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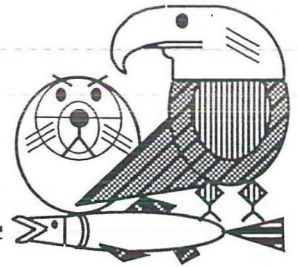
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Exxon Valdez Oil Spill Trustee Council

Restoration Office

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1995 RESTORATION WORKSHOP AGENDA

Review, Synthesis, and Planning for the *Exxon Valdez Oil Spill Restoration Program*

GOAL: The goal of the 1995 Restoration Workshop is to further refine and improve the strategies being used to restore the resources and services injured by the *Exxon Valdez Oil Spill*.

The results of the workshop will be used to develop:

- a financially-sustainable, multi-year, ecosystem approach to restoration of the injured resources and services, and
- an invitation to submit research, monitoring, and general restoration proposals for FY96 and beyond.

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EXXON VALDEZ OIL SPILL
TRUSTEE COUNCIL
ADMINISTRATIVE RECORD

Trustee Agencies

State of Alaska: Departments of Fish & Game, Law, and Environmental Conservation

United States: National Oceanic and Atmospheric Administration, Departments of Agriculture and Interior

Tuesday, January 17, 1995 — 9:00 A.M. – 5:15 P.M.

Day 1: Key Findings from the 1994 Restoration Program

The presentations on Day 1 will update the status of injured resources and services, with particular focus upon the results from research and monitoring conducted in 1994. The objective of these sessions will be to educate all scientists and other professionals participating in the Restoration Program regarding the status of recovery.

- 9:00 Welcome & Introductory remarks from Trustee Council
- 9:15 Workshop Objectives and Restoration Program Directions
Executive Director, Chief Scientist
- 9:30 How the Bering Sea Works: Understanding and Managing Marine Ecosystems
Alan Springer, University of Alaska, Fairbanks
- 10:15 Pristane: a natural hydrocarbon tracer of energy flow from calanoid copepods to higher trophic levels in the Prince William Sound Ecosystem – *Jeffrey Short, Auke Bay Laboratory*
- 10:45 Break

Restoration Program Updates

- 11:00 Oil Toxicity – *Jeep Rice*
Projects 94191A/B, 94090, 94166B, 94266 (oil distribution)
- 11:30 Nearshore/Intertidal – *Ray Highsmith*
Projects 94246, 94086, 94285, 94020
- 12:00 Seabirds – *David Irons*
Projects 94173, 94020, 94039, 94041, 94102, 94159, 94427

Lunch – 12:30 – 1:30

- 1:30 PWS System Investigation – *Ted Cooney et al.*
Projects 95320A,B,E,G,H-N,P,Q
- 2:30 Herring – *John Wilcock*
Projects 94166A, 94320S
- 2:45 Pink Salmon – *Mark Willette*
Projects 94139A, 94185, 94320C,D
- 3:15 Forage Fish – *Al Tyler* Project 94163
- 3:30 Break
- 4:00 Sockeye Salmon – *Dana Schmidt*
Projects 94258, 94255, 94259
- 4:20 Marine Mammals – *Kathy Frost*
Projects 94064, 94092, 94320F
- 4:40 Subsistence – *Rita Miraglia*
Projects 94244, 94279, 94428
- 5:00 Archaeology – *Judy Bittner* Project 94007
- 5:15 – 7:00 Social Hour

Wednesday, January 18, 1994 — 8:30 A.M. – 5 P.M.

Day 2: Progress of Restoration

Concurrent sessions on Day 2 will include specific presentations made by principal investigators which focus upon the implications of recent results for achieving restoration objectives. The objective of these presentations is to provide the foundation for discussions that will begin on Day 2 and continue through Day 3. The purpose of these discussions is to review restoration strategies and objectives in the light of recent findings, and assess the likelihood that a financially-sustainable, multi-year program of research, monitoring, and other restoration activities can achieve restoration objectives. The following discussion questions listed at the back of this agenda will be used to guide the discussions on Day 2 and 3. The answers developed during the discussions will be presented on Day 4.

