE., SUITE 301	ANCHORAGE, AK 99501	
	ALASKA LAND USE COUNCIL,	ALASKA LAND USE COUNCIL	1689 C STREET, SUITE 100	ANCHORAGE, AK 99501	
	ALASKA MINERS ASSOC,	ALASKA MINERS ASSOC	501 W. NO. LIGHTS, #203	ANCHORAGE, AK 99503	
	ALASKA PUBLIC LANDS INFO CENTER,	ALASKA PUBLIC LANDS INFO CENTER	605 W. 4TH AVE, SUITE 105	ANCHORAGE, AK 99501	
	ALASKA STATE COUNCIL ON THE ARTS,	ALASKA STATE COUNCIL ON THE ARTS	619 WAREHOUSE DRIVE, SUITE 220	ANCHORAGE, AK 99501	
	ALASKA WILDERNESS STUDIES,	ALASKA WILDERNESS STUDIES	2533 PROVIDENCE DRIVE	ANCHORAGE, AK 99508	
	ALFONSI, ELEANOR K.		8505 JEWEL LAKE ROAD #7	ANCHORAGE, AK 99502	
	ALFSEN, LORRAINE LEIGH		1610 OTTER STREET	ANCHORAGE, AK 99504	
	AMERICA NORTH, INC.	AMERICA NORTH, INC	201 E. 56TH, SUITE 200	ANCHORAGE, AK 99518	
	ANCHORAGE MUSEUM OF HISTORY AND ART,	ANCHORAGE MUSEUM OF HISTORY AND ART	121 W. 7TH AVENUE	ANCHORAGE, AK 99501	
	ANDERSON, DAVID		5310 LUPER PL.	ANCHORAGE, AK 99507	
	ANTHONY, SUSAN		7920 HAZEL COURT	ANCHORAGE, AK 99516	
	ANTONSON, JOAN M		1026 BARROW STREET	ANCHORAGE, AK 99501	
	ARMSTRONG, HELEN H		17520 SNOWCREST LANE	ANCHORAGE, AK 99516	
	ARNOLDSPARTZ, ROBERTA		6620 CROOKED TREE	ANCHORAGE, AK 99516	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	BADER, MARIE		738 OCEANVIEW DR.	ANCHORAGE, AK 99515	
	BARBER, SAM		2312 LOUSSAC DRIVE	ANCHORAGE, AK 99501	
	BARNETTE, BEN		3008 DOIL DRIVE	ANCHORAGE, AK 99507	
	BARR, WILLIAM B		400 W. 76TH #205	ANCHORAGE, AK 99518	
	BARSKE, DIANNE		5851 BARRY AVENUE	ANCHORAGE, AK 99516	
	BARTOLINI, JOSEPH D		P.O. BOX 202981	ANCHORAGE, AK 99520-2981	
	BICKERS, DIANE AND DONALD		P.O. BOX 231033	ANCHORAGE, AK 99523	
	BIRKEDAL, TERJE G		3450 KACHEMAK CIRCLE	ANCHORAGE, AK 99515	
	BITTNER, JUDITH E		2323 HIALEAH DRIVE	ANCHORAGE, AK 99517	
	BROOKS, JANET		3323 WESLEYAN DRIVE	ANCHORAGE, AK 99508	
	BROWN, PRESIDENT, AGNES	TYONEK NATIVE CORP	4433 LAKE OTIS PKWY.	ANCHORAGE, AK 99503	
	BURGH, COLLEEN	ADEC	3601 C ST, SUITE 1334	ANCHORAGE, AK 99503	
	BURNS, MARY JO		4169 WESTWOOD DR.	ANCHORAGE, AK 99517	
	BURRELL, TERRY C.		3716 WESLEYAN	ANCHORAGE, AK 99508	
	CALLOWAY, DON		7691 DELRIDGE CIRCLE	ANCHORAGE, AK 99507	
	CAMPBELL, NEIL		P.O. BOX 141795	ANCHORAGE, AK 99514	
	CATHCART, KIM		8739 EMERALD DRIVE	ANCHORAGE, AK 99502	
	CLARK, FRED P		P.O. BOX 100214	ANCHORAGE, AK 99510-0214	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	COOPER, D. RANDALL		1675 C STREET SUITE 235	ANCHORAGE, AK 99501	
	CORBETT, DEBRA		4706 GRUMMAN	ANCHORAGE, AK 99507	
	CORDES, PENNY M		6731 CROOKED TREE	ANCHORAGE, AK 99516	
	CRAIG, CHARLOTTE		P.O. BOX 242271	ANCHORAGE, AK 99524-2271	
	DARBYSHIRE, RALPH	DARBYSHIRE AND ASSOC	528 N STREET	ANCHORAGE, AK 99501	
	DAVENPORT, GEORGE B.	FAULKNER BANFIELD DOOGAN & HOLMES	550 WEST 7TH AVE, SUITE 1000	ANCHORAGE, AK 99501	
	DAVIS, RANDALL	EXXON	3301 C STREET, CALAIS II, 3RD FL	ANCHORAGE, AK 99503	
	DEGANGE, MARYELLEN		3305 DORIS PLACE	ANCHORAGE, AK 99517	
	DIAMOND ALASKA COAL CO.	DIAMOND ALASKA COAL CO	1227 W. 9TH AVE., SUITE 200	ANCHORAGE, AK 99501	
	DICKSON, ROBERT J.		420 L ST., 5TH FLOOR	ANCHORAGE, AK 99501	
	DITERS, CHUCK		9541 VICTOR ROAD	ANCHORAGE, AK 99515	
	DITTRICH, DR. J. PAUL	PROVIDENCE MEDICAL OFFICE BLDG	3340 PROVIDENCE DRIVE, SUITE 566	ANCHORAGE, AK 99508	
	DIXON, GREG		1400 WINTERGREEN STREET	ANCHORAGE, AK 99508	
	DOHERTY, DICK		5211 MOCKINGBIRD DR., APT. 104	ANCHORAGE, AK 99507	
	EAMES, CLIFF	ALASKA CENTER FOR THE ENVIRONMENT	700 H STREET, SUITE 4	ANCHORAGE, AK 99501	
	EIDEL, THOMAS FRANK		440 W 90TH AVENUE	ANCHORAGE, AK 99515	
	FABING, KEITH	TRYCK NYMAN & HAYES	911 W. 8TH	ANCHORAGE, AK 99501	
	FALL, JAMES A		7260 HUNTSMAN CIRCLE, UNIT C	ANCHORAGE, AK 99518	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	FAST, PHYLLIS		6944 FOUNTAIN DRIVE	ANCHORAGE, AK 99502	
	FIENUP-RIORDAN, ANN		9951 PROSPECT DRIVE	ANCHORAGE, AK 99516	
	FIFIELD, TERENCE E		P.O. BOX 241983	ANCHORAGE, AK 99524-1983	
	FISHER, CLAUDIA		8036 LOGANBERRY #22	ANCHORAGE, AK 99502	
	FORTUINE, ROBERT		1615 STANTON AVENUE	ANCHORAGE, AK 99508	
	FROST, O W		2141 LORD BARONOFF DRIVE	ANCHORAGE, AK 99517	
	GALLANT, JOE		P.O. BOX 100360	ANCHORAGE, AK 99510	
	GALLO, FRANK R.		BOX 1324	ANCHORAGE, AK 99510	
	GARDNER, ANNELLE		P.O. BOX 241531	ANCHORAGE, AK 99524-1983	
	GARDNER, RAY		717 K STREET	ANCHORAGE, AK 99501	
	GARRETT, CHRISTY		1701 BELLEVUE LOOP	ANCHORAGE, AK 99515	
	GIBSON, KAREN J		1746 TOKLAT STREET	ANCHORAGE, AK 99508	
RECREATION	GRIJALIA, MIKE	KNIK KANOERS AND KAYAKERS	P.O. BOX 101935	ANCHORAGE, AK 99510	
	GUCKER, ANNA G. & KURT G.		4231 LAUREL ST., #314	ANCHORAGE, AK 99508	
	GUDGEL-HOLMES, DIANNE		15140 MESA PLACE	ANCHORAGE, AK 99516	
	GUSTAVE, LESLIE		905 MULDOON SPACE 34A	ANCHORAGE, AK 99504	
	HAGGARTY, JAMES C.		729 W. 18TH AVE.	ANCHORAGE, AK 99503	
	HAMILTON, THOMAS D	U.S. GEOLOGICAL SURVEY	4200 UNIVERSITY DRIVE	ANCHORAGE, AK 99508	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	HANSEN, STASIA L		1230 BALFOUR 1	ANCHORAGE, AK 99515	
	HART, MIKE		12741 KAYAK PL.	ANCHORAGE, AK 99515	
	HASTLEY, BOB		6712 CUTTY SARK ST.	ANCHORAGE, AK 99502	
	HATHORN, MARY		9341 JACLAIRE LANE	ANCHORAGE, AK 99510	
	HAUCK, SHIRLEY A		2440 E TUDOR ROAD #342	ANCHORAGE, AK 99507	
	HERRICK, BRIAN		9380 BOTHWELL CIRCLE	ANCHORAGE, AK 99515	
	HOFF, RICKY		3054 TELEQUANA #2	ANCHORAGE, AK 99503	
	HOLLAND, KATHRYN		3208 DORIS STREET	ANCHORAGE, AK 99517	
	HOLONICS, AMY		4721 NEWCASTLE WAY	ANCHORAGE, AK 99503-7042	
	HORN, RENDA		16300 OLD SEWARD HWY.	ANCHORAGE, AK 99516	
	HOUSTON, BONNIE S		1626 LOGAN	ANCHORAGE, AK 99508	
	HUHDORF, PRESIDENT, ROY	COOK INLET REGION, INC	P.O. BOX 93330	ANCHORAGE, AK 99509-3330	
	HYATT-KELLER, SHARON		12941 HILLSIDE DRIVE	ANCHORAGE, AK 99516	
	JOAN DALE, RACHEL		P.O. BOX 240613	ANCHORAGE, AK 99524-0613	
	JULIUSSE, JOHN	COOK INLET TRIBAL COUNCIL, INC	670 W. FIREWEED LANE	ANCHORAGE, AK 99503	
	KENNEDY, ARTHUR	LAND USE ADVISORS COMMITTEE	P.O. BOX 3576 ECB	ANCHORAGE, AK 99501	
	KEOHANE, PAULA		P.O. BOX 112565	ANCHORAGE, AK 99511	345-7743
	KERR AND ASSOCIATES,	KERR AND ASSOC	P.O. BOX 111293	ANCHORAGE, AK 99511	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	KING, ROBERT E.		3800 COVENTRY DRIVE	ANCHORAGE, AK 99507	
	KLEIN, CHRISTINE E		P.O. BOX 241541	ANCHORAGE, AK 99524	
	KLINGER, STEVEN L		P.O. BOX 110375 SOUTH STATION	ANCHORAGE, AK 99511-0375	
	LANGDON, THELMA		2363 CAPTAIN COOK DRIVE	ANCHORAGE, AK 99518	
	LANMAN, JESS		2600 FAIRBANKS ST	ANCHORAGE, AK 99503	
	LASTUFKA, A.		P.O. BOX 112054	ANCHORAGE, AK 99511	
	LEHMAN TURCK, DIANE L		301 E 15TH TERRACE #4	ANCHORAGE, AK 99501	
	LYNCH, ALICE J.		7009 LINDEN CIRCLE	ANCHORAGE, AK 99502	
	MACK, ROBERT A.		5000 VI STREET	ANCHORAGE, AK 99507	
	MAHAFFEY, JAMES		9601 MIDDEN WAY	ANCHORAGE, AK 99507	
	MARK-ANTHONY, BEVERLY		2020 LAKE OTIS PARKWAY	ANCHORAGE, AK 99508	
	MASEK, JANET		17721 MOUNTAINSIDE VILLAGE DRIVE	ANCHORAGE, AK 99516	
	MATKIN, CRAIG		P.O. BOX 15244	ANCHORAGE, AK 99603	
	MCALLISTER, DOUG		2900 BONIFACE #648	ANCHORAGE, AK 99504	
	MCCANN, TAMI S.		3814 W. 82ND #3	ANCHORAGE, AK 99502	
	MCCARGO, DAVE	AMERICAN WILDERNESS ALLIANCE	P.O. BOX 100767	ANCHORAGE, AK 99510	
	MCKAY, J ELLEN	TROWEL DRAFTING	1208 S STREET	ANCHORAGE, AK 99501	
	MCKEE, CHARLES E.		2201 W. 36TH	ANCHORAGE, AK 99517	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	MCMAHAN, J. DAVID		305 E. 24TH AVE.	ANCHORAGE, AK 99503	
	MERBS, ARDIE	ALASKA OIL AND GAS ASSOC	121 FIREWEED LANE #207	ANCHORAGE, AK 99503-2035	
	MERRILL, KAYHRYN		3321 WILEY POST LOOP	ANCHORAGE, AK 99517	
	MILLER, ROBERT		BOX 220770	ANCHORAGE, AK 99522	
	MIRAGLIA, RITA A		855 LA TOUCHE APT. 1017	ANCHORAGE, AK 99501	
	MISHLER, CRAIG		4840 FOLKER STREET	ANCHORAGE, AK 99507	
	MOBLEY, CHARLES M.		200 W. 34TH AVE. #534	ANCHORAGE, AK 99503	
	MOOREHEAD, LISA		P.O. BOX 10-3789	ANCHORAGE, AK 99510	
	NATL PARKS AND CONSER ASSN,	NATL PARKS AND CONSER ASSN	P.O. BOX 202045	ANCHORAGE, AK 99520	
	NORMAN, JOHN K.	HARTIG, RHODES, NORMAN, MAHONEY & EDWARD	717 K STREET, SUITE 201	ANCHORAGE, AK 99501	
	O'BRIEN/MCMILLAN, PATRICIA	AEIDC	707 A STREET	ANCHORAGE, AK 99501	
	PAINÉ, LUTHER		1100 HILLCREST DRIVE	ANCHORAGE, AK 99503	
	PARTNOW, PATRICIA		2106 CASTNER CIRCLE	ANCHORAGE, AK 99517	
	PAYNE, JAMES T		1941 BEAVER PLACE	ANCHORAGE, AK 99504	
	PEARCE, JENNIFER		705 FISCHER AVE.	ANCHORAGE, AK 99518	
	PEASE, TED AND CLAIRE		15120 ELMORE ROAD	ANCHORAGE, AK 99516	
	PETRIVELLI, PAT		3126 E 16TH AVENUE	ANCHORAGE, AK 99508	
	PIERCE, RICHARD		10234 MEADOW ROAD	ANCHORAGE, AK 99516	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	POMEROY, ROXOLANNA E.		2824 KIMBERLIE COURT	ANCHORAGE, AK 99508	
	PRATT, KEN		1236 F STREET	ANCHORAGE, AK 99501	
	REEVES, JAMES N.	BOGLE & GATES LAW OFFICES	510 L STREET, SUITE 600	ANCHORAGE, AK 99501	
	REGER, DOUGLAS		4217 DOROTHY DRIVE	ANCHORAGE, AK 99504	
	RESOURCE DEVELOPMENT COUNCIL.	RESOURCE DEVELOPMENT COUNCIL	P.O. BOX 100516	ANCHORAGE, AK 99510	
	RESOURCE DEVELOPMENT COUNCIL FOR ALASKA.	RESOURCE DEVELOPMENT COUNCIL FOR ALASKA	P.O. BOX 100516	ANCHORAGE, AK 99510	
	REYNOLDS, GEORGEANNES		140 N BLISS STREET	ANCHORAGE, AK 99508	
	RICHMOND, DEBORAH		P.O. BOX 211416	ANCHORAGE, AK 99521	
	RIGG, DIANA		8141 ROVENNA STREET	ANCHORAGE, AK 99518-2450	
	ROBERTS, JOHN E		2700 JUNEAU STREET	ANCHORAGE, AK 99508	
	ROSENTHAL, C H		P.O. BOX 100360	ANCHORAGE, AK 99510	
	RUDDY, SUSAN	THE NATURE CONSERVANCY	601 W. FIFTH AVE., STE. 550	ANCHORAGE, AK 99501	
	SALEEBY, BECKY		2225 ARCTIC BLVD. #312	ANCHORAGE, AK 99503	
	SCHAAF, JEANNE		14240 OLD RABBIT CREEK ROAD	ANCHORAGE, AK 99516	
	SCHAEFFER, GEN. JOHN		3601 C STREET	ANCHORAGE, AK 99503	
	SCHNEIDER, HAROLD W		6251 W TREE DRIVE	ANCHORAGE, AK 99516	
	SCHNEIDER, KARL B.		11620 OUR ROAD	ANCHORAGE, AK 99516	
	SHAW, ROBERT D		5430 E 26TH STREET	ANCHORAGE, AK 99508	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	SHEETS, AUTHUR N.		4003 GARFIELD	ANCHORAGE, AK 99503	
	SHEPPARD, BILL		1034 E 26TH STREET	ANCHORAGE, AK 99508	
	SLAUGHTER, DALE C.	BIA-ANCSA	1675 C STREET	ANCHORAGE, AK 99503	
	SMITH, TIMOTHY		140 N BLISS STREET	ANCHORAGE, AK 99508	
	SMITH, AK REGIONAL DIRECTOR, ALLEN E.	THE WILDERNESS SOCIETY	430 WEST 7TH AVE, SUITE #210	ANCHORAGE, AK 99501	
	SMYTHE JR, CHARLES W		4115 VANCE DRIVE	ANCHORAGE, AK 99508-5644	
	SPROTT, JULIE		P.O. BOX 113069	ANCHORAGE, AK 99511	
	STALEY, DAVID P.		8911 JULIANAN STREET	ANCHORAGE, AK 99502	
	STANFORD, MARTIN V		P.O. BOX 141142	ANCHORAGE, AK 99514	
	STEELE, JULIA		4930 OMEGA CIRCLE	ANCHORAGE, AK 99516	
	STRATMAN, JOEL	WGM, INC	BOX 10059	ANCHORAGE, AK 99570	
	STROYECK, JENNY		15032 SNOWSHOE LANE	ANCHORAGE, AK 99516	
	SUDKAMP, JANA E		P.O. BOX 100344	ANCHORAGE, AK 99510	
	THIBAUT, THERESA		P.O. BOX 141142	ANCHORAGE, AK 99514	
	TONY, POLLY H		P.O. BOX 100377	ANCHORAGE, AK 99510	
	TORNFELT, EVERT	MMS OCS	BOX 141743	ANCHORAGE, AK 99514	
	TRAUTMANN, EVA R		P.O. BOX 103683	ANCHORAGE, AK 99510-3683	
	TRUSTEES FOR ALASKA.	TRUSTEES FOR ALASKA	725 CHRISTENSEN, SUITE 4	ANCHORAGE, AK 99501	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	URLING, DONNA		359 E. 24TH AVE.	ANCHORAGE, AK 99503	
	USGS PUBLIC INQUIRIES,	USGS PUBLIC INQUIRIES	4230 UNIVERSITY DRIVE	ANCHORAGE, AK 99508-4664	
	VAN HORN, W.A.		6801 OAKLAND DRIVE	ANCHORAGE, AK 99507	
	VANDER HOECK, RICHARD		11600 MARY AVENUE	ANCHORAGE, AK 99515	
	VELTRE, DOUGLAS AND MARY		1993 WALDRON DRIVE	ANCHORAGE, AK 99507	
	VICARY, CLYDE		2158 SUNRISE	ANCHORAGE, AK 99508	
	VINING, LEN	NORTH PACIFIC RIM	3300 C STREET	ANCHORAGE, AK 99503	
	WALLIS, DORIE		2622 GLACIER DTREET	ANCHORAGE, AK 99508	
	WALSKY, BERTA		P.O. BOX 140328	ANCHORAGE, AK 99514	
	WASON, WILLY		BOX 110373	ANCHORAGE, AK 99511	
	WEDDIG, DIRECTOR, MARK		700 H STREET, SUITE 4	ANCHORAGE, AK 99501	
	WIELAND, ANNE		1421 N STREET	ANCHORAGE, AK 99501	
	WILCHER, DENNY	ALASKA CONSERVATION FOUNDATION	430 WEST SEVENTH AVE, SUITE 215	ANCHORAGE, AK 99501	
	WILCHER, DENNY AND IDA		3301 WYOMING STOK	ANCHORAGE, AK 99517	
	WILES, JACK	DNR, DOPOR	P.O. BOX 107005	ANCHORAGE, AK 99510-7005	
	WILKENS, JAMES K.	BRADBURY, BLISS AND RIORDAN	431 W. 7TH AVE., SUITE 201	ANCHORAGE, AK 99501	
	WILSON, CURT		4930 OMEGA CIRCLE	ANCHORAGE, AK 99516	
	WIPPERMAN, RAY		BOX 111207	ANCHORAGE, AK 99511	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	WISE, LEILA		P.O. BOX 107034	ANCHORAGE, AK 99510-7034	
	WOODS, FLOYDE N.		2114 DOLLY VARDEN AVE.	ANCHORAGE, AK 99515	
	WORAN, BEN AND LOURANE		2960 DRAKE DRIVE	ANCHORAGE, AK 99508	
	WORCESTER, LEA M.		7621 SNOW VIEW DRIVE	ANCHORAGE, AK 99507	
	WORKMAN, KAREN W & WILLIAM B		3310 E 41 ST AVENUE	ANCHORAGE, AK 99508	
	YARBOROUGH, LINDA FINN		3504 E. 67TH AVE.	ANCHORAGE, AK 99507	
	ZICKUHR, BARBARA		5316 SHORECREST DRIVE	ANCHORAGE, AK 99515	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	MCCARGO, DAVE	AMERICAN WILDERNESS ALLIANCE	P.O. BOX 100767	ANCHORAGE, AK 99510	
	WILCHER, DENNY	ALASKA CONSERVATION FOUNDATION	430 WEST SEVENTH AVE, SUITE 215	ANCHORAGE, AK 99501	
	KENNEDY, ARTHUR	LAND USE ADVISORS COMMITTEE	P.O. BOX 3576 ECB	ANCHORAGE, AK 99501	
	DARBYSHIRE, RALPH	DARBYSHIRE AND ASSOC	528 N STREET	ANCHORAGE, AK 99501	
	SCHAEFFER, GEN. JOHN		3601 C STREET	ANCHORAGE, AK 99503	
	STRATMAN, JOEL	WGM, INC	BOX 10059	ANCHORAGE, AK 99570	
	HAGGARTY, JAMES C.		729 W. 18TH AVE.	ANCHORAGE, AK 99503	
	SALEEBY, BECKY		2225 ARCTIC BLVD. #312	ANCHORAGE, AK 99503	
	MOBLEY, CHARLES M.		200 W. 34TH AVE. #534	ANCHORAGE, AK 99503	
	HOFF, RICKY		3054 TELEQUANA #2	ANCHORAGE, AK 99503	
	MCMAHAN, J. DAVID		305 E. 24TH AVE.	ANCHORAGE, AK 99503	
	SLAUGHTER, DALE C.	BIA-ANCSA	1675 C STREET	ANCHORAGE, AK 99503	
	O'BRIEN/MCMILLAN, PATRICIA	AEIDC	707 A STREET	ANCHORAGE, AK 99501	
	MIRAGLIA, RITA A		855 LA TOUCHE APT. 1017	ANCHORAGE, AK 99501	
	PRATT, KEN		1236 F STREET	ANCHORAGE, AK 99501	
	ADAMS, FUMIKO (SALLY)		8700 BLACKBERRY	ANCHORAGE, AK 99502	
	ALFONSI, ELEANOR K.		8505 JEWEL LAKE ROAD #7	ANCHORAGE, AK 99502	
	FAST, PHYLLIS		6944 FOUNTAIN DRIVE	ANCHORAGE, AK 99502	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	FISHER, CLAUDIA		8036 LOGANBERRY #22	ANCHORAGE, AK 99502	
	LYNCH, ALICE J.		7009 LINDEN CIRCLE	ANCHORAGE, AK 99502	
	MCCANN, TAMI S.		3814 W. 82ND #3	ANCHORAGE, AK 99502	
	STALEY, DAVID P.		8911 JULIANAN STREET	ANCHORAGE, AK 99502	
	KING, ROBERT E.		3800 COVENTRY DRIVE	ANCHORAGE, AK 99507	
	MACK, ROBERT A.		5000 VI STREET	ANCHORAGE, AK 99507	
	MISHLER, CRAIG		4840 FOLKER STREET	ANCHORAGE, AK 99507	
	VAN HORN, W.A.		6801 OAKLAND DRIVE	ANCHORAGE, AK 99507	
	VELTRE, DOUGLAS AND MARY		1993 WALDRON DRIVE	ANCHORAGE, AK 99507	
	WORCESTER, LEA M.		7621 SNOW VIEW DRIVE	ANCHORAGE, AK 99507	
	YARBOROUGH, LINDA FINN		3504 E. 67TH AVE.	ANCHORAGE, AK 99507	
	BROOKS, JANET		3323 WESLEYAN DRIVE	ANCHORAGE, AK 99508	
	DIXON, GREG		1400 WINTERGREEN STREET	ANCHORAGE, AK 99508	
	ALASKA STATE COUNCIL ON THE ARTS,	ALASKA STATE COUNCIL ON THE ARTS	619 WAREHOUSE DRIVE, SUITE 220	ANCHORAGE, AK 99501	
	ANCHORAGE MUSEUM OF HISTORY AND ART,	ANCHORAGE MUSEUM OF HISTORY AND ART	121 W. 7TH AVENUE	ANCHORAGE, AK 99501	
	ANTONSON, JOAN M		1026 BARROW STREET	ANCHORAGE, AK 99501	
	COOPER, D. RANDALL		1675 C STREET SUITE 235	ANCHORAGE, AK 99501	
	LEHMAN TURCK, DIANE L		301 E 15TH TERRACE #4	ANCHORAGE, AK 99501	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	MCKAY, J ELLEN	TROWEL DRAFTING	1208 S STREET	ANCHORAGE, AK 99501	
	ALFSEN, LORRAINE LEIGH		1610 OTTER STREET	ANCHORAGE, AK 99504	
	GUSTAVE, LESLIE		905 MULDOON SPACE 34A	ANCHORAGE, AK 99504	
	MCALLISTER, DOUG		2900 BONIFACE #648	ANCHORAGE, AK 99504	
	PAYNE, JAMES T		1941 BEAVER PLACE	ANCHORAGE, AK 99504	
	REGER, DOUGLAS		4217 DOROTHY DRIVE	ANCHORAGE, AK 99504	
	BARNETTE, BEN		3008 DOIL DRIVE	ANCHORAGE, AK 99507	
	CALLOWAY, DON		7691 DELRIDGE CIRCLE	ANCHORAGE, AK 99507	
	CORBETT, DEBRA		4706 GRUMMAN	ANCHORAGE, AK 99507	
	HAUCK, SHIRLEY A		2440 E TUDOR ROAD #342	ANCHORAGE, AK 99507	
	FORTUINE, ROBERT		1615 STANTON AVENUE	ANCHORAGE, AK 99508	
	GIBSON, KAREN J		1746 TOKLAT STREET	ANCHORAGE, AK 99508	
	HOUSTON, BONNIE S		1626 LOGAN	ANCHORAGE, AK 99508	
	MARK-ANTHONY, BEVERLY		2020 LAKE OTIS PARKWAY	ANCHORAGE, AK 99508	
	PETRIVELLI, PAT		3126 E 16TH AVENUE	ANCHORAGE, AK 99508	
	REYNOLDS, GEORGEANNES		140 N BLISS STREET	ANCHORAGE, AK 99508	
	ROBERTS, JOHN E		2700 JUNEAU STREET	ANCHORAGE, AK 99508	
	SHAW, ROBERT D		5430 E 26TH STREET	ANCHORAGE, AK 99508	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	SHEPPARD, BILL		1034 E 26TH STREET	ANCHORAGE, AK 99508	
	SMITH, TIMOTHY		140 N BLISS STREET	ANCHORAGE, AK 99508	
	WALLIS, DORIE		2622 GLACIER DTREET	ANCHORAGE, AK 99508	
	WORKMAN, KAREN W & WILLIAM B		3310 E 41 ST AVENUE	ANCHORAGE, AK 99508	
	HAMILTON, THOMAS D	U.S. GEOLOGICAL SURVEY	4200 UNIVERSITY DRIVE	ANCHORAGE, AK 99508	
	SHYTHE JR, CHARLES W		4115 VANCE DRIVE	ANCHORAGE, AK 99508-5644	
	MOOREHEAD, LISA		P.O. BOX 10-3789	ANCHORAGE, AK 99510	
	ROSENTHAL, C H		P.O. BOX 100360	ANCHORAGE, AK 99510	
	SUDKAMP, JANA E		P.O. BOX 100344	ANCHORAGE, AK 99510	
	TONY, POLLY H		P.O. BOX 100377	ANCHORAGE, AK 99510	
	EIDEL, THOMAS FRANK		440 W 90TH AVENUE	ANCHORAGE, AK 99515	
	HANSEN, STASIA L		1230 BALFOUR 1	ANCHORAGE, AK 99515	
	VANDER HOECK, RICHARD		11600 MARY AVENUE	ANCHORAGE, AK 99515	
	ZICKUHR, BARBARA		5316 SHORECREST DRIVE	ANCHORAGE, AK 99515	
	ARMSTRONG, HELEN H		17520 SNOWCREST LANE	ANCHORAGE, AK 99516	
	BARSKE, DIANNE		5851 BARRY AVENUE	ANCHORAGE, AK 99516	
	CORDES, PENNY M		6731 CROOKED TREE	ANCHORAGE, AK 99516	
	FIENUP-RIORDAN, ANN		9951 PROSPECT DRIVE	ANCHORAGE, AK 99516	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	GUDGEL-HOLMES, DIANNE		15140 MESA PLACE	ANCHORAGE, AK 99516	
	HYATT-KELLER, SHARON		12941 HILLSIDE DRIVE	ANCHORAGE, AK 99516	
	CLARK, FRED P		P.O. BOX 100214	ANCHORAGE, AK 99510-0214	
	TRAUTMANN, EVA R		P.O. BOX 103683	ANCHORAGE, AK 99510-3683	
	WISE, LEILA		P.O. BOX 107034	ANCHORAGE, AK 99510-7034	
	SPROTT, JULIE		P.O. BOX 113069	ANCHORAGE, AK 99511	
	KLINGER, STEVEN L		P.O. BOX 110375 SOUTH STATION	ANCHORAGE, AK 99511-0375	
	CAMPBELL, NEIL		P.O. BOX 141795	ANCHORAGE, AK 99514	
	STANFORD, MARTIN V		P.O. BOX 141142	ANCHORAGE, AK 99514	
	THIBAULT, THERESA		P.O. BOX 141142	ANCHORAGE, AK 99514	
	WALSKY, BERTA		P.O. BOX 140328	ANCHORAGE, AK 99514	
	BIRKEDAL, TERJE G		3450 KACHEMAK CIRCLE	ANCHORAGE, AK 99515	
	DITERS, CHUCK		9541 VICTOR ROAD	ANCHORAGE, AK 99515	
	HOLLAND, KATHRYN		3208 DORIS STREET	ANCHORAGE, AK 99517	
	LANGDON, THELMA		2363 CAPTAIN COOK DRIVE	ANCHORAGE, AK 99518	
	PARTNOW, PATRICIA		2106 CASTNER CIRCLE	ANCHORAGE, AK 99517	
	BARR, WILLIAM B		400 W. 76TH #205	ANCHORAGE, AK 99518	
	FALL, JAMES A		7260 HUNTSMAN CIRCLE, UNIT C	ANCHORAGE, AK 99518	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	RIGG, DIANA		8141 ROVENNA STREET	ANCHORAGE, AK 99518-2450	
	BARTOLINI, JOSEPH D		P.O. BOX 202981	ANCHORAGE, AK 99520-2981	
	RICHMOND, DEBORAH		P.O. BOX 211416	ANCHORAGE, AK 99521	
	BICKERS, DIANE AND DONALD		P.O. BOX 231033	ANCHORAGE, AK 99523	
	KLEIN, CHRISTINE E		P.O. BOX 241541	ANCHORAGE, AK 99524	
	JOAN DALE, RACHEL		P.O. BOX 240613	ANCHORAGE, AK 99524-0613	
	MASEK, JANET		17721 MOUNTAINSIDE VILLAGE DRIVE	ANCHORAGE, AK 99516	
	PIERCE, RICHARD		10234 MEADOW ROAD	ANCHORAGE, AK 99516	
	SCHAAF, JEANNE		14240 OLD RABBIT CREEK ROAD	ANCHORAGE, AK 99516	
	SCHNEIDER, HAROLD W		6251 W TREE DRIVE	ANCHORAGE, AK 99516	
	ARNOLDSPARTZ, ROBERTA		6620 CROOKED TREE	ANCHORAGE, AK 99516	
	STEELE, JULIA		4930 OMEGA CIRCLE	ANCHORAGE, AK 99516	
	STROYECK, JENNY		15032 SNOWSHOE LANE	ANCHORAGE, AK 99516	
	WILSON, CURT		4930 OMEGA CIRCLE	ANCHORAGE, AK 99516	
	BITTNER, JUDITH E		2323 HIALEAH DRIVE	ANCHORAGE, AK 99517	
	DEGANGE, MARYELLEN		3305 DORIS PLACE	ANCHORAGE, AK 99517	
	FROST, O W		2141 LORD BARONOFF DRIVE	ANCHORAGE, AK 99517	
	GARDNER, ANNELLE		P.O. BOX 241531	ANCHORAGE, AK 99524-1983	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	FIFIELD, TERENCE E		P.O. BOX 241983	ANCHORAGE, AK 99524-1983	
	GARRETT, CHRISTY		1701 BELLEVUE LOOP	ANCHORAGE, AK 99515	
	MERRILL, KAYHRYN		3321 WILEY POST LOOP	ANCHORAGE, AK 99517	
	CRAIG, CHARLOTTE		P.O. BOX 242271	ANCHORAGE, AK 99524-2271	
	ADAMS, MICHAEL		P.O. BOX 8	ANCHORAGE, AK 99510	
	ALASKA FEDERATION OF NATIVES,	ALASKA FEDERATION OF NATIVES	4114TH AVE., SUITE 301	ANCHORAGE, AK 99501	
	ALASKA LAND MANAGERS ASSOC,	ALASKA LAND MANAGERS ASSOC, C/O AFN	411 W. 4TH AVE., SUITE 301	ANCHORAGE, AK 99501	
	ANDERSON, DAVID		5310 LUPER PL.	ANCHORAGE, AK 99507	
	ANTHONY, SUSAN		7920 HAZEL COURT	ANCHORAGE, AK 99516	
	BARBER, SAM		2312 LOUSSAC DRIVE	ANCHORAGE, AK 99501	
	BADER, MARIE		738 OCEANVIEW DR.	ANCHORAGE, AK 99515	
	BROWN, PRESIDENT, AGNES	TYONEK NATIVE CORP	4433 LAKE OTIS PKWY.	ANCHORAGE, AK 99503	
	BURNS, MARY JO		4169 WESTWOOD DR.	ANCHORAGE, AK 99517	
	BURRELL, TERRY C.		3716 WESLEYAN	ANCHORAGE, AK 99508	
	CATHCART, KIM		8739 EMERALD DRIVE	ANCHORAGE, AK 99502	
	DIAMOND ALASKA COAL CO,	DIAMOND ALASKA COAL CO	1227 W. 9TH AVE., SUITE 200	ANCHORAGE, AK 99501	
	DICKSON, ROBERT J.		420 L ST., 5TH FLOOR	ANCHORAGE, AK 99501	
	DITTRICH, DR. J. PAUL	PROVIDENCE MEDICAL OFFICE BLDG	3340 PROVIDENCE DRIVE, SUITE 566	ANCHORAGE, AK 99508	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	EAMES, CLIFF	ALASKA CENTER FOR THE ENVIRONMENT	700 H STREET, SUITE 4	ANCHORAGE, AK 99501	
	GALLO, FRANK R.		BOX 1324	ANCHORAGE, AK 99510	
	GARDNER, RAY		717 K STREET	ANCHORAGE, AK 99501	
	GUCKER, ANNA G. & KURT G.		4231 LAUREL ST., #314	ANCHORAGE, AK 99508	
	HART, MIKE		12741 KAYAK PL.	ANCHORAGE, AK 99515	
	HASTLEY, BOB		6712 CUTTY SARK ST.	ANCHORAGE, AK 99502	
	HATHORN, MARY		9341 JACLAIRE LANE	ANCHORAGE, AK 99510	
	HERRICK, BRIAN		9380 BOTHWELL CIRCLE	ANCHORAGE, AK 99515	
	HOLONICS, AMY		4721 NEWCASTLE WAY	ANCHORAGE, AK 99503-7042	
	HORN, RENDA		16300 OLD SEWARD HWY.	ANCHORAGE, AK 99516	
	HUHDORF, PRESIDENT, ROY	COOK INLET REGION, INC	P.O. BOX 93330	ANCHORAGE, AK 99509-3330	
	JULIUSSE, JOHN	COOK INLET TRIBAL COUNCIL, INC	670 W. FIREWEED LANE	ANCHORAGE, AK 99503	
	KERR AND ASSOCIATES,	KERR AND ASSOC	P.O. BOX 111293	ANCHORAGE, AK 99511	
	LASTUFKA, A.		P.O. BOX 112054	ANCHORAGE, AK 99511	
	MAHAFFEY, JAMES		9601 MIDDEN WAY	ANCHORAGE, AK 99507	
	MATKIN, CRAIG		P.O. BOX 15244	ANCHORAGE, AK 99603	
	MILLER, ROBERT		BOX 220770	ANCHORAGE, AK 99522	
	NORMAN, JOHN K.	HARTIG, RHODES, NORMAN, MAHONEY & EDWARD	717 K STREET, SUITE 201	ANCHORAGE, AK 99501	

EAGLE RIVER INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	GIBSON, DOUGLAS E		20548 DAVID AVENUE	EAGLE RIVER, AK 99577	
	LANCASTER, MIRIAM J		2363 EAGLE RIVER ROAD	EAGLE RIVER, AK 99577	
	LESSARD, TOM		HC BOX 13042	EAGLE RIVER, AK 99577	
	REEDER, JOHN W	ALASKA GEOLOGICAL SURVEY	P.O. BOX 772116	EAGLE RIVER, AK 99577	
	WOOD, GEORGE A		2363 EAGLE RIVER ROAD	EAGLE RIVER, AK 99577	
	BATES, MELISSA L.		19432 FIRST ST.	EAGLE RIVER, AK 99577	
LEGISLATOR	POURCHOT, SEN PAT		P.O. BOX 104836	EAGLE RIVER, AK 99510	
LOCAL GOVERNMENT	WOJTALIK, CHAIRMAN, MARK	ANCHORAGE ADVISORY COMMITTEE	P.O. BOX 77-2008	EAGLE RIVER, AK 99577	907-694-9
MEDIA	CHUGIAK-EAGLE RIVER STAR.	CHUGIAK-EAGLE RIVER STAR	16941 N. EAGLE RIVER LOOP	EAGLE RIVER, AK 99577	

WASILLA INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	SEAGER-BOSS, FRAN		P.O. BOX 873281	WASILLA, AK 99687	
	LEE, SUSAN K		HC 30 BOX 5596	WASILLA, AK 99687-9712	
	DEBUSMAN, RICHARD		830 LANARK STREET	WASILLA, AK 99676	
	STARR, T. A.		BOX 870053	WASILLA, AK 99687	
MEDIA	FRONTIERSMAN/VALLEY SUN,	FRONTIERSMAN/VALLEY SUN	1261 SEWARD MERIDIAN, STE. F	WASILLA, AK 99687	
OTHER FEDERAL OR STATE AGENCY	HOLSTEN, GARY	WASILL JR HIGH	P.O. BOX 873031	WASILLA, AK 99687	
SCIENTIST	MOORE, NANCY	SOCIETY FOR ECOLOGICAL RESTORATION	1190 LAKESHORE DR.	WASILLA, AK 99687	907-376-6

PALMER INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	BUDDE, SHERRI L		P.O. BOX 3328	PALMER, AK 99645	
	VANDEVISSE, ELLEN		HC02 BOX 7471-C	PALMER, AK 99645	
	HELM, DOT		233 W. BEAVER	PALMER, AK 99645	
CULTURAL RESOURCES	PALMER HISTORIC SOCIETY,	PALMER HISTORIC SOCIETY	P.O. BOX 3330	PALMER, AK 99645	
ENVIRONMENTAL GROUP	HELM, DOROTHY	SOCIETY FOR ECOLOGICAL RESTORATION	233 W. BEAVER	PALMER, AK 99645	907-745-3
FISHING	MATANUSKA VALLEY SPORTSMEN,	MATANUSKA VALLEY SPORTSMEN	BOX 1875	PALMER, AK 99645	
HUNTING	MYSTIC LAKE LODGE, ALASKA TROPHY HUNTS	MYSTIC LAKE LODGE	BOX 878	PALMER, AK 99645	
LEGISLATORS	FISHEL, MATTHEW		C/O SEN. KERTTULA, BOX Z	PALMER, AK 99645	
MEDIA	WOHLFORTH, CHARLES	ANCHORAGE DAILY NEWS	800 W. EVERGREEN, SUITE 205	PALMER, AK 99645	
RECREATION	GANS, JOHN	NATIONAL OUTDOOR LEADERSHIP SCHOOL	P.O. BOX 981	PALMER, AK 99645	

KODIAK INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	COHEN, JANET R		P.O. BOX 789	KODIAK, AK 99615	
	FUJIMOTO, JOANNA		514 MOZART CIRCLE	KODIAK, AK 99615	
	KNECHT, RICK		P.O. BOX 360	KODIAK, AK 99615	
	MASON, RACHEL		P.O. BOX 350	KODIAK, AK 99615	
AQUACULTURE	KODIAK REGIONAL AQUACULTURE ASSOC,	KODIAK REGIONAL AQUACULTURE ASSOC	P.O. BOX 3407	KODIAK, AK 99615	
ENVIRONMENTAL GROUP	PROVOST, CHRIS	KODIAK AUDUBON SOCIETY	P.O. BOX 4068	KODIAK, AK 99615	
FEDERAL OF STATE RESOURCE AGENCY	PROKOPOWICH, SECRETARY, DAVE	ADFG KODIAK ADVISORY COMMITTEE	ADF&G/211 MISSION ROAD	KODIAK, AK 99615	486-4791
FISH AND WILDLIFE	JACOBS, MARY	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 3080	KODIAK, AK 99615	486-8281
FISH AND WILDLIFE	FOX, DON	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 2971	KODIAK, AK 99615	486-4738
FISHING	ALASKA DRAGGERS ASSOC,	ALASKA DRAGGERS ASSOC	P.O. BOX 991	KODIAK, AK 99615	
FISHING	KODIAK LONGLINERS ASSOC,	KODIAK LONGLINERS ASSOC	P.O. BOX 3406	KODIAK, AK 99615	
FISHING	KODIAK LONGLINE VESSEL OWNERS ASSOC,	KODIAK LONGLINE VESSEL OWNERS ASSOC	P.O. BOX 135	KODIAK, AK 99615	
FISHING	UNITED FISHERMEN'S MARKETING ASSOC,	UNITED FISHERMEN'S MARKETING ASSOC	P.O. BOX 1035	KODIAK, AK 99615	
FISHING	UNIV OF ALASKA, MARINE ADVISORY PROGRAM,	UNIV OF ALASKA, MARINE ADVISORY PROGRAM	202 CENTER STREET, SUITE 201	KODIAK, AK 99615	
FISHING	FISHERIES INDUSTRIAL TECHNOLOGY CENTER,	FISHERIES INDUSTRIAL TECHNOLOGY CENTER	POUCH K	KODIAK, AK 99615	
FISHING	HOLM, OLIVER	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 3865	KODIAK, AK 99615	486-6957
FISHING	FIELDS, WALLACE	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 1691	KODIAK, AK 99615	486-8370
FISHING	ROHRER, DICK	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 2219	KODIAK, AK 99615	486-5835

KODIAK INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
FISHING	NAULT, ANDRE	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 922	KODIAK, AK 99615	486-4918
FISHING	BARKER, BILL	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 2135	KODIAK, AK 99615	486-8229
FISHING	COLWELL, DAVID	ADFG KODIAK ADVISORY COMMITTEE	1517 LARCH	KODIAK, AK 99615	486-3077
FISHING	HILL, JACK	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 573	KODIAK, AK 99615	486-4289
FISHING	BURKHOLDER, BERNIE	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 4124	KODIAK, AK 99615	486-8237
FISHING	MOIR, MATT	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 4306	KODIAK, AK 99615	486-2687
FISHING	STIRRUP, ERIC	KODIAK WESTERN CHARTERS	P.O. BOX 4123	KODIAK, AK 99615	
HUNTING	LECHNER, JACK	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 1616	KODIAK, AK 99615	486-5851
LOCAL GOVERNMENT	FREED, DIRECTOR, LINDA	KODIAK ISLAND BOROUGH	710 MILL BAY ROAD	KODIAK, AK 99615-6340	907-486-5
LOCAL GOVERNMENT	SELBY, MAYOR JEROME M.	KODIAK ISLAND BOROUGH	710 MILL BAY ROAD	KODIAK, AK 99615	
MEDIA	KODIAK DAILY MIRROR,	KODIAK DAILY MIRROR	P.O. BOX 1307	KODIAK, AK 99615	
MEDIA	KVOK,	KVOK	BOX 708	KODIAK, AK 99686	
MEDIA	KODIAK DAILY MIRROR,	KODIAK DAILY MIRROR	1895 MISSION	KODIAK, AK 99615	
MEDIA	KMXT-FM,	KMXT-FM	718 MILL BAY ROAD	KODIAK, AK 99615	
NATIVE ORGANIZATION	ARENSON, PRESIDENT, GARY	KODIAK AREA NATIVE ASSOC	402 CENTER AVE.	KODIAK, AK 99615	
NATIVE ORGANIZATION	ROBERTS, PRESIDENT, MARGARET	KODIAK TRIBAL COUNCIL	P.O. BOX 3208	KODIAK, AK 99615	
NATIVE ORGANIZATION	DREBECK, PRESIDENT, ANTHONY	NATIVES OF KODIAK, INC	2011 MILLBAY ROAD, NO. 1	KODIAK, AK 99615	
NATIVE ORGANIZATION	STOVER, PRESIDENT, LOIS	SHUYAK, INC	P.O. BOX 727	KODIAK, AK 99615	

05/16/90

KODIAK INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
NATIVE ORGANIZATION	SQARTSOFF, SR., PRESIDENT, MIKE	UYAK NATIVES	P.O. BOX 136	KODIAK, AK 99615	
OTHER FEDERAL OR STATE AGENCY	BURTON, CHAIRMAN, JIM	KODIAK SOIL & WATER CONS DIST	P.O. BOX 1805	KODIAK, AK 99615	907-486-6
SEAFOOD PROCESSOR/SUPPLIER	EAGLE FISHERIES, INC.	EAGLE FISHERIES, INC	P.O. BOX 868, 812 MARINE WAY	KODIAK, AK 99615	
SEAFOOD PROCESSOR/SUPPLIER	INTERNATIONAL SEAFOODS OF ALASKA, INC.	INTERNATIONAL SEAFOODS OF ALASKA, INC	P.O. BOX 2997	KODIAK, AK 99615	
SEAFOOD PROCESSOR/SUPPLIER	KODIAK REDUCTION CO.	KODIAK REDUCTION CO	911 GIBSON COVE ROAD	KODIAK, AK 99615	
SEAFOOD PROCESSOR/SUPPLIER	PATRICIA LEE INC.	PATRICIA LEE INC	P.O. BOX 2074, 1720 REZANOF	KODIAK, AK 99615	
SEAFOOD PROCESSOR/SUPPLIERS	FUTURA FISHERIES, INC.	FUTURA FISHERIES, INC	P.O. BOX 37, 1113 STELLAR WAY	KODIAK, AK 99615	
SUBSISTENCE	OLSEN, MARK	ADFG KODIAK ADVISORY COMMITTEE	P.O. BOX 485	KODIAK, AK 99615	486-6860

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	PAINE, LUTHER		1100 HILLCREST DRIVE	ANCHORAGE, AK 99503	
	PEASE, TED AND CLAIRE		15120 ELMORE ROAD	ANCHORAGE, AK 99516	
	PEARCE, JENNIFER		705 FISCHER AVE.	ANCHORAGE, AK 99518	
	POMEROY, ROXOLANNA E.		2824 KIMBERLIE COURT	ANCHORAGE, AK 99508	
	REEVES, JAMES N.	BOGLE & GATES LAW OFFICES	510 L STREET, SUITE 600	ANCHORAGE, AK 99501	
	RESOURCE DEVELOPMENT COUNCIL FOR ALASKA,	RESOURCE DEVELOPMENT COUNCIL FOR ALASKA	P.O. BOX 100516	ANCHORAGE, AK 99510	
	RUDDY, SUSAN	THE NATURE CONSERVANCY	601 W. FIFTH AVE., STE. 550	ANCHORAGE, AK 99501	
	SCHNEIDER, KARL B.		11620 OUR ROAD	ANCHORAGE, AK 99516	
	TRUSTEES FOR ALASKA,	TRUSTEES FOR ALASKA	725 CHRISTENSEN, SUITE 4	ANCHORAGE, AK 99501	
	URLING, DONNA		359 E. 24TH AVE.	ANCHORAGE, AK 99503	
	WASON, WILLY		BOX 110373	ANCHORAGE, AK 99511	
	WEDDIG, DIRECTOR, MARK		700 H STREET, SUITE 4	ANCHORAGE, AK 99501	
	WIELAND, ANNE		1421 N STREET	ANCHORAGE, AK 99501	
	WILKENS, JAMES K.	BRADBURY, BLISS AND RIORDAN	431 W. 7TH AVE., SUITE 201	ANCHORAGE, AK 99501	
	WIPPERMAN, RAY		BOX 111207	ANCHORAGE, AK 99511	
	WORAN, BEN AND LOURANE		2960 DRAKE DRIVE	ANCHORAGE, AK 99508	
	WILCHER, DENNY AND IDA		3301 WYOMING STOK	ANCHORAGE, AK 99517	
	WILES, JACK	DNR, DOPOR	P.O. BOX 107005	ANCHORAGE, AK 99510-7005	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	WOODS, FLOYDE N.		2114 DOLLY VARDEN AVE.	ANCHORAGE, AK 99515	
	ALASKA LAND USE COUNCIL,	ALASKA LAND USE COUNCIL	1689 C STREET, SUITE 100	ANCHORAGE, AK 99501	
	USGS PUBLIC INQUIRIES,	USGS PUBLIC INQUIRIES	4230 UNIVERSITY DRIVE	ANCHORAGE, AK 99508-4664	
	ALASKA PUBLIC LANDS INFO CENTER,	ALASKA PUBLIC LANDS INFO CENTER	605 W. 4TH AVE, SUITE 105	ANCHORAGE, AK 99501	
	ALASKA MINERS ASSOC.,	ALASKA MINERS ASSOC	501 W. NO. LIGHTS, #203	ANCHORAGE, AK 99503	
	MERBS, ARDIE	ALASKA OIL AND GAS ASSOC	121 FIREWEED LANE #207	ANCHORAGE, AK 99503-2035	
	NATL PARKS AND CONSER ASSN,	NATL PARKS AND CONSER ASSN	P.O. BOX 202045	ANCHORAGE, AK 99520	
	RESOURCE DEVELOPMENT COUNCIL,	RESOURCE DEVELOPMENT COUNCIL	P.O. BOX 100516	ANCHORAGE, AK 99510	
	ALASKA WILDERNESS STUDIES,	ALASKA WILDERNESS STUDIES	2533 PROVIDENCE DRIVE	ANCHORAGE, AK 99508	
	AMERICA NORTH, INC,	AMERICA NORTH, INC	201 E. 56TH, SUITE 200	ANCHORAGE, AK 99518	
	KEOHANE, PAULA		P.O. BOX 112565	ANCHORAGE, AK 99511	345-7743
	DOHERTY, DICK		5211 MOCKINGBIRD DR., APT. 104	ANCHORAGE, AK 99507	
	VICARY, CLYDE		2158 SUNRISE	ANCHORAGE, AK 99508	
	DAVIS, RANDALL	EXXON	3301 C STREET, CALAIS II, 3RD FL	ANCHORAGE, AK 99503	
	TORNFELT, EVERT	MMS OCS	BOX 141743	ANCHORAGE, AK 99514	
	BURGH, COLLEEN	ADEC	3601 C ST, SUITE 1334	ANCHORAGE, AK 99503	
	GALLANT, JOE		P.O. BOX 100360	ANCHORAGE, AK 99510	
	DAVENPORT, GEORGE B.	FAULKNER BANFIELD DOOGAN & HOLMES	550 WEST 7TH AVE, SUITE 1000	ANCHORAGE, AK 99501	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
	LANMAN, JESS		2600 FAIRBANKS ST	ANCHORAGE, AK 99503	
	SHEETS, AUTHUR N.		4003 GARFIELD	ANCHORAGE, AK 99503	
	VINING, LEN	NORTH PACIFIC RIM	3300 C STREET	ANCHORAGE, AK 99503	
	FABING, KEITH	TRYCK NYMAN & HAYES	911 W. 8TH	ANCHORAGE, AK 99501	
	SMITH, AK REGIONAL DIRECTOR, ALLEN E.	THE WILDERNESS SOCIETY	430 WEST 7TH AVE, SUITE #210	ANCHORAGE, AK 99501	
	MCKEE, CHARLES E.		2201 W. 36TH	ANCHORAGE, AK 99517	
RECREATION	GRIJALIA, MIKE	KNIK KANOERS AND KAYAKERS	P.O. BOX 101935	ANCHORAGE, AK 99510	
CULTURAL	YAW-DAVIS, NANCY	CULTURAL DYNAMICS LTD	719 N. STREET SUITE 3	ANCHORAGE, AK 99501	
CULTURAL RESOURCES	JAEGER, ROBERT	ALASKA MARITIME HERITAGE	7700 DOVER AVE.	ANCHORAGE, AK 99504	
CULTURAL RESOURCES	ALASKA STATE COUNCIL ON THE ARTS,	ALASKA STATE COUNCIL ON THE ARTS	619 WAREHOUSE DR, #220	ANCHORAGE, AK 99501	
CULTURAL RESOURCES	ANCHORAGE HISTORIC PROPERTIES, INC,	ANCHORAGE HISTORIC PROPERTIES, INC	524 W 4TH AVE	ANCHORAGE, AK 99501	
CULTURAL RESOURCES	ANCHORAGE MUSEUM OF HISTORY AND ART,	ANCHORAGE MUSEUM OF HISTORY AND ART	121 W 7TH AVE	ANCHORAGE, AK 99501	
CULTURAL RESOURCES	SCHUBERT, CAROLYN	COUNCIL NATIVE CORP	3106 COTTONWOOD	ANCHORAGE, AK 99504	
CULTURAL RESOURCES	ALASKA HISTORIC SOCIETY,	ALASKA HISTORIC SOCIETY	P.O. BOX 100299	ANCHORAGE, AK 99510-0299	
CULTURAL RESOURCES	WURLITZER, HAP		P.O. BOX 101145	ANCHORAGE, AK 99510-1145	
DEVELOPMENT	BRUDIE, ERIC	YUKON PACIFIC CORP	P.O. BOX 101700	ANCHORAGE, AK 99510	
ENVIRONMENTAL	ALASKA NATURAL HISTORY ASSOC.	ALASKA NATURAL HISTORY ASSOC	605 W. FOURTH AVENUE	ANCHORAGE, AK 99501-2231	
ENVIRONMENTAL GROUP	LOWRY, CINDY	GREENPEACE USA	P.O. BOX 104432	ANCHORAGE, AK 99510	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
ENVIRONMENTAL GROUP	ALASKA ENVIRONMENTAL ASSEMBLY,	ALASKA ENVIRONMENTAL ASSEMBLY	430 WEST SEVENTH AVE., NO.215	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	HOLLOWAY, MIKE	ALASKA FRIENDS OF THE EARTH	P.O. BOX 103847	ANCHORAGE, AK 99510	
ENVIRONMENTAL GROUP	WEINER, RANDY	TRUSTEES FOR ALASKA	725 CHRISTENSEN DRIVE, SUITE 4	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	ROTHE, ANN	NATIONAL WILDLIFE FEDERATION	750 WEST SECOND AVENUE, NO. 200	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	SMITH, ALLEN	THE WILDERNESS SOCIETY	519 W. EIGHTH AVE.	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	LIBENSON, SUE	ALASKA CENTER FOR THE ENVIRONMENT	700 H STREET, NO. 4	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	JACKSON, JIMMY	WILDLIFE FEDERATION OF ALASKA	750 WEST SECOND, NO. 200	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	BROWN, VALERIE	ALASKA WILDLIFE ALLIANCE	P.O. BOX 190953	ANCHORAGE, AK 99519	
ENVIRONMENTAL GROUP	BARKER, FRANKIE	ALASKA NATURAL HISTORY ASSOCIATION	605 WEST FOURTH AVENUE, SUITE 120	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	HILD, CARL	ALASKA HEALTH PROJECT	431 WEST SEVENTH AVE, NO. 101	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	RUDDY, SUSAN	THE NATURE CONSERVANCY OF ALASKA	601 WEST FIFTH, SUITE 550	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	HESSION, JACK	SIERRA CLUB, ALASKA FIELD OFFICE	241 EAST FIFTH AVENUE, NO. 205	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	BOHI, HEIDI	ALASKA PUBLIC INTEREST RESEARCH GROUP	P.O. BOX 101093	ANCHORAGE, AK 99510	
ENVIRONMENTAL GROUP	CLINE, DAVE	NATIONAL AUDOBON SOCIETY	398 G STREET, SUITE 219	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	PRESTON, JIM AND KELLY	PWS RECREATION ASSOC	3431 SHAMROCK ST.	ANCHORAGE, AK 99504	
ENVIRONMENTAL GROUP	EAMES, CLIFF	ALASKA CENTER FOR THE ENVIRONMENT	700 H STREET, SUITE 4	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	ALEXANDER, SUSAN	THE WILDERNESS SOCIETY	519 W. 8TH, SUITE 205	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	LEBMAN, RIKI		4768 MILLS CT.	ANCHORAGE, AK 99508	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
ENVIRONMENTAL GROUP	NIENHUESER, GAYLE E.		2561 LOVEJOY DRIVE	ANCHORAGE, AK 99508	
ENVIRONMENTAL GROUP	PLUMB-MENTJES, MARY LEE	SOCIETY FOR ECOLOGICAL RESTORATION	6409 E. 35TH AVE.	ANCHORAGE, AK 99504	907-753-2
ENVIRONMENTAL GROUP	DALTON, MARK	SOCIETY FOR ECOLOGICAL RESTORATION	2343 SAINT ELIAS DR.	ANCHORAGE, AK 99517	907-243-4
ENVIRONMENTAL GROUP	RUNDQUIST, RUNDQUIST AND COMPANY, LARRY A.	SOCIETY FOR ECOLOGICAL RESTORATION	2912 ALDER DR.	ANCHORAGE, AK 99508-3201	907-279-7
ENVIRONMENTAL GROUP	ANCHORAGE AUDUBON SOCIETY,	ANCHORAGE AUDUBON SOCIETY	P.O. BOX 1161	ANCHORAGE, AK 99510	
ENVIRONMENTAL GROUP	WILDLIFE FEDERATION OF ALASKA,	WILDLIFE FEDERATION OF ALASKA	P.O. BOX 103782	ANCHORAGE, AK 99510	
ENVIRONMENTAL GROUP	ALASKA WILDLIFE ALLIANCE,	ALASKA WILDLIFE ALLIANCE	P.O. BOX 6953	ANCHORAGE, AK 99502	
ENVIRONMENTAL GROUP	TRUSTEES FOR ALASKA,	TRUSTEES FOR ALASKA	725 CHRISTENSEN DR., SUITE 4	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	GREENPEACE USA,	GREENPEACE USA	P.O. BOX 104432	ANCHORAGE, AK 99510-4432	
ENVIRONMENTAL GROUP	AMERICAN WILDERNESS ALLIANCE,	AMERICAN WILDERNESS ALLIANCE	P.O. BOX 100767	ANCHORAGE, AK 99410-0767	
ENVIRONMENTAL GROUP	AK ENVIRONMENTAL POLITICAL ACTION,	AK ENVIRONMENTAL POLITICAL ACTION	P.O. BOX 101177	ANCHORAGE, AK 99510-1177	
ENVIRONMENTAL GROUP	ALASKA WILDLIFE ALLIANCE,	ALASKA WILDLIFE ALLIANCE	P.O. BOX 190953	ANCHORAGE, AK 99519-0953	
ENVIRONMENTAL GROUP	ALASKA WILDLIFE SOCIETY,	ALASKA WILDLIFE SOCIETY	2411 INGRA STREET	ANCHORAGE, AK 99508	
ENVIRONMENTAL GROUP	AUDUBON SOCIETY,	AUDUBON SOCIETY	P.O. BOX 101161	ANCHORAGE, AK 99510	
ENVIRONMENTAL GROUP	SIERRA CLUB,	SIERRA CLUB	241 E. 5TH AVE, #205	ANCHORAGE, AK 99501	
ENVIRONMENTAL GROUP	SIERRA CLUB/ALASKA CHAPTER,	SIERRA CLUB/ALASKA CHAPTER	P.O. BOX 103441	ANCHORAGE, AK 99510	
ENVIRONMENTAL GROUP	TRUSTEES FOR ALASKA,	TRUSTEES FOR ALASKA	725 CHRISTENSEN DR., #4	ANCHORAGE, AK 99510	
ENVIRONMENTAL GROUP	THE WILDERNESS SOCIETY,	THE WILDERNESS SOCIETY	430 W. 7TH AVE	ANCHORAGE, AK 99501	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
ENVIRONMENTAL GROUP	FRIENDS OF CHUGACH STATE PARK,	FRIENDS OF CHUGACH STATE PARK	P.O. BOX 100127	ANCHORAGE, AK 99510	
FEDERAL / STATE RESOURCE AGENCY	LOCKHART, DARCY	ALEUTIANS WEST CRSA	1007 W. 3RD AVE., SUITE 201	ANCHORAGE, AK 99501	
FEDERAL OR STAE RESOURCE AGENCY	HARRITT, ROGER	U.S. NATIONAL PARK SERVICE	2525 GAMBELL STREET RM 107	ANCHORAGE, AK 99503-2892	
FEDERAL OR STATE RESOURCE AGENCY	KURTAK, JOSEPH	U.S. BUREAU OF MINES	201 E. 9TH, SUITE 101	ANCHORAGE, AK 99501	
FEDERAL OR STATE RESOURCE AGENCY	ALASKA LAND USE COUNCIL,	ALASKA LAND USE COUNCIL	1689 C STREET, SUITE 100	ANCHORAGE, AK 99501	
FEDERAL OR STATE RESOURCE AGENCY	KEELER, LEO	U.S. FOREST SERVICE	201 E. 9TH AVE., SUITE 206	ANCHORAGE, AK 99501	
FEDERAL OR STATE RESOURCE AGENCY	SUNDBURG, KIM	ADFG/HABITAT DIVISION	333 RASPBERRY ROAD	ANCHORAGE, AK 99502	
FEDERAL OR STATE RESOURCE AGENCY	IRONS, DAVID	U.S. FISH AND WILDLIFE SERVICE	1011 E. TUDOR ROAD	ANCHORAGE, AK 99503	
FEDERAL OR STATE RESOURCE AGENCY	DULAC, DALTON	U.S. FOREST SERVICE	201 E. 9TH	ANCHORAGE, AK 99501	
FEDERAL OR STATE RESOURCE AGENCY	GALLAGHER, GERALD	DIVISION OF MINING	P.O. BOX 107005	ANCHORAGE, AK 99510-7005	
FEDERAL OR STATE RESOURCE AGENCY	KETCHUM, DAN	DIVISION OF FORESTRY	P.O. BOX 107005	ANCHORAGE, AK 99510-7005	
FEDERAL OR STATE RESOURCE AGENCY	BIELAWSKI, PATTY	DIV OF GOVERNMENTAL COORD	3601 C STREET, SUITE 370	ANCHORAGE, AK 99503-5930	
FEDERAL OR STATE RESOURCE AGENCY	EVISON, BOYD	NPS	2525 GAMBELL, ROOM #107	ANCHORAGE, AK 99503	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
FEDERAL OR STATE RESOURCE AGENCY	RUSSELL, JOE	U.S. BUREAU OF LAND MGMT	6881 ABBOTT LOOP RD.	ANCHORAGE, AK 99507	
FEDERAL OR STATE RESOURCE AGENCY	STIEGLITZ, WALTER	U.S. FISH & WILDLIFE SERVICE	1011 E. TUDOR ROAD	ANCHORAGE, AK 99503	
FEDERAL OR STATE RESOURCE AGENCY	NATIONAL PARK SERVICE, ALASKA REGION,	NATIONAL PARK SERVICE, ALASKA REGION	2525 GAMBELL STREET, RM 107	ANCHORAGE, AK 99503	
FEDERAL OR STATE RESOURCE AGENCY	U.S. FISH AND WILDLIFE SERVICE,	U.S. FISH AND WILDLIFE SERVICE	1011 E. TUDOR RD.	ANCHORAGE, AK 99503	
FEDERAL OR STATE RESOURCE AGENCY	ALASKA RESOURCE LIBRARY,	BUREAU OF LAND MANAGEMENT	222 W 7TH AVENUE BOX 36	ANCHORAGE, AK 99513	
FEDERAL OR STATE RESOURCE AGENCY	AK DEPT OF TRANSPORTATION, ENVIRONMENTAL COOR,	AK DEPT OF TRANSPORTATION	P.O. BOX 6900	ANCHORAGE, AK 99501	
FEDERAL OR STATE RESOURCE AGENCY	BIELAWSKI, PATTY	DIVISION OF GOVERNMENTAL COORDINATION	2600 DENALI STREET, SUITE 7000	ANCHORAGE, AK 99503-2798	
FEDERAL OR STATE RESOURCE AGENCY	CHUGACH NATIONAL FOREST,	CHUGACH NATIONAL FOREST	201 E. 9TH AVE, #206	ANCHORAGE, AK 99501	
FEDERAL OR STATE RESOURCE AGENCY	NATIONAL PARK SERVICE,	NATIONAL PARK SERVICE	2525 GAMBELL ST, #107	ANCHORAGE, AK 99503-2892	
FEDERAL OR STATE RESOURCE AGENCY	GILBERT, VERONICA	ADNR	P.O. BOX 107005	ANCHORAGE, AK 99510-7005	
FEDERAL/STATE RESOURCE AGENCY	NELSON, RONALD	U.S. COAST GUARD	701 C STREET	ANCHORAGE, AK 99513	
FEDERAL/STATE RESOURCE AGENCY	SMITH, BRAD	NATIONAL MARINE FISHERIES SERVICE	701 C STREET	ANCHORAGE, AK 99513	
FEDERAL/STATE RESOURCE AGENCY	PAWLOWSKI, LCDR ROBERT J.	U.S. NOAA	701 C STREET	ANCHORAGE, AK 99513	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
FEDERAL/STATE RESOURCE AGENCY	MATTSON, JOHN L	US FOREST SERVICE	4201 NORTH POINT DRIVE	ANCHORAGE, AK 99515	
FISH AND WILDLIFE	MCALPINE, RON		8341 E. 11TH CT	ANCHORAGE, AK 99504	
FISHING	NORTH PACIFIC FISHERY MANAGEMENT COUNCIL,	NORTH PACIFIC FISHERY MANAGEMENT COUNCIL	P.O. BOX 103136, 411 W. 4TH, SUITE 2D	ANCHORAGE, AK 99510	
FISHING	WOMEN'S FISHERIES NETWORK,	WOMEN'S FISHERIES NETWORK	P.O. BOX 103920	ANCHORAGE, AK 99510	
FISHING	UNIV OF ALASKA, MARINE ADVISORY PROGRAM,	UNIV OF ALASKA, MARINE ADVISORY PROGRAM	2221 E. NORTHERN LIGHTS BLVD., SUITE 220	ANCHORAGE, AK 99508-4131	
FISHING	OWECKE, PAUL	PWS SETNETTERS ASSOC	P.O. BOX 110263	ANCHORAGE, AK 99511	
FISHING	NORTHERN DISTRICT SETNETTERS OF COOK INLET,	NORTH DIST SETNETTERS OF COOK INLET	P.O. BOX 1480	ANCHORAGE, AK 99510	
FISHING	ALASKA FLYFISHERS,	ALASKA FLYFISHERS	BOX 4-11	ANCHORAGE, AK 99509	
FISHING	ALASKA SPORTFISHING ASSOCIATION,	ALASKA SPORTFISHING ASSOC	3605 ARCTIC BLVD., SUITE 800	ANCHORAGE, AK 99503	
FISHING	KENAI RIVER SPORTFISHING ASSOCIATION,	KENAI RIVER SPORTFISHING ASSOC	3620 PENLAND PARKWAY	ANCHORAGE, AK 99508	
FISHING	LARSEN, JEANNE		2440 TULIK DRIVE	ANCHORAGE, AK 99517	
FORESTRY	CONNELLY, STEVE	SOUTH CENTRAL TIMBER DEVEL	255 E. FIREWOOD, #104	ANCHORAGE, AK 99503	
LEGAL	TODD, RICHARD		2397 WALDRON WAY	ANCHORAGE, AK 99507	
LEGAL	LYLE, GEORGE	GUESS AND RUDD	510 L STREET, SUITE 700	ANCHORAGE, AK 99501	
LEGAL	MCCUTCHEON, JERRY		121 WEST 11TH AVENUE	ANCHORAGE, AK 99501	
LEGAL	DAVENPORT, GEORGE	EXXON	550 W 7TH, SUITE 1000	ANCHORAGE, AK 99501	274-0666
LEGISLATOR	STURGULEWSKI, SEN ARLISS		2957 SHELDON JACKSON	ANCHORAGE, AK 99508	
LEGISLATORS	NORLUND, JIM		3903 WYOMING DR.	ANCHORAGE, AK 99517	

05/16/90

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
LEGISLATORS	MEYERS, ERIC		6710 POTTER HEIGHTS	ANCHORAGE, AK 99516	
LEGISLATORS	STEVENS, HONORABLE TED		222 W. 7TH AVE., #2	ANCHORAGE, AK 99513	
LEGISLATORS	YOUNG, HONORABLE DON		222 W. 7TH AVE., #3	ANCHORAGE, AK 99513	
LEGISLATORS	MURKOWSKI, HONORABLE FRANK		222 W. 7TH AVE., #1	ANCHORAGE, AK 99513	
LOCAL GOVERNMENT	DALTON, MARK	MUN OF ANCH, ECON DEVEL & PLANNING	P.O. BOX 196650	ANCHORAGE, AK 99519-6650	907-343-4
LOCAL GOVERNMENT	BECKWITH, WAYNE K.	ANCHORAGE CHAMBER OF COMMERCE	415 F STREET	ANCHORAGE, AK 99501	
LOCAL GOVERNMENT	FINK, MAYOR TOM	MUNICIPALITY OF ANCHORAGE	P.O. BOX 196650	ANCHORAGE, AK 99519-6650	
LOCAL GOVERNMENT	MAYOR'S OFFICE,	MUNICIPALITY OF ANCHORAGE	P.O. BOX 196650	ANCHORAGE, AK 99519-6650	
MEDIA	ANCHORAGE DAILY NEWS,	ANCHORAGE DAILY NEWS	P.O. BOX 149001	ANCHORAGE, AK 99514-9001	
MEDIA	ANCHORAGE TIMES,	ANCHORAGE TIMES	P.O. BOX 40	ANCHORAGE, AK 99510-0040	907-263-9
MEDIA	KIMO-ABC,	KIMO-ABC	2700 E. TUDOR RD.	ANCHORAGE, AK 99507	
MEDIA	KSKA-FM,	KSKA-FM	4101 UNIVERSITY DRIVE	ANCHORAGE, AK 99508	
MEDIA	KTUU-NBC,	KTUU-NBC	BOX 102880	ANCHORAGE, AK 99507	
MEDIA	LYNN, NEWS DIRECTOR, PATRICK	KTVA-CBS	P.O. BOX 10-2200	ANCHORAGE, AK 99510	
MEDIA	FOSTER, DAVID	ASSOCIATED PRESS	740 W. 2ND, SUITE 102	ANCHORAGE, AK 99501	
MEDIA	ALASKA COMMERCIAL FISHERMAN BIWEEKLY,	ALASKA COMMERCIAL FISHERMAN	3933 GENEVA PL.	ANCHORAGE, AK 99508	907-562-4
MEDIA	ANCHORAGE TIMES,	ANCHORAGE TIMES	BOX 40	ANCHORAGE, AK 99510-0040	
MEDIA	ASSOCIATED PRESS,	ASSOCIATED PRESS	750 W. SECOND AVE., SUITE 102	ANCHORAGE, AK 99501	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
MEDIA	REUTERS NEWS SERVICE,	REUTERS NEWS SERVICE	3001 WIDGEON LN. #8	ANCHORAGE, AK 99508	
MEDIA	UNITED PRESS INTERNATIONAL,	UNITED PRESS INTERNATIONAL	P.O. BOX 149001	ANCHORAGE, AK 99514-9001	
MEDIA	ALASKA TELEVISION NETWORK,	ALASKA TELEVISION NETWORK	2700 E. TUDOR ROAD	ANCHORAGE, AK 99507	
MEDIA	KAKM PUBLIC TV (7),	KAKM PUBLIC TV (7)	2677 PROVIDENCE DRIVE	ANCHORAGE, AK 99508	
MEDIA	ALASKA OUTDOORS,	ALASKA OUTDOORS	P.O. BOX 190324	ANCHORAGE, AK 99519	
NATIVE ORGANIZATION	TABIOS, EXECUTIVE DIRECTOR, DERENTY	NORTH PACIFIC RIM	3300 C STREET	ANCHORAGE, AK 99501	
NATIVE ORGANIZATION	COMBS, ESTER	COOK INLET TRIBAL COUNCIL, INC	670 FIREWEED LANE, SUITE 300	ANCHORAGE, AK 99503	
NATIVE ORGANIZATION	STANDFER, SR., PRESIDENT, DONALD	TYONEK NATIVE CORP	4433 LAKE OTIS PARKWAY	ANCHORAGE, AK 99507	
NATIVE ORGANIZATION	HUHDORF, PRESIDENT, ROY	COOK INLET REGION, INC	P.O. BOX 93330	ANCHORAGE, AK 99509-3330	
NATIVE ORGANIZATION	BLATCHFORD, CHAIRMAN, EDGAR	CHUGACH ALASKA CORP	3000 A STREET	ANCHORAGE, AK 99503	
NATIVE ORGANIZATION	PAGANO, PRESIDENT, FRANK	KONIAG, INC	4300 B STREET, SUITE 407	ANCHORAGE, AK 99503	
NATIVE ORGANIZATION	KENNEDY, EXECUTIVE DIRECTOR, JEANINE	RURAL ALASKA COMMUNITY ACTION PROGRAM	P.O. BOX 200908	ANCHORAGE, AK 99520	
NATIVE ORGANIZATION	KIMBALL, LARRY H.	ALASKA FEDERATION OF NATIVES	411 W. FOURTH AVE.	ANCHORAGE, AK 99501	
NATIVE ORGANIZATION	JOHNSON, JOHN	CHUGACH ALASKA CORP	3000 A STREET, SUITE 400	ANCHORAGE, AK 99503	
NATIVE ORGANIZATION	NORTH PACIFIC RIM,	NORTH PACIFIC RIM	3300 C STREET	ANCHORAGE, AK 99503	
NATIVE ORGANIZATION	NAGEL, PETE	CHUGACH ALASKA CORP	3000 A STREET	ANCHORAGE, AK 99503	
NATIVE ORGANIZATION	BUREAU OF INDIAN AFFAIRS,	BUREAU OF INDIAN AFFAIRS	1675 C STREET	ANCHORAGE, AK 99501	
NATIVE ORGANIZATION	RENSE, JOHN	NANA DEVELOPMENT CORP	4706 HARDING DRIVE	ANCHORAGE, AK 99503	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
NATIVE ORGANIZATION	TYONEK NATIVE CORP.,	TYONEK NATIVE CORP	200 W. 34TH AVE.	ANCHORAGE, AK 99503	907-563-0
NATIVE ORGANIZATION	NINILCHIK NATIVE ASSOCIATION,	NINILCHIK NATIVE ASSOC	121 W. FIREWEED LAND, SUITE 290	ANCHORAGE, AK 99639	907-277-2
NATIVE ORGANIZATION	VINING, LEN	NORTH PACIFIC RIM	611 E. 12TH AVE.	ANCHORAGE, AK 995501	
NATIVE ORGANIZATION	MCCALLUM, MARK	BIA/ANSCA	1675 C STREET	ANCHORAGE, AK 99501	
NATIVE ORGANIZATION	BROWN, AGNES	TYONEK NATIVE CORP	4433 LAKE OTIS PARKWAY	ANCHORAGE, AK 99507	
NATIVE ORGANIZATION	COOK INLET REGION, INC.,	COOK INLET REGION, INC	P.O. BOX DRAWER 4-N	ANCHORAGE, AK 99509	274-8638
NATIVE ORGANIZATION	DOTTER, WALTER R	BIA-ANCSA	1675 C STREET	ANCHORAGE, AK 99501	
NATIVE ORGANIZATION	KRIEG, THEODORE M.	BIA-ANSCA	1675 C STREET SUITE 235	ANCHORAGE, AK 99501	
NATIVE ORGANIZATION	ALASKA FEDERATION OF NATIVES,	ALASKA FEDERATION OF NATIVES	411 W. 4TH AVE., STE. 301	ANCHORAGE, AK 99501	
OIL INDUSTRY	HARTMAN, DON	TEXACO, INC	550 W. 7TH AVE., SUITE 1320	ANCHORAGE, AK 99501	
OIL INDUSTRY	SEARS, DAVID W.	ALASKA OIL AND GAS ASSOC	121 W. FIREWEED	ANCHORAGE, AK 99503	
OIL INDUSTRY	SANDS, E. E.	EXXON CO, USA	P.O. BOX 6601	ANCHORAGE, AK 99502	
OIL INDUSTRY	WOODARD, DANA	ALASKA OIL & GAS ASSOC	121 W. FIREWEED, STE 207	ANCHORAGE, AK 99503	
OIL INDUSTRY	BORAH, D.K.	SOHIO AK PETROLEUM CO	P.O. BOX 6612	ANCHORAGE, AK 99502	
OIL INDUSTRY	SCHINDLER, MARK	ARCO ALASKA INC	P.O. BOX 100360	ANCHORAGE, AK 99510	
OIL INDUSTRY	PREDEVILLE, DENNIS	ALYESKA PIPELINE SVC CO	1835 S. BRAGAW ST.	ANCHORAGE, AK 99512	
OIL INDUSTRY	WINKLER, CHERYL	AMOCO PRODUCTION CO	P.O. BOX 100779	ANCHORAGE, AK 99510	
OIL INDUSTRY	AMOCO PRODUCTION COMPANY,	AMOCO PRODUCTION COMPANY	P.O. BOX 100779	ANCHORAGE, AK 99510-0779	