1. 8:30 - 12:00 What is causing the failure of PWS herring and pink salmon runs?
Projects: 94320A, B, C, D, E, G, H, I, J, K, L, M, N, P, Q, S, 94165, 94166
Session Leader: *Ted Cooney*
Reviewers: *Rose, Peterson, Mundy, Haney, Gunther (Spies @10:45)*
2. 8:30 - 10:30 Are the toxic effects of oil still constraining recovery of some resources?
Projects: 94266, 94090, 94290, SWMP
Session Leader: *Stanley Rice*
Reviewers: *Spies*
3. 8:30 – 9:30 Recreation
Projects: 94217 & State restitution fund projects
Session Leader: *Veronica Gilbert*
Reviewer: *Senner*
4. 9:30 - 12:00 Subsistence/Archeology
Projects: 94007, 94244, 94279, 94428 & State restitution fund projects
Session Leader: *R. Miraglia/J. Bittner*
Reviewer: *Dumond*
- 12:00 Lunch
5. 1:30 - 5:00 Cause of the long-term decline in some mammal and bird populations? Is it food?
Projects: 94064, 94092, 94320F, 94163, 94173, 94039, 94066, 94102, 94159, 94427, 95163
Session Leaders: *D. Irons/K. Frost*
Reviewers: *Senner, Haney, Gunther (Spies & Peterson @3:45)*
6. 1:30 - 3:30 What is limiting the recovery of the nearshore ecosystem?
Projects: 94246, 94086, 94285, 94020, 95025
Session Leaders: *J. Bodkin*
Reviewers: *Peterson, Spies*
7. 1:30 - 3:00 Fish stock separation and management
Projects: 94185, 94255, 94258, 94504, 94137,
Session Leaders: *A. Wertheimer/J. Sullivan*
Reviewers: *Mundy, Rose*
- 1:30 - 5:00 Room:
Subsistence/Archeology (continued)
- 3:30 Break
8. 3:45 - 5:00 Fish, shellfish, and bird enhancement and replacement
Projects: 94139A1, 94139B1-2, 94139C1-2, 94259, 94272, 94043A1-7, 94043B1-2, 94041
Session Leaders: *A. Wertheimer/J. Sullivan*
Reviewers: *Mundy, Rose*

Thursday, January 19, 1995 — 8:30 A.M. – 5:00 P.M.

Day 3: Progress of Restoration (continued)

Day 3 will commence with a plenary session to hear brief presentations summarizing the progress made by each group during Day 2. The discussions from Day 2 will then be continued. Note that the schedule for Day 3 may be changed based upon progress in Day 2 and the need for certain reviewers to be present at certain sessions.

8:30 – 10:00 Plenary session: Summaries of Day 2 discussions

10:00 Break

10:15 - 12:00 Continue groups 1, 2, and 3

12:00 - 1:30 Lunch

1:30 – 2:30 Continue groups 1, 5, 6

2:30 - 3:30 Continue groups 5, 6, 7

3:30 Break

3:45 - 5:00 Continue groups 5, 6, 7, 8

Friday, January 20, 1995 — 8:30 A.M. – 3:00 P.M.

Day 4: Review, Synthesis, and the Future

A representative of each group will be responsible for presenting the information developed by that group to all workshop participants, including answers to the discussion questions. The reviewers will participate in a panel discussion, the objective of which will be to identify common themes and issues among each of the groups.

8:30 Report from each group, presenting answers to the discussion questions

10:30 Break

10:45 Panel Discussion: Synthesis of information gaps, assessment of common themes: reviewers from each session

12:00 Lunch

1:30 Next Steps: Developing a long-term Restoration Program and the 1996 Work Plan

3:00 Adjourn

Discussion Questions

- **Status.** (Using information from presentations on Day 1): What is the status of the resources and services in question? Are they recovering? Not Recovering? Recovered? Recovery Unknown?
- **Objectives.** For each resource and service, the Restoration Plan lists objectives that define when recovery has occurred. Are these still appropriate? Are we using the correct indicators for recovery? Have we learned anything that should change how we define recovery?
- **