05/26/90

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
OTHER FEDERAL OR STATE AGENCY	SUMNER, JIM	DIMOND HIGH SCHOOL	2909 W. 88TH	ANCHORAGE, AK 99502	
OTHER FEDERAL OR STATE AGENCY	CHUGACH NATIONAL FOREST,	CHUGACH NATIONAL FOREST	201 E. 9TH AVE., SUITE 206	ANCHORAGE, AK 99501	
OTHER FEDERAL OR STATE AGENCY	PIGNALBERI, MARY B.	ADC&ED/DIVISION OF TOURISM	3601 C STREET, SUITE 722	ANCHORAGE, AK 99503	
OTHER FEDERAL OR STATE AGENCY	KADOW, CHARITY	OFFICE OF THE GOVERNOR	3601 C STREET, #758	ANCHORAGE, AK 99503	
OTHER FEDERAL OR STATE AGENCY	BLM DISTRICT OFFICE,	BLM DISTRICT OFFICE	6881 ABBOTT LOOP RD.	ANCHORAGE, AK 99507	
OTHER FEDERAL OR STATE AGENCY	MILLER, BOB	AK TOURISM MARKETING COUNCIL	3601 C STREET, SUITE 722	ANCHORAGE, AK 99503	
OTHER FEDERAL OR STATE AGENCY	BERGMANN, PAMELA	US DEPT OF INTERIOR	1689 C ST., ROOM 119	ANCHORAGE, AK 99501-5126	
OTHER FEDERAL OR STATE AGENCY	TOMLIN, PHD, DON C.	US BUREAU OF INDIAN AFFAIRS	1675 C STREET	ANCHORAGE, AK 99501-5198	
OTHER FEDERAL OR STATE AGENCY	ROZEN, LIBRARIAN, CELIA	AK DEPT OF FISH & GAME, HAB DIV LIBRARY	333 RASPBERRY ROAD	ANCHORAGE, AK 99518-1595	
PRIVATE LAND INTEREST	REDTNEE, LESLIE	LAND OWNERS PWS	BOX 385, 6311 DEBARR RD.	ANCHORAGE, AK 99504	
PRIVATE LAND INTEREST	ELEMAR PROPERTIES, INC,	ELEMAR PROPERTIES, INC	P.O. BOX 203113	ANCHORAGE, AK 99520-3113	
PRIVATE LANDS INTEREST	MERRICK, MANAGER, JOHN	KONIAG, INC	4300 B STREET	ANCHORAGE, AK 99503	
RECREATION	GROH, CLIFF AND LUCY		1576 COFFEY LAND	ANCHORAGE, AK 99501	
RECREATION	JOHANNSEN, NEIL	DIVISION OF PARKS & OUTDOOR REC	P.O. BOX 107005	ANCHORAGE, AK 99510-7005	
RECREATION	BRODERICK, PHIL	WESTOURS	547 WEST FOURTH	ANCHORAGE, AK 99510	
RECREATION	MEINERS, AL	DIVISION OF PARKS & OUTDOOR REC	P.O. BOX 107005	ANCHORAGE, AK 99510-7005	
RECREATION	MINER, TODD	ALASKA WILDERNESS STUDIES	2533 PROVIDENCE	ANCHORAGE, AK 99508	
RECREATION	ZAFREN, KEN		6761 ROUNDTREE DRIVE	ANCHORAGE, AK 99516	

ANCHORAGE INTEREST GROUPS

INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
RECREATION	CATES, PAUL	ALASKA RIVER AND SKI TOURS	1831 KUSKOKWIN STREET	ANCHORAGE, AK 99508	
RECREATION	REDICK, R. RUSSEL	ALASKA SPORT FISHING ASSOC	1401 SHORELINE DRIVE	ANCHORAGE, AK 99515	
RECREATION	SEWARD YACHT CLUB,	SEWARD YACHT CLUB	P.O. BOX 4341	ANCHORAGE, AK 99509	
RECREATION	NAMTVEDT, THOMAS B.		3321 W 83RD AVE	ANCHORAGE, AK 99502	
RECREATION	NORDIC SKI CLUB,	NORDIC SKI CLUB	P.O. BOX 103504	ANCHORAGE, AK 99510	
RECREATION	KNIK CANOERS AND KAYAKERS, INC.	KNIK CANOERS AND KAYAKERS, INC	P.O. BOX 101935	ANCHORAGE, AK 99510	
RESOURCE DEVELOPMENT GROUP	MCVEE, CURTIS	ALASKA MINERS ASSOC, INC	501 W. NORTHERN LIGHTS BLVD	ANCHORAGE, AK 99508	
RESOURCE DEVELOPMENT GROUP	RESOURCE DEVELOPMENT COUNCIL,	RESOURCE DEVELOPMENT COUNCIL	BOX 100516	ANCHORAGE, AK 99510	
RESOURCE DEVELOPMENT GROUP	CHAPMAN, ED	PIONEER RESOURCE CORP	3939 WESTWOOD DR.	ANCHORAGE, AK 99503	
RESOURCE DEVELOPMENT GROUP	KREIG, R. A.	R.A. KREIG & ASSOC	1503 W. 33RD. AVE.	ANCHORAGE, AK 99503	
RESOURCE DEVELOPMENT GROUP	KENNEDY, ART	ALASKA RESOURCE ANALYSTS	P.O. BOX 200576	ANCHORAGE, AK 99520	
SCIENTIST	SELKREGG, DR. LIDIA L.	ALUC-LUAC	5811 RADCLIFF DRIVE	ANCHORAGE, AK 99504	
SCIENTIST	CHOON KIM, DR. JOHN	UAA, SCHOOL OF BUS & PUB	3210 PROVIDENCE DRIVE	ANCHORAGE, AK 99508	
SCIENTIST	ROCKWELL, JR., DR. JULIUS	SOCIETY FOR ECOLOGICAL RESTORATION	2944 EMORY ST.	ANCHORAGE, AK 99508-4466	907-277-7
SCIENTIST	MIKE, ARCO ALASKA INC., JOYCE	SOCIETY FOR ECOLOGICAL RESTORATION	P.O. BOX 100360, ATO 1992	ANCHORAGE, AK 99508-3201	
SCIENTIST	DOWL ENGINEERS,	DOWL ENGINEERS	4040 B STREET	ANCHORAGE, AK 99503	
SCIENTIST	IRVINE, DR. GAIL	MINERALS MANAGEMENT SERVICE, EA	949 E. 36TH AVE, RM 110	ANCHORAGE, AK 99508-4302	
SEAFOOD PROCESSOR/SUPPLIER	TENTH & M SEAFOODS,	TENTH & M SEAFOODS	1020 M STREET	ANCHORAGE, AK 99501	

ANCHORAGE INTEREST GROUPS

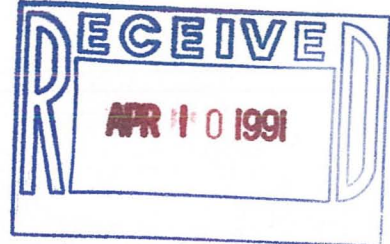
INTEREST GROUPS	NAME	AFFILIATION	ADDRESS	CITY AND STATE	PHONE NO.
SEAFOOD PROCESSOR/SUPPLIER	ALASKA JOINT VENTURE SEAFOODS, INC.	ALASKA JOINT VENTURE SEAFOODS, INC	2550 DENALI, SUITE 1406	ANCHORAGE, AK 99503	
SEAFOOD PROCESSOR/SUPPLIER	ALASKAN GOURMET, INC.	ALASKAN GOURMET, INC	P.O. BOX 190733, 1020 W. INTER AIRPORT	ANCHORAGE, AK 99519-0733	
SEAFOOD PROCESSOR/SUPPLIER	ANPAC, INC.	ANPAC, INC	P.O. BOX 92520, 1304 LAONA CIRCLE	ANCHORAGE, AK 99520	
SEAFOOD PROCESSOR/SUPPLIER	PRIME ALASKA SEAFOODS.	PRIME ALASKA SEAFOODS	6135 MIKE STREET	ANCHORAGE, AK 99518	
SOCIAL/HUMAN SERVICES	MCNABB, STEVEN L	SOCIAL RESEARCH INSTITUTE	6133 KENSINGTON DRIVE	ANCHORAGE, AK 99504	
SUBSISTENCE	STRATTON, LEE	ADFG/SUBSISTENCE DIVISION	333 RASPBERRY RD.	ANCHORAGE, AK 99502	
SUBSISTENCE	RURAL CAP.	RURAL CAP	P.O. BOX 200908	ANCHORAGE, AK 99520	
TOURISM	ALASKA VISITOR'S ASSOCIATION.	ALASKA VISITOR'S ASSOC	501 W. NORTHERN LIGHTS BLVD, #201	ANCHORAGE, AK 99503	
TOURISM	PHILIPS, BRAD	PHILIPS CRUISES & TOURS	P.O. BOX 100034	ANCHORAGE, AK 99510-0034	
TOURISM	ANCHORAGE CHAMBER OF COMMERCE.	ANCHORAGE CHAMBER OF COMMERCE	415 F STREET	ANCHORAGE, AK 99501	
UNIVERSITY	UNIVERSITY OF ALASKA ANCHORAGE, DEPT. OF ANTH.	UNIVERSITY OF ALASKA ANCHORAGE	3221 PROVIDENCE DRIVE	ANCHORAGE, AK 99508	
UNIVERSITY	LANGDON, STEVE	UNIVERSITY OF ALASKA ANCHORAGE	3211 PROVIDENCE DRIVE	ANCHORAGE, AK 99508	

The Nature Conservancy
of Alaska

PPWG
I

April 10, 1991

Mr. Stanley R. Senner
Alaska Department of Fish and Game
Oil Spill Restoration Planning Office
437 E Street, Suite 301
Anchorage, Alaska 99501



Dear Stan:

The Draft 1991 Restoration Work Plan published in the Federal Register on March 1, 1991 contains a provision regarding identification and protection of strategic fish and wildlife upland habitats. You have stated that the federal and state trustees (Trustees) may be interested in advice on effective identification and protection options. Based upon this possible interest you have requested an informal proposal regarding the preparation of such advice by The Nature Conservancy.

As envisioned, the end product will provide a menu of identification and protection tools available to the Trustees and recommendations on which are the most appropriate. Specific attention will be given to native corporation ownership, public ownership and management status, and legal considerations peculiar to Alaska. The end product will also describe the procedural, staffing, and technical requirements associated with the identification and protection tools addressed in the report.

Given that the Conservancy's daily business is identification, protection and long term management of significant ecological resources, we are uniquely qualified to produce the above product in a timely manner and will welcome the opportunity to do so.

Without the benefit of a specific request for proposal to respond to, it is estimated that the end product will take sixty days to complete at a cost of approximately \$20,000. The estimated cost includes a product review meeting to be attended by leading Conservancy authorities on identification and protection matters.

If we can be of any other assistance please do not hesitate to call.

Sincerely,

Stephen C. Planchon
Lands Program Director

RPWG
I

COPY

MEMORANDUM

STATE OF ALASKA
Department of Fish and Game

To: Stan Senner
Restoration Program
Manager

Date: April 25, 1991

File No:

Thru: Mike Dean

Telephone No: 465-4125

From: Peg Kehrer
Graduate Intern
OSIAR Division



Subject: RFP on Strategic
Habitat Project

Mike shared with me the FAX you sent in which the RPWG proposes contracting with a non-governmental organization (possibly The Nature Conservancy) for its expertise on the "techniques and tools" questions raised by the Strategic Habitat project. You make convincing arguments about why the insights of an organization outside of government could be especially valuable to a process the public views with skepticism. But you stop short of using this opportunity to get outside ideas on my favorite "problem area" for government - how to structure public participation.

I realize that public participation is part of the step-by-step process described in item number one of the scope of work in the RFP, but I fear that by not making it a specific task you may not get the detailed suggestions on public involvement that will be needed. It will probably be much easier to describe the steps involved in some objective technique like mapping than to propose the steps for a public process in restoration planning. I think Assistant Attorney General Stewart made a significant statement about what type of process is imagined when in testimony last week he promised the House EVOS Settlement Committee that public participation in decisions around the restoration program would be an "iterative process".

I recommend adding to the scope of work something like: "Recommend specific education, decisionmaking, and dispute resolution techniques which could be used to involve the public in the process of implementing the strategic habitat project." A separate RFP addressing only the public process could be done, but may lose the integration with the more scientific and technical parts of this process.

MEMORANDUM

STATE OF ALASKA
Department of Fish and Game

COPY

To: Peg Kehrer
Graduate Intern
OSIAR Division

Date: 7 May 1991

File No:

Telephone No: 271-2461

From: Stan Senner *Stan*
Restoration Program Mgr.
OSIAR Division

Subject: Habitat Project
and Public
Participation

For sake of the record, I wanted to follow up our conversation yesterday about including a public participation component in the scope of work for the proposed Strategic Habitat tools and techniques project.

It is a reasonable suggestion, but I think it is not the way to go. My reasons are:

- the question of public participation is larger than the habitat project. It should be a concern of the entire restoration/NRDA program, and it should be addressed in that larger context, rather than more narrowly limited to the habitat project.
- public participation is not the forte of The Nature Conservancy (or other NGOs with similar expertise), and they would probably have to subcontract to fulfill that component of a scope of work. I think this would not be cost-effective.

In the end, the Trustee agencies have to wrestle with this in a programmatic way or it will continue to cost us, as I am convinced that it just did--i.e., the unfavorable public response to the proposed settlement.

Thanks for your suggestion. I have shared your memorandum with the other RPWG members and will see if anyone disagrees with me.

cc: Michael R. Dean
RPWG

PRWG
I



**Opportunities
for
Habitat Protection/Acquisition**

Prepared by:
Exxon Valdez Oil Spill Restoration Team
Habitat Protection Work Group
February 16, 1993

Table of Contents

Opportunities for Habitat Protection / Acquisition

February 16, 1993

1

Background
Summary of Public Comment
Interim Threshold Criteria
Plan Alternatives
Summary of Interim
Protection Process

2

Evaluation Procedures
Interim Evaluation & Ranking
Criteria
Benefit Rating Criteria

3

Parcel Summaries
Overview
Prince William Sound (PWS)
Cook Inlet Kenai (CIK)
Kodiak, AK Peninsula (KAP)

4

Options
Protection Tools
Sample Agreement
Right of 1st Refusal

5

Appendix
TNC Workshop
Executive Summary
Participants
Additional Resources
References

SECTION 1

**SUMMARY OF PUBLIC COMMENTS ON RESTORATION FRAMEWORK SUPPLEMENT:
HABITAT PROTECTION AND ACQUISITION PROCESS**

COMMENTER	PREFERRED HABITAT PROTECTION STRATEGY		PREFERRED THRESHOLD CRITERIA			OTHER COMMENTS
	CONCUR.	HIER.	A	B	C	
Natural Resources Defense Council	X		X			Evaluation process too long and cumbersome. Step #2, natural recovery could be used as an excuse to avoid protecting habitat. Step #5 puts Trustees in awkward position of ruling that regulations are inadequate. Step #14 needs to list other criteria that will be used. Step #20, non-acquisition tools seem ineffective. Broaden imminent threat process to include opportunities to purchase habitat in addition to imminently threatened lands. Drop recreation from step # 7, threat analysis.
Nancy Hillstrand	No comment	No comment	No comment	No comment	No comment	Acquisition should be priority, particularly Afognak Island. Revitalize Forest Practices Regulations to minimize ecosystem injury and fragmentation. Resource agency mismanagement can be more destructive than oil spill. Renovate resource agency mandates. Monitoring should encompass widespread health of ecosystem.
Sierra Club / Alaska Center for the Environment	X		X			Hierarchical approach is completely unacceptable and unjustifiable. Proposed process is too complex and cumbersome. Step #2 should be deleted. Step #5 puts an unnecessary hurdle in path of restoration. Step #6 should provide for permanent protection, not just until resource recovers. Step #9 delete, "that are not adequately recovering". Asking price should be considered at time of applying threshold criteria; ranking acquisitions during step #s 14 & 15 will drive up asking price. Support imminent threat process but delete step #2.
The Nature Conservancy of Alaska	X		X			"Best professional judgement" must be a key component of the decision making process. Land owner should not have to create "imminent threat" in order to have their property seriously considered; strategically important, but unthreatened parcels should be given full consideration.

**SUMMARY OF PUBLIC COMMENTS ON RESTORATION FRAMEWORK SUPPLEMENT:
HABITAT PROTECTION AND ACQUISITION PROCESS**

COMMENTER	PREFERRED HABITAT PROTECTION STRATEGY		PREFERRED THRESHOLD CRITERIA			OTHER COMMENTS
	CONCUR.	HIER.	A	B	C	
The Wilderness Society	X		X			Support imminent threat protection process. Habitat acquisition is the most meaningful form of restoration. "Adequate" rate and degree of recovery and "no further action" decisions on flow charts should incorporate provision for change if monitoring detects latent injury. Set C, criteria #4 (inadequate protection afforded by existing laws and regulations) is unrealistic and is a political rather than biological determination. Contingent Valuation studies should be made available and considered in Sets A and B. Add additional criteria: The degree to which the proposed action minimizes further impact on an injured resource and service.
National Parks (on behalf of National Parks and Conservation Association)	X		X			Scientific information inadequate to draw precise conclusions about effectiveness of management strategies; habitat protection is best means of protecting natural and cultural resources. Process described in Supplement document is confusing. Cost effectiveness is an inappropriate criteria for assessing habitat and ecosystem values; cost benefit analysis may be better. Document should be rewritten for clarity; all studies should be released to public; same stringent process and standards for habitat acquisition should be applied to other restoration options.
Knik Canoers and Kayakers	No comment	No comment		X		Set A is too broad, allowing for indirect linkage and no physical limits on spill affected area. Set C are too narrow, not enough room for Trustee Council to judge selections, too time consuming. Set B limits number of actions but allows for flexibility and timely decisions.
Homer Society of Natural History	No comment	No comment	No comment	No comment	No comment	Supports state purchase of Seldovia Native Association lands, timber, and mineral rights in Kachemak Bay State Park.
Wayne Ash	No comment	No comment			X	Federal Exchange Process on page 41 should include a step for preparing an Environmental Assessment; opposes Set A.
Alaska Survival	No comment	No comment	No comment	No comment	No comment	Supplement document is too complex for general public to understand. Acquisition process taking too much time; no more talk - start using funds to buy land. Settlement monies are being wasted on bureaucrats, consultants, and scientists.

**SUMMARY OF PUBLIC COMMENTS ON RESTORATION FRAMEWORK SUPPLEMENT:
HABITAT PROTECTION AND ACQUISITION PROCESS**

COMMENTER		PREFERRED HABITAT PROTECTION STRATEGY		PREFERRED THRESHOLD CRITERIA			OTHER COMMENTS
		CONCUR.	HIER.	A	B	C	
John Grimes		No comment	No comment	No comment	No comment	No comment	Should include an alternative for public taking; imminent domain for unwilling sellers. An advantage of this method is that land owner doesn't have to pay taxes on imminent domain sales. Recommends that Kachemak Bay State Park inholdings be acquired by this method.
Kodiak Island Borough		X		X			The proposed process is complex and bureaucratic with a clear bias against land acquisition; substitute a simpler process. Process favors staff input over public input; example, public nominations (step #10) does not occur until well into the process.
Kodiak Environmental Network		X		X			
Kodiak Audubon		X		X			
Eric Meyers		No comment	No comment	X			Opposes Set C; too burdensome, would frustrate restoration goals.
Kristin Stall-Johnson		X		No comment	No comment	No comment	Supports use of Figure #7.
TOTALS	16	9	0	9	1	1	

See figures 1, 2, 6 & 7 in Restoration Framework Supplement

Interim Threshold Criteria *

1. There is a willing seller of the parcel or property right.
2. The parcel contains key habitats that are linked to, replace, provide the equivalent of, or substitute for injured resources or services based on scientific data or other relevant information.
3. The seller acknowledges that the government cannot purchase the parcel or property rights in excess of fair market value.
4. Recovery of the injured resource or service would benefit from protection in addition to that provided by the owner and applicable laws and regulations.
5. The acquired property rights can reasonably be incorporated into public land management systems.

*Approved by the Trustee Council at their January 19, 1993 meeting.

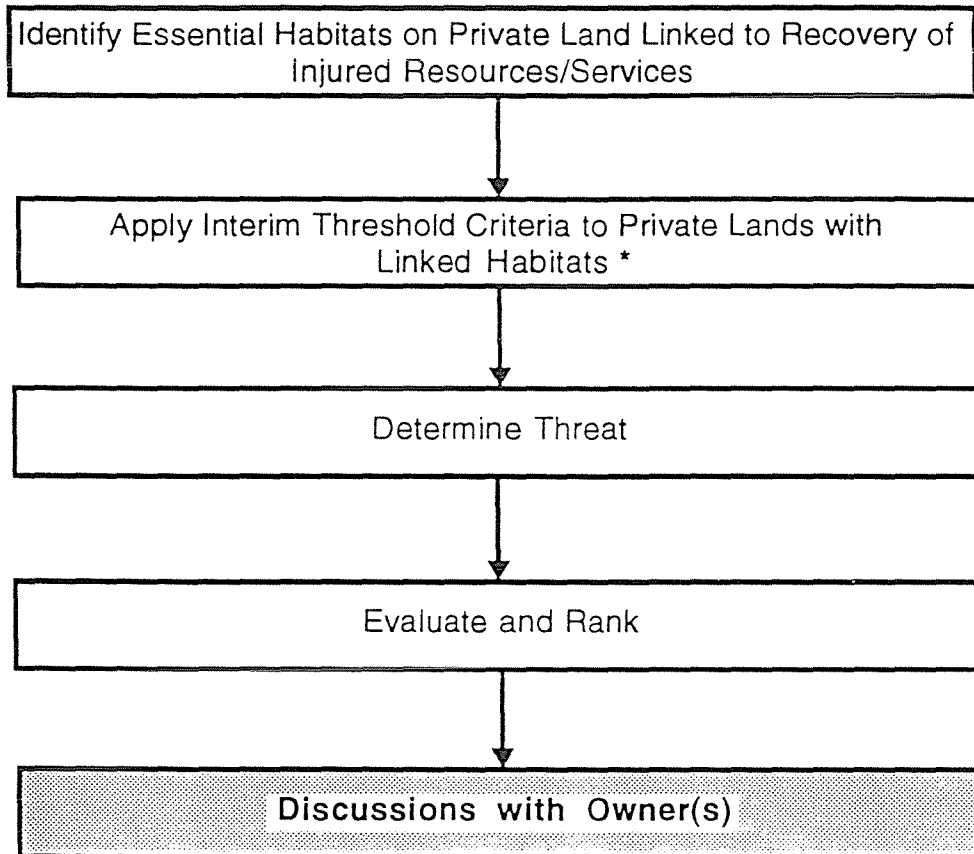
	Alternative 1 Natural Recovery	Alternative 2 Protection	Alternative 3 Limited Restoration	Alternative 4 Moderate Restoration	Alternative 5 Comprehensive Restoration
THEME	No action other than monitoring and normal agency management.	Protect injured resources and services from further degradation or disturbance.	Take the most effective actions to protect and restore injured services and resources whose population has declined. Maintain the existing character of the affected area.	Take the most effective actions to protect and restore all injured resources and services. Increase, to a limited extent, opportunities for human use in the affected area.	Take all reasonable actions to protect, restore, and enhance all injured resources and services. Increase opportunities for human use in the affected area.
VARIABLES					
Injury	N/A	All injured resources.	Injured resources whose populations declined.	All injured resources.	All injured resources.
Status of Recovery	N/A	All stages of recovery.	Resources not yet recovered.	Resources not yet recovered.	All stages of recovery.
Effectiveness of Restoration Actions	N/A	All beneficial actions.	Most effective actions.	Most effective actions.	All beneficial actions.
Opportunities for Human Use	N/A	N/A	Protect existing uses.	Protect or increase existing uses.	Protect or increase existing uses; or encourage appropriate new uses.

Monitoring and information programs are included in all alternatives.
Restoration actions may be undertaken for injured resources, services, or their equivalents.

Table 2. Summary of Draft Restoration Plan Alternatives

DRAFT - 01/26/93

SUMMARY OF INTERIM PROTECTION PROCESS



Abstracted from Figures 1 & 2 of the Framework Supplement.

- * Criteria #1 and #3 cannot be applied until approval is received from the Trustee Council to obtain this information from landowners.

SECTION 2

Interim Evaluation/Ranking Criteria *

1. The parcel contains essential habitat(s)/sites for injured species or services. Essential habitats include feeding, reproductive, molting, roosting, and migration concentrations; essential sites include known or presumed high public use areas. Key factors for determining essential habitat/sites are:
 - a. population or number of animals or number of public users.
 - b. number of essential habitats/sites on parcel, and
 - c. quality of essential habitats/sites.
2. The parcel can function as an intact ecological unit or essential habitats on the parcel are linked to other elements/habitats in the greater ecosystem.
3. Adjacent land uses will not significantly degrade the ecological function of the essential habitat(s) intended for protection.
4. Protection of the habitats on parcel would benefit more than one injured species/service (unless protection of a single species/service would provide a high recovery benefit).
5. The parcel contains critical habitat for a depleted, rare, threatened, or endangered species.
6. Essential habitat/sites on parcel are vulnerable or potentially threatened by human activity.
7. Management of adjacent lands is, or could easily be made compatible with protection of essential habitats on parcel.
8. The parcel is located within the oil spill affected area.

*Approved by the Trustee Council at their January 19, 1993 meeting.

CRITERIA FOR RATING BENEFIT OF PARCEL TO INJURED RESOURCES / SERVICES

INJURED RESOURCE / SERVICE	HIGH	MODERATE	LOW
Anadromous Fish	High density of anadromous streams per parcel; multiple injured species; and/or system known to have exceptional productivity.	Average density of anadromous streams for area; two or more injured species present.	Few or no streams on parcel; one or less injured species.
Bald Eagle	High density of nests on parcel; and/or known critical feeding area.	Average density of nests on or immediately adjacent to parcel (at least one); important feeding area.	Few or no nests on parcel; may be used for perching and/or feeding.
Black Oystercatcher	Area known to support nesting or concentration area for feeding.	Possible nesting; known feeding area.	Probable feeding.
Common Murre	Known nesting on or immediately adjacent to parcel.	Nesting in vicinity of parcel; known feeding concentration adjacent to parcel.	Possible feeding in area adjacent to parcel.
Harbor Seal	Known haul out on or immediately adjacent to parcel.	Probable haul outs in vicinity of parcel; probable feeding in nearshore waters adjacent to parcel.	Probable feeding in nearshore waters.
Harlequin Duck	Known nesting or molting on parcel; feeding concentration area.	Probable nesting on or adjacent to parcel; probable feeding in stream, estuary, or intertidal adjacent to parcel.	Probable feeding and loafing in area adjacent to parcel.

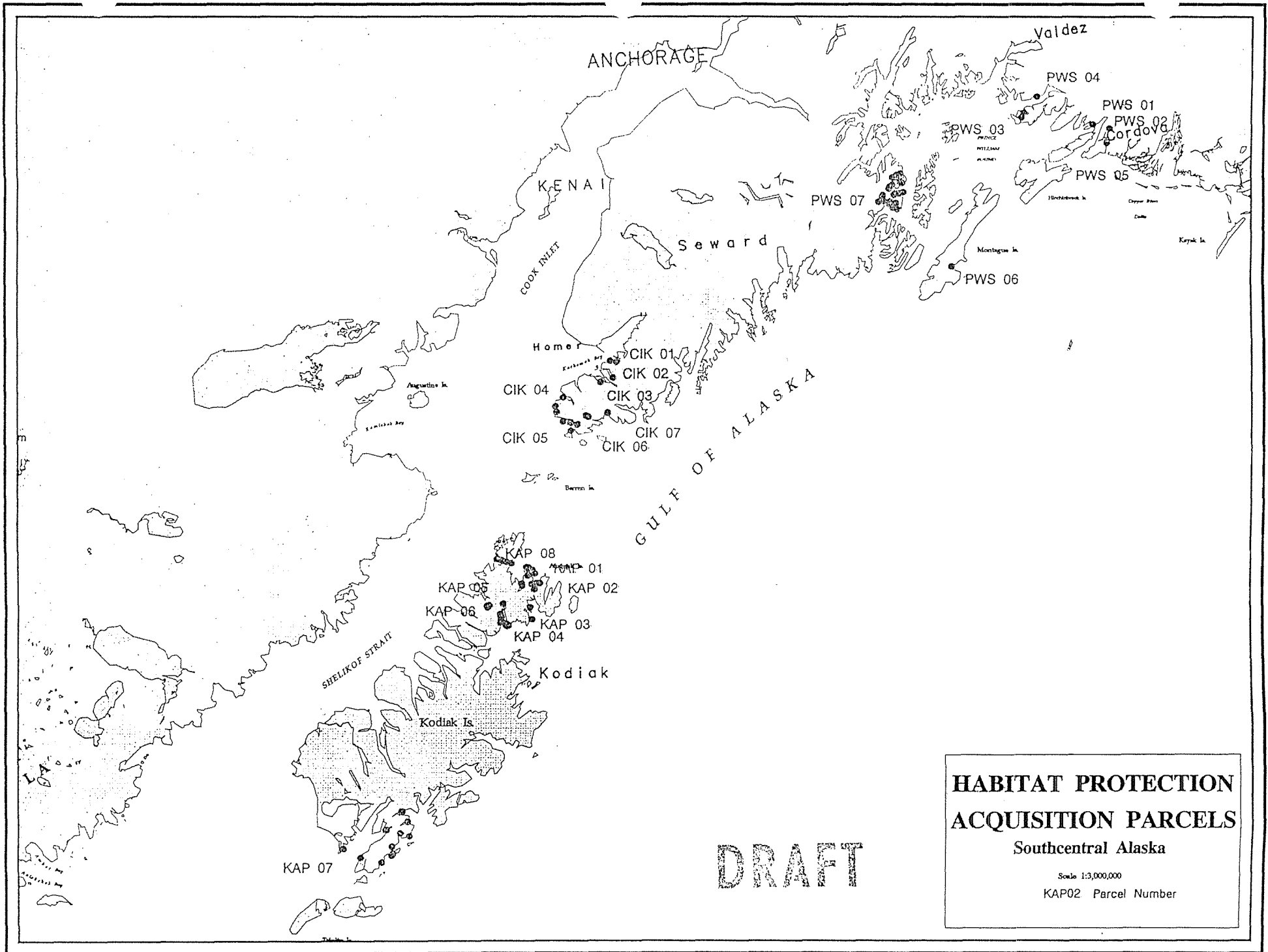
CRITERIA FOR RATING BENEFIT OF PARCEL TO INJURED RESOURCES / SERVICES

INJURED RESOURCE / SERVICE	HIGH	MODERATE	LOW
Intertidal/subtidal Biota	Known high productivity/species richness. Oiled or adjacent to oiled area where recruitment may be important.	High productivity/species richness; not oiled or near oiled area.	Average productivity/species richness; no documented shoreline oiling.
Marbled Murrelet	Known nesting or high confidence that nesting occurs; concentrated feeding in nearshore waters.	Good nesting habitat characteristics; known feeding in nearshore waters adjacent to parcel.	Low likelihood of nesting; possible feeding in nearshore waters.
Pigeon Guillemot	Known nesting on or immediately adjacent to parcel; feeding concentrations in nearshore waters.	Good nesting habitat characteristic; known feeding in nearshore waters adjacent to parcel.	Low likelihood of nesting; possible feeding in nearshore waters.
River Otter	Known high use of parcel for denning/latrine sites.	Known or probable latrine and/or denning sites; known feeding in adjacent intertidal/streams/nearshore area.	Probable feeding in adjacent intertidal/streams.
Sea Otter	Known haulout or pupping concentrations.	Concentration area for feeding and/or shelter; potential pupping.	Feeding in adjacent waters.

CRITERIA FOR RATING BENEFIT OF PARCEL TO INJURED RESOURCES / SERVICES

INJURED RESOURCE / SERVICE	HIGH	MODERATE	LOW
Recreation/Tourism	Receives high public use; highly visible to a large number of recreationists/tourists; area nominated for special recreational designation.	Accessible by road, boat, or plane; adjacent area used for recreational boating; adjacent area receives high public use.	Occasional recreational use; access may be difficult.
Wilderness	Area remote; little or no evidence of human development.	Area remote; evidence of human development.	Area accessible; high/moderate evidence of human development (roads, clearcuts, cabins).
Cultural Resources	Documented concentration or significant cultural resources/sites on parcel.	Evidence of cultural resources/sites on or adjacent to parcel.	Possible cultural resources/sites on parcel.
Subsistence	Known resource harvest area; multiple resource use.	Known harvest area for at least one resource.	Possible harvest area.

SECTION 3



PARCEL RANKING ANALYSIS

PARCEL		1RANKING CRITERIA								SCORE ²
#	NAME	1	2	3	4	5	6	7	8	
PWS 01	Orca Narrows	0-H, 6-M	Y	N	Y	N	Y	N	Y	12
PWS 02	Power Creek	4-H, 0-M	Y	Y	Y	N	Y	Y	Y	24
PWS 03	Two Moon Bay	1-H, 5-M	Y	N	Y	N	Y	N	Y	14
PWS 04	Fish Bay	1-H, 7-M	Y	Y	Y	N	Y	Y	Y	27
PWS 05	Eyak River	1-H, 3-M	N	N	N	N	Y	N	Y	5
PWS 06	Patton Bay	1-H, 4-M	Y	Y	Y	N	Y	Y	Y	18
PWS 07*	Chenega	6-H, 8-M	Y	Y	Y	N	Y	Y	Y	60
CIK 01	China Poot	4-H, 7-M	Y	Y	Y	N	Y	Y	Y	45
CIK 02	Sadie Cove	0-H, 3-M	Y	N	Y	N	Y	Y	Y	7.5
CIK 03	Jakalof Bay	0-H, 3-M	Y	N	Y	N	Y	N	Y	6
CIK 04	Port Graham	1-H, 2-M	Y	N	Y	N	Y	N	Y	8
CIK 05	Lower Kenai Peninsula	0-H, 9-M	Y	Y	Y	N	Y	N	Y	22.5
CIK 06	Windy Bay	0-H, 0-M	N	N	N	N	Y	N	Y	0
CIK 07	Rocky Bay	0-H, 2-M	N	N	Y	N	Y	N	Y	3
KAP 01	Seal Bay	2-H, 11-M	Y	N	Y	N	Y	N	Y	30
KAP 02	Pauls Lake	0-H, 4-M	N	N	Y	N	Y	N	Y	6

PARCEL RANKING ANALYSIS

PARCEL		RANKING CRITERIA								
#	NAME	1	2	3	4	5	6	7	8	SCORE ²
KAP 03	Izhut Bay	1-II, 3-M	Y	N	Y	N	Y	N	Y	10
KAP 04	Kazakof Bay	0-II, 5-M	Y	N	Y	N	Y	N	Y	10
KAP 05	Danger Creek	0-II, 1-M	N	N	N	N	Y	N	Y	1
KAP 06	Paramanof Creek	0-II, 1-M	N	N	N	N	Y	N	Y	1
KAP 07*	Alitak Bay	3-II, 4-M	Y	Y	Y	N	Y	Y	Y	30
KAP 08*	Shuyak Strait	3-II, 10-M	Y	Y	Y	N	Y	Y	Y	48

* = Opportunity Parcel

1. Refer to Interim Evaluation and Ranking Criteria.

Criteria 2 - 8

N = No (does not meet criteria)

Y = Yes (does meet criteria)

Criteria 1 from table: "Criteria for Rating Benefit of Parcel to Injured Resources/Services"

H = High Benefit

M = Moderate Benefit

L = Low Benefit (not included in this analysis)

2. Scoring Formula: Parcel Score = (Sum of H + (0.5 x Sum of M)) x Sum of Y

Example: KAP 08 Score = (3 + (0.5 x 10)) x 6 = (3 + 5) x 6 = 48

Note: Formula emphasizes degree of linkage to injured resource/service.

PARCEL RANKING AND ACREAGE SUMMARY

RANK	PARCEL #	NAME	ACREAGE	SCORE
<i>Imminent Threat Parcels</i>				
1	CIK 01	China Poot, Kachemak Bay	7,500	45
2	KAP 01	Seal Bay, Afognak I.	15,000	30
3	PWS 04	Fish Bay, Port Fidalgo	1,700	27
4	PWS 02	Power Creek, Cordova	1,300	24
5	CIK 05	Lower Kenai Peninsula	3,000	22.5
6	PWS 06	Patton Bay, Montague I.	3,300	18
7	PWS 03	Two Moon Bay, Port Fidalgo	2,100	14
8	PWS 01	Orca Narrows / Nelson Bay	3,500	12
9	KAP 03	Izhut Bay, Afognak I.	1,000	10
9	KAP 04	Kazakof Bay, Afognak I.	1,500	10
10	CIK 04	Port Graham Allotments	200	8
11	CIK 02	Sadie Cove, Kachemak Bay	400	7.5
12	CIK 03	Jakalof Bay, Kachemak Bay	600	6
12	KAP 02	Pauls Lake, Afognak I.	500	6
13	PWS 05	Eyak River, Cordova	100	5
14	CIK 07	Rocky Bay	100	3
15	KAP 05	Danger Creek, Afognak I.	120	1
15	KAP 06	Paramanof Cr., Afognak I.	500	1
16	CIK 06	Windy Bay	400	0
TOTAL IMMINENT THREAT ACRES			42,320	
<i>Opportunity Parcels</i>				
1	PWS 07	Chenega I./Eshamy/Jackpot	57,000	60
2	KAP 08	Shuyak Strait, Afognak I.	51,000	48
3	KAP 07	Alitak Bay, Kodiak I.	230,000	30
TOTAL OPPORTUNITY ACRES			338,000	
TOTAL ACRES ANALYZED			380,320	

Prince William Sound (PWS)












PWS 01, 02, 05

HABITAT PROTECTION ACQUISITION PARCELS

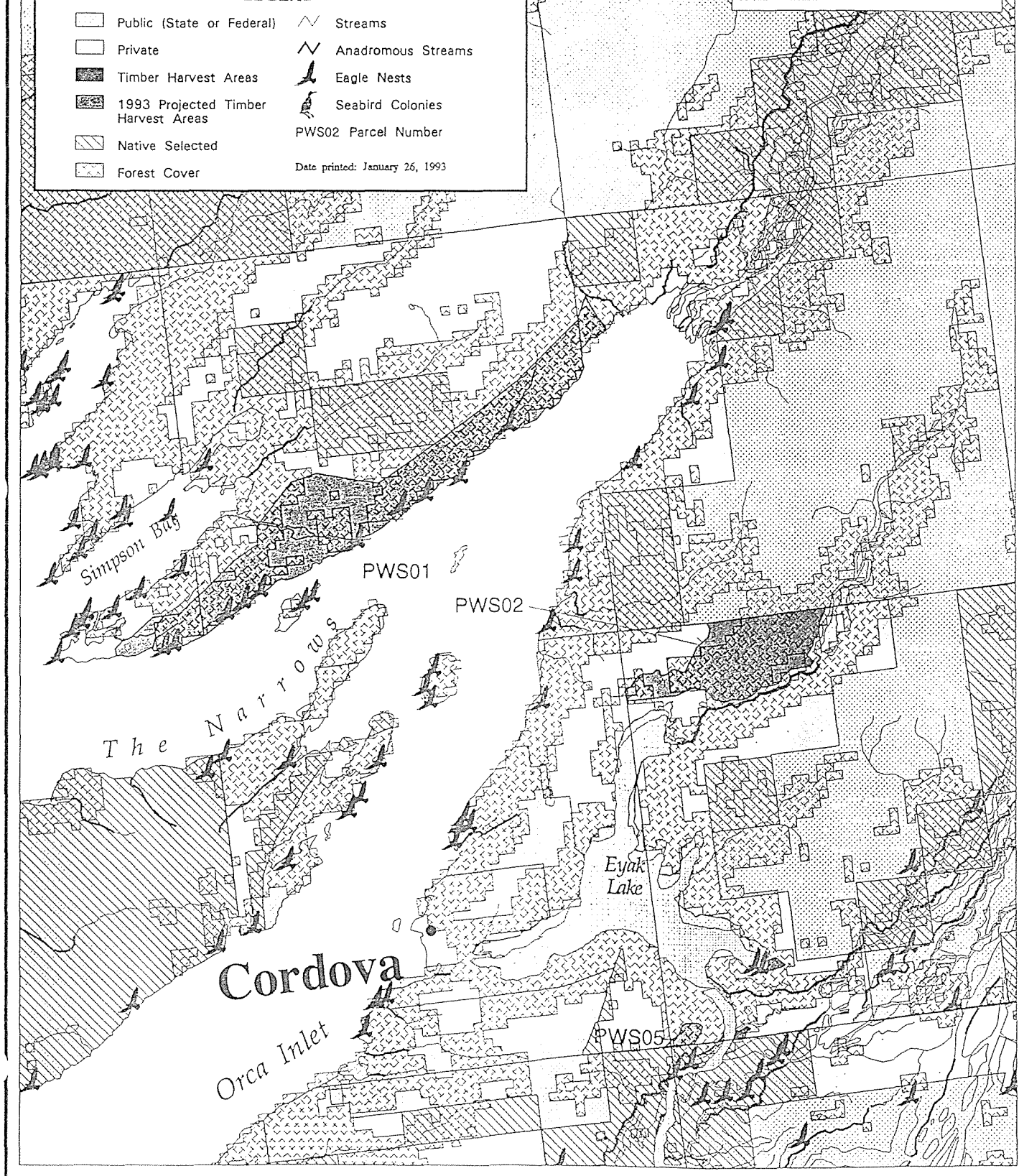
Cordova Vicinity, Alaska

Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|-------------------------------------|---|--------------------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected |  | PWS02 Parcel Number |
|  | Forest Cover | | Date printed: January 26, 1993 |

SOURCES:
Current and planned timber harvest information provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources, Division of Forestry, 1992.
Land status provided by the US Forest Service, 1992, and the ADNR, Land Records Information Section (LRIS), 1991.
Forest Cover data provided by US Geological Survey (USGS)/EROS Alaska Field Office, using LANDSAT MSS imagery resampled to a 200 meter grid.
Streams were automated by ADNR/LRS from the USGS topographic maps (1:83,300). Anadromous streams classification was determined by the ADF&G, 1991.
Eagle and Seabird information collected and provided by US Fish and Wildlife.



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 01		PARCEL NAME: Orca Narrows / Nelson Bay	
¹ LANDOWNER: Eyak Corporation		² PARCEL ACREAGE: 3,500	³ TOTAL ACREAGE: 66,000 ⁴ AFFECTED ACREAGE: 3,500
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	Two documented anadromous streams; pink, coho, cutthroat.	
Bald Eagle	Moderate	Ten documented nest sites.	
Black Oystercatcher	Low	Probable feeding in intertidal.	
Common Murre	None		
Harbor Seal	Low	Probable feeding in nearshore waters.	
Harlequin Duck	Unknown	Possible nesting on anadromous streams, feeding and loafing in intertidal area.	
Intertidal/subtidal biota	Low	Shoreline not oiled; potential for impact from log transfer, storage and sedimentation.	
Marbled Murrelet	Moderate	Habitat characteristics appear favorable for nesting. Feeding in adjacent marine waters.	
Pigeon Guillemot	Low	Possible nesting along shoreline. Feeding in adjacent marine waters.	
River Otter	Moderate	Probable feeding and latrine sites along shoreline: possible denning.	
Sea Otter	Low	Feeding along shoreline.	
Recreation/Tourism	Moderate	Milton Lake corridor and Hole-in-Wall nominated public recreation sites. Most recreation use out of Cordova. Highly visible along main ferry and boat route to Cordova.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 01	PARCEL NAME: Orca Narrows / Nelson Bay	
Wilderness	Moderate	Little visible evidence of human use.
Cultural Resources	Low	One archeological site documented on parcel.
Subsistence	Low	Use appears low.
<p>ECOLOGICAL SIGNIFICANCE: The Milton Lake corridor and the Hole-in-the-Wall area have been nominated for acquisition as public recreation sites. This parcel is highly visible along the main ferry and boat route.</p>		
<p>ADJACENT LAND MANAGEMENT: Eyak Corporation.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Forest practices notifications to initiate timber harvest on 700 acres have been filed by Sherstone. Additional timber harvest is proposed on Eyak lands adjacent to this area in subsequent years.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain water quality and riparian habitats for anadromous fish; 2) maintain nesting habitat for marbled murrelet; 3) maintain nesting and perching opportunities for bald eagle; 4) minimize visual impacts of timber harvest to marine corridor; 5) enhance recreational opportunities for the Milton Lake corridor.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; conservation easement; cooperative management agreement.</p>		
<p>RECOMMENDED ACTION: Request Eyak Corporation to provide interim protection; discuss options for long term protection.</p>		

1. Parties other than landowner may own partial rights (e.g., timber, minerals)
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 02		PARCEL NAME: Power Creek	
LANDOWNER: Eyak Corporation		PARCEL ACREAGE: 1,300	TOTAL ACREAGE: 66,400
		AFFECTED ACREAGE: 1,300	
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	High	Power Creek is designated anadromous stream; coho, sockeye, pink, cutthroat, Dolly Varden; supports significant recreational and commercial fishery.	
Bald Eagle	High	No documented nest sites. Highly important fall feeding for eagles along Power Creek and Eyak Lake shore (estimated up to one-third of PWS eagle population).	
Black Oystercatcher	None		
Common Murre	None		
Harbor Seal	None		
Harlequin Duck	Unknown	Potential nesting in upper Power Creek riparian zone.	
Intertidal/subtidal biota	None		
Marbled Murrelet	High	Habitat characteristics appear favorable; high confidence that nesting occurs on parcel.	
Pigeon Guillemot	None		
River Otter	Unknown	Probable feeding, possible denning in upper Power Creek.	
Sea Otter	None		

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 02	PARCEL NAME: Power Creek	
Recreation/Tourism	High	Receives high recreational use (hiking, fishing, berry picking); established trail easement through parcel; road accessible.
Wilderness	Low	High evidence of human use (road, houses) in lower area.
Cultural Resources	Low	One archeological site documented on parcel.
Subsistence	Unknown	Probable hunting, fishing, plant gathering, berry picking.
<p>ECOLOGICAL SIGNIFICANCE: Power Creek supports a large, late run of sockeye and coho salmon and is a fall and winter feeding area for bald eagles. Eyak Lake is the northernmost winter concentration area for trumpeter swan. Area receives high recreational and visitor use.</p>		
<p>ADJACENT LAND MANAGEMENT: Eyak Corporation; U.S. Forest Service.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Forest Practices Notifications have been filed for timber harvest on this parcel.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain water quality and riparian habitat for anadromous fish; minimize disturbance to bald eagles; and 3) maintain and enhance recreational opportunities.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; fee title; conservation easement; cooperative management agreement.</p>		
<p>RECOMMENDED ACTION: Request Eyak Corporation to provide interim protection; discuss options for long term protection.</p>		

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 05		PARCEL NAME: Eyak River	
¹ LANDOWNER: Eyak Corporation		² PARCEL ACREAGE: 100	³ TOTAL ACREAGE: 66,400
			⁴ AFFECTED ACREAGE: 100
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	Adjacent to Eyak River which is a highly productive anadromous stream; coho, sockeye, pinks, cutthroat, Dolly Varden.	
Bald Eagle	Moderate	No documented nesting sites on parcel. Eight nest sites adjacent. High use area for eagles: feeding and roosting.	
Black Oystercatcher	None		
Common Murre	None		
Harbor Seal	Low	Harbor seals may use Eyak River for feeding.	
Harlequin Duck	None		
Intertidal/subtidal biota	None		
Marbled Murrelet	Moderate	High confidence that nesting occurs on parcel; good nesting habitat characteristics.	
Pigeon Guillemot	None		
River Otter	Low	Probable feeding, possible den sites.	
Sea Otter	None		
Recreation/Tourism	High	Eyak River trail receives high recreational use. Site highly visible from Copper River Highway.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 05	PARCEL NAME: Eyak River	
Wilderness	None	High evidence of human use in area: road, houses.
Cultural Resources	Low	No evidence of archeological sites on parcel; two sites adjacent.
Subsistence	Low	Salmon, bears, plants, berry picking.
<p>ECOLOGICAL SIGNIFICANCE: The Eyak River is a highly productive anadromous fish stream; area receives intensive use by bald eagles for feeding and perching; Eyak River trail receives high recreational use; site is visible from the Copper River Highway.</p>		
<p>ADJACENT LAND MANAGEMENT: Eyak Corporation: Chugach National Forest:</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Forest Practices Notification filed for timber harvest in 1993.</p>		
<p>PROTECTION OBJECTIVE: 1) Minimize visual impacts to high use recreation/tourist areas; 2) maintain nesting opportunities for marbled murrelets; 3) maintain water quality and riparian habitat in Eyak River.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; conservation easement; cooperative management agreement.</p>		
<p>RECOMMENDED ACTION: Request Eyak Corporation to provide interim protection; discuss options for long term protection.</p>		

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.











PWS 03, 04

HABITAT PROTECTION ACQUISITION PARCELS

Port Fidalgo, Alaska

Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|-------------------------------------|---|--------------------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected | | PWS03 Parcel Number |
|  | Forest Cover | | Date printed: January 26, 1993 |

SOURCES:
Current and planned timber harvest information provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources, Division of Forestry, 1992.
Land status provided by the US Forest Service, 1992, and the ADNR, Land Records Information Section (LRIS), 1991.
Forest Cover data provided by US Geological Survey (USGS)/EROS Alaska Field Office, using LANDSAT MSS imagery resampled to a 200 meter grid.
Streams were automated by ADNR-LRIS from the USGS topographic maps (1:63,300). Anadromous stream classification was determined by the ADF&G, 1991.
Eagle and Seabird information collected and provided by US Fish and Wildlife.

Tatitlek

LANDLOCKED BAY

PWS04

Port Fidalgo

PWS03

TWO MOON BAY

Snug Corner Cove

Irish Cove

St. Matthews Bay

KNOWLES BAY

Port Gravina

DRAFT

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 03		PARCEL NAME: Two Moon Bay	
¹ LANDOWNER: Tatitlek Corporation		² PARCEL ACREAGE: 2,100	³ TOTAL ACREAGE: 72,800
			⁴ AFFECTED ACREAGE: 2,100
INJURED RESOURCE / SERVICE		POTENTIAL FOR BENEFIT	COMMENT
Anadromous Fish		Moderate	Eight documented anadromous streams; pink, coho, cutthroat, Dolly Varden.
Bald Eagle		Moderate	Five documented nest sites on parcel and two nest sites immediately adjacent. Area important for feeding.
Black Oystercatcher		Unknown	Probable feeding in intertidal.
Common Murre		None	
Harbor Seal		Low	Feeding in nearshore waters, probable hauling out on nearshore rocks.
Harlequin Duck		Unknown	Possible nesting in upper riparian zones on anadromous streams; feeding and loafing in intertidal.
Intertidal/subtidal biota		Moderate	Herring spawning on algae, productive intertidal zone, shoreline not oiled.
Marbled Murrelet		High	High confidence that nesting occurs on parcel; good nesting habitat characteristics; high use of adjacent marine waters for feeding.
Pigeon Guillemot		Low	Possible nesting along shoreline, feeding in nearshore marine waters.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 03	PARCEL NAME: Two Moon Bay	
River Otter	Moderate	River otter latrine and denning sites documented. Feeding along shoreline.
Sea Otter	Low	Sea otter concentrations in area.
Recreation/Tourism	Moderate	Snug Corner Cove and Two Moon Bay are important recreational boating anchorages; Hell's Hole is important recreational fishing site; visible from tour boat and ferry routes.
Wilderness	None	Extensive recent clearcuts in area; roads and logging camp in Two Moon Bay.
Cultural Resources	Low	One archeological site documented on parcel; one site adjacent.
Subsistence	Low	Herring, waterfowl, marine mammals, black bears.
<p>ECOLOGICAL SIGNIFICANCE: Snug Corner Cove has been nominated as a state recreation area; the surrounding waters provide important feeding habitat for marbled murrelet, high probability of marbled murrelet nesting on the parcel; sea otters concentrate in the surrounding waters; herring spawn in Two Moon Bay; important coho salmon sport fishery in adjacent Hell's Hole; river otter latrine and denning sites documented on parcel; high density of black bears.</p>		
<p>ADJACENT LAND MANAGEMENT: Tatitlek Corporation, Chugach National Forest</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Forest Practices Notifications have been filed for timber harvest on the is parcel; extension of ongoing timber harvest operations in this area.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain marbled murrelet nesting habitat; 2) maintain water quality and riparian habitat for anadromous fish; 3) minimize disturbance to bald eagles nesting and feeding; 4) maintain recreational values; 5) minimize disturbance to river otters; 6) minimize visual impacts to ferry route and other high use recreational/tourist areas.</p>		

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 03	PARCEL NAME: Two Moon Bay
USEFUL PROTECTION TOOL(S): Timber acquisition; conservation easement; cooperative management agreement.	
RECOMMENDED ACTION: Request Tatilek Corporation to provide interim protection; discuss options for long term protection.	

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

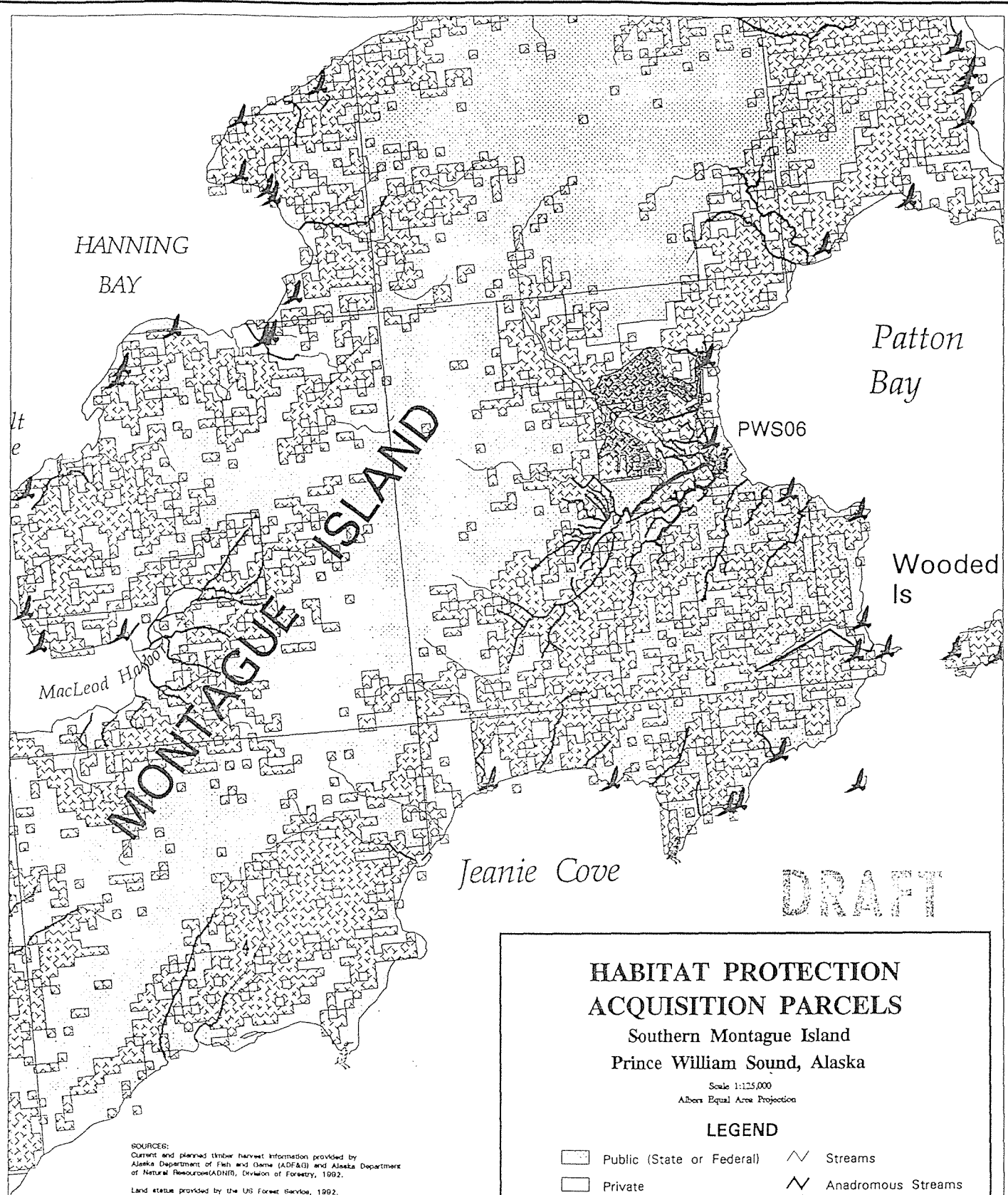
HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 04		PARCEL NAME: Fish Bay	
LANDOWNER: Chugach Alaska Corporation		² PARCEL ACREAGE: 1,700	³ TOTAL ACREAGE: 51,200
			⁴ AFFECTED ACREAGE: 1,700
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Low	No documented anadromous on parcel, adjacent to important anadromous stream at head of Fish Bay.	
Bald Eagle	Moderate	Eight documented nest sites.	
Black Oystercatcher	Low	Probable feeding along intertidal.	
Common Murre	None		
Harbor Seal	Moderate	Historic harbor seal haul out concentration area.	
Harlequin Duck	Moderate	Probable feeding, loafing, and molting in intertidal.	
Intertidal/subtidal biota	Moderate	Highly productive rocky intertidal. Herring spawning on algae.	
Marbled Murrelet	High	High confidence that nesting occurs on parcel: good nesting habitat characteristics; high use of adjacent marine waters for feeding.	
Pigeon Guillemot	Low	Possible nesting along shoreline; probable feeding in nearshore marine waters.	
River Otter	Low	Probable feeding and latrine sites along shoreline.	
Sea Otter	Low	Feeding along shoreline.	
Recreation/Tourism	Low	Occasional recreational boating, hunting for bear and goats, visible from Port Fidalgo.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 04	PARCEL NAME: Fish Bay	
Wilderness	Moderate	Remote, minimal evidence of human use.
Cultural Resources	Moderate	Two archeological sites documented on parcel.
Subsistence	Moderate	Herring, marine mammals, salmon, bears, goats, invertebrates.
<p>ECOLOGICAL SIGNIFICANCE: The parcel is a relatively steep, south facing timbered slope on Port Fidalgo; high potential use for marbled murrelet nesting; timber stands support overwintering mountain goats; highly visible to adjacent marine waters.</p>		
<p>ADJACENT LAND MANAGEMENT: Tatitlek Corporation; Chugach Alaska Corporation; Chugach National Forest</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Forest Practices Notifications have been filed for timber harvest; timber volume pledged to operate Seward lumber mill.</p>		
<p>PROTECTION OBJECTIVE: 1) Minimize visual impacts to high use recreation/tourist areas; 2) maintain nesting opportunities for marbled murrelets; 3) maintain water quality and riparian habitat for anadromous fish; and 4) minimize disturbance to nesting bald eagles.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; conservation easement; cooperative management agreement.</p>		
<p>RECOMMENDED ACTION: Request Chugach Alaska Corporation to provide interim protection; discuss options for long term protection.</p>		

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.













HABITAT PROTECTION ACQUISITION PARCELS

Southern Montague Island
Prince William Sound, Alaska

Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|-------------------------------------|---|--------------------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected | | PWS06 Parcel Number |
|  | Forest Cover | | Date printed: January 26, 1993 |

SOURCES:
Current and planned timber harvest information provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources (ADNR), Division of Forestry, 1992.
Land status provided by the US Forest Service, 1992.
Forest Cover data provided by US Geological Survey (USGS)/EROS Alaska Field Office, using LANDSAT TM3 imagery resampled to a 200 meter grid.
Streams were digitized by ADNR, Land Record Information Section from the USGS topographic maps (1:63,360). Anadromous streams classification was determined by the ADF&G, 1991.
Eagle and Seabird information collected and provided by US Fish and Wildlife Service.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 06		PARCEL NAME: Patton Bay	
LANDOWNER: Chugach Alaska Corporation		PARCEL ACREAGE: 3,300	TOTAL ACREAGE: 51,200
		AFFECTED ACREAGE: 3,300	
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	High	Approximately 45 documented anadromous streams; pink, coho, Dolly Varden	
Bald Eagle	Moderate	Two documented nest sites. High use for feeding on salmon and scavenging along beaches.	
Black Oystercatcher	Low	Feeding in intertidal.	
Common Murre	None		
Harbor Seal	Low	Feeding in Patton Bay and mouth of Nellie Martin River.	
Harlequin Duck	Unknown	Possible nesting in upper riparian zone on anadromous streams. Feeding and loafing in intertidal and along beaches.	
Intertidal/subtidal biota	Low	Sand beach, no documented oiling.	
Marbled Murrelet	Unknown	High energy coast probably limits feeding; characteristics appear suitable for nesting.	
Pigeon Guillemot	Low	High energy coast probably limits feeding; shoreline area adjacent to parcel does not appear to be suitable for nesting.	
River Otter	Moderate	Feeding and latrine sites throughout area; possible denning.	
Sea Otter	Low	Low use area.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 06	PARCEL NAME: Patton Bay	
Recreation/Tourism	Moderate	Popular recreational public use cabin on Nellie Martin River. Recreational hunting (deer, bear) and fishing (coho, Dolly Varden). One of the few remote recreational areas in PWS accessible to wheel planes.
Wilderness	Moderate	Three public use cabins; evidence of previous timber harvest; road access from MacLeod Harbor imminent.
Cultural Resources	Low	One archeological site documented on parcel.
Subsistence	Low	Access difficult.
<p>ECOLOGICAL SIGNIFICANCE: This parcel contains some of the most productive timber stands in Prince William Sound. Anadromous fish values are high, however remoteness of area limits recreational and commercial uses. Arctic tern colony (approx 200 birds) in Patton Bay adjacent to parcel.</p>		
<p>ADJACENT LAND MANAGEMENT: Chugach Alaska Corporation; Chugach National Forest; timber owned and managed by Koncor Forest Products.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Forest Practices Notifications have been filed for timber harvest on this parcel; Koncor plans to harvest all merchantable timber in this area over the next decade; timber haul road currently under construction from MacLeod Harbor to Patton Bay.</p>		
<p>PROTECTION OBJECTIVE: Maintain anadromous fish habitat including water quality and riparian values; maintain bald eagle nesting and perching habitat adjacent to streams and shore; maintain opportunities for marbled murrelet and harlequin duck nesting if found to be important; enhance recreational opportunities.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; conservation easement; cooperative management agreement.</p>		
<p>RECOMMENDED ACTION: Request Chugach Alaska Corporation and Koncor to provide interim protection; evaluate parcel for marbled murrelet and harlequin duck habitat; discuss options for long term protection.</p>		

HABITAT PROTECTION PARCEL ANALYSIS










1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION ACQUISITION PARCELS

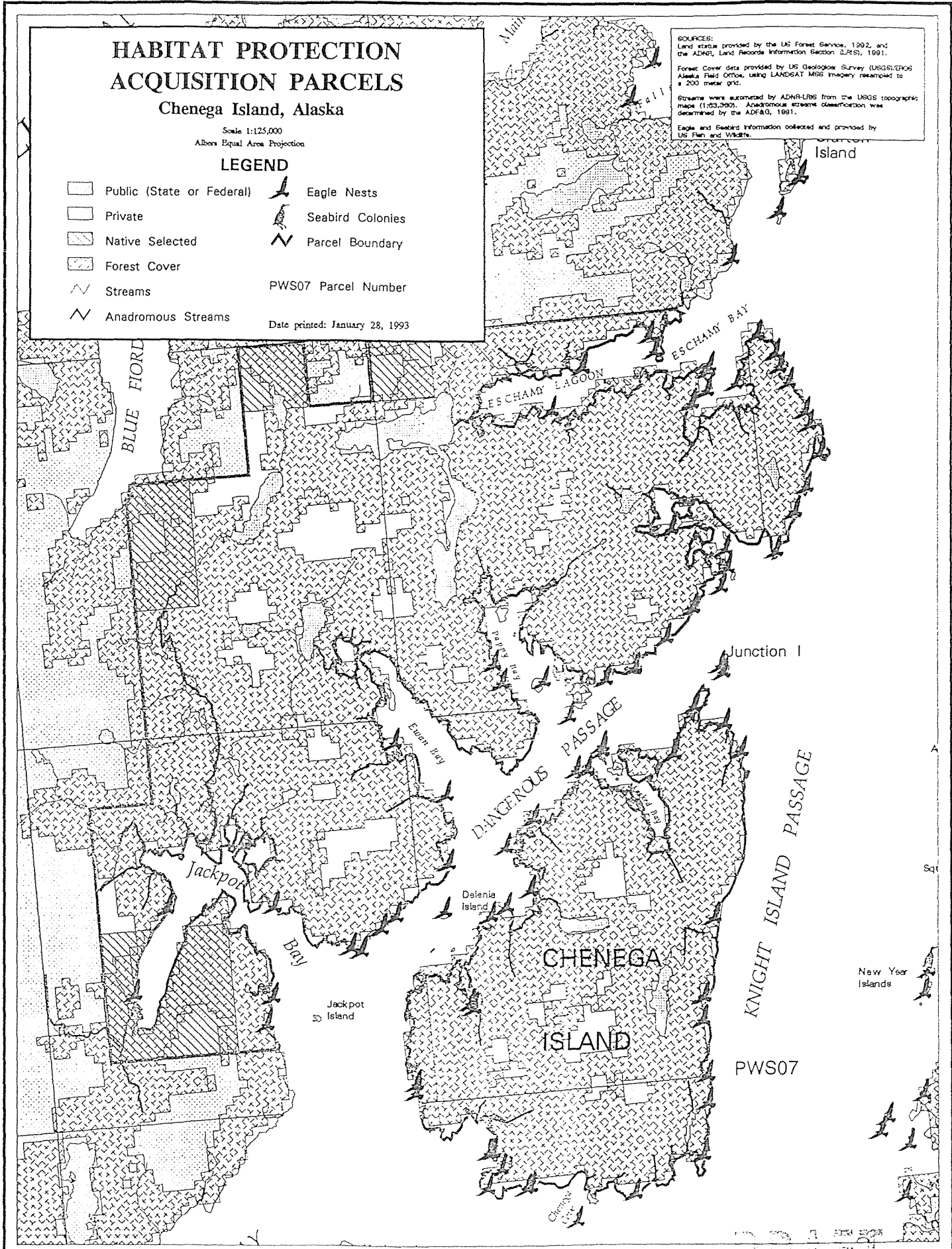
Chenega Island, Alaska

Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|---------------------------|---|--------------------------------|
|  | Public (State or Federal) |  | Eagle Nests |
|  | Private |  | Seabird Colonies |
|  | Native Selected |  | Parcel Boundary |
|  | Forest Cover | | PWS07 Parcel Number |
|  | Streams | | Date printed: January 28, 1993 |
|  | Anadromous Streams | | |

SOURCES:
Land status provided by the US Forest Service, 1992, and the ADNR, Land Records Information Section (LRIS), 1991.
Forest Cover data provided by US Geologic Survey (USGS/EROS Alaska Field Office, using LANDSAT MSS imagery resampled to a 200 meter grid.
Streams were automated by ADNR-LRIS from the USGS topographic maps (1:63,300). Anadromous stream classification was determined by the ADNR, 1991.
Eagle and Seabird information collected and provided by US Fish and Wildlife.



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 07		PARCEL NAME: Chenega I./Eshamy/Jackpot	
¹ LANDOWNER: Chenega Corporation		² PARCEL ACREAGE: 57,000	³ TOTAL ACREAGE: 77,800
			⁴ AFFECTED ACREAGE: Unknown
INJURED RESOURCE / SERVICE POTENTIAL FOR BENEFIT COMMENT			
Anadromous Fish	High	Fifty eight documented anadromous streams; sockeye, pink, chum, coho, Dolly Varden, cutthroat. Eshamy and Jackpot lake systems have historically supported important commercial and recreational fisheries.	
Bald Eagle	High	Seventy three documented nest sites. Feeding concentrations in Ewan and Paddy bays.	
Black Oystercatcher	Moderate	Probable nesting and feeding concentrations along shoreline and nearshore rocks in Dangerous Passage.	
Common Murre	None		
Harbor Seal	Moderate	Probable feeding in nearshore waters, probable haul outs on rocks in Dangerous Passage.	
Harlequin Duck	Moderate	Probable nesting in upper riparian zone on anadromous streams; feeding, molting, and loafing in intertidal.	
Intertidal/subtidal biota	Moderate	Productive sheltered rocky intertidal, particularly on Chenega Island and along Dangerous Passage; portions of Eshamy and Chenega Island were oiled.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 07	PARCEL NAME: Chenega I./Eshamy/Jackpot	
Marbled Murrelet	Moderate	Feeding concentrations in adjacent marine waters, habitat characteristics appear favorable for nesting.
Pigeon Guillemot	Moderate	Feeding in adjacent marine waters; habitat characteristics appear favorable for nesting.
River Otter	High	Feeding along intertidal and adjacent nearshore waters; probable latrine and denning sites.
Sea Otter	Moderate	Concentration areas in Dangerous Passage, Granite, Ewan, and Paddy bays for feeding and shelter; probable pupping.
Recreation/Tourism	High	High value wilderness-based recreation area for sailing, kayaking, boating, fly-in fishing, hunting; Dangerous Passage and Knight Island Passage along ferry route; visible from tour boat routes along Knight Island passage.
Wilderness	High	Area mostly remote with minimal evidence of human disturbance.
Cultural Resources	Moderate	Twenty sites documented on parcel.
Subsistence	High	Known resource harvest area; salmon, black bear, harbor seals, waterfowl, other marine mammals, deer, marine invertebrates, plants.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: PWS 07	PARCEL NAME: Chenega I./Eshamy/Jackpot
<p>ECOLOGICAL SIGNIFICANCE: This parcel encompasses a relatively sheltered rocky shore containing numerous bays, coves, islets, and estuaries. Numerous anadromous streams occur throughout the area: high use by sea otters and bald eagles; Eshamy and Jackpot lakes systems are the focus of recreational fishing; Eshamy, Jackpot, Ewan, Paddy bays have been nominated as potential state recreation areas.</p>	
<p>ADJACENT LAND MANAGEMENT: Chugach National Forest, several private recreational cabin sites in Eshamy Bay</p>	
<p>IMMINENT THREAT/OPPORTUNITY: No known imminent threats; Chenega Corporation has expressed interest in habitat protection/acquisition.</p>	
<p>PROTECTION OBJECTIVE: Maintain anadromous fish habitat including water quality and riparian values; maintain bald eagle nesting and perching habitat; maintain opportunities for marbled murrelet and harlequin duck nesting; maintain or enhance wilderness-based recreational opportunities.</p>	
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; fee title acquisition; cooperative management agreement; conservation easement.</p>	
<p>RECOMMENDED ACTION: Request Chenega Corporation to provide interim protection; discuss options for long term protection.</p>	

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

- summaries. Technical paper no. 150. 690 p. Alaska Department of Fish and Game, Division of Subsistence, Juneau, Alaska.
- Sowls, A.L.; Hatch, S.A.; Lensing, C.J. 1978. Catalog of Alaskan seabird colonies. FWS/OBS-78/78. U.S. Fish and Wildlife Service, Office of Biological Services, Coastal Ecosystems Project, Anchorage, Alaska.
- Stanek, Ronald T. 1982. Natural resource harvests at Port Graham and English Bay, 1982: an interim report. Technical paper no. 32. 35 p. Alaska Department of Fish and Game, Division of Subsistence, Anchorage, Alaska.
- Stanek, Ronald T. 1985. Patterns of wild resource use in English Bay and Port Graham, Alaska. Technical paper no. 104. 226 p. Alaska Department of Fish and Game, Division of Subsistence, Anchorage, Alaska.
- Stratton, Lee. 1990. Resource harvest and use in Tatitlek, Alaska. Technical paper no. 181. 163 p. Alaska Department of Fish and Game, Division of Subsistence, Anchorage, Alaska.
- Stratton, Lee; Chisum, Evelyn B. 1986. Resource use patterns in Chenega, western Prince William Sound : Chenega in the 1960's and Chenega Bay 1984-1986. Technical paper no. 139. 161 p. Alaska Department of Fish and Game, Division of Subsistence, Juneau, Alaska.
- U.S. Fish & Wildlife Service, Region 7. 1989-1992. Bald eagle surveys. Unpublished ARC/INFO data files. U.S. Fish and Wildlife Service, Anchorage, Alaska.

Cook Inlet, Kenai (CIK)

CIK 01, 02, 03

HABITAT PROTECTION ACQUISITION PARCELS

Kachemak Bay, Alaska

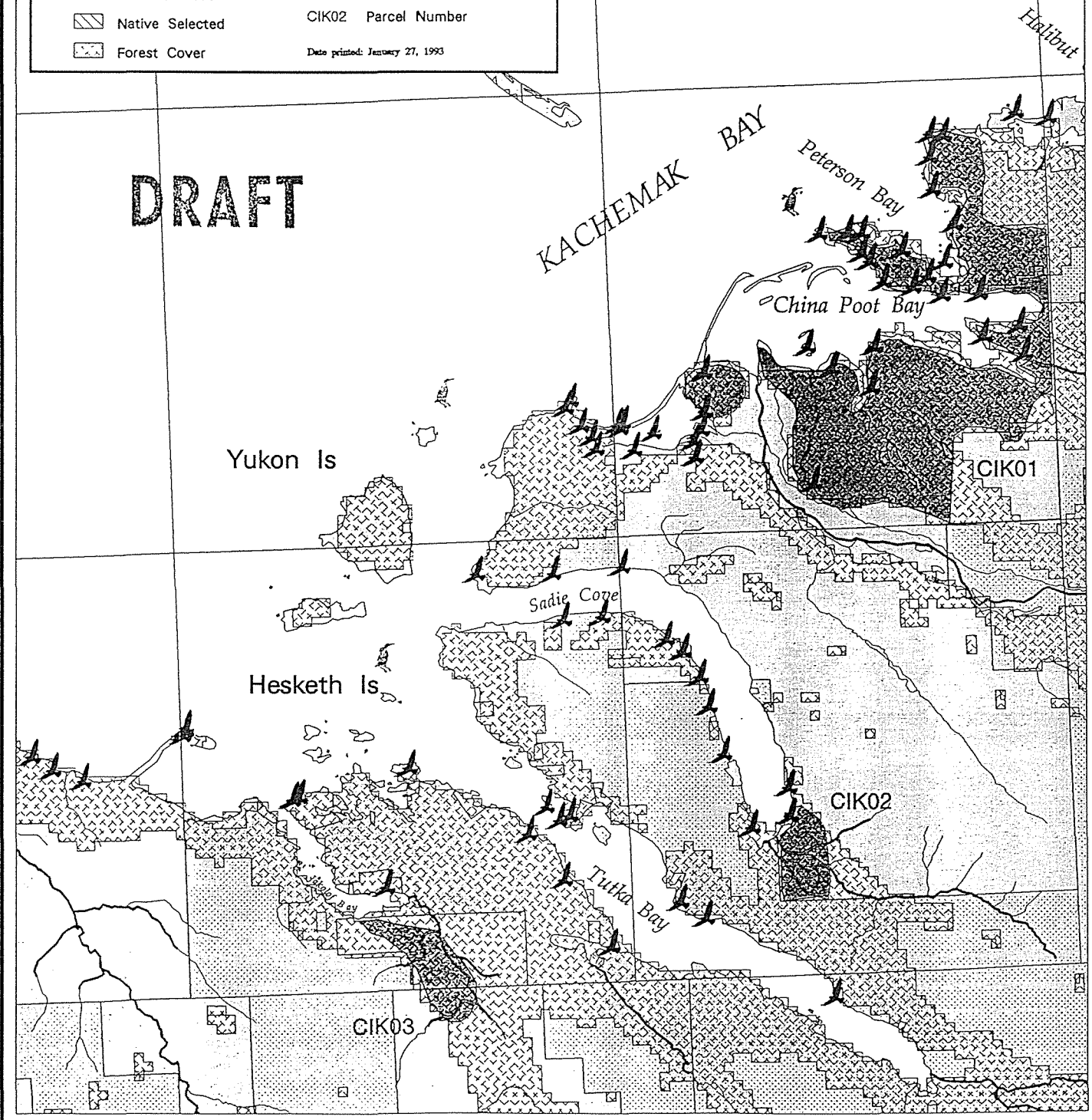
Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | |
|--|--------------------------------|
| | |
| | |
| | |
| | |
| | CIK02 Parcel Number |
| | Date printed: January 27, 1993 |

SOURCES:
Current and planned timber harvest areas provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources, Division of Forestry, 1992.
Land status was provided by ADNR, Land Records Information System (LRIS), 1992.
Forest Cover data provided by US Geological Survey (USGS/EROS) Alaska Field Office, using LANDSAT MSS imagery resampled to a 200 meter grid.
Eagle and Seabird Information collected and provided by US Fish and Wildlife.
Streams were automated by ADNR-LRIS from the USGS topographic maps (1:63,300). Anadromous stream classification was determined by the ADF&G, 1990.

DRAFT



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 01		PARCEL NAME: China Poot, Kachemak Bay	
LANDOWNER: Seldovia Native Association		PARCEL ACREAGE: 7,500	TOTAL ACREAGE: 106,000
		AFFECTED ACREAGE: 5,300	
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	Five cataloged anadromous streams on parcel. Coho, chum, sockeye, and pink salmon and Dolly Varden spawning and rearing habitat; enhanced sockeye salmon runs in Leisure Lake and Hazel Lake.	
Bald Eagle	High	Intertidal foraging and feeding on anadromous fish. Thirty seven documented nest sites on parcel.	
Black Oystercatcher	Low	Likely that oystercatchers use gravel spits and intertidal for feeding and nesting.	
Common Murre	Moderate	Murre colony (est. 5,075 birds) on Gull Rock may benefit from adjacent habitat protection.	
Harbor Seal	Moderate	Harbor seals feed in area and frequently haul-out on nearshore rocks and bars.	
Harlequin Duck	Moderate	Probable nesting in upper riparian areas; probable feeding in streams and estuaries.	
Intertidal/subtidal biota	High	China Poot Bay is documented as one of the most productive shallow benthic habitats in Kachemak Bay.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 01	PARCEL NAME: China Poot, Kachemak Bay	
Marbled Murrelet	High	High confidence that nesting occurs on parcel. Large numbers of murrelets forage on Kachemak Bay.
Pigeon Guillemot	Low	Foraging occurs in adjacent marine waters.
River Otter	Moderate	High use area for feeding and latrine sites; possible denning inland.
Sea Otter	Low	Established population in area; feeding and possible pupping in adjacent marine waters.
Recreation/Tourism	High	Neptune, Peterson, and China Poot bays and Gull Rock receive high use. Highly visible from Homer and Kachemak Bay. Adjacent to Kachemak Bay State Park.
Wilderness	Low	Area is moderately developed, primarily recreational homesites. High human use area.
Cultural Resources	Moderate	Twenty eight documented archeological sites on parcel.
Subsistence	Moderate	Within resource use area of Port Graham and English Bay.
<p>ECOLOGICAL SIGNIFICANCE: China Poot, Neptune, and Peterson bays are highly productive estuaries that provide habitat for birds, anadromous fish, mammals, and intertidal marine life. This area receives very high recreational use, has significant archeological sites, and is highly visible from Homer and adjacent marine waters. The timbered lands are probably important to marbled murrelets. This area also provides access to a recreational dip-net fishery at the outlet of Leisure Lake.</p>		

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 01	PARCEL NAME: China Poot, Kachemak Bay
<p>ADJACENT LAND MANAGEMENT: This parcel is adjacent to Kachemak Bay State Park; the park receives a significant amount of recreational use by residents of Anchorage and the Kenai Peninsula and is also an important tourist attraction. The parcel is also adjacent to other Seldovia Native Association lands.</p>	
<p>IMMINENT THREAT/OPPORTUNITY: This parcel is proposed for logging in 1993. Permit approvals are pending additional information, Corps of Engineers Public Notice, and ACMP review.</p>	
<p>PROTECTION OBJECTIVE: 1) Maintain water quality of the estuary and associated riparian habitats for anadromous fish; 2) maintain bald eagle, marbled murrelet, and harlequin nesting habitat; 3) maintain and enhance recreational opportunities and scenic values; and 4) maintain public access to Leisure Lake stream.</p>	
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; fee simple purchase; conservation easement; cooperative management; public access acquisition.</p>	
<p>RECOMMENDED ACTION: The Trustee Council has approved a resolution to acquire fee title for Kachemak Park inholdings. Habitat and service values are among the highest for imminent threat lands evaluated. Request SNA to provide interim protection; begin negotiations to acquire long term protection; December 31, 1993 deadline.</p>	

1. Parties other than landowner may own partial rights (eg. timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 02		PARCEL NAME: Sadie Cove	
LANDOWNER: Seldovia Native Association		PARCEL ACREAGE: 400	TOTAL ACREAGE: 106,000
		AFFECTED ACREAGE: 400	
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	Two cataloged anadromous streams. Pink and chum spawning.	
Bald Eagle	Moderate	Three documented nest sites on parcel.	
Black Oystercatcher	None		
Common Murre	None		
Harbor Seal	Low	Foraging in Sadie Cove estuary.	
Harlequin Duck	Low	Possible nesting in upper reaches of riparian habitat (adjacent to parcel). Potential feeding in lower stream and estuary.	
Intertidal/subtidal biota	Low	Species diversity and richness relatively low at head of Sadie Cove.	
Marbled Murrelet	Low	No evidence of use of this parcel.	
Pigeon Guillemot	None		
River Otter	Low	Probable feeding in adjacent marine habitat and stream.	
Sea Otter	Low	Occasional use of Sadie Cove for feeding and shelter.	
Recreation/Tourism	Moderate	Recreational cabins and boating. High scenic values.	
Wilderness	Low	Area is moderately developed, primarily recreational homesites. Moderate evidence of human use.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 02	PARCEL NAME: Sadie Cove	
Cultural Resources	None	No evidence that archeological sites exist on parcel.
Subsistence	Low	Waterfowl, marine mammals
<p>ECOLOGICAL SIGNIFICANCE: Sadie Cove is a deep fjord estuary that provides habitat for anadromous fish and overwintering waterfowl. It is a moderately used recreational area accessible by boat from Homer.</p>		
<p>ADJACENT LAND MANAGEMENT: Kachemak Bay State Park; Seldovia Native Association.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: This parcel is proposed for logging in 1993.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain water quality of the estuary and associated riparian anadromous fish habitat; 2) protect bald eagle nesting and roosting habitat.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; fee simple purchase; conservation easement; cooperative management.</p>		
<p>RECOMMENDED ACTION: Request interim protection from SNA, partial interests (timber rights, easement) and/or cooperative management may provide adequate long-term protection.</p>		

1. Rights other than title may be held by other parties.
2. Area evaluated.
3. Total acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 03		PARCEL NAME: Jakolof Bay	
LANDOWNER: Seldovia Native Association		PARCEL ACREAGE: 600	³ TOTAL ACREAGE: 106,000 ⁴ AFFECTED ACREAGE: 500
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	One mainstem and four tributaries cataloged as anadromous. Pink, chum, sockeye. and coho salmon spawning and rearing, Dolly Varden.	
Bald Eagle	Low	One nest site adjacent to parcel. Probable feeding in stream and estuary.	
Black Oystercatcher	None		
Common Murre	None		
Harbor Seal	Low	Feeding in Jakolof Bay and estuary.	
Harlequin Duck	Low	Possible nesting in upper reaches of riparian habitat. Potential feeding in lower stream and estuary.	
Intertidal/subtidal biota	Moderate	Jakalof Bay known to be highly productive for shellfish and other marine invertebrates	
Marbled Murrelet	Low	Possible feeding in Jakolof Bay.	
Pigeon Guillemot	None		
River Otter	Low	Probable feeding in adjacent marine habitat and stream.	
Sea Otter	Low	Use Jakalof Bay for feeding and shelter.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 03	PARCEL NAME: Jakolof Bay	
Recreation/Tourism	Moderate	Road accessible from Seldovia. Recreational use of Rocky Bay road. Public boat harbor in Jakolof Bay. Recreational boating and fishing.
Wilderness	None	High evidence of human use (road, sawmill, boat harbor, mariculture)
Cultural Resources	Low	One archeological site documented adjacent to parcel.
Subsistence	Low	Shellfish, waterfowl
<p>ECOLOGICAL SIGNIFICANCE: Jakolof Bay is a productive shallow estuary providing habitat for anadromous fish, shellfish, waterfowl, and mammals. It is a moderately used recreational area easily accessible by road from Seldovia.</p>		
<p>ADJACENT LAND MANAGEMENT: Kachemak Bay State Park; Seldovia Native Association.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: This area is proposed for logging in 1993. It has an existing road access, and an abandoned sawmill and log transfer facility.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain water quality of the estuary and associated riparian habitats for anadromous fish; 2) maintain recreational values and recreational access.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; fee simple purchase; conservation easement; cooperative management.</p>		
<p>RECOMMENDED ACTION: Request SNA to provide interim protection; long-term protection may be achieved through acquisition of partial interests (timber, easements) and cooperative management agreement.</p>		











1. Rights other than title may be held by other parties.
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION ACQUISITION PARCELS

Nanwalek, Alaska

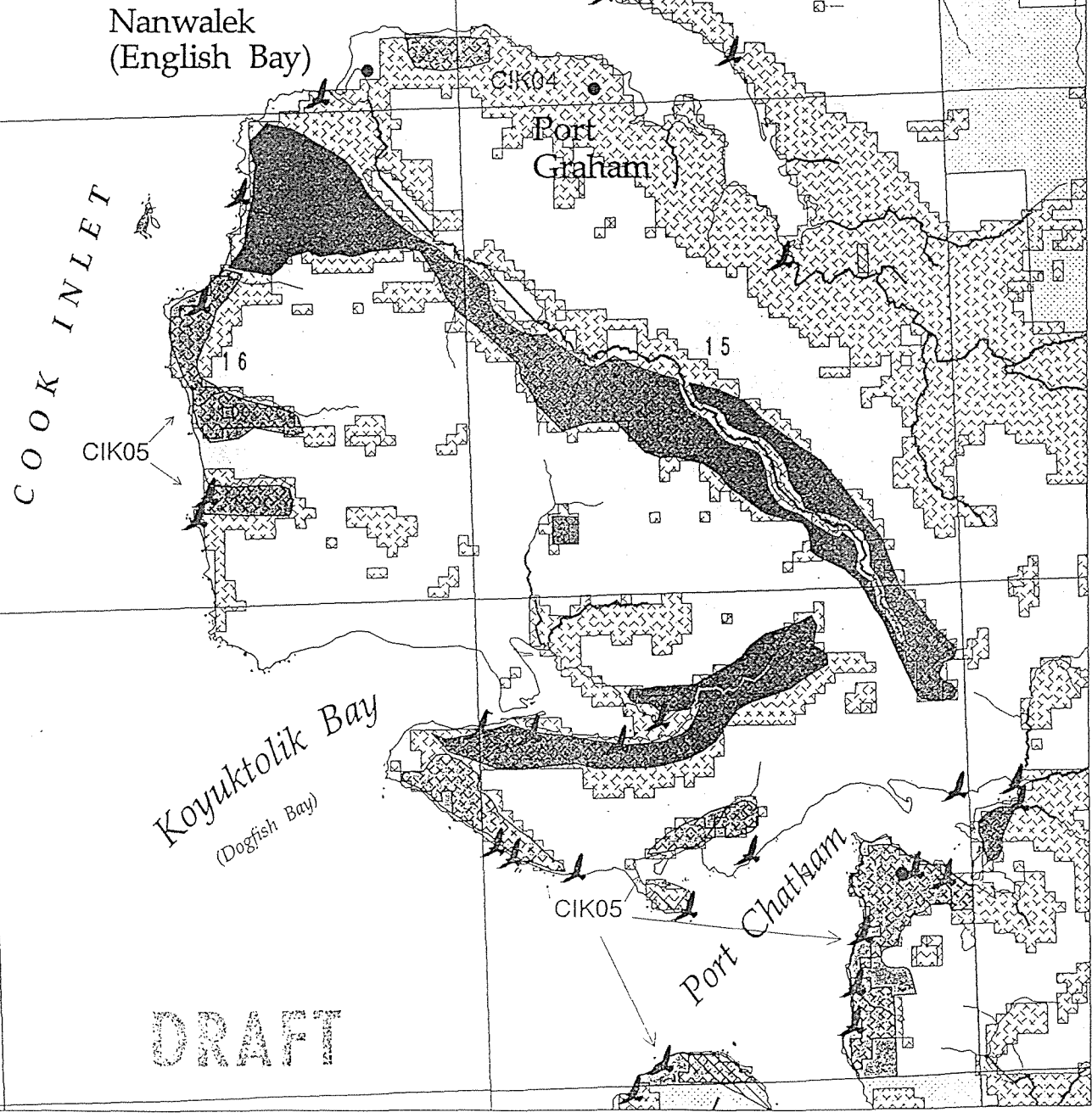
Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|-------------------------------------|---|--------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected | CIK02 Parcel Number | |
|  | Forest Cover | | |

Date printed: January 27, 1993

SOURCES:
Current and planned timber harvest areas provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources, Division of Forestry, 1992.
Land status was provided by ADNRL, Land Records Information Section (LRIS), 1992.
Forest Cover data provided by US Geological Survey (USGS)/EROS Alaska Field Office, using LANDSAT MSS imagery resampled to a 200 meter grid.
Eagle and Seabird information collected and provided by US Fish and Wildlife.
Streams were automated by ADNRL/RS from the USGS topographic maps (1:63,300). Anadromous stream classification was determined by the ADF&G, 1990.



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 04		PARCEL NAME: Port Graham BIA Parcels	
LANDOWNER: Various Native Allotees		PARCEL ACREAGE: 200	TOTAL ACREAGE: 200
		AFFECTED ACREAGE: 200	
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	None	No documented anadromous streams.	
Bald Eagle	Low	One documented nest site; probable feeding and roosting.	
Black Oystercatcher	Low	Feeding along intertidal zone.	
Common Murre	None		
Harbor Seal	Low	Feeding in adjacent marine waters.	
Harlequin Duck	Low	Probable feeding and loafing in nearshore zone.	
Intertidal/subtidal biota	Moderate	Rocky intertidal zone.	
Marbled Murrelet	Unknown	No available information.	
Pigeon Guillemot	Unknown	No available information.	
River Otter	Unknown	No available information.	
Sea Otter	Low	Feeding in adjacent marine waters.	
Recreation/Tourism	Moderate	Marine waters used for recreational halibut fishing. Visible from ferry route, recreational boaters and tour boats.	
Wilderness	Low	High evidence of human use. Adjacent to Port Graham and English Bay.	
Cultural Resources	Low	One archeological site documented adjacent to parcel.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 04	PARCEL NAME: Port Graham BIA Parcels	
Subsistence	High	Extensive subsistence use of adjacent marine and intertidal areas; salmon, marine mammals, invertebrates, plants, berries.
<p>ECOLOGICAL SIGNIFICANCE: This is a relatively steep, north-facing timbered slope adjacent to Port Graham. Habitat and service value characteristics on parcel appear to be relatively low; however, detailed habitat information for some species is lacking.</p>		
<p>ADJACENT LAND MANAGEMENT: Port Graham; Nanwalek village corporations.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Logging (under BIA management) is planned for 1993.</p>		
<p>PROTECTION OBJECTIVE: Maintain water quality in Port Graham.</p>		
<p>USEFUL PROTECTION TOOL(S): Cooperative management agreement.</p>		
<p>RECOMMENDED ACTION: Request interim protection from BIA and landowners; obtain additional information on habitat and service values.</p>		

1. Parties other than landowner may own partial rights (e.g., timber, minerals), BIA serves as trust manager.
2. Area evaluated.
3. Estimated acreage held by the owner(s) in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 05		PARCEL NAME: Lower Kenai Peninsula	
LANDOWNER: Nanwalek Corporation		PARCEL ACREAGE: 3,000	TOTAL ACREAGE: 46,000
		AFFECTED ACREAGE: 1,800	
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Low	Two cataloged anadromous streams; pink salmon spawning.	
Bald Eagle	Moderate	Ten documented nest sites.	
Black Oystercatcher	Moderate	Feeding along shoreline. Potential nesting habitat in Port Chatham.	
Common Murre	Low	Potential feeding in adjacent marine waters.	
Harbor Seal	Low	Hauling out on nearshore rocks; feeding in adjacent marine waters.	
Harlequin Duck	Low	Feeding and loafing along shoreline.	
Intertidal/subtidal biota	Moderate	Highly productive rocky intertidal and shallow subtidal habitat in Port Chatham area. Abundant Fucus and other seaweeds.	
Marbled Murrelet	Moderate	Habitat characteristics appear favorable for nesting; feeding in adjacent marine waters.	
Pigeon Guillemot	Low	Probable nesting; feeding nearshore.	
River Otter	Moderate	Probable feeding along shoreline, possible latrine and denning sites.	
Sea Otter	Moderate	Concentration area for feeding, shelter, potential pupping in Port Chatham.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 05	PARCEL NAME: Lower Kenai Peninsula	
Recreation/Tourism	Moderate	Marine waters used for recreational halibut fishing. Visible from ferry route, recreational boaters and tour boats.
Wilderness	Low	Abandoned sawmill and cannery; adjacent timber harvest and log transfer facility; frequent boat activity.
Cultural Resources	Moderate	Two archeological sites documented on parcel; three adjacent.
Subsistence	Moderate	Waterfowl, marine mammals
<p>ECOLOGICAL SIGNIFICANCE: These parcels are adjacent to productive rocky intertidal and subtidal areas. The offshore waters are highly productive marine bird and marine mammal feeding areas. Forest habitats near this area have recently been disturbed by logging activities.</p>		
<p>ADJACENT LAND MANAGEMENT: Nanwalek; Port Graham village corporations.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Forest Practices Notices have been filed to harvest timber in 1993.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain water quality in the nearshore area; 2) maintain bald eagle and marbled murrelet nesting habitat; and 3) minimize visual impacts to recreational users in adjacent marine waters.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; cooperative management; conservation easement.</p>		
<p>RECOMMENDED ACTION: Request Nanwalek Corporation to provide interim protection; discuss options with land owner to provide long-term protection.</p>		

1. Parties other than landowner may own partial rights (e.g. timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.

HABITAT PROTECTION PARCEL ANALYSIS

4. Estimated area to be affected by imminent development activity.












CIK 06, 07

HABITAT PROTECTION ACQUISITION PARCELS

Windy Bay, Alaska

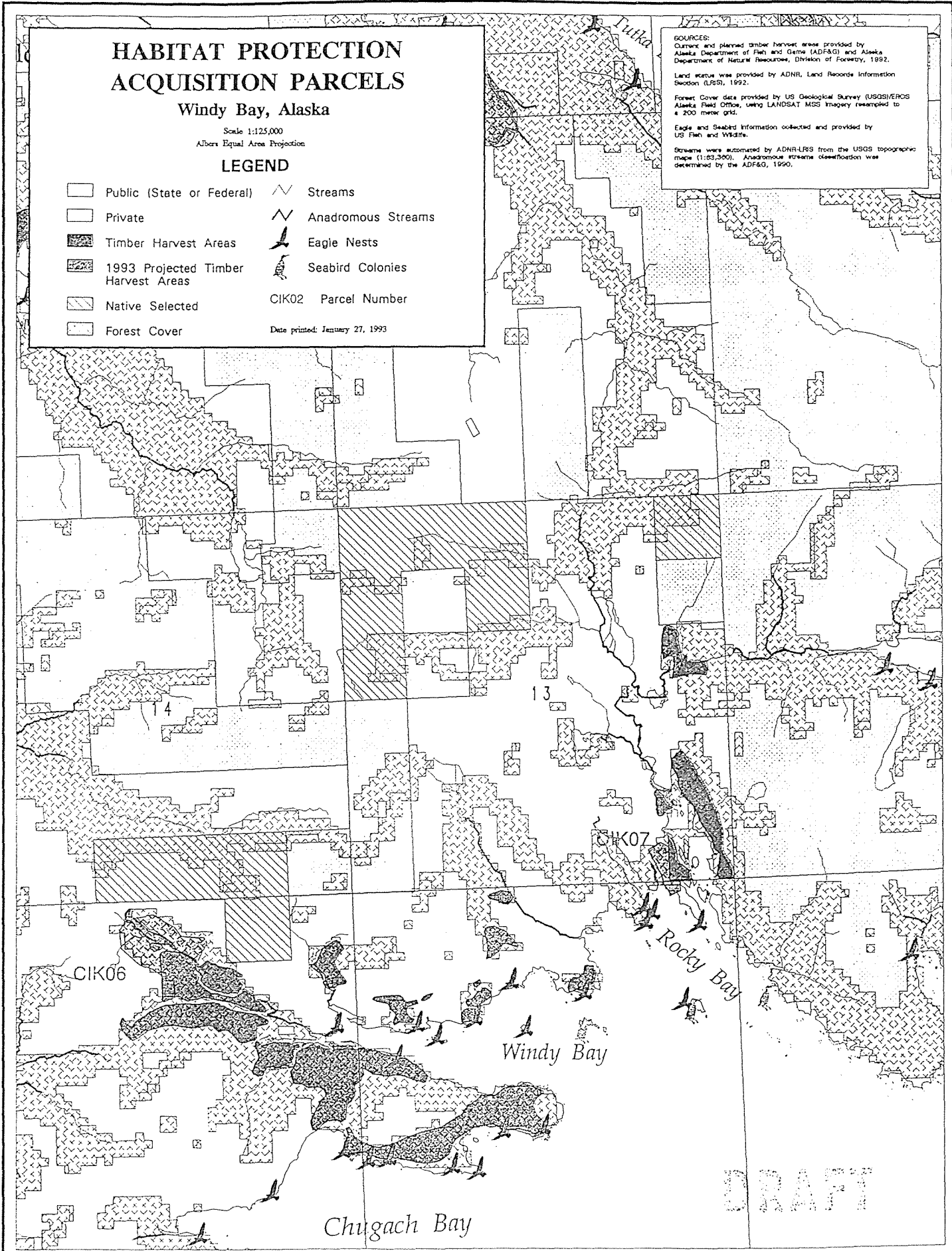
Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|-------------------------------------|---|---------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected |  | CIK02 Parcel Number |
|  | Forest Cover | | |

Date printed: January 27, 1993

SOURCES:
Current and planned timber harvest areas provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources, Division of Forestry, 1992.
Land status was provided by ADNIR, Land Records Information Section (LRIS), 1992.
Forest Cover data provided by US Geological Survey (USGS)/EROS Alaska Field Office, using LANDSAT MSS imagery resampled to a 200 meter grid.
Eagle and Seabird information collected and provided by US Fish and Wildlife.
Schemes were automated by ADNIR/LRS from the USGS topographic maps (1:62,500). Anadromous stream classification was determined by the ADF&G, 1990.



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 06	PARCEL NAME: Windy Bay		
'LANDOWNER: Port Graham	² PARCEL ACREAGE: 400	³ TOTAL ACREAGE: 63,500	⁴ AFFECTED ACREAGE: 400
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Low	One documented anadromous stream; pink, chum, coho.	
Bald Eagle	Low	No documented nesting; possible feeding and perching.	
Black Oystercatcher	None		
Common Murre	None		
Harbor Seal	None		
Harlequin Duck	Low	Possible nesting.	
Intertidal/subtidal biota	None		
Marbled Murrelet	Unknown	Habitat characteristics appear favorable for nesting.	
Pigeon Guillemot	None		
River Otter	Low	Possible denning.	
Sea Otter	None		
Recreation/Tourism	Low	Limited access, low use for bear and goat hunting.	
Wilderness	Low	Extensive recent clear cuts in area.	
Cultural Resources	None	No evidence of archeological sites on parcel.	
Subsistence	Low	Most use confined to marine area.	
<p>ECOLOGICAL SIGNIFICANCE: The associated streams within this parcel support anadromous fish spawning and rearing habitat. This is one of the few remaining unharvested forest stands within the Windy Bay watershed.</p>			

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 06	PARCEL NAME: Windy Bay
ADJACENT LAND MANAGEMENT: Nanwalek Corporation; Kachemak Bay State Wilderness Park.	
IMMINENT THREAT/OPPORTUNITY: Forest Practices Notice has been filed for clear-cutting this parcel in 1993.	
PROTECTION OBJECTIVE: 1) Maintain water quality and riparian habitat for anadromous fish; 2) maintain nesting opportunities for marbled murrelets and bald eagles.	
USEFUL PROTECTION TOOL(S): Cooperative management agreement.	
RECOMMENDED ACTION: Habitats on this parcel have relatively low value for recovery of injured species/services; request Nanwalek Corporation to provide interim protection; discuss options for long term protection.	

1. Parties other than landowner may own partial rights (e.g. timber, minerals).
2. Area evaluated.
3. Estimate acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 07		PARCEL NAME: Rocky Bay	
LANDOWNER: Port Graham Corporation		PARCEL ACREAGE: 100	TOTAL ACREAGE: 63,500
		AFFECTED ACREAGE: 100	
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Low	One documented anadromous stream; pink.	
Bald Eagle	Low	No documented nest sites on parcel, three sites in Rocky Bay.	
Black Oystercatcher	Low	Probable feeding in intertidal.	
Common Murre	None		
Harbor Seal	Low	Probable feeding, hauling out in adjacent marine area; documented harbor seal haul out concentration area approx. one mile to the south.	
Harlequin Duck	Low	Probable feeding and loafing in intertidal.	
Intertidal/subtidal biota	Low	Shore was very lightly oiled.	
Marbled Murrelet	Low	Habitat characteristics appear favorable for nesting, probable feeding in nearshore waters.	
Pigeon Guillemot	Low	Possible nesting, probable feeding in nearshore waters.	
River Otter	Low	Possible feeding and latrine sites.	
Sea Otter	Moderate	Documented sea otter concentration area.	
Recreation/Tourism	Moderate	Road accessible from Seldovia, occasional boat use, recreational fishing for cohos.	
Wilderness	Low	Extensive recent clearcuts in area.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: CIK 07	PARCEL NAME: Rocky Bay	
Cultural Resources	None	No evidence of archeological sites on parcel.
Subsistence	Low	Waterfowl, marine mammals.
<p>ECOLOGICAL SIGNIFICANCE: Coho and pink salmon support recreational and commercial fisheries; accessible via old logging road (trail) from Seldovia; area has been extensively harvested for timber during the past twenty years.</p>		
<p>ADJACENT LAND MANAGEMENT: Port Graham Corporation; near Kachemak Bay State Wilderness Park.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: This parcel is proposed for timber harvest in 1993.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain water quality and riparian habitats for anadromous fish; maintain recreational fishing opportunities; 3) maintain recreational access.</p>		
<p>USEFUL PROTECTION TOOL(S): Cooperative management agreement; acquire and enhance recreational access.</p>		
<p>RECOMMENDED ACTION: Request Port Graham Corporation to provide interim protection; discuss options for cooperative management and recreational access improvements.</p>		

1. Parties other than landowner may own partial rights (e.g. timber minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.













Kodiak, AK Peninsula (KAP)

HABITAT PROTECTION ACQUISITION PARCELS

Seal Bay, Alaska

Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|-------------------------------------|---|---------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected |  | Parcel Boundary |
|  | Forest Cover |  | KAP02 Parcel Number |

Date printed: January 29, 1993

DRAFT

SOURCES:

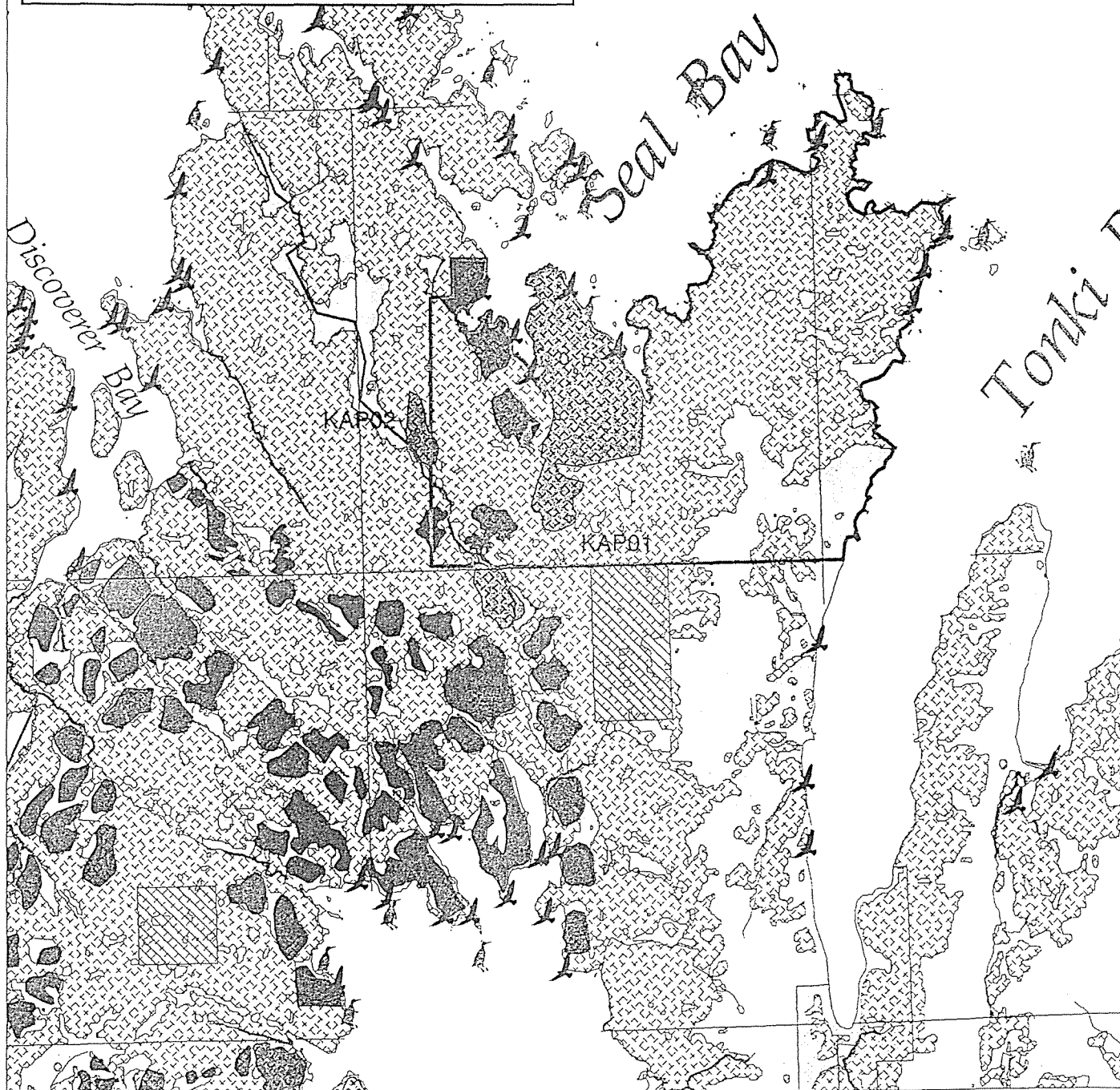
Current and planned timber harvest areas provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources (ADNR), Division of Forestry, 1992.

Land status provided by ADNR, Land Records Information Section, 1989.

Forest cover was determined from SPOT 1991 imagery by Podolsky, 1993.

Eagle and Seabird information collected and provided by US Fish and Wildlife.

Streams were automated by ADNR-LRIS from the USGS topographic maps (1:63,360). Anadromous stream classification was determined by the ADF&G, 1991.



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 01		PARCEL NAME: Seal Bay	
¹ LANDOWNER: Akhiok Kaguyak/ Old Harbor		² PARCEL ACREAGE: 15,000	³ TOTAL ACREAGE: 253,000
			⁴ AFFECTED ACREAGE: 1,600
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	Six documented anadromous streams; pink, sockeye, coho, Dolly Varden, steelhead.	
Bald Eagle	High	Fourty two documented nest sites; feeding and roosting along shoreline.	
Black Oystercatcher	Moderate	Feeding in intertidal; probable nesting along shoreline and nearshore islets.	
Common Murre	None		
Harbor Seal	Moderate	Area historically supported large numbers of seals. Feeding in nearshore waters and haul-outs on nearshore rocks.	
Harlequin Duck	Moderate	Up to 64 birds observed in Seal Bay. Nearshore habitat appears good for feeding and molting. Potential for nesting appears low.	
Intertidal/subtidal biota	Moderate	Productive sheltered rocky intertidal and shallow subtidal habitat. Steep slopes adjacent to intertidal may become source of erosion sedimentation. No documented oiling of shoreline.	
Marbled Murrelet	High	High confidence that nesting occurs on parcel; good nesting habitat characteristics; high use of adjacent marine waters for feeding.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 01		PARCEL NAME: Seal Bay
Pigeon Guillemot	Moderate	Documented nesting of up to 36 birds on or immediately adjacent to parcel; feeding in nearshore waters.
River Otter	Moderate	Probable feeding and latrine sites along shoreline. Possible denning. Habitat characteristics appear very favorable for river otters.
Sea Otter	Moderate	Known concentration area off Tolstoi Point. Feeding in nearshore waters.
Recreation/Tourism	Moderate	Area has historically supported high value wilderness-based recreation for boats and lodge. Access was previously difficult but is now road accessible.
Wilderness	Moderate	Wilderness characteristics are declining. Recent clearcuts and road are visible.
Cultural Resources	Moderate	Six archeological sites documented on parcel.
Subsistence	Low	Marine invertebrates, deer, elk, possibly marine mammals.
<p>ECOLOGICAL SIGNIFICANCE: This parcel contains old growth forest habitat adjacent to highly productive marine waters. Streams within the parcel support a diversity of anadromous fish. Forests on this parcel are suspected of providing high value marbled murrelet nesting habitat. Wilderness recreation values, particularly for fishing and hunting are high. Parcel supports non-injured species including deer, elk, and brown bear.</p>		
<p>ADJACENT LAND MANAGEMENT: Afognak Joint Venture; primarily for timber harvest and tree farming.</p>		

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 01	PARCEL NAME: Seal Bay
IMMINENT THREAT/OPPORTUNITY: A portion of this parcel is proposed for logging in 1993 as an extension of an ongoing timber management operation by Koncor Forest Products. Akhiok-Kaguyak has expressed an interest in discussing habitat protection for remainder of parcel.	
PROTECTION OBJECTIVE: 1) Maintain water quality and riparian habitat for anadromous fish; 2) maintain marbled murrelet and bald eagle nesting habitat; 3) maintain and enhance wilderness-based recreational opportunities.	
USEFUL PROTECTION TOOL(S): Timber acquisition; fee title acquisition; cooperative management agreement; conservation easement.	
RECOMMENDED ACTION: This is one of highest priority imminent threat parcels; request Akhiok/Kaguyak/Old Harbor joint venture to provide interim protection; discuss options for long-term protection.	

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

000000











HABITAT PROTECTION ACQUISITION PARCELS

Seal Bay, Alaska

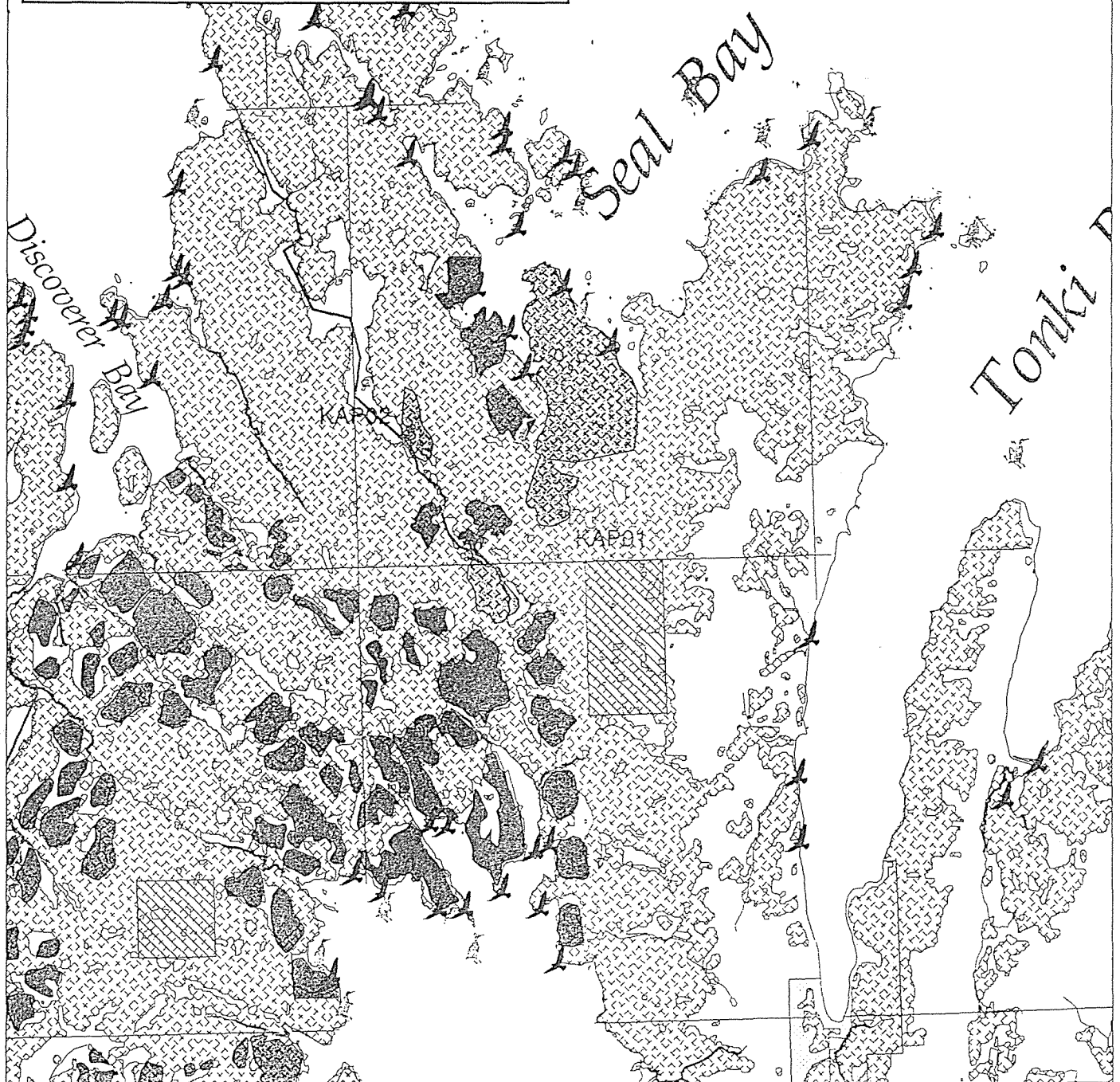
Scale 1:125,000
Albers Equal Area Projection

DRAFT

LEGEND

- | | | | |
|---|-------------------------------------|---|--------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected | KAP02 Parcel Number | |
|  | Forest Cover | Date printed: January 29, 1993 | |

SOURCES:
Current and planned timber harvest areas provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources (ADNR), Division of Forestry, 1992.
Land status provided by ADNR, Land Records Information Section, 1999.
Forest cover was determined from SPOT 1991 imagery by Podolsky, 1993.
Eagle and Seabird information collected and provided by US Fish and Wildlife.
Streams were automated by ADNR-LRS from the USGS topographic maps (1:63,360). Anadromous streams classification was determined by the ADF&G, 1991.



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 02		PARCEL NAME: Pauls / Laura / Gretchen lakes	
LANDOWNER: Afognak Joint Venture		PARCEL ACREAGE: 500	TOTAL ACREAGE: 150,000 AFFECTED ACREAGE: 370
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	One documented anadromous stream/lake system; coho, sockeye, steelhead, Dolly Varden.	
Bald Eagle	Low	No documented nest sites. Probable feeding on anadromous stream/lakes.	
Black Oystercatcher	None		
Common Murre	None		
Harbor Seal	None		
Harlequin Duck	Unknown	Possible nesting in riparian zone.	
Intertidal/subtidal biota	None		
Marbled Murrelet	Moderate	High confidence that nesting occurs on parcel; good nesting habitat characteristics	
Pigeon Guillemot	None		
River Otter	Moderate	Probable feeding, latrine sites; possible denning.	
Sea Otter	None		
Recreation/Tourism	Moderate	Pauls Lake used for recreational fishing; recently made road accessible.	
Wilderness	Low	Recent clearcuts and roads in area.	
Cultural Resources	None	No evidence of archeological sites on parcel.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 02	PARCEL NAME: Pauls / Laura / Gretchen lakes	
Subsistence	Unknown	
<p>ECOLOGICAL SIGNIFICANCE: The stream and lake system on this parcel supports highly productive anadromous fish habitat including sockeye and coho salmon, Dolly Varden, and steelhead; supports recreational and commercial fishing.</p>		
<p>ADJACENT LAND MANAGEMENT: Timber harvest is actively occurring on this and adjacent lands. Surrounding lands are owned by Afognak Joint Venture and managed by Koncor Forest Products for timber production.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: This parcel is proposed for logging in 1993; it is an extension of an ongoing timber harvest.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain water quality and riparian habitats for anadromous fish; 2) maintain nesting opportunities for marbled murrelets.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; cooperative management agreement; conservation easement.</p>		
<p>RECOMMENDED ACTION: Request Afognak Joint Venture to provide interim protection; discuss options for long term protection.</p>		











1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION ACQUISITION PARCELS

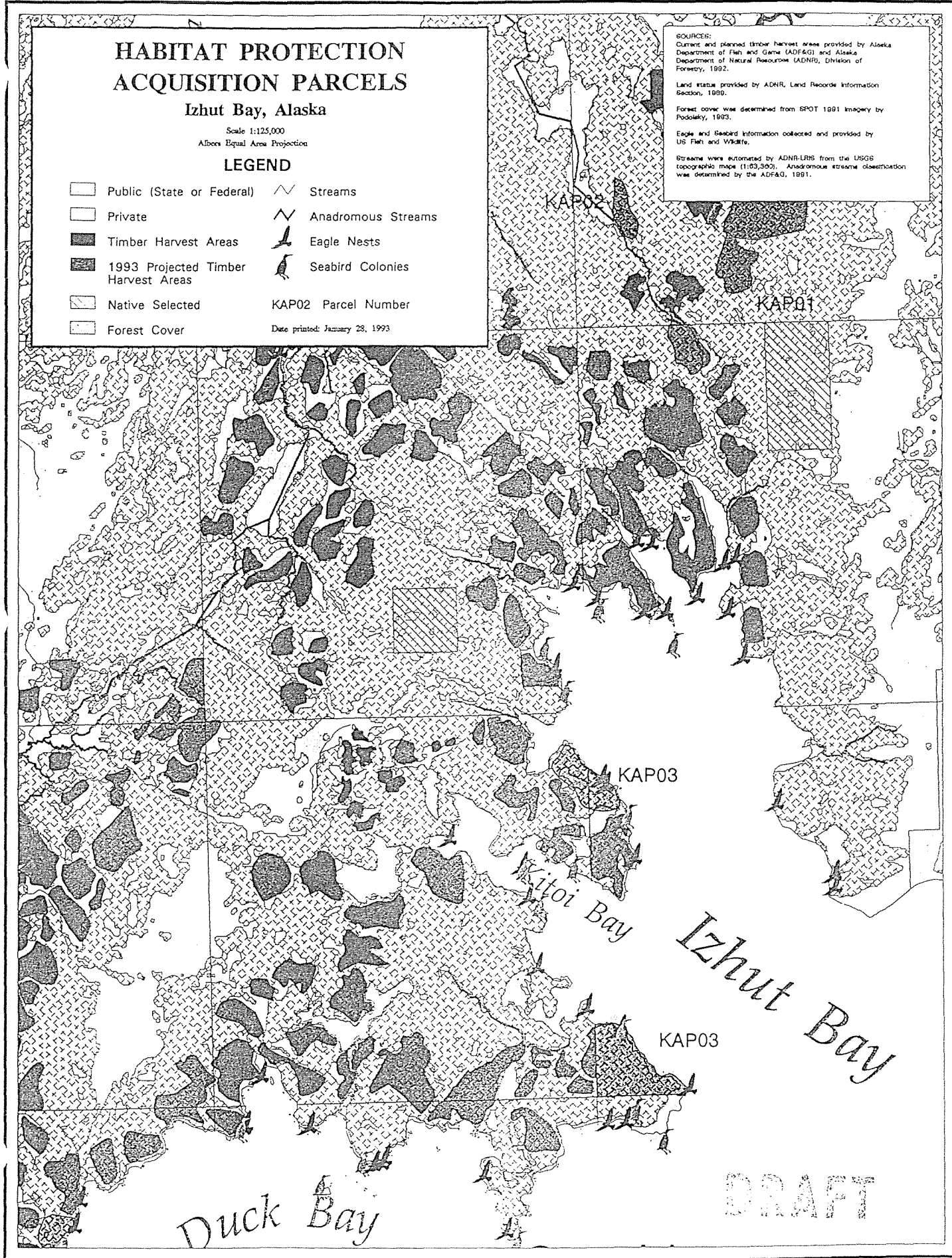
Izhut Bay, Alaska

Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|-------------------------------------|---|--------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected | KAP02 Parcel Number | |
|  | Forest Cover | Date printed: January 28, 1993 | |

SOURCES:
Current and planned timber harvest areas provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources (ADNR), Division of Forestry, 1992.
Land status provided by ADNR, Land Records Information Section, 1989.
Forest cover was determined from SPOT 1991 imagery by Podolsky, 1993.
Eagle and Seabird information collected and provided by US Fish and Wildlife.
Streams were automated by ADNR-LRIS from the USGS topographic maps (1:62,500). Anadromous streams classification was determined by the ADF&G, 1991.



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 03	PARCEL NAME: Izhut Bay		
'LANDOWNER: Afognak Joint Venture	² PARCEL ACREAGE: 1,000	³ TOTAL ACREAGE: 150,000	⁴ AFFECTED ACREAGE: 960
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	None	No documented anadromous fish streams. Terrain appears to have low potential for supporting anadromous streams.	
Bald Eagle	Moderate	Four documented nest sites.	
Black Oystercatcher	Low	Fourteen birds documented in area. Probable feeding, possible nesting in intertidal adjacent to parcel.	
Common Murre	None		
Harbor Seal	Moderate	Known haul-out concentration area; probable feeding in nearshore waters.	
Harlequin Duck	Low	Possible feeding and loafing on intertidal adjacent to parcel.	
Intertidal/subtidal biota	Low	Steep rocky shoreline; lightly oiled in places.	
Marbled Murrelet	High	Documented nesting in vicinity of parcel; good nesting habitat characteristics; high use of adjacent marine waters for feeding.	
Pigeon Guillemot	Moderate	Twenty six birds documented in area; probable nesting and feeding along shoreline.	
River Otter	Low	Steep shoreline probably indicates low use by river otter.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 03	PARCEL NAME: Izhut Bay	
Sea Otter	Low	Feeding in nearshore waters. Habitat appears to have low capacity to support sea otters.
Recreation/Tourism	Low	Recreational fishing and hunting in area.
Wilderness	Low	Fish hatchery in vicinity, recent clearcuts and roads.
Cultural Resources	Low	One archeological site documented on parcel; four adjacent.
Subsistence	Low	Use of parcel appears low; uses adjacent to parcel include: crabs, marine fish, invertebrates, marine mammals, salmon, elk.
<p>ECOLOGICAL SIGNIFICANCE: This parcel contains relatively steeply sloping timbered lands bordering a protected rocky shore and productive marine area in Izhut Bay. The Izhut Bay area has been extensively modified by timber harvest during the past several years. A marbled murrelet nest was found in a felled tree in the vicinity of this parcel in 1992.</p>		
<p>ADJACENT LAND MANAGEMENT: Afognak Joint Venture; timber harvest and forest management are under direction of Koncor Forest Products.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Timber harvest is currently occurring on and adjacent to this parcel; timber harvest likely to be completed on this parcel in 1993.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain marbled murrelet nesting opportunities; 2) maintain forested shoreline fringe for bald eagles and protection of nearshore habitat.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; conservation easement; cooperative management agreement.</p>		
<p>RECOMMENDED ACTION: Request AJV to provide interim protection; develop options for long term protection.</p>		

1. Parties other than landowner may own partial rights (e.g, timber, minerals).

HABITAT PROTECTION PARCEL ANALYSIS

2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.











KAP 04, 05, 06

HABITAT PROTECTION ACQUISITION PARCELS

Kazakof Bay, Alaska

Scale 1:125,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|-------------------------------------|---|--------------------|
|  | Public (State or Federal) |  | Streams |
|  | Private |  | Anadromous Streams |
|  | Timber Harvest Areas |  | Eagle Nests |
|  | 1993 Projected Timber Harvest Areas |  | Seabird Colonies |
|  | Native Selected | | |
|  | Forest Cover | | |

KAP02 Parcel Number

Date printed: January 28, 1993

SOURCES:
Current and planned timber harvest areas provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources (ADNR), Division of Forestry, 1992.

Land status provided by ADNR, Land Records Information Section, 1989.

Forest cover was determined from SPOT 1991 imagery by Podolsky, 1993.

Eagle and Seabird information collected and provided by US Fish and Wildlife.

Streams were automated by ADNR-LRS from the USGS topographic maps (1:63,300). Anadromous stream classification was determined by the ADF&G, 1991.

FOGNAK
ISLAND

KAP05

KAP06

Kazakof Bay
KAP04

DUC

Cape Kostromitin

DRAFT

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 04		PARCEL NAME: Kazakof Bay	
¹ LANDOWNER: Afognak Joint Venture; Afognak Native Corporation		² PARCEL ACREAGE: 1,500	³ TOTAL ACREAGE: 150,000
			⁴ AFFECTED ACREAGE: 1,400
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Low	No documented anadromous streams on parcels; potential for additional streams being found.	
Bald Eagle	Low	One documented nest site. Feeding and perching along shoreline.	
Black Oystercatcher	Low	Possible feeding in intertidal.	
Common Murre	None		
Harbor Seal	Moderate	Known haul-out concentration near parcel. Feeding in nearshore waters.	
Harlequin Duck	Low	Thirteen birds documented in eastern Kazakof Bay. Potential for nesting on parcels appears low; probable feeding and loafing in intertidal.	
Intertidal/subtidal biota	Moderate	Sheltered rocky intertidal areas, productive shallows, kelp beds.	
Marbled Murrelet	Unknown	Habitat characteristics appear suitable for nesting; feeding in adjacent marine waters.	
Pigeon Guillemot	Low	Thirty four birds documented on nearby Parrot Island. Possible nesting on or near parcels, probable feeding in nearshore area.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 04	PARCEL NAME: Kazakof Bay	
River Otter	Low	Possible feeding and latrine sites on or near parcels.
Sea Otter	Low	Established sea otter population in area; probable feeding in nearshore waters.
Recreation/Tourism	Moderate	Area receives local recreational use from logging camps, Afognak I. lodges/residences, Port Lions and Ouzinkie. Hunting and fishing from Kodiak-based guide operations.
Wilderness	Low	Established logging camps, transfer and storage facilities, roads, recent clearcuts.
Cultural Resources	Moderate	Two archeological sites documented on parcel.
Subsistence	Moderate	Uses include: crabs, marine fish, invertebrates, marine mammals, salmon, elk, trapping, deer.
<p>ECOLOGICAL SIGNIFICANCE: These parcels contain relatively steeply sloping timbered lands bordering a protected rocky shore and productive marine area in Kazakof Bay. The Kazakof Bay area has been extensively disturbed by timber harvest during the past decade.</p>		
<p>ADJACENT LAND MANAGEMENT: Afognak Native Corporation; Afognak Joint Venture; managed primarily for timber harvest and production.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: This parcel is proposed for timber harvest in 1993 as an extension of ongoing timber harvest operations in area.</p>		
<p>PROTECTION OBJECTIVE: 1) Maintain marbled murrelet nesting opportunities; 2) maintain forested shoreline fringe for bald eagles and protection of nearshore habitat.</p>		
<p>USEFUL PROTECTION TOOL(S): Timber acquisition; conservation easement; cooperative management agreement.</p>		

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 04	PARCEL NAME: Kazakof Bay
RECOMMENDED ACTION: Request ANC and AJV to provide interim protection; develop options for long term protection.	

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 05		PARCEL NAME: Big Danger Creek	
LANDOWNER: Afognak Native Corporation		PARCEL ACREAGE: 120	³ TOTAL ACREAGE: 112,000
			⁴ AFFECTED ACREAGE: 120
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Low	One documented pink salmon stream.	
Bald Eagle	Low	No documented nest sites; probable feeding and perching.	
Black Oystercatcher	None		
Common Murre	None		
Harbor Seal	None		
Harlequin Duck	Low	Habitat characteristics appear to have low suitability.	
Intertidal/subtidal biota	None		
Marbled Murrelet	Moderate	Habitat characteristics appear suitable for nesting; feeding in Kazakof Bay.	
Pigeon Guillemot	None		
River Otter	Unknown	Possible feeding and latrine sites.	
Sea Otter	None		
Recreation/Tourism	Low	Known elk winter concentration area.	
Wilderness	Low	Roads, recent clearcuts.	
Cultural Resources	Low	No evidence of archeological sites on parcel.	
Subsistence	Low	Deer, elk, trapping.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 05	PARCEL NAME: Big Danger Creek
ECOLOGICAL SIGNIFICANCE: This parcel contains a remanent forest surrounded by an extensively harvested areas. It is a known elk winter concentration area.	
ADJACENT LAND MANAGEMENT: Afognak Native Corporation; Afognak Joint Venture; area primarily managed for timber harvest and production.	
IMMINENT THREAT/OPPORTUNITY: This area may be harvested in 1993; a Forest Practices Notification has been filed.	
PROTECTION OBJECTIVE: Maintain riparian area and opportunities for marbled murrelet nesting.	
USEFUL PROTECTION TOOL(S): Timber acquisition; conservation easement; cooperative management agreement.	
RECOMMENDED ACTION: Discuss interim protection with ANC; discuss long term protection options; this parcel appears to have a low potential to benefit restoration.	

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

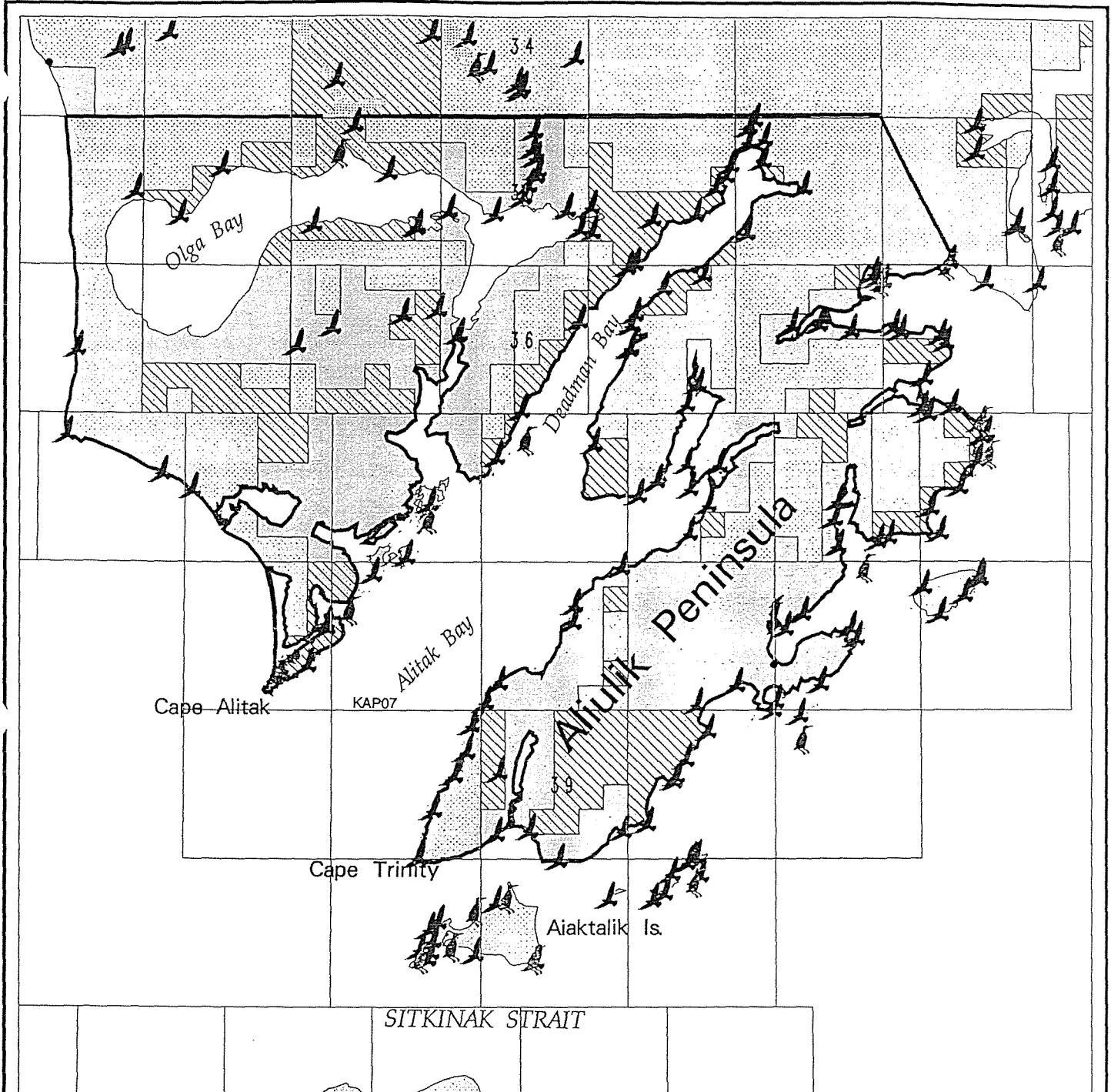
HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 06		PARCEL NAME: Paramanof Creek	
¹ LANDOWNER: Afognak Joint Venture		² PARCEL ACREAGE: 500	³ TOTAL ACREAGE: 150,000
INJURED RESOURCE / SERVICE	POTENTIAL FOR BENEFIT	COMMENT	
Anadromous Fish	Moderate	Two documented anadromous streams; coho, sockeye, pink, Dolly Varden, steelhead.	
Bald Eagle	Low	No documented nest sites; possible nesting, probable feeding and perching.	
Black Oystercatcher	None		
Common Murre	None		
Harbor Seal	None		
Harlequin Duck	Unknown	Possible nesting in riparian zone.	
Intertidal/subtidal biota	None		
Marbled Murrelet	Unknown	Habitat characteristics appear suitable for nesting; feeding in nearby marine waters.	
Pigeon Guillemot	None		
River Otter	Low	Probable feeding and latrine sites; possible denning.	
Sea Otter	None		
Recreation/Tourism	Low	Recreational hunting and fishing; recent road access in vicinity of parcel.	
Wilderness	Low	Roads and recent clearcuts in vicinity.	
Cultural Resources	Low	No evidence of archeological sites on parcel; two sites adjacent.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 06	PARCEL NAME: Paramanof Creek	
Subsistence	Low	Recent road access may increase use.
ECOLOGICAL SIGNIFICANCE: Parcel supports important anadromous fish stream.		
ADJACENT LAND MANAGEMENT: Afognak Native Corporation; extensive recent timber harvest on adjacent lands.		
IMMINENT THREAT/OPPORTUNITY: Parcel is proposed for timber harvest in 1993; extension of current timber harvest operations.		
PROTECTION OBJECTIVE: Maintain anadromous fish habitat and water quality.		
USEFUL PROTECTION TOOL(S): Conservation easement; timber acquisition; cooperative management agreement.		
RECOMMENDED ACTION: Discuss interim protection with ANC; develop long term protection options; parcel appears to have a low potential to benefit restoration.		

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.










HABITAT PROTECTION ACQUISITION PARCELS

Alitak, Alaska

Scale 1:375,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|---------------------------|---|------------------|
|  | Public (State or Federal) |  | Eagle Nests |
|  | Private |  | Seabird Colonies |
|  | Native Selected |  | Parcel Boundary |
|  | Forest Cover | | |

KAP07 Parcel Number

Date printed: January 29, 1993

DRAFT

SOURCES:
Land status provided by ADNR, Land Records Information
Section, 1989.

Eagle and Seabird information collected and provided by
US Fish and Wildlife.

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 07		PARCEL NAME: Alitak Bay	
¹ LANDOWNER: Akhiok-Kaguyak, Inc.		² PARCEL ACREAGE: 230,000	³ TOTAL ACREAGE: 139,000
		⁴ AFFECTED ACREAGE: Unknown	
INJURED RESOURCE / SERVICE POTENTIAL FOR BENEFIT COMMENT			
Anadromous Fish	High	In excess of 100 documented anadromous streams; sockeye, coho, pink, chum, king, Dolly Varden. Olga Lakes ranked among top four sockeye salmon systems in Kodiak Archipelago.	
Bald Eagle	High	Ninety two documented nest sites; concentrated feeding in Upper Station Lakes area.	
Black Oystercatcher	Low	Probable feeding, possible nesting along shoreline; most nearshore rocks and islets in Refuge.	
Common Murre	Low	Probable feeding in adjacent marine waters.	
Harbor Seal	Moderate	Known haul-out concentration area that historically supported large numbers of seals. Feeding in nearshore waters and haul-outs on nearshore rocks.	
Harlequin Duck	Unknown	Probable feeding and loafing along shoreline.	
Intertidal/subtidal biota	Low	Rich intertidal and subtidal biota; recruitment value appears to be low because of distance to oiled shorelines.	
Marbled Murrelet	Low	Possible feeding.	

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 07	PARCEL NAME: Alitak Bay	
Pigeon Guillemot	Moderate	One-hundred four birds documented in area; nesting and feeding along shoreline.
River Otter	Unknown	Probable feeding, possible latrine sites and denning.
Sea Otter	Low	Probable feeding.
Recreation/Tourism	Moderate	Recreational fishing and hunting; moderately difficult access.
Wilderness	Low	Moderate evidence of human development; village, shore fishery cabins, lodges, recreational cabins.
Cultural Resources	Moderate	Seventeen archeological sites documented in the Alitak Bay area.
Subsistence	High	Resource harvest area; crab, marine fish, marine invertebrates, plants, marine mammals, salmon, waterfowl.
<p>ECOLOGICAL SIGNIFICANCE: This parcel contains high value anadromous fish, bald eagle and brown bear habitat adjacent to a highly productive estuary and marine ecosystem; very high brown bear densities around Olga Bay; shoreline was not significantly oiled.</p>		
<p>ADJACENT LAND MANAGEMENT: Kodiak National Wildlife Refuge</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Recreational development (lodges, cabins), fisheries development (year-round residences); Akhiok-Kaguyak has expressed interest in participating in habitat protection/acquisition.</p>		
<p>PROTECTION OBJECTIVE: Maintain anadromous fish habitat, bald eagle nesting opportunities, subsistence resources.</p>		
<p>USEFUL PROTECTION TOOL(S): Fee title acquisition; conservation easement; cooperative management agreement.</p>		

HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 07	PARCEL NAME: Alitak Bay
RECOMMENDED ACTION: Request Akhiok Kaguyak to provide interim protection; discuss long term protection options; appears to have relatively low potential to directly benefit restoration; higher potential for equivalent protection.	











1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated (contains Akhiok-Kaguyak overselections).
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

HABITAT PROTECTION ACQUISITION PARCELS

Perenosa Bay, Alaska

Scale 1:175,000
Albers Equal Area Projection

LEGEND

- | | | | |
|---|---------------------------|---|---------------------|
|  | Public (State or Federal) |  | Eagle Nests |
|  | Private |  | Seabird Colonies |
|  | Native Selected |  | Parcel Boundary |
|  | Forest Cover |  | KAP02 Parcel Number |
|  | Streams | | |
|  | Anadromous Streams | | |

Date printed: January 29, 1993

SOURCES:
Current and planned timber harvest areas provided by Alaska Department of Fish and Game (ADF&G) and Alaska Department of Natural Resources (ADNR), Division of Forestry, 1992.

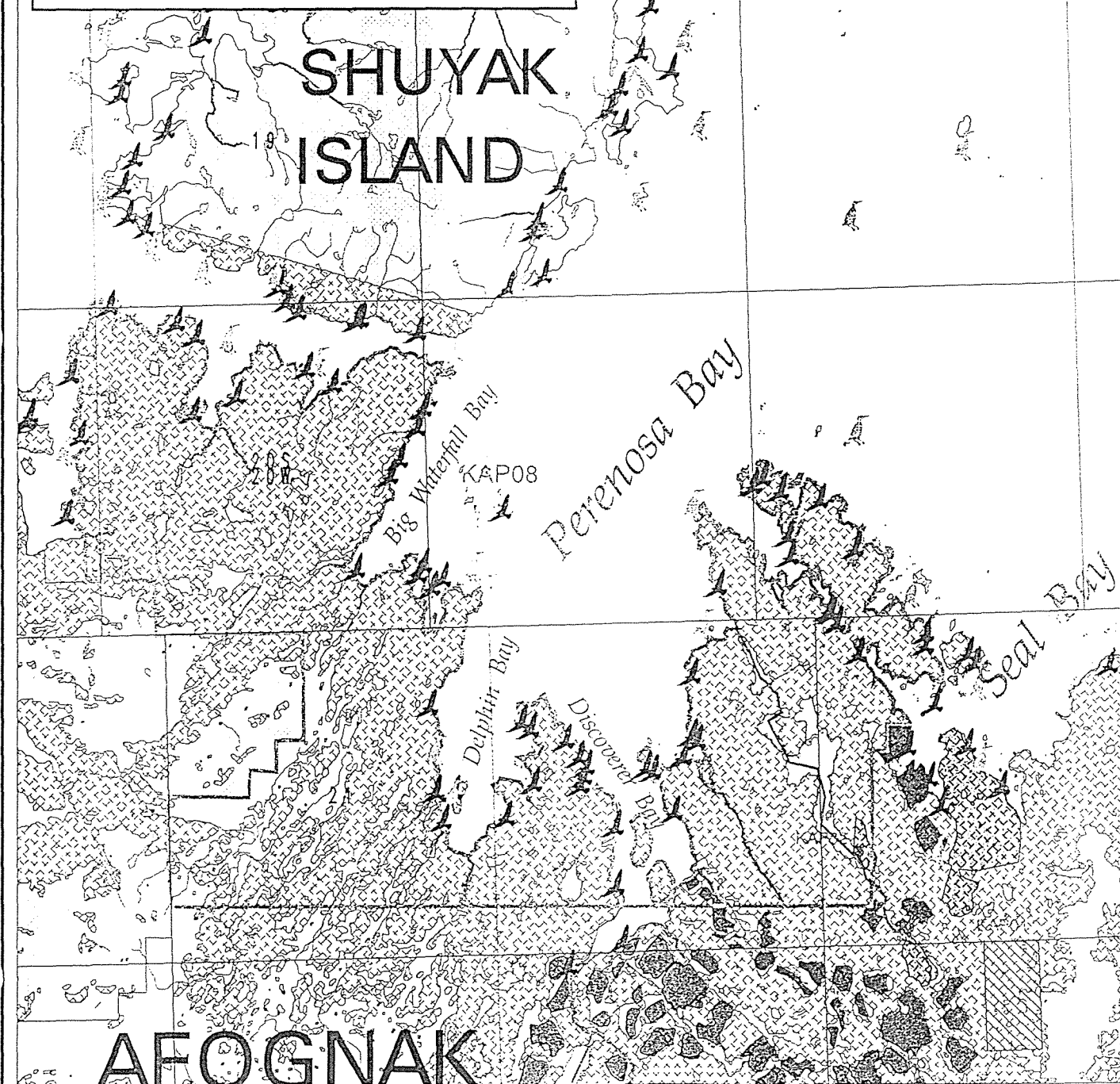
Land status provided by ADNR, Land Records Information Section, 1989.

Forest cover was determined from SPOT 1991 imagery by Podolsky, 1993.

Eagle and Seabird information collected and provided by US Fish and Wildlife.

Streams were automated by ADNR-LRIS from the USGS topographic maps (1:63,300). Anadromous stream classification was determined by the ADF&G, 1991.

DRAFT



HABITAT PROTECTION PARCEL ANALYSIS

PARCEL #: KAP 08		PARCEL NAME: Shuyak Strait / Perenos Bay	
¹ LANDOWNER: Afognak Joint Venture		² PARCEL ACREAGE: 51,000	³ TOTAL ACREAGE: 150,000
			⁴ AFFECTED ACREAGE: Unknown
INJURED RESOURCE / SERVICE POTENTIAL FOR BENEFIT COMMENT			
Anadromous Fish	Moderate	Twenty three documented anadromous streams; pink, coho, Dolly Varden, steelhead, sockeye.	
Bald Eagle	High	Fifty eight documented nest sites; feeding and roosting along shoreline.	
Black Oystercatcher	Moderate	Feeding in intertidal; probable nesting along shoreline and nearshore islets.	
Common Murre	None		
Harbor Seal	Moderate	Historic seal concentration area; feeding in nearshore waters; hauling out on nearshore rocks.	
Harlequin Duck	Moderate	Nearshore rocks and shoreline used for feeding, loafing, and molting; 143 birds documented in area; potential nesting in riparian habitat along anadromous streams.	
Intertidal/subtidal biota	Moderate	Productive rocky intertidal and shallow subtidal habitat; important herring spawning area; some beaches were lightly oiled.	
Marbled Murrelet	High	High confidence that nesting occurs on parcel; good nesting habitat characteristics; high use of adjacent marine waters for feeding.	

HABITAT PROTECTION PARCEL ANALYSIS

Pigeon Guillemot	Moderate	Documented nesting of 214 birds on or immediately adjacent to parcel; feeding in nearshore waters.
River Otter	Moderate	Probable feeding and latrine sites along shoreline; possible denning; habitat characteristics appear highly favorable for river otter.
Sea Otter	Moderate	Documented concentration area; feeding along shoreline.
Recreation/Tourism	Moderate	Area supports high value wilderness-based recreation for boats and lodge; current use relatively low because of difficult access.
Wilderness	High	High wilderness characteristics for most of parcel; log transfer facility in southern Discoverer Bay near parcel; little other evidence of human use or disturbance.
Cultural Resources	Moderate	Twenty six documented sites.
Subsistence	Low	Salmon, deer, elk, marine invertebrates, trapping; difficult access.
<p>ECOLOGICAL SIGNIFICANCE: The parcel is primarily forested with sitka spruce with scattered small ponds, grass meadows, shrub thickets, and muskegs. Adjacent marine waters are highly productive. Shoreline is convoluted and semi-protected with numerous islets, rocks, reefs and kelp beds. In addition to injured species, elk, deer, and brown bear utilize area.</p>		
<p>ADJACENT LAND MANAGEMENT: Kodiak National Wildlife Refuge; Akhiok/Kaguyak/Old Harbor Joint Venture.</p>		
<p>IMMINENT THREAT/OPPORTUNITY: Afognak Native Corporation, a partner in Afognak Joint Venture has expressed interest in participating in habitat protection/acquisition; these lands were selected, in part, for their merchantable timber resources</p>		

HABITAT PROTECTION PARCEL ANALYSIS

PROTECTION OBJECTIVE: 1) Maintain water quality and riparian habitat for anadromous fish; 2) maintain marbled murrelet and bald eagle nesting habitat; 3) maintain and enhance wilderness-based recreational opportunities.

USEFUL PROTECTION TOOL(S): Timber acquisition; fee title acquisition; cooperative management agreement; conservation easement.

RECOMMENDED ACTION: Request AJV to provide interim protection; discuss options for long term protection.

1. Parties other than landowner may own partial rights (e.g., timber, minerals).
2. Area evaluated.
3. Estimated acreage held by the owner in the spill area.
4. Estimated area to be affected by imminent development activity.

SECTION 4

Table 3-1
Summary of Strengths, Limitations, and Requirements of Protection Tools

PROTECTION TOOL	STRENGTHS	LIMITATIONS	REQUIREMENTS
Landowner Contact and Education	<ul style="list-style-type: none"> • Low cost • Covers large area quickly • Prevents destruction through inadvertence • Builds relationship to negotiate stronger levels of protection in the future • Opportunity to gain information about site and owner • Encourages informed management 	<ul style="list-style-type: none"> • Very low level of protection, if any • Interim protection only, if any. 	<ul style="list-style-type: none"> • Identification of strategic sites • Trained fieldworkers with expertise in habitat and recreation and excellent people skills • Stylish brochures, attractive information package • Newsletters • File or database system for reporting information from contacts
Voluntary Agreements: Registration and Cooperative Management Agreements	<ul style="list-style-type: none"> • All advantages of landowner contact and education, above • Flexible • Higher level of protection than landowner contact alone • Can function as holding action while funds for stronger protection level obtained 	<ul style="list-style-type: none"> • Low level of protection, depends entirely on voluntary commitment • Interim protection only • Ill suited for core areas 	<ul style="list-style-type: none"> • Same as above, plus: • Plaque, certificate, or other memorial • Well-drafted sets of voluntary landowner agreement forms • Word processing equipment • Trained negotiators with skills needed to customize forms and create specialized agreements
Rights of First Refusal	<ul style="list-style-type: none"> • Protects against changes in use if current owner decides to sell • Can buy time 	<ul style="list-style-type: none"> • Little warning or time to arrange financing for purchase price • Contingent entirely on owner deciding to sell and terms of actual offer 	<ul style="list-style-type: none"> • Same as fee acquisitions, below
Leases, Licenses, and Management Agreements	<ul style="list-style-type: none"> • Flexible • Allows for active management or restoration short of paying full purchase price • Does not require acquisition • Works well in buffer areas 	<ul style="list-style-type: none"> • Interim protection only • May be ill-suited for core areas 	<ul style="list-style-type: none"> • Experienced negotiators with knowledge and skills in finance, land use, real estate, and law • Experienced land managers with expertise in habitat and recreation • Detailed management plan developed by experts • Experienced attorneys with expertise in real estate law, tax law, estate and family planning law, and environmental/natural resources law • Well-drafted sets of form legal documents • Word processing equipment and other administrative capabilities (teletyping, photocopying, etc.) • Skilled administrative staff • Reliable information about market rents and fees • May need hazardous materials evaluation • Clear policies and procedures for decision making and management

PARCEL EVALUATION REFERENCES

- Alaska Department of Fish & Game, Division of Habitat. 1985. Alaska habitat management guide. Southcentral Region. vol. 1. Life histories and habitat requirements of fish and wildlife -- vol. 2. Distribution, abundance, and human use of fish and wildlife. Alaska Department of Fish & Game, Juneau, Alaska.
- Alaska Department of Fish & Game, Division of Habitat. 1985. Alaska habitat management guide. Southwest Region. vol. 1. Fish and wildlife life histories, habitat requirements, distribution, and abundance -- vol. 2. Human use of fish and wildlife. Alaska Department of Fish & Game, Juneau, Alaska.
- Alaska Department of Fish & Game, Division of Habitat. 1984- (revised annually). An atlas to the catalog of waters important for spawning, rearing or migration of anadromous fishes. Southcentral region, resource management region II. Alaska Department of Fish & Game, Anchorage, Alaska.
- Alaska Department of Fish & Game, Division of Habitat. 1984- (revised annually). An atlas to the catalog of waters important for spawning, rearing or migration of anadromous fishes. Southwestern region, resource management region II. Alaska Department of Fish & Game, Anchorage, Alaska.
- Alaska Department of Natural Resources. Division of Parks. Office of History and Archaeology. 1973- (updated annually). Alaska heritage resource survey index. Alaska Department of Natural Resources, Anchorage, Alaska.
- Alaska Department of Natural Resources. Exxon Valdez Oil Spill Damage Assessment Geoprocessing Group. April, 1990. Shoreline types and oil impacts [map atlas]. Contact: Richard McMahon, Phone: 907-762-2377.
- The Nature Conservancy of Alaska. 1991. Options for identifying and protecting strategic fish and wildlife habitats and recreation sites : a general handbook / prepared for the Alaska Region, U.S. Department of Agriculture, Forest Service ; on behalf of The Exxon Valdez Oil Spill Restoration Planning Work Group. The Nature Conservancy of Alaska, Anchorage, Alaska.
- The Nature Conservancy of Alaska. 1992. Task II Report/ prepared for the USDA, Forest Service, Alaska Region on behalf of the Exxon Valdez Oil Spill Habitat Work Group. 3 vols. The Nature Conservancy of Alaska, Anchorage, Alaska.
- Schroeder, R.F.; Andersen, D.B.; Bosworth, R.; Morris, J.M.; Wright, J.M. 1987. Subsistence in Alaska : arctic, interior, southcentral, southwest, and western regional

References

ADDITION RESOURCES

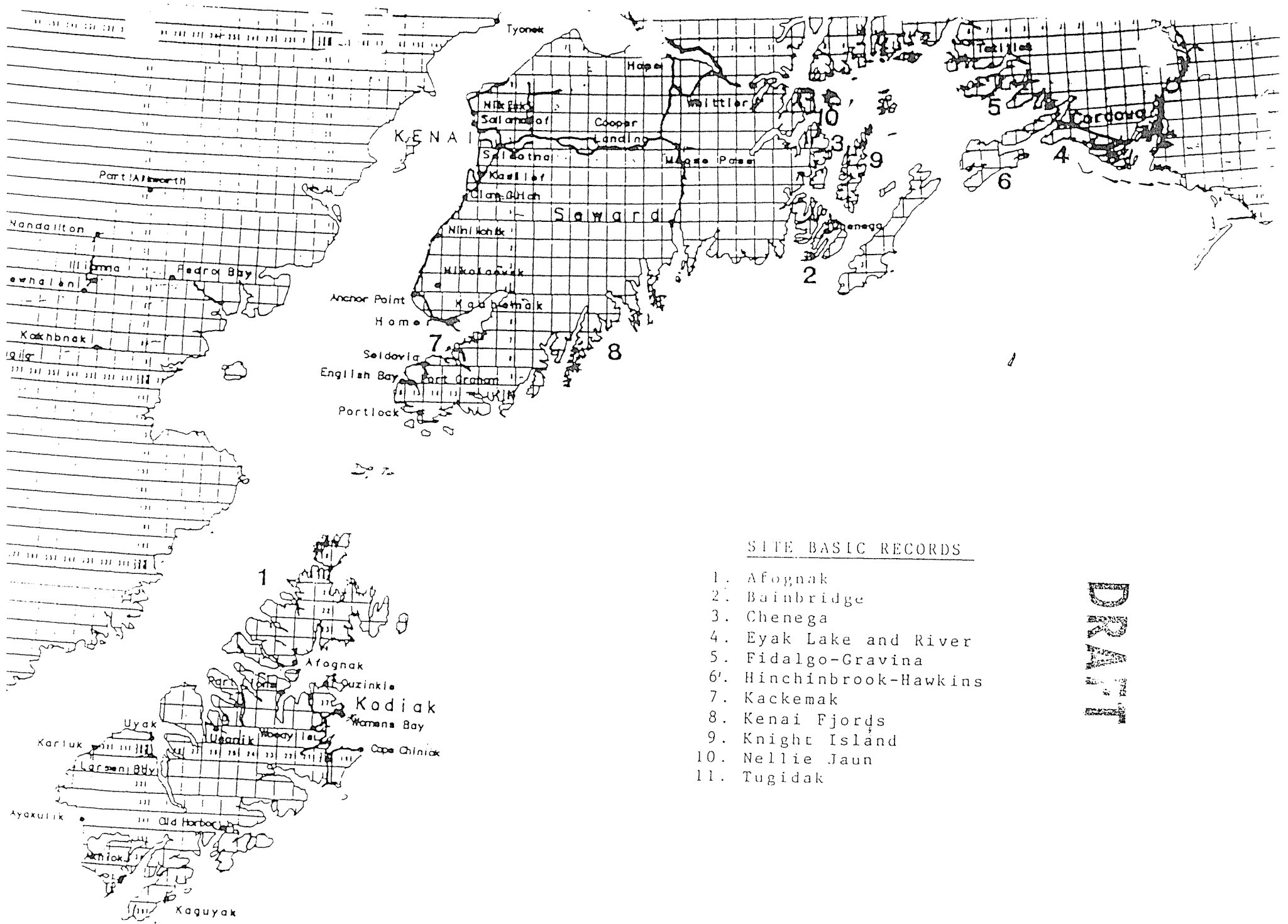
TITLE/DATE	AUTHOR	AREA/SITE
<i>Recreation, Scenic and Heritage Areas of Particular Concern: Kodiak Archipelago/August 1980</i>	Division of Parks, AKDNR Contact: Kathryn A. Troll	Afognak
<i>Recreation, Scenic, and Heritage Areas of Particular Concerns: Cape Pugen to Cape Suckling, Alaska/August 1977</i>	Division of Parks, AKDNR Contact: Al Meiners	Bainbridge Chenega Eyak Lake and River Fidalgo/Gravina Hinchinbrook/Hawkins Island Knight Island Nellie Juan
<i>Prince William Sound Diary</i>	Kelley Weaverling	
<i>Sea Otters of Prince William Sound, Alaska</i>	Ancel M. Johnson	
<i>Prince William Sound Sea Otter Distribution/April 1988</i>	USF&WS	
<i>Subsistence Harvests and Uses in Seven Gulf of Alaska Communities in the Second Year Following the Exxon Valdez Oil Spill/March 1992</i>	James A. Fall	
<i>Resource Use Pattern in Chenega, Western Prince William Sound: Chenega in the 1960's and Chenega Bay 1984-86/December 1986</i>	Lee Stratton and Evelyn B. Chisom	
<i>Cordova: A 1988 Update on Resource Harvests and Uses/June 1992</i>	Lee Stratton	Eyak Lake and River Fidalgo/Gravina Hinchinbrook/Hawkins Island
<i>Resource Use in Cordova, A Coastal Community of Southcentral Alaska/December 1989</i>	Lee Stratton	
<i>Resource Harvest and Use in Tatitlek, Alaska/1990</i>	Lee Stratton	Fidalgo/Gravina, Hinchinbrook/Hawkins Island and Knight Island
<i>Recreation, Scenic and Wilderness Areas of Particular Concern, Cook Inlet, Alaska/July 1978</i>	Division of Parks, AKDNR Contact: Al Meiners	Kachemak Bay
<i>The Role of Wild Resource Use in Communities of the Central Kenai Peninsula and Kachemak Bay/October 1985</i>	Division of Subsistence, ADF&G Contact: Al Meiners	
<i>Patterns of Wild Resource Use in English Bay and Port Graham, AK/1985</i>	Ronald T. Stanek	
<i>Breeding Seabirds at Gull Island and Sixty Foot Rock During 1990</i>	USF&WS, unpublished administrative report, Homer, AK	

RESPONDENT NAME	SPECIES/ SERVICE	Q or I	EXPERTISE TYPE		
			General	EVOS Area	Site Specific
McAllister, Mike Naturalist	Marbled murrelet	Q and I		xx	
McBride, Mike Naturalist		Q and I			Kachemak Bay
McCarron, Susan ADF&G, Anchorage	Cutthroat trout	Q			Prince William Sound
Meiners, Al Division of Parks	Wilderness/Recreation	I		xx	
Million, Marsha Naturalist, Homer	Sea otter	Q			Kachemak Bay
Miraglia, Rita ABF&G, Anchorage	Subsistence	Q and I		xx	
Muehlenhardt, Gary USFWS	U.S.F.W.S. Acquisition Priorities	I	xx		Kodiak
Oakley, Karen USFWS, Anchorage	Pigeon guillemot	Q			Naked Island
Olesiuk, Peter Department of Ocean Fisheries, British Columbia	Pacific harbor seals	Q			N/A
Podolsky, Richard Island Institute, New York	Harlequin duck Marbled murrelet	Q		xx	
Rice, Bud NPS, Anchorage	Wilderness/Recreation	Q and I			Kenai Fjords
Sharr, Sam ADF&G, Cordova	Pink salmon	Q and I			Prince William Sound
Sundberg, Kim ADF&G	Marbled murrelet	I			Prince William Sound

RESPONDENT NAME	SPECIES/ SERVICE	Q or I	EXPERTISE TYPE		
			General	EVOS Area	Site Specific
Fry, Mike University of California, Davis	Marbled murrelet Harlequin duck Pigeon guillemot Bald eagle Common murre Black oystercatcher	Q and I			Kachemak Bay Kenai Fjords
Hamer, Thomas Consultant, Washington State	Marbled murrelet	Q	xx		
Hennig, Steve USFS, Anchorage	Wilderness/Recreation	Q and I			Prince William Sound
Hensel, Dick Consultant, Anchorage		I	xx		Afognak/Kodiak
Holbrook, Ken USFS, Anchorage	Black oystercatcher Cutthroat trout Marbled murrelet Sea otter	Q			Prince William Sound
Johannsen, Neil Division of Parks	Wilderness/Recreation	I		xx	
Juday, Glenn WOFA Fairbanks	Old growth	I			Prince William Sound
Knecht, Rick Kodiak Native Association	Subsistence	I			Afognak/Kodiak
Lemon, Moira British Colombian Biologist	Pigeon guillemot	Q	xx		
Lensik, Cal Consultant	Seabirds - general	I		xx	
Lethcoe, Nancy AWR & TA	Wilderness/Recreation	Q and I			Prince William Sound

APPLICABLE QUESTIONNAIRE/INTERVIEW RESPONSES

RESPONDENT NAME	SPECIES/ SERVICE	Q or I	EXPERTISE TYPE		
			General	EVOS Area	Site Specific
Albert, Steve ADF&G, Anchorage	Species - General	I	xx		Eyak Fidalgo/Gravina Afognak
Andres, Brad USFWS, Anchorage	Black Oystercatcher	Q and I			Montegue Island
Ballachey, Brenda USFWS, Anchorage	Sea otter	Q and I			Prince William Sound
Burger, Alan British Colombian Biologist	Marbled murrelet	Q	xx		
Bowman, Tim USFWS, Juneau	Bald eagle	I			Prince William Sound
Braund, Steve Anchorage Consultant	Subsistence	Q	xx		
Cody, Mary USFWS	Marbled murrelet	Q			Afognak
Dorhoff, Angie USFWS	Sea otter	I		xx	
Erikson, David Consultant, Homer	Common murre Harlequin duck	Q			Kachemak Bay
Faro, Jim ADF&G, Soldotna	River otter	Q and I			
Don Ford/Paul/Twardock National Outdoor Leadership School	Wilderness/Recreation	Q and I			Prince William Sound
Frost, Kathy ADF&G, Fairbanks	Pacific harbor seal	Q and I		xx	



SITE BASIC RECORDS

1. Afognak
2. Bainbridge
3. Chenega
4. Eyak Lake and River
5. Fidalgo-Gravina
6. Hinchinbrook-Hawkins
7. Kachemak
8. Kenai Fjords
9. Knight Island
10. Nellie Jaun
11. Tugidak

DRAFT

Cost-Share Agreement
Task II Report
Page 6

5. *Original Questionnaire, A-K.*
6. *Interview Questionnaire, A-K.*
7. *Cost-Share Agreement/Project 93059 Summary.*
8. *Questionnaire Responses/Interview Notes.*

C. Volume 3

Questionnaire Responses/Interview Notes, continued - L-Z.

within the eleven sites. A minimal amount of information was recorded in the element occurrence record for those areas. Summary tables about these element occurrences are found behind the "Additional EOR" tabs at the end of Volume 1. The term "survey site" on those tables refers to the geographic area where the element occurrence is located.

(c) Maps. This report contains minimal map information. The original mylar overlays upon which this report is based have been delivered to the Habitat Work Group. The Work Group should be contacted with specific requests for map information.

(d) Computer Disks. The WordPerfect tables are contained on a computer disk in the pocket of Volume 1 of the Task II report. The transfer of electronic data base information to the Habitat Working Group will occur once agreement is reached on appropriate software.

(E) Information Gaps. The level of detail associated with the summary element occurrence records and site basic records varies. Accordingly, the records can be effectively used to identify data gaps associated with the element occurrences and larger sites.

3. *Recovery/Habitat Characteristics*. This section contains a summary of responses to questions regarding rate of recovery and habitat characteristics associated with injured species.

B. Volume 2

1. *Respondent Matrix*. Identifies questionnaire and interview participants as well as their species, service and geographic expertise.
2. *Additional Contacts Table*. Identifies other individuals who questionnaire and interview participants recommended contacting.
4. *Literature Sources Table*. Identifies reports recommended by questionnaire and interview participants for review.

doubt about whether or not a specific use is appropriate, the information source should be contacted.

5. Many project participants were concerned about inappropriate use of the mylar overlays. A specific concern was that the mapped information should not be made to look more precise than originally intended.
6. Questionnaire and interview participants were not asked to limit their information to private lands. Accordingly, the results provide an indication of the relative importance of both private and public lands to injured resources and services.

Report Summary

A. Volume 1

1. *Summary Map.* The map provides the identification and approximate location of the eleven sites referenced above.
2. *Data Base Information.* Information is provided in the form of "Site Basic Records" and "Summary Element Occurrence Records." An "element occurrence" (as that term is used in this report) is an area that appears to benefit an injured resource or service. A "site" encompasses several element occurrences.

(a) Site Basic Records. All eleven sites have several associated element occurrences. The site basic records summarize the element occurrence information associated with the site, as well as other information from interview notes and questionnaire responses.

(b) Summary Element Occurrence Records. After an element occurrence was mapped, the respondent was asked specific questions about the mapped area. Some of the information was recorded in the element occurrence record. For reporting purposes, a summary of the element occurrence record was developed. One hundred thirty nine summary records are provided in this report for those occurrences that are associated with the eleven sites.

Ninety two element occurrences are not encompassed

considered an exclusive list of important areas. The acquisition of additional information will undoubtedly result in the delineation of additional areas meriting special attention. Given information acquired as a result of Task II activities, additional efforts should be focused on the Kodiak, Montegue and Shuyak Island areas.

D. Cordova Workshop

In addition to information obtained from questionnaire responses and interviews, the project benefitted from information-sharing activities associated with workshops conducted by The Prince William Sound Science Center and the Copper River Delta Institute in Cordova during the week of November 1, 1992. Cordova workshop discussions included a specific focus on critical habitat areas within the Prince William Sound area. The Conservancy sent representatives to the workshop and contracted with Ecotrust, an Oregon based non-profit conservation organization and workshop participant, to assist in efforts to transfer Cordova mapped information to Task II maps.

More information can be obtained about the Cordova workshop by contacting the Science Center or Institute directly.

E. Considerations

When reviewing and using the report the following should be considered:

1. The information contained in this report represents a reporting of information obtained from the questionnaires and interviews, and should not be considered as an expression of the Conservancy's knowledge of or opinion about a particular site and activities associated with it.
2. Project participation was limited because of severe time constraints. Project participants and others identified additional sources of information that should be reviewed or contacted. Some of the additional sources are identified in this report.
3. Text contained in this report has not been reviewed by questionnaire respondents or interview participants.
4. Some project participants were concerned about inappropriate use of information. If there is

B. Interviews

Individuals identified as having significant site-specific knowledge about injured resources and services were invited to Anchorage to be interviewed. Twenty three interviews were conducted. Fourteen of the interview participants had also responded to the questionnaire.

Three teams interviewed the individuals. Each team was led by a senior Conservancy employee and supported by two technical assistants. A modified questionnaire was developed for the interviews. Interview information was recorded in the following manner:

1. A team transcriber took rough notes during the interview.
2. Each interview was taped.
3. All sites discussed during the interviews were mapped on mylar overlays using USGS base maps at a scale of 1:250,000.
4. Significant site information was entered into a Conservancy data base.

C. Site Identification

The interviews took three days to complete. Based upon an accelerated analysis of the interview information (two days), eleven areas were identified as areas meriting special attention during the interim protection phase of the restoration process. The analysis took numerous factors into consideration, such as the existence of multiple benefits to injured resources and services, existing threats, and confidence levels of the respondents.

The project succeeded in using existing information and expertise to identify areas meriting special attention. The process used to delineate the sites should be considered a "course filter" approach since it is primarily based upon the best professional judgement of project participants. In many cases more "fine filter" work is necessary to determine the site's specific relationship to injured services and resources.

Additionally, the eleven identified areas should not be

Challenge Cost-Share Agreement
between
The Nature Conservancy
and
USDA, Forest Service, Alaska Region
September 25, 1992

Task II Report
December 8, 1992

Cost-Share Agreement

A cost-share agreement provides an effective framework for cooperative efforts between organizations which have certain goals and objectives in common. The Nature Conservancy and the U.S. Forest Service (USFS) have a long history of working cooperatively on projects throughout the United States.

The purpose of the September 25, 1992 agreement was for the Conservancy to provide specific short-term information gathering assistance to the State/Federal Exxon Valdez Habitat Work Group, on which the USFS is represented. It was intended that information gathered about privately owned lands would be used to initiate interim protection discussions with willing land owners.

Task II Objectives

The purpose of Task II was to develop and conduct a workshop "designed to assess the rate of recovery of injured resources and services; identify specific tracts of privately-owned upland habitats that should be subjected to threshold criteria and threat/opportunity assessments; describe habitat characteristics associated with injured resources and services; and identify information needs that should be addressed" by Task 1(b) of the agreement.

The workshop was to be completed and information transferred to the Habitat Work Group by November 16, 1992, about eight weeks from the effective date of agreement. Due to the limited time available, it was necessary for the Conservancy to limit the scope of Task II information gathering activities.

Project Summary

A. Questionnaires

The Conservancy and Habitat Work Group developed a questionnaire designed to gather information necessary to accomplish Task II objectives. The questionnaire was sent to individuals identified as having significant knowledge about the injured resources and services. The Habitat Work Group identified most of the respondents. Of the 45 questionnaires sent out, 27 responses were received.

SECTION 5

SAMPLE

AGREEMENT
STATE OF ALASKA

THIS AGREEMENT OF RIGHT OF FIRST REFUSAL, is made this _____ day of _____, 1993, by and between _____, Grantor, and the United States of America (or State of Alaska), Grantee. In consideration of the sum of Ten Dollars (\$10.00) cash in hand paid, the mutual covenants and assents of the parties hereto, and other good valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the following agreements are made:

1. GRANT OF RIGHT OF FIRST REFUSAL. The Grantor hereby grants to the Grantee the privilege or Right of First Refusal to purchase the Property (as described in Exhibit A hereto), or any portion thereof, or interests therein, according to the following conditions. If and when the Grantor shall receive an offer of purchase for said property, or any portion thereof, or interests therein, from a third party, which said offer the Grantor wishes to accept, Grantor shall notify the Grantee in writing of the terms of said offer. If the Grantee notifies the Grantor, in writing, within ninety (90) days of the receipt of said offer, that the Grantee agrees to purchase said Property upon the same terms and conditions as contained in said offer, the Grantee shall have the right to purchase said property for such terms and conditions. If the Grantor receives no reply to the notice given to the Grantee within ninety (90) days of the receipt thereof by the Grantee, the Grantor shall be free to sell said Property to the original offeror. If the Grantee elects to exercise such right of first refusal, the Grantor and the Grantee shall execute a sales contract within thirty (30) days for said property on the terms and conditions set forth in said written offer, or as otherwise mutually agreed.

2. STUDIES. The Grantee shall have the right to access and conduct non-destructive research on said property during the term of this grant of right of first refusal, in order to better determine the desirability of exercising this right of first refusal. The Grantee will notify the Grantor in writing at least thirty (30) days before conducting any such research on said property. The Grantee will provide Grantor with at least one copy of any final research report that results from such research.

3. RUNNING OF BENEFITS OF THIS AGREEMENT. The Benefits of this grant of right of first refusal are limited to the Grantee, and are not assignable or transferable.

4. CONSTRUCTION. The rule of strict construction does not apply to this grant. The interpretation of this grant shall be

Table 3-1 (Cont'd)
Summary of Strengths, Limitations, and Requirements of Protection Tools

PROTECTION TOOL	STRENGTHS	LIMITATIONS	REQUIREMENTS
Acquisitions of Partial Interests: Water, Timber, Mineral, Grazing Rights and Access Rights	<ul style="list-style-type: none"> • Lower cost way to control resource than full fee acquisition • Keeps title to land in private hands and on the tax rolls 	<ul style="list-style-type: none"> • May not be permanent (e.g., other owners may be able to reapply for rights or rights acquired may be term rights only) • May not completely control use of the resource • Difficult to establish good title in seller 	<ul style="list-style-type: none"> • Same as fee acquisitions, below, plus: • Technical experts, (such as hydrologists and water rights attorneys in the case of water rights acquisitions)
Fee Acquisitions	<ul style="list-style-type: none"> • High level of protection, gives full ownership and control 	<ul style="list-style-type: none"> • Can be expensive if property is not donated • If government owned, public may perceive that property is withdrawn from the private domain and may reduce local tax revenues 	<ul style="list-style-type: none"> • Experienced negotiators with knowledge and skills in finance, land use, real estate and law • Experienced land stewards with expertise in habitat and recreation • Experienced attorneys with expertise in real estate law, tax law, estate and family planning law, and environmental and natural resources law • Well-drafted sets of form legal agreements • Word processing equipment and other administrative capabilities (telecopying, photocopying, etc.) • Skilled administrative staff • Professional specialists (land surveyors, geologists, water quality engineers, appraisers, hazardous waste inspectors, structural engineers, etc.) • Appraisal • Title report and underlying documents • Survey, where needed • Thorough hazardous materials evaluation • Clear policies and procedures for decision making and management
Dedications	<ul style="list-style-type: none"> • High level of protection, privately owned land, especially if title will be retained by a private conservation organization (protects against condemnation or conversion) • Can be flexible by allowing only specific interests to be dedicated 	<ul style="list-style-type: none"> • Uncertain incentives for private owners 	<ul style="list-style-type: none"> • Same as fee acquisitions, above

Table 3-1 (Cont'd)
Summary of Strengths, Limitations, and Requirements of Protection Tools

PROTECTION TOOL	STRENGTHS	LIMITATIONS	REQUIREMENTS
Conservation Easements	<ul style="list-style-type: none"> • Flexible • Usually restricts land use permanently • Keeps property in private hands and on the tax rolls • Can be low cost because of tax incentives to donate • Works well in buffer areas, especially if historic uses are compatible 	<ul style="list-style-type: none"> • May be ill suited for active management or restoration of core areas, unless restrictions on landowner's use are very tight, and rights granted very broad • Possible management difficulties when there is a change in ownership • Requires high level of monitoring 	<ul style="list-style-type: none"> • Experienced negotiators with knowledge and skills in finance, land use, real estate and law • Experienced land stewards with expertise in habitat and recreation • Experienced attorneys with expertise in real estate law, tax law, estate and family planning law, and environmental and natural resources law • Well-drafted sets of form legal agreements • Word processing equipment and other administrative capabilities (teletyping, photocopying, etc.) • Skilled administrative staff • Appraisal • Title report and underlying documents • Survey, where needed • Thorough hazardous materials evaluation • Easement documentation report prepared by experts • Clear policies and procedures for decision making and management
Deed Restrictions and Reverters	<ul style="list-style-type: none"> • Permanent restrictions • Keeps property in private hands and on the tax rolls • May be able to recover costs on resale 	<ul style="list-style-type: none"> • May be difficult to resell to a buyer willing to take subject to the restrictions • May be difficult to enforce 	<ul style="list-style-type: none"> • Same as above
Acquisition of Undivided Interests	<ul style="list-style-type: none"> • Buys "seat at the table" in management decisions • Potential step to full fee ownership • Way to divide ownership among conservation partners making contributions of different value toward purchase 	<ul style="list-style-type: none"> • Can present serious management problems, especially in the absence of a well drafted co-tenancy agreement • Undesirable legal remedies in the event of deadlock 	<ul style="list-style-type: none"> • Same as fee acquisitions, below
Acquisition of Remainder Interests Subject to Restricted Life Estates	<ul style="list-style-type: none"> • Low cost way to gain possession and control in the future 	<ul style="list-style-type: none"> • Uncertain date of transfer of possession (depends on death of last tenant) • Management problems during occupancy of life tenant 	<ul style="list-style-type: none"> • Same as fee acquisitions, below

RPWG
I

**RESOLUTION OF THE
EXXON VALDEZ SETTLEMENT TRUSTEE COUNCIL**

We, the undersigned, duly authorized members of the Exxon Valdez Settlement Trustee Council, after extensive review and after consideration of the views of the public, find as follows:

1. The Seldovia Native Association owns lands within Kachemak Bay State Park ("park inholdings"), consisting of approximately 23,802 acres and more particularly described in Attachment A. These inholdings were selected pursuant to the Alaska Native Claims Settlement Act. The timber rights for the inholdings are held by the Timber Trading Company and the subsurface rights by Cook Inlet Region, Inc. ("CIRI"). The subsurface rights held by CIRI are not entirely coextensive with the surface rights due to minor exchanges between the State and CIRI.

2. The park is within the oil spill affected area and the tidelands adjoining the park inholdings were oiled in 1989.

3. A substantial portion of the park inholdings are threatened with imminent clearcut logging. Permit applications are pending for the logging of 5900 acres. Additional acreage is also subject to the threat of logging. The majority of threatened lands are coastal lands surrounding China Poot and Neptune Bays with smaller parcels at the head of Sadie Cove. Logging may commence on these lands during the 1993 season.

4. The park inholdings provide exceptional services to recreational users. Much of the recreational use is concentrated on or adjacent to the park's near shore waters and tidelands including areas which were oiled in 1989. Activities include pleasure boating, sport fishing for silver, pink and sockeye salmon, winter king salmon fishing, recreational dipnetting, clam digging, shrimping, kayaking, crabbing, beachcombing, photography, hiking, mountain bike riding, and wildlife observation. Logging would further impact these services.

5. The park inholdings include important habitat for several species of wildlife for which significant injury has been documented. There is substantial evidence that the park inholdings at Neptune and China Poot Bays are particularly important marbled murrelet nesting areas. The extent to which marbled murrelets are naturally recovering is unknown. Harlequin ducks, a species which continues to suffer injury, nest and forage in the China Poot drainage. Logging would directly effect these activities and hence rehabilitation of these two species. Restoration of black oyster catchers and river otters, which use shore lines adjacent to uplands slated for logging, would be impacted by logging. Harbor seal haul outs, numerous archeological sites, anadromous fish streams and intertidal and subtidal biota are all found in

substantial quantity in the threatened areas and would be impacted. Sea otters in China Poot Bay may be impacted by the increased logging activity. A murre colony on Gull Island which is immediately offshore from the timber harvest area will likely be impacted by the increased disturbance that attends any logging operation. Murres and sea otters were injured by the oil spill and do not yet appear to be recovering.

6. Existing laws and regulations, including but not limited to the Alaska Forest Practices Act, the Clean Water Act, the Alaska Coastal Management Act, the Bald Eagle Protection Act and the Marine Mammals Protection Act, are intended, under normal circumstances, to protect resources from serious adverse affects from logging and other developmental activities. However, restoration, replacement and enhancement of resources injured by the EXXON VALDEZ oil spill present a unique situation. Without passing on the adequacy or inadequacy of existing law and regulation to protect resources, biologists, scientists and other resource specialists agree that, in their best professional judgment, protection of habitat in the spill affected area to levels above and beyond that provided by existing law and regulation will likely have a beneficial affect on recovery of injured resources and lost or diminished services.

7. There has been widespread public support for the acquisition of the park inholdings.

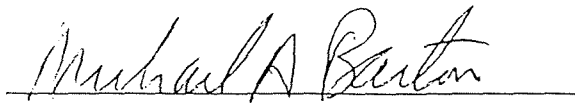
8. The purchase of the park inholdings is an appropriate means to restore injured resources and services in the Kachemak Bay region.

9. Approximately 7,500 acres of land, identified by an underlined marking on Attachment A, have been specifically identified as having both high natural resource or service values and as being immediately threatened with logging. This acreage has an estimated value of approximately \$7,500,000 to \$8,400,000.

THEREFORE, we request the Attorney General of the State of Alaska and the Assistant Attorney General of the Environmental and Natural Resources Division of the United States Department of Justice to petition the United States District Court for the District of Alaska for withdrawal of the sum of \$7,500,000 from the EXXON VALDEZ Oil Spill Settlement Account ("Exxon Settlement Account") established in the Court Registry Investment System as a result of the governments' settlement with the Exxon companies. These funds shall be paid into the Alyeska Settlement Fund established by the State of Alaska as required in the Alyeska Settlement Agreement, and, together with the interest thereon, used to purchase fee simple title to the park inholdings. Title to the land shall be granted to the State of Alaska for inclusion of the lands in the Kachemak Bay State Park. The use of these funds is conditioned as follows: (1) the purchase must be completed by December 31, 1993; (2) the total purchase price may not exceed \$22,000,000; and (3)

the park inholdings must be purchased in fee simple title including all timber and all subsurface rights. If any of these conditions is not met the funds shall be returned, together with accrued interest, to the Exxon Settlement Account.

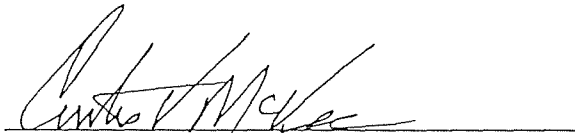
Dated this 11th Day of December, 1992 at Anchorage, Alaska.



MICHAEL A. BARTON
Regional Forester
Alaska Region
USDA Forest Service



CHARLES E. COLE
Attorney General
State of Alaska



CURTIS V. MCVEE
Special Assistant to the
Secretary
U.S. Department of the Interior



STEVEN PENNOYER
Director, Alaska Region
National Marine
Fisheries Service



CARL L. ROSIER
Commissioner
Alaska Department of
Fish and Game



JOHN A. SANDOR
Commissioner
Alaska Department of
Environmental Conservation

ATTACHMENT A

SNA LANDS TO BE ACQUIRED BY STATE

* All land described below is within Seward Meridian and is identified in BLM Interim Conveyances 139, 304, 372

<u>Parcel</u>	<u>Legal Description</u>	<u>Approximate Acreage</u>
1	Township 7 South, Range 12 West	
A.	Sec. 13 (fractional): W 1/2 NE 1/4 NW 1/4 NE 1/4, SE 1/4 NW 1/4 NE 1/4, W 1/2 NW 1/4 NE 1/4, S 1/2 NE 1/4 NW 1/4, S 1/2	575
B.	<u>Sections 22 (fractional): excluding Lot 1 of USS 3606</u>	370
C.	<u>Section 29: excluding USS 4738, ADL 41084-41085 located in NW 1/4 SW 1/4</u>	410
D.	<u>Section 30: excluding USS 3912, USS 3977 Tracts A, C, D, ASLS 76-114, ADL 41704, located in SW 1/4 SW 1/4</u>	408
E.	<u>Sections 19 (fractional), 20 (fractional), 21 (fractional), 23 (fractional), 24 (fractional), 25 (fractional), 27 (fractional), 28, 31, 32, 33, 34, 35: All</u>	6,049
F.	Section 27 (fractional), 26, 36: All	1,580
2	Township 8 South, Range 12 West	
A.	Sections 1, 2, 3, 4, 7, (fractional), 8 (fractional) 9, 10, 11, 12, 13, 14, 15, 22, 23, 24, 25, 26, 27, 28: All	12,385
B.	Section 5 (fractional): excluding ADL 49431 located in the W 1/2 W 1/2 SW 1/4	615
C.	Section 6 (fractional): excluding ADL 48787 and ADL 49431 located in the E 1/2 SW 1/4; ADL 46149, ADL 46150, ADL 46151, ADL 46152, ADL 46153, and ADL 46650 located in the N 1/2, SE 1/4; and ADL 41043 located in the SW 1/4 NE 1/4 and NW 1/4 SE 1/4	300
D.	Section 16 (fractional): excluding ADL 46773 located in the SW 1/4 SW 1/4	615
E.	Section 21 (fractional): excluding ADL 47665 located in the SW 1/4 NW 1/4, ADL 41036 located in the N 1/2 SW 1/4, ADL 41300 located in the S 1/2 SW 1/4	495
	Cumulative Total	23,802

RPWG
I

Restoration Planning Working Group

EXXON VALDEZ OIL SPILL RESTORATION OFFICE

645 "G" Street

Anchorage, Alaska 99501

TO: Restoration Team

DATE: December 17, 1992

FROM: Carol Gorbics and Bob Loeffler
For RPWG

TELE: 278-8012

FAX: 276-7178

SUBJECT: Defining the EVOS Area

PROPOSED EVOS AREA. The Restoration Plan uses "within the EVOS Area" as a variable in the alternatives, and we must define it. Some alternatives focus restoration options on the EVOS areas, and some allow a wider application (assuming that the option is linked to injury).

We propose that the oil spill area be that area defined on the enclosed map (a larger-scale map is available in the RPWG room). We defined the area to encompass the affected ecosystems, not just affected beaches, and the human use areas of affected services such as subsistence, commercial fishing, recreation, tourism, and wilderness. Specifically, it includes the following areas:

1. The area enclosed by the maximum extent of oiled shorelines plus adjacent uplands to the watershed divide, including all of Prince William Sound. This area includes the important use areas of injured resources and damaged services that are in and directly adjacent to the spill area except for some of the fisheries injuries that is captured in Criterion #3.
2. Areas of immediate human use for severely affected communities on the edge of the spill area: Cordova, Valdez, Whittier, Seward, and Homer. Other communities, such as Kodiak, Chenega Bay, or Tatitlek, are entirely within the spill area and their important human use areas are included under Criterion #1.
3. The fishing resources of the Central Cook Inlet Salmon District including those of Kenai and Kasilof Rivers. Important sport-fish and commercial fisheries resources and services were injured in Cook Inlet. This injury is north of the maximum extent of oiled shorelines near Homer. The area of this injury is captured in this criterion.

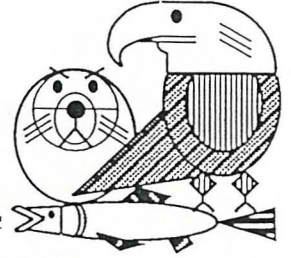
WHERE IS OUTSIDE THE EVOS AREA? Outside the EVOS Area means anywhere within the State of Alaska as long as the funds are used for restoration of an oil-spill injury. In addition, funds can be used outside the State of Alaska if the Trustees determine by unanimous consent, "that spending funds outside of the State of Alaska is necessary for the effective restoration, replacement or acquisition of equivalent natural resources injured in Alaska and services provided by such resources" (from the Memorandum of Agreement, Page 14).

COMMENTS DUE FRIDAY JANUARY 9TH. If you have comments on the area, please get them to Bob Loeffler or Carol Gorbics by that date.

PPWG
I

Exxon Valdez Oil Spill Trustee Council

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



February 3, 1993

TO: Trustee Council

FROM: Dave R. Gibbons *DRG*
Interim Administrative Director

SUBJECT: Prince William Sound Recreation

At the January 20, 1993 Trustee Council meeting, the Alaska Department of Environmental Conservation and U.S. Forest Service representatives to the Restoration Team were directed to develop, for the February 16 Trustee Council meeting, a proposal for implementing recreation restoration options identified for inclusion in the Draft Restoration Plan.

Enclosed is the Restoration Team's proposal for developing recreation project proposals for inclusion in the Draft 1994 Work Plan and beyond.

PRINCE WILLIAM SOUND RECREATION

INTRODUCTION

Prince William Sound, the site of the Exxon Valdez oil spill, is surrounded by the Chugach National Forest. There are seven Alaska State Marine Parks, six proposed marine parks and large tracks of private land, primarily in native ownership within the sound. Prince William Sound offers numerous recreation opportunities, ranging from ocean touring kayaks to large cruise ships. The western part of Prince William Sound lies within the congressionally designated Nellie Juan and College Fiord Wilderness Study Areas and is administered by the Forest Service for its wilderness values.

Both the Chugach National Forest Land Management Plan and the Prince William Sound Area Plan for State Lands emphasize recreation uses within Prince William Sound. Private landowners are also interested in developing recreation opportunities on their lands.

Immediately after the oil spill use by both commercial and non-commercial recreation use decreased. While there is no studies documenting continued reduced levels of recreation use, public perceptions remain that the area has been changed and some tour operators indicate their business has still not returned to pre-spill levels.

WHAT

A small group of recreation experts will be formed to work with the Restoration Team to provide advice and information to the Trustee Council on:

1. Development of an integrated approach for implementing restoration options for recreation in Prince William Sound.

There is an obvious conflict between user groups on the development of any recreation facilities or opportunities that has become apparent in reviewing public input into the development of recreation options for the Restoration Plan. Reaching consensus amongst user groups on appropriate projects and locations is central to this goal. A similar approach to dealing with recreation restoration options for the rest of the oil spill area may be appropriate at a later date.

2. Evaluate recreation management in the Sound to emphasize the world class recreation opportunities available which may include State and/or Federal special recreation designation.

Task 1 objectives:

1. Assemble and evaluate current information and public comment on the recreation opportunities in Prince William Sound.
2. Coordinate opportunities for recreation development with the various public and private land managers, recreation service providers and users in Prince William Sound and build consensus for implementing restoration options.
3. Develop integrated recreation project proposals for FY 1994 and beyond.

Task 2 objectives:

1. Identify the steps and/or procedures for state and federal special designations for any or all of Prince William Sound.
2. Develop goals and objectives for the long term management of Prince William Sound.

HOW

Recreation specialists and planners with site specific knowledge about Prince William Sound will review information collected on recreation as part of the Draft Restoration Plan and other sources. Working with landowners and commercial and non-commercial recreation user groups they will develop an implementation program for recreation restoration. Specific proposals for implementing the restoration options identified in the Draft Restoration Plan will be developed.

A major part of the work will be in developing a consensus amongst recreation users on the best way to implement restoration options. This will involve working directly with user groups. Some of the work will involve travel to local communities to get participation and agreement from the users.

Task 2 will consist of reviewing agency procedures to outline the steps for carrying out a special area designation for Prince William Sound, should the Trustee Council decide to implement this option.

ENVIRONMENTAL COMPLIANCE

This project is categorically exempt from formal documentation in an Environmental Assessment or Environmental Impact Statement under Forest Service regulations [FSH 1909.15 31.1a(3)].

WHEN

Task 1 will be completed in coordination with the 1994 Work Plan. Task 2 will be completed by September 30, 1993.

BUDGET (\$K)

	USFS	ADNR	TOTAL
Personnel	\$ 27.6	\$ 20.0	\$ 42.6
Travel	6.0	3.0	9.0
Contractual	4.0	2.0	0.0
Commodities	1.0	1.0	2.0
Equipment	0.0	0.0	0.0
Sub Total	\$ 38.6	\$ 26.0	\$ 53.6
General Admin	4.1	3.0	5.7
Project Total	\$ 42.7	\$ 29.3	\$ 71.0

PPW6
I



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Office of Oil Spill Damage
Assessment and Restoration
P.O. Box 210029
Auke Bay, Alaska 99821

June 9, 1993

Dr. Eli Reinharz
Damage Assessment
Regulations Team
Office of General Council
United States Department of Commerce
National Oceanic and Atmospheric Administration
Washington D.C 20230

Dear Eli:

Thank you for the opportunity to review a copy of the Restoration Guidance Document. This was a long overdue undertaking and will result in a significant contribution. I regret that I was unable to comment earlier; I have been consumed with the task of preparing a restoration plan for the *Exxon Valdez* Oil Spill Trustees. Hopefully my comments are not too late and will be of some help.

In my review, I have necessarily focused on elements of the Restoration Guidance Document dealing with the *Exxon Valdez* oil spill, or elements where I have experience and interest (damage assessment, restoration science, environmental planning).

Enclosed, also please find two copies of our latest product: Summary of Alternatives for Public Comment. Perhaps Debbie French could have one of the copies. We are now in a public comment period, after which the Trustees will select a "preferred alternative." We then will prepare the Draft Restoration Plan and issue simultaneously the Draft Environmental Impact Statement. We are still hopeful of issuing the Final Restoration Plan in February 1994.

General Comments:

This is a generally well-written, carefully worded, well conceived and complete review of the state-of-the-art of restoration for injured natural resources. My only concern is that the document does not address restoration of reduced or lost human uses (services) in any degree of detail. It is the position of the *Exxon Valdez* Oil Spill Trustees that settlement funds also be used to restore reduced or lost services provided by such natural resources. Accordingly, we have spend a significant amount of time developing restoration options for



reduced or lost subsistence use, commercial fishing, recreation (including sport fishing, sport hunting, camping and boating) and commercial tourism opportunities. It was the Trustee's assumption that you could not always restore reduced or lost services by only addressing restoration of the resource upon which the service depends. Subsistence is a particularly relevant example; you need to restore confidence (of the subsistence user) in the safety of subsistence resources as well as restoring the subsistence resource itself. In this case, we have attempted to increase confidence by testing subsistence resources for residual hydrocarbon content.

From a purely editorial perspective, there is some need for cleanup, but I am generally pleased with how the information is organized and presented. You might give some thought to including a reference list at the end of each major section, rather than opting to place the cited literature at the end of the document.

Specific Comments:

1) **Table of Contents**

The **Table of Contents** is inaccurate. For example, according to **Section 2.3.5** should start on page 2-168. It does not; it begins on page 2-188.

2) **Section 2.3.4.3.4. Option D - Modification to Management Practices (Birds).**

Perhaps you also could consider modification of fishing gear (gill nets) or fishing times to better protect diving sea birds such as marbled murrelets. This could be voluntary. A significant number of marine birds are killed each year in fishing nets.

3) **Section 2.3.5.3.4. Option D - Modification to Management Practices (Mammals).**

We are also considering a voluntary use of different fishing gear for black cod and possibly other species (Pacific cod, halibut) in Prince William Sound where the injured AB pod of killer whales are found. Perhaps using pot gear (pot gear used in British Columbia and Washington waters) in lieu of long-line will decrease the number of fishery interactions with AB pod. The AB pod has historically raided long-lines in Prince William Sound.

4) **Section 3.2.6.3.1. Case Histories.**

Regarding the *Arco Anchorage*, I seem to remember that longer term monitoring at Port Angeles Harbor was undertaken by Blaylock

and Houghton. Perhaps they did not estimate recovery times for intertidal communities.

5) Section 3.3.2.1. Natural Recovery.

Regarding the Baker et al (1990), the article also fails to mention that herring can be affected by oil spills that occur in near coastal habitat, particularly during spawning. Herring spawn both in the intertidal and in the shallow subtidal zone. In the case of the *Exxon Valdez* oil spill, although none of the herring spawning areas were heavily oiled, over 40% of areas used by herring to stage, spawn or deposit eggs, and 90% of the areas used for summer rearing were lightly to moderately oiled. Oiled spawning areas included portions of Naked and Montague Islands. While the impact on herring in Prince William Sound is still being assessed, herring are clearly vulnerable to the affects of spills in near-coastal areas.

6) Section 3.3.2.8 Evaluation of Options.

Regarding the checklist and specifically Number 6 that indicates that "genetic damage to salmon eggs and fry was detected during the *Exxon Valdez* oil spill and could reduce productivity and fitness for many years." The suggestion that there is evidence of genetic damage is highly speculative. To date, there is no documentation of this type of injury attributable to the oil spill. It is true, however, that hatchery pink salmon wander into and spawn in wild pink salmon streams. While this has the potential to alter genetic diversity, the implications for survival of wild pink salmon in Prince William Sound are not known.

7) Section 3.2.10 Monitoring of Habitat Recovery

You might review the concepts for design and implementation of monitoring programs presented in the National Research Council's (NRC) recent publication Managing Troubled Waters: The Role of Maine Environmental Monitoring. This is a 1990 publication and can be obtained from the National Academy Press. We are generally following their approach in the design of the Trustee's recovery monitoring program. You might consider recognizing the NRC approach in your document.

8) Section 3.3.5.1.5. Effects of Oil Spills on Marine Mammal Populations.

Regarding injury to harbor seals following the *Exxon Valdez* oil spill, many seals were directly oiled and an estimated 345 were killed. There was a greater decline in population indices in oiled areas compared to unoiled areas in Prince William Sound in 1989 and 1990. This population was declining prior to the spill

and no recovery was evident in 1992. Oil residues found in seal bile were five to six times higher in oiled areas compared with unoiled areas.

For killer whales, 13 adult whales of 36 in AB pod are missing and presumed dead. The AB pod has grown by two individuals since 1990. Some experts believe that circumstantial evidence links the loss of 13 whales to the oil spill; other experts think the deaths are unrelated to the oil spill.

An estimated 3500 to 5500 sea otters were killed by the oil spill. Post-spill surveys showed measurable differences in populations and survival between oiled and unoiled areas in 1989, 1990, and 1991. Survey data have not established a significant recovery trend. Dead prime-age animals were still found on beaches in 1990 and 1991 suggesting continuing effects.

9) **Section 5.1.1 Quantification of Recovery.**

While I like this approach (particularly for concentrations of residual oil in the environment), will there always be enough data to establish rates of natural recovery for habitat and resource populations? I think not; this was the problem encountered in the *Exxon Valdez* oil spill. My only point is that the calculations are only as good as the input data. In practice, the input data can be very sparse as was the case in the *Exxon Valdez* oil spill, and there is significant uncertainty associated with our estimates of recovery, both for natural and assisted recovery. Perhaps you need to address uncertainty in the description of your approach.

10) **Section 6.1.1 Oil Spills.**

Your summary of the *Exxon Valdez* spill history and restoration planning process is an accurate representation. I have enclosed a copy of the "next step" for your potential use; you might review this material for possible use in updating this case history.

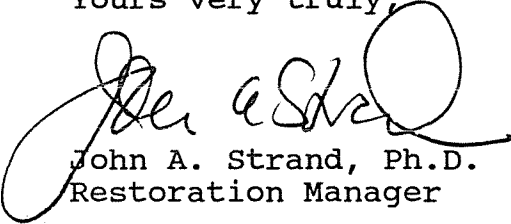
11) **Section 7.0 References.**

There is a need to verify the reference list. For example, you have included two citations for the *Exxon Valdez Oil Spill Restoration Volume I. Restoration Framework*. You also do not always use a consistent format for each citation. For example, you have not included the title for Foster's 1990 article on the impacts of cleanup on intertidal communities appearing in *Northwest Environmental Journal* 6: 105-120. While you should consult the relevant "style manual," I don't believe you should include personal communications in the reference list; rather,

they are dealt with in the text either in parentheses or by a footnote.

Again, thank you for the opportunity to offer comment. Best of luck.

Yours very truly,



John A. Strand, Ph.D.
Restoration Manager

Enclosure

cc: Byron Morris
RPWG

RPWG
I

RESTORATION PLANNING WORKING GROUP
EXXON VALDEZ OIL SPILL OFFICE
645 "G" STREET
ANCHORAGE, ALASKA 99501

MEMORANDUM

TO: RPWG

DATE: 4/1/93

FROM: V. Gilbert

RE: Draft memo to HPWG

Here is the draft memo to HPWG. At our last meeting this was assigned to Mark Kuwada and me. Please review, and send me comments by April 8.

Thanks.

RESTORATION PLANNING WORK GROUP
EXXON VALDEZ OIL SPILL OFFICE
645 "G" STREET
ANCHORAGE, ALASKA 99501

MEMORANDUM

TO: Marty Rutherford
HPWG

DATE: April 1, 1993

FROM: Veronica Gilbert
Mark Kuwada
For RPWG

SUBJECT: Suggestions on Habitat Protection Process

DRAFT

You asked RPWG for suggestions regarding the comprehensive habitat protection process. Until a final plan is approved this fall, we suggest that the habitat evaluation process accommodate Alternatives 2 through 5. Specific suggestions are presented below by issues considered in constructing the alternatives.

1. **Injuries Addressed:** Rank parcels twice, once for all injured resources and services and again excluding resources whose populations did not decline because of the spill. The latter would entail excluding river otter, bald eagle and, among anadromous fish, pink salmon, cutthroat trout, and Dolly Varden. The challenge might come in separating anadromous fish data by type.
2. **Resource Recovery:** This issue would not affect the initial screening of parcels, but would probably affect the type of protection mechanism employed. None of the injured resources or services has recovered. However, bald eagle are expected to recover in 1993-1995.
3. **Effectiveness:** Alternatives 3 and 4 require that restoration actions produce substantial improvement over natural recovery. Natural recovery times incorporate the effects of expected activities, such as logging or subdivisions. If the restoration plan applies this requirement to habitat protection, HPWG would have to figure out what that means for the comprehensive process. From its interviews with peer reviewers, RPWG concluded that habitat protection is likely to produce substantial improvement over natural recovery for only harlequin duck, marbled murrelet, bald eagle, cutthroat trout, Dolly Varden, recreation, and wilderness. A notable exception is pink salmon, excluded largely because they tend to spawn intertidally, at least in Prince William Sound. We suggest that HPWG figure out a measure of effectiveness appropriate to habitat protection. The definition of "substantial" will probably be different for habitat protection actions than direct restoration actions. However,

there may be similarities in the criteria that are the foundation for these determinations, e.g., that improvement be measurable.

4. **Location:** This is a potentially huge factor in the habitat protection analysis. The alternatives address only two aspects of location -- within the spill area or outside it. Alternatives 2 and 3 are limited to the spill area; Alternatives 4 and 5 are not. The questions in the brochure also ask whether restoration actions outside the spill area should occur outside Alaska. We suggest that HPWG consider all sites linked to injured resources and services, whether or not they are within the spill area, at least until the final restoration plan is approved.
5. **Opportunities for Human Use:** Habitat protection can be used in a significant way to protect and create opportunities for human use. The challenge will be how to define injury and implement a response proportional to resource recovery needs.

The brochure asks about emphasis, i.e., on resource habitat, on human use areas, or equal emphasis on both. Public opinion on this issue may influence the ranking system. The interim protection process assumed an emphasis on resource habitat (11 of 15 factors pertain to resource habitat and each factor appears to receive equal weight, even though the values assigned to them are weighted differently -- $H=1$, $M=\frac{1}{2}$). Preserving a clear record of the ratings for each parcel by resource or service, as was done in the interim process, is probably sufficient to accommodate a subsequent change in emphasis should that result from the planning process.

We presume that habitat protection would not be financed through an endowment. However, the brochure opens the possibility of support for an endowment for habitat protection. If the final plan includes an endowment for habitat protection, HPWG should be prepared to address how the proceeds of the endowment would be best spent, e.g., perpetual enhancement, management funds, etc.

RPWG has discussed the merits of developing a package of restoration actions, including habitat protection, for each injured resource or service. For example, the package for recreation might include construction of certain types of public recreation facilities in certain locations, support for specific cooperative management efforts, fee title acquisition of certain large parcels, and easements on particular important campsites or access points. These packages would be a useful way of reassessing candidate lands from a different perspective. Any such effort should be a collaborative effort between RPWG and HPWG. We would not be able to work on this project until after the draft plan is written, so it could be considered for the final plan.

We will probably have more suggestions after public meetings and again in August, when the public comment period on the restoration plan closes.

cc: RPWG

We suggest that HPWG figure out a measure of effectiveness appropriate to habitat protection. The definition of "substantial" will probably be different for habitat protection actions than direct restoration actions. This may entail evaluations based on localized improvements due to purchase of individual parcels instead of improvements to overall populations. However, there may be similarities in the criteria that are the foundation for these determinations, e.g., that improvement be measurable.

4. **Location:** This is a potentially huge factor in the habitat protection analysis. The alternatives address only two aspects of location -- within the spill area or outside it. Alternatives 2 and 3 are limited to the spill area; Alternatives 4 and 5 are not. The questions in the brochure also ask whether restoration actions outside the spill area should occur outside Alaska. We suggest that HPWG consider all sites linked to injured resources and services, whether or not they are within the spill area, at least until the final restoration plan is approved.
5. **Opportunities for Human Use:** Habitat protection can be used in a significant way to protect and create opportunities for human use. The challenge will be how to define injury to human use and implement a response proportional to resource recovery needs.

The brochure asks about emphasis, i.e., on resource habitat, on human use areas, or equal emphasis on both. Public opinion on this issue may influence the ranking system. The interim protection process assumed an emphasis on resource habitat (11 of 15 factors pertain to resource habitat and each factor appears to receive equal weight, even though the values assigned to them are weighted differently -- H=1, M=1/2). Preserving a clear record of the ratings for each parcel by resource or service, as was done in the interim process, is probably sufficient to accommodate a subsequent change in emphasis should that result from the planning process.

We presume that habitat protection would not be financed through an endowment. However, the brochure opens the possibility of support for an endowment for habitat protection. If the final plan includes an endowment for habitat protection, HPWG should be prepared to address how the proceeds of the endowment would be best spent, e.g., perpetual enhancement, management funds, etc.

RPWG has discussed the merits of developing a package of restoration actions, including habitat protection, for each injured resource or service. For example, the package for recreation might include construction of certain types of public recreation facilities in certain locations, support for specific cooperative management efforts, fee title acquisition of certain large parcels, and easements on particular important campsites or access points. These packages would be a useful way of reassessing candidate lands from a different perspective. Any such effort should be a collaborative effort between RPWG and HPWG. We would not be able to work on this project until after the draft plan is written, so it could be considered for the final plan.

We will probably have more suggestions after public meetings and again in August, when the public comment period on the restoration plan closes.

cc: RPWG

RAW

DRAFT

EXXON VALDEZ OIL SPILL RESTORATION OPTIONS - PRELIMINARY COST ESTIMATES

DRAFT - 12/21/92

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	2	Option	DESCRIPTION	UNIT	ANNUAL COST			DURATION			TOTAL COST [No Endowment]			TOTAL COST [With Endowment]			Framework	
					Exp	Lower	Upper	Type	Years			10-Year Maximum			Exp. Lower Upper			
3								Exp	Lower	Upper	Exp	Lower	Upper	Exp.	Lower	Upper		
4																		
5	1.10	Site stewardship program.	Per 3 areas.	195.0	195.0	195.0	Ongoing	10	10	10	1950.0	1950.0	1950.0	*	6961.5	6961.5	6961.5	MH
6																		
7	2.10	Fish management plans-pink salmon.		4043.0	4043.0	4043.0	Limited	4	4	4	16172.0	16172.0	16172.0		16172.0	16172.0	16172.0	MH
8	2.20	Fish management plans-sockeye salmon.		813.0	813.0	813.0	Limited	5	5	5	4065.0	4065.0	4065.0		4065.0	4065.0	4065.0	MH
9	2.30	Fish management plans-Dolly Varden/cutthroat trout.		236.0	236.0	236.0	Limited	4	4	4	944.0	944.0	944.0		944.0	944.0	944.0	MH
10	2.40	Fish management plans-pacific herring.		457.0	457.0	457.0	Limited	4	4	4	1826.4	1826.4	1826.4		1826.4	1826.4	1826.4	MH
11	2.50	Fish management plans-rockfish.		593.0	593.0	593.0	Limited	4	4	4	2372.0	2372.0	2372.0		2372.0	2372.0	2372.0	MH
12																		
13	4.30	Reduce disturbance																
14	4.31	Initial year		60.0	50.0	100.0	Limited	1	1	1	60.0	50.0	100.0		60.0	50.0	100.0	MH
15	4.32	Continuation		30.0	15.0	60.0	Until Recovery	2	2	9	60.0	30.0	540.0		60.0	30.0	540.0	MH
16																		
17	8.10	Closure		15.0	10.0	30.0	Until Recovery	5	2	10	75.0	20.0	300.0		75.0	20.0	300.0	MH
18																		
19	8.20	Vol.restriction-Education		144.0	144.0	144.0	Until Recovery											MH
20																		
21	9.00	Minimize incidental take of marine birds.																
22	9.01	Development		275.0	250.0	300.0	Limited	5	3	6	1375.0	750.0	1800.0		1375.0	750.0	1800.0	MH
23	9.02	Operation		50.0	50.0	50.0	Until Recovery											MH
24																		
25	10.00	Archaeology Resource Protection																
26	10.10	Restoration	Per site.	259.0	250.0	400.0	Limited	8	5	10	2072.0	1250.0	4000.0		2072.0	1250.0	4000.0	MR
27	10.20	Monitoring	Per site.	200.0	200.0	300.0	Ongoing	10	10	10	2000.0	2000.0	3000.0	*	7140.0	7140.0	10710.0	MR
28																		
29	11.10	Supplement fry production.		579.0	579.0	579.0	Limited	6	6	6	3474.0	3474.0	3474.0		3474.0	3474.0	3474.0	MR
30																		
31	11.20	Improve access to spawning areas.		481.0	481.0	481.0	Limited	3	3	3	1443.0	1443.0	1443.0		1443.0	1443.0	1443.0	MR
32																		
33	11.30	Improve spawning and rearing habitat.		800.0	800.0	800.0	Limited	6	6	6	4800.0	4800.0	4800.0		4800.0	4800.0	4800.0	MR
34																		
35	12.10	Construct new public recreation facilities.																
36	12.11	Construction		294.0	218.0	370.0	Limited	5	2	8	1470.0	436.0	2960.0		1470.0	436.0	2960.0	MH
37	12.12	Maintenance		30.0	22.0	37.0	Ongoing	5	2	8	150.0	44.0	296.0	*	1071.0	785.4	1320.9	MH
38																		
39	12.20	Plng./mktg. public land-commercial facilities.		275.0	200.0	350.0	Limited	1	1	1	275.0	200.0	350.0		275.0	200.0	350.0	MH
40																		
41	13.00	Eliminate oil from mussel beds.		491.0	340.0	641.0	Limited	5	4	7	2455.0	1360.0	4487.0		2455.0	1360.0	4487.0	MR
42																		
43	14.00	Accelerate recovery of upper intertidal zone.		150.0	100.0	200.0	Until Recovery	5	4	7	750.0	400.0	1400.0		750.0	400.0	1400.0	MR
44																		

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.

DRAFT

EXXON VALDEZ OIL SPILL RESTORATION OPTIONS - PRELIMINARY COST ESTIMATES

DRAFT - 12/21/92

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	2	Option	DESCRIPTION	UNIT	ANNUAL COST			DURATION			TOTAL COST [No Endowment]			TOTAL COST [With Endowment]			Framework	
					Exp	Lower	Upper	Type	Years			10-Year Maximum			[With Endowment]			
3								Exp	Lower	Upper	Exp	Lower	Upper	Exp	Lower	Upper		
45	15.00	Supplement intertidal substrates-spawning herring.		256.0	256.0	256.0	Until Recovery	5	5	5	1280.0	1280.0	1280.0		1280.0	1280.0	1280.0	MR
46																		
47	16.10	Restore murre productivity-social stimuli.																
48	16.11	Initial year		250.0	200.0	500.0	Until Recovery	1	1	1	250.0	200.0	500.0		250.0	200.0	500.0	MR
49	16.12	Continuation		150.0	150.0	500.0	Until Recovery	4	4	10	600.0	600.0	5000.0		600.0	600.0	5000.0	MR
50																		
51	16.20	Restore murre productivity-improve nest sites.																
52	16.21	Initial year		250.0	200.0	500.0	Until Recovery	1	1	1	250.0	200.0	500.0		250.0	200.0	500.0	MR
53	16.22	Continuation		150.0	150.0	500.0	Until Recovery	4	4	10	600.0	600.0	5000.0		600.0	600.0	5000.0	MR
54																		
55	17.10	Eliminate introduced foxes.	Per island .	140.0	100.0	250.0	Until Recovery	5	5	10	700.0	500.0	2500.0		700.0	500.0	2500.0	MR
56																		
57	17.21	Reduce predator access to Common Murre colonies.		350.0	300.0	400.0	Until Recovery	5	5	10	1750.0	1500.0	4000.0		1750.0	1500.0	4000.0	MR
58																		
59	17.22	Reduce predator access to Pigeon Guillemot		200.0	150.0	250.0	Until Recovery	1	1	1	200.0	150.0	250.0		200.0	150.0	250.0	MR
60																		
61	18.10	Establish additional hatchery runs.		784.0	784.0	784.0	Limited	1	1	1	784.0	784.0	784.0		784.0	784.0	784.0	MR
62																		
63	18.20	Transplant hatchery-reared fish to depleted areas.		472.0	472.0	472.0	Limited	2	2	2	944.0	944.0	944.0		944.0	944.0	944.0	MR
64																		
65	18.30	Use wild egg takes from noninjured streams.		615.0	615.0	615.0	Limited	1	1	1	615.0	615.0	615.0		615.0	615.0	615.0	MR
66																		
67	19.00	Update and expand the state's Anadromous Stream		259.0	259.0	259.0	Limited	1	1	1	259.0	259.0	259.0		259.0	259.0	259.0	PR
68																		
69	30.00	Test subsistence foods for oil contamination.		100.0	100.0	100.0	Limited	1	1	1	100.0	100.0	100.0		100.0	100.0	100.0	MH
70																		
71	33.00	Visitor center																
		New construction	Per 5000 sf structure.				Limited				1000.0	750.0	1750.0		1000.0	750.0	1750.0	MH
72	33.10																	
73	33.20	Displays and information																
74																		
75																		
76	34.00	Marine environmental institute																
77	34.01	Establishment					Limited				42000.0	42000.0	42000.0		42000.0	42000.0	42000.0	MH
78	34.02	Continuation					Ongoing											
79																		
80	35.00	Acquire archaeological artifacts.	Per artifact acquired.	225.0	150.0	300.0	Limited	3	3	3	675.0	450.0	900.0		675.0	450.0	900.0	MR
81																		
82	37.00	Habitat protection and acquisition.																
83	37.01	Initial cost		20000.0	10000.0	30000.0	Limited	10	10	10	200000.0	100000.0	300000.0		200000.0	100000.0	300000.0	PR
84	37.02	Management					Ongoing											

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.

DRAFT EXXON VALDEZ OIL SPILL RESTORATION OPTIONS - PRELIMINARY COST ESTIMATES

DRAFT - 12/21/92

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
2	Option	DESCRIPTION	UNIT	ANNUAL COST			DURATION			TOTAL COST [No Endowment]			TOTAL COST [With Endowment]			Framework		
3				Exp	Lower	Upper	Type	Years			10-Year Maximum			[*With Endowment]				
85				Exp	Lower	Upper	Exp	Lower	Upper	Exp	Lower	Upper	Exp	Lower	Upper			
86	40.10	Federal wilderness areas.	Per wilderness area.	165.0	165.0	165.0	Limited	3	3	3	495.0	495.0	495.0		495.0	495.0	495.0	PR
87																		
88	40.20	Alaska State Parks.	Per 6-7 parks.															
89	40.21	Designation		22.0	8.0	37.0	Limited	3	3	3	66.9	24.0	110.1		66.9	24.0	110.1	PR
90	40.22	Implementation		60.0	60.0	60.0	Ongoing	10	10	10	600.0	600.0	600.0	*	2142.0	2142.0	2142.0	PR
91																		
92	40.30	ADFG special areas																
93	40.31	Designation		35.0	35.0	35.0	Limited	2	2	2	70.0	70.0	70.0		70.0	70.0	70.0	PR
94	40.32	Implementation		12.0	12.0	12.0	Ongoing	10	10	10	120.0	120.0	120.0	*	428.4	428.4	428.4	PR
95																		
96	40.40	National Marine Sanctuary	Per study plan and EIS.				Limited				500.0	500.0	500.0		500.0	500.0	500.0	PR
97																		
98	40.50	Modify coastal management policies/create plan.	Per plan.	125.0	50.0	200.0	Limited	2	2	2	250.0	100.0	400.0		250.0	100.0	400.0	PR
99																		
100	41.00	Subsistence mariculture		589.0	589.0	589.0	Limited	4	4	4	2356.0	2356.0	2356.0		2356.0	2356.0	2356.0	MH
101																		
102	42.00	Access to new subsistence resources		53.0	53.0	53.0	Limited	3	3	3	159.0	159.0	159.0		159.0	159.0	159.0	MH
103																		
104	43.10	National Estuarine Research Reserve Sites																
105	43.11	Designation					Limited				200.0	200.0	200.0		200.0	200.0	200.0	Monitoring
106	43.12	Land Acquisition and Construction					Limited				500.0	500.0	500.0		500.0	500.0	500.0	Monitoring
107	43.13	Operation		150.0	150.0	150.0	Ongoing	10	10	10	1500.0	1500.0	1500.0	*	5355.0	5355.0	5355.0	Monitoring
108																		
109	43.20	Designate Research Natural Areas in Chugach N.F.		200.0	200.0	200.0	Ongoing	10	10	10	2000.0	2000.0	2000.0	*	7140.0	7140.0	7140.0	MH
110																		
111	P1.00	Administration		3300.0	3000.0	3600.0	Limited	10	10	10	33000.0	30000.0	36000.0		33000.0	30000.0	36000.0	Admin.
112																		
113	P2.00	Monitoring																
114	P2.01	Design-Phase 2 (Detailed Technical Protocols)		250.0	250.0	250.0	Limited	1	1	1	250.0	250.0	250.0		250.0	250.0	250.0	Monitoring
115	P2.02	Implement		5000.0	4000.0	6000.0	Ongoing	10	10	10	50000.0	40000.0	60000.0	*	178500.0	142800.0	214200.0	Monitoring
116																		
117	P3.00	Education /public information																
118	P3.10	Archaeological resource protection.		399.0	399.0	399.0	Limited	1	1	1	399.0	399.0	399.0		399.0	399.0	399.0	MH
119	P3.20	Boat operators-descrease disturbance.		40.0	30.0	50.0	Limited	1	1	1	40.0	30.0	50.0		40.0	30.0	50.0	MH
120	P3.30	Conservation of sportfishing.		20.0	15.0	25.0	Limited	2	2	2	40.0	30.0	50.0		40.0	30.0	50.0	MH
121	P3.40	Public education-minimize impacts.		25.0	25.0	25.0	Limited	2	2	2	50.0	50.0	50.0		50.0	50.0	50.0	MH
122	P3.50	Provide and distribute updated information.		100.0	100.0	100.0	Limited	1	1	1	100.0	100.0	100.0		100.0	100.0	100.0	MH
123																		

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.

DRAFT

EXXON VALDEZ OIL SPILL RESTORATION OPTIONS - PRELIMINARY COST ESTIMATES

DRAFT - 12/21/92

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	2	Option	DESCRIPTION	UNIT	ANNUAL COST			DURATION			TOTAL COST [No Endowment] 10-Year Maximum			TOTAL COST [*With Endowment]			Framework	
					Exp	Lower	Upper	Type	Years			Exp	Lower	Upper	Exp	Lower		Upper
124	P4.00	Agency management																
125	P4.10	Archaeology site patrol and monitoring.		300.0	300.0	300.0	Limited	4	3	5	1200.0	900.0	1500.0		1200.0	900.0	1500.0	MH
126	P4.20	Enforce laws to reduce disturbance.		438.0	390.0	486.0	Ongoing	10	10	10	4380.0	3900.0	4860.0	*	15636.6	13923.0	17350.2	MH
127	P4.30	Increase field presence of management		438.0	390.0	486.0	Ongoing	10	10	10	4380.0	3900.0	4860.0	*	15636.6	13923.0	17350.2	MH
128																		
129		NOTES																
130																		
131	1.10	In 1993 this project is proposed for start-up in three areas: Kodiak, Homer, and Chenega. In subsequent years																
132		programs may be instituted in other areas.																
133																		
134	13.00	First two years directed to testing feasibility; latter three years for implementation. It is assumed that this																
135		approach will be used sparingly, e.g., at 15-25 most severely impacted, slowest recovering, and most																
136		biologically valuable areas.																
137																		
138	14.00	First two years directed to testing feasibility; latter three years for implementation. It is assumed that this																
139		approach will be used sparingly, e.g., at 3-5 most severely damaged, slowest recovering and most																
140		biologically valuable areas in spill zone.																
141																		
142	33.10	New construction only is likely to cost an average of \$200/sf with a range of \$150/sf and \$300/sf. This figure																
143		does not include equipment, displays, or maintenance.																
144																		
145	34.00	The cost estimate includes design and construction for the facility but does not include post-construction																
146		staffing or maintenance.																
147																		
148	37.00	These are average figures. In any one year the amount spent would vary widely depending on such factors																
149		as the status of negotiations.																
150																		
151	40.40	The process of establishing a National Marine Sanctuary takes 30 months and requires a study plan and																
152		environmental impact statement.																
153																		
154	43.00	Land acquisition costs could vary. Sites are typically small (50-250 acres).																
155																		

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.

EXXON VALDEZ OIL SPILL RESTORATION OPTIONS - PRELIMINARY COST ESTIMATES

DRAFT - 12/21/92

DRAFT

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Option	DESCRIPTION	UNIT	ANNUAL COST			DURATION			TOTAL COST [No Endowment]			TOTAL COST [With Endowment]			Framework		
				Exp	Lower	Upper	Type	Exp	Lower	Upper	Exp	Lower	Upper	Exp	Lower		Upper	
156	P1.00	Upper range assumes deletion of funding for the Restoration Planning Working Group and reductions of \$100.0-\$150.0 for Peer																
157		Review, work plan, and environmental compliance. Lower range assumes the additional deletion of funding for the Restoration																
158		Team.																
159																		
160	P2.00	Assumes an 8-year program with first implementation in 1994. Program could be extended beyond life of settlement through an																
161		endowment. Intensity of program would then depend on size of endowment and available annual support.																
162																		
163																		
164																		
165																		
166																		
167																		

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.

PPW6
I
Info to Veronica by noon Mon. 12/21: Unit, Duration Type, refine figures and fill in the gaps. Thanks.

EVOS RESTORATION OPTIONS - COST ESTIMATES

I. OPTIONS

- A. The spreadsheet includes 45 options and suboptions.
- B. Each entry has a unique, composite number that consists of a whole number from 1-43 (option), plus entries in the tenths (suboption) and hundredths places (components such as construction and maintenance). This numbering system will facilitate sorting and aggregation.
- C. Options 1.10 through 43.20 will vary over the six plan alternatives.
- D. The following four options, labelled P1.00 through P4.00, are not expected to vary substantially over the six plan alternatives. Nonetheless they represent substantial proportions of the settlement fund.
 - P1.00 Administration
 - P2.00 Monitoring
 - P3.00 Education/public information
 - P4.00 Agency management

II. UNIT

If costs are estimated per unit, the unit of measurement, e.g., per park or per island, is indicated in Column C under "Unit." These units are the same as those for which the peer reviewers and principal investigators evaluated the option.

III. ANNUAL COST

- A. Annual costs are presented as expected values with the degree of uncertainty reflected by a lower and upper range of cost.
- B. In most cases, expected value of annual cost = mean of lower and upper cost estimates. However, in some cases the estimator gave an expected value closer to one of the extremes.
- C. For certain projects, such as Options 34.00 and 43.10, no annual costs are given. Instead, a fixed total cost is given under the heading "Total Cost [No Endowment], 10-Year Maximum." This cost may be spread over several years.
- D. For projects with continuation, maintenance, or implementation costs

DRAFT

different from initial costs, subsequent costs are presented separately. For example, construction is separated from maintenance [see option 12.1], planning and designation from implementation [see option 40.0], and start-up from continuation [see options 16.1 and 16.2]. In this way the duration and total cost of the initial part of a project can be differentiated from the duration and cost of its continuation.

- E. All costs are expressed in units of \$1,000.
- F. For simplicity, all costs are expressed in 1993 dollars with a note that the present value of the settlement is just under \$500 million.

IV. DURATION

- A. Some of the options are for a limited duration, e.g., 5 years. Others imply ongoing activities, e.g., 1.1 (Archaeological site stewardship program) and P4 (Agency management). Still others state that the project will continue until the resource recovers.
- B. The three types of duration are indicated in the Column G under the heading "Duration." The entries in this column are "Limited," "Until Recovery," and "Ongoing." Each type of duration is treated differently in subsequent computations of total cost (See Section V below.)
- C. Duration is also expressed in Columns H-J under the heading "Years." In these columns, duration is expressed in years. Estimates of duration are presented as expected value with the certainty of the estimate reflected in the lower and upper ranges.
- D. Partial years are specified the figure is rounded up to the nearest whole number.

V. TOTAL COST

- A. Total Cost [No Endowment] - 10-Year Maximum
 - 1. This is one of two scenarios for Total Cost of each option or suboption.
 - 2. This scenario assumes that there will be no endowment and that no project would exceed a term of 10 years.

DRAFT

3. Under this scenario, Total Cost = Annual Cost x Duration to a maximum of 10 years.
 - a. Expected Value: $\text{Col. K} = \text{Col. D} \times \text{Col. H}$
 - b. Lower Range: $\text{Col. L} = \text{Col. E} \times \text{Col. I}$
 - c. Upper Range: $\text{Col. M} = \text{Col. F} \times \text{Col. J}$

B. Total Cost [With Endowment]

1. This scenario assumes that ongoing projects or those for which recovery will exceed 10 years will be funded through an endowment.
2. If a project satisfies either of these criteria, an asterisk is entered in Column N.
3. Assuming inflation at rates in Alaska Department of Revenue's Spring Revenue Forecasts (1992) and real rate of return at rates in Alaska Permanent Fund Forecast (1992), \$35.7 must be set aside for every \$1 to be generated each year.
4. Consequently, for all projects to be funded under an endowment Total Cost is computed as follows:
 - a. Expected Value: $\text{Col. D} \times \$35.7$
 - b. Lower Range: $\text{Col. E} \times \$35.7$
 - c. Upper Range: $\text{Col. F} \times \$35.7$
5. All other computations are the same as described under A.3.

VI. USE OF COST ESTIMATES IN RESTORATION PLAN

- A. Options Evaluation Decision Process: cost estimates will be used to assess the cost effectiveness of each option or suboption.
- B. Alternatives Assessment: cost estimates will be clustered into broad categories to demonstrate how allocations of settlement funds vary across alternatives.

- VII. Notes: Assumptions behind cost estimates are described under "NOTES" at the end of the spreadsheet.

DRAFT

DRAFT

EXXON VALDEZ OIL SPILL RESTORATION OPTIONS - PRELIMINARY COST ESTIMATES

DRAFT - 12/17/92

1	2	3	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R												
																					ANNUAL COST			DURATION			TOTAL COST (No Endowment)			TOTAL COST		
																					Exp	Lower	Upper	Type	Years			10-Year Maximum			[*With Endowment]	
Option	DESCRIPTION	UNIT	Exp	Lower	Upper	Type	Exp	Lower	Upper	Exp	Lower	Upper	Exp	Lower	Upper	Framework																
4	5	6	1.10	Site stewardship program.		195.0	195.0	195.0	Ongoing	10	10	10	1950.0	1950.0	1950.0	*	6961.5	6961.5	6961.5	MH												
7	8	9	2.10	Fish management plans-pink salmon.		4043.0	4043.0	4043.0	Limited	4	4	4	16172.0	16172.0	16172.0		16172.0	16172.0	16172.0	MH												
10	11	12	2.20	Fish management plans-sockeye salmon.		813.0	813.0	813.0	Limited	5	5	5	4065.0	4065.0	4065.0		4065.0	4065.0	4065.0	MH												
13	14	15	2.30	Fish management plans-Dolly Varden/cutthroat trout.		236.0	236.0	236.0	Limited	4	4	4	944.0	944.0	944.0		944.0	944.0	944.0	MH												
16	17	18	2.40	Fish management plans-pacific herring.		457.0	457.0	457.0	Limited	4	4	4	1826.4	1826.4	1826.4		1826.4	1826.4	1826.4	MH												
19	20	21	2.50	Fish management plans-rockfish.		593.0	593.0	593.0	Limited	4	4	4	2372.0	2372.0	2372.0		2372.0	2372.0	2372.0	MH												
22	23	24	4.30	Reduce disturbance																												
25	26	27	4.31	Initial year		60.0	50.0	100.0	Limited	1	1	1	60.0	50.0	100.0		60.0	50.0	100.0	MH												
28	29	30	4.32	Continuation		30.0	15.0	60.0	Until Recovery	2	2	9	60.0	30.0	540.0		60.0	30.0	540.0	MH												
31	32	33	8.10	Closure		15.0	10.0	30.0	Until Recovery	5	2	10	75.0	20.0	300.0		75.0	20.0	300.0	MH												
34	35	36	8.20	Vol.restriction-Education		144.0	144.0	144.0	Until Recovery											MH												
37	38	39	9.00	Minimize incidental take of marine birds.																												
40	41	42	9.01	Development		275.0	250.0	300.0	Limited	5	3	6	1375.0	750.0	1800.0		1375.0	750.0	1800.0	MH												
43	44	45	9.02	Operation		50.0	50.0	50.0	Until Recovery											MH												
46	47	48	10.00	Preservation of archaeological sites/artifacts.		300.0	300.0	300.0	Limited	3	3	3	900.0	900.0	900.0		900.0	900.0	900.0	MR												
49	50	51	11.10	Supplement fry production.		579.0	579.0	579.0	Limited	6	6	6	3474.0	3474.0	3474.0		3474.0	3474.0	3474.0	MR												
52	53	54	11.20	Improve access to spawning areas.		481.0	481.0	481.0	Limited	3	3	3	1443.0	1443.0	1443.0		1443.0	1443.0	1443.0	MR												
55	56	57	11.30	Improve spawning and rearing habitat.		800.0	800.0	800.0	Limited	6	6	6	4800.0	4800.0	4800.0		4800.0	4800.0	4800.0	MR												
58	59	60	12.10	Construct new public recreation facilities.																												
61	62	63	12.11	Construction		294.0	218.0	370.0	Limited	5	2	8	1470.0	436.0	2960.0		1470.0	436.0	2960.0	MH												
64	65	66	12.12	Maintenance		30.0	22.0	37.0	Ongoing	5	2	8	150.0	44.0	296.0	*	1071.0	785.4	1320.9	MH												
67	68	69	12.20	Plng./mktg. public land-commercial facilities.		275.0	200.0	350.0	Limited	1	1	1	275.0	200.0	350.0		275.0	200.0	350.0	MH												
70	71	72	13.00	Eliminate oil from mussel beds.		491.0	340.0	641.0	Limited	5	4	7	2455.0	1360.0	4487.0		2455.0	1360.0	4487.0	MR												
73	74	75	14.00	Accelerate recovery of upper intertidal zone.		150.0	100.0	200.0	Until Recovery	5	4	7	750.0	400.0	1400.0		750.0	400.0	1400.0	MR												
76	77	78	15.00	Supplement intertidal substrates-spawning herring.		256.0	256.0	256.0	Until Recovery	5	5	5	1280.0	1280.0	1280.0		1280.0	1280.0	1280.0	MR												

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.

DRAFT

EXXON VALDEZ OIL SPILL RESTORATION OPTIONS - PRELIMINARY COST ESTIMATES

DRAFT - 12/17/92

1	2	3	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
			Option	DESCRIPTION	UNIT	ANNUAL COST			Type	DURATION			TOTAL COST [No Endowment]			TOTAL COST [With Endowment]			Framework	
						Exp	Lower	Upper		Exp	Lower	Upper	Exp	Lower	Upper	Exp	Lower	Upper		
45	16.10		Restore murre productivity-social stimuli.																	
46	16.11		Initial year			250.0	200.0	500.0	Until Recovery	1	1	1	250.0	200.0	500.0		250.0	200.0	500.0	MR
47	16.12		Continuation			150.0	150.0	500.0	Until Recovery	4	4	10	600.0	600.0	5000.0		600.0	600.0	5000.0	MR
48																				
49	16.20		Restore murre productivity-improve nest sites.																	
50	16.21		Initial year			250.0	200.0	500.0	Until Recovery	1	1	1	250.0	200.0	500.0		250.0	200.0	500.0	MR
51	16.22		Continuation			150.0	150.0	500.0	Until Recovery	4	4	10	600.0	600.0	5000.0		600.0	600.0	5000.0	MR
52																				
53	17.10		Eliminate introduced foxes.	Per island .		140.0	100.0	250.0	Until Recovery	5	5	10	700.0	500.0	2500.0		700.0	500.0	2500.0	MR
54																				
55	17.21		Reduce predator access to Common Murre colonies.			350.0	300.0	400.0	Until Recovery	5	5	10	1750.0	1500.0	4000.0		1750.0	1500.0	4000.0	MR
56																				
57	17.22		Reduce predator access to Pigeon Guillemot			200.0	150.0	250.0	Until Recovery	1	1	1	200.0	150.0	250.0		200.0	150.0	250.0	MR
58																				
59	18.10		Establish additional hatchery runs.			784.0	784.0	784.0	Limited	1	1	1	784.0	784.0	784.0		784.0	784.0	784.0	MR
60																				
61	18.20		Transplant hatchery-reared fish to depleted areas.			472.0	472.0	472.0	Limited	2	2	2	944.0	944.0	944.0		944.0	944.0	944.0	MR
62																				
63	18.30		Use wild egg takes from noninjured streams.			615.0	615.0	615.0	Limited	1	1	1	615.0	615.0	615.0		615.0	615.0	615.0	MR
64																				
65	19.00		Update and expand the state's Anadromous Stream			259.0	259.0	259.0	Limited	1	1	1	259.0	259.0	259.0		259.0	259.0	259.0	PR
66																				
67	30.00		Test subsistence foods for oil contamination.			100.0	100.0	100.0	Limited	1	1	1	100.0	100.0	100.0		100.0	100.0	100.0	MH
68																				
69	33.20		Visitor center																	MH
70																				
71	34.00		Marine environmental institute																	
72	34.01		Establishment						Limited				42000.0	42000.0	42000.0		42000.0	42000.0	42000.0	MH
73	34.02		Continuation						Ongoing							*				
74																				
75	35.00		Acquire archaeological artifacts.			225.0	150.0	300.0	Limited	3	3	3	675.0	450.0	900.0		675.0	450.0	900.0	MR
76																				
77	37.00		Habitat protection and acquisition.																	
78	37.01		Initial cost			20000.0	10000.0	30000.0	Limited	10	10	10	200000.0	100000.0	300000.0		200000.0	100000.0	300000.0	PR
79	37.02		Management						Ongoing							*				
80																				
81	40.10		Federal wilderness areas.	Per wilderness area.		165.0	165.0	165.0	Limited	3	3	3	495.0	495.0	495.0		495.0	495.0	495.0	PR
82																				
83	40.20		Alaska State Parks.	Per 6-7 parks.																
84	40.21		Designation			22.0	8.0	37.0	Limited	3	3	3	66.9	24.0	110.1		66.9	24.0	110.1	PR
85	40.22		Implementation			60.0	60.0	60.0	Ongoing	10	10	10	600.0	600.0	600.0	*	2142.0	2142.0	2142.0	PR

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.

DRAFT

EXXON VALDEZ OIL SPILL RESTORATION OPTIONS - PRELIMINARY COST ESTIMATES

DRAFT - 12/17/92

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1			ANNUAL COST			DURATION			TOTAL COST (No Endowment)			TOTAL COST						
2						Years			10-Year Maximum			[*With Endowment]						
3	Option	DESCRIPTION	UNIT	Exp	Lower	Upper	Type	Exp	Lower	Upper	Exp	Lower	Upper	Exp	Lower	Upper	Framework	
86																		
87	40.30	ADFG special areas																
88	40.31	Designation		35.0	35.0	35.0	Limited	2	2	2	70.0	70.0	70.0	70.0	70.0	70.0	PR	
89	40.32	Implementation		12.0	12.0	12.0	Ongoing	10	10	10	120.0	120.0	120.0	*	428.4	428.4	428.4	PR
90																		
91	40.40	National Marine Sanctuary		167.0	167.0	167.0	Limited	3	3	3	500.1	500.1	500.1	500.1	500.1	500.1	PR	
92																		
93	40.50	Modify coastal management policies/create plan.	Per plan.	125.0	50.0	200.0	Limited	2	2	2	250.0	100.0	400.0	250.0	100.0	400.0	PR	
94																		
95	41.00	Subsistence mariculture		589.0	589.0	589.0	Limited	4	4	4	2356.0	2356.0	2356.0	2356.0	2356.0	2356.0	MH	
96																		
97	42.00	Access to new subsistence resources		53.0	53.0	53.0	Limited	3	3	3	159.0	159.0	159.0	159.0	159.0	159.0	MH	
98																		
99	43.10	National Estuarine Research Reserve Sites																
100	43.11	Designation					Limited				200.0	200.0	200.0	200.0	200.0	200.0	Monitoring	
101	43.12	Land Acquisition and Construction					Limited				500.0	500.0	500.0	500.0	500.0	500.0	Monitoring	
102	43.13	Operation		150.0	150.0	150.0	Ongoing	10	10	10	1500.0	1500.0	1500.0	*	5355.0	5355.0	5355.0	Monitoring
103																		
104	43.20	Designate Research Natural Areas in Chugach N.F.		200.0	200.0	200.0	Ongoing	10	10	10	2000.0	2000.0	2000.0	*	7140.0	7140.0	7140.0	MH
105																		
106	P1.00	Administration		3300.0	3000.0	3600.0	Limited	10	10	10	33000.0	30000.0	36000.0	33000.0	30000.0	36000.0	Admin.	
107																		
108	P2.00	Monitoring																
109	P2.01	Design-Phase 2 (Detailed Technical Protocols)		250.0	250.0	250.0	Limited	1	1	1	250.0	250.0	250.0	250.0	250.0	250.0	Monitoring	
110	P2.02	Implement		5000.0	4000.0	6000.0	Ongoing	10	10	10	50000.0	40000.0	60000.0	*	178500.0	142800.0	214200.0	Monitoring
111																		
112	P3.00	Education /public information																
113	P3.10	Archaeological resource protection.		317.0	317.0	317.0	Limited	1	1	1	317.0	317.0	317.0	317.0	317.0	317.0	MH	
114	P3.20	Boat operators-descrease disturbance.		40.0	30.0	50.0	Limited	1	1	1	40.0	30.0	50.0	40.0	30.0	50.0	MH	
115	P3.30	Conservation of sportfishing.		20.0	15.0	25.0	Limited	2	2	2	40.0	30.0	50.0	40.0	30.0	50.0	MH	
116	P3.40	Public education-minimize impacts.		25.0	25.0	25.0	Limited	2	2	2	50.0	50.0	50.0	50.0	50.0	50.0	MH	
117	P3.50	Provide and distribute updated information.		100.0	100.0	100.0	Limited	1	1	1	100.0	100.0	100.0	100.0	100.0	100.0	MH	
118																		
119	P4.00	Agency management																
120	P4.10	Archaeology site patrol and monitoring.		300.0	300.0	300.0	Limited	4	3	5	1200.0	900.0	1500.0	1200.0	900.0	1500.0	MH	
121	P4.20	Enforce laws to reduce disturbance.		438.0	390.0	486.0	Ongoing	10	10	10	4380.0	3900.0	4860.0	*	15636.6	13923.0	17350.2	MH
122	P4.30	Increase field presence of management		438.0	390.0	486.0	Ongoing	10	10	10	4380.0	3900.0	4860.0	*	15636.6	13923.0	17350.2	MH
123																		
124																		
125																		

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
1				ANNUAL COST			DURATION			TOTAL COST (No Endowment)			TOTAL COST							
2										10-Year Maximum			[*With Endowment]							
3	Option	DESCRIPTION	UNIT	Exp	Lower	Upper	Type	Years			Exp	Lower	Upper	Exp	Lower	Upper	Exp	Lower	Upper	Framework
126																				
127		NOTES																		
128																				
129	13.00	First two years directed to testing feasibility; latter three years for implementation. It is assumed that this																		
130		approach will be used sparingly, e.g., at 15-25 most severely impacted, slowest recovering, and most																		
131		biologically valuable areas.																		
132																				
133	14.00	First two years directed to testing feasibility; latter three years for implementation. It is assumed that this																		
134		approach will be used sparingly, e.g., at 3-5 most severely damaged, slowest recovering and most																		
135		biologically valuable areas in spill zone.																		
136																				
137	34.00	The cost estimate includes design and construction for the facility but does not include post-construction																		
138		staffing or maintenance.																		
139																				
140	37.00	These are average figures. In any one year the amount spent would vary widely depending on such factors																		
141		as the status of negotiations.																		
142																				
143	43.00	Land acquisition costs could vary. Sites are typically small (50-250 acres).																		
144																				
145	P1.00	Upper range assumes deletion of funding for the Restoration Planning Working Group and reductions of \$100.0-\$150.0 for Peer																		
146		Review, work plan, and environmental compliance. Lower range assumes the additional deletion of funding for the Restoration																		
147		Team.																		
148																				
149	P2.00	Assumes an 8-year program with first implementation in 1994. Program could be extended beyond life of settlement through an																		
150		endowment. Intensity of program would then depend on size of endowment and available annual support.																		
151																				
152																				
153																				
154																				
155																				
156																				

NB: All costs are expressed in units of \$1,000 (1993 \$). The present value of the settlement is just under \$500 million. \$35.7 in an endowment should generate \$1 per year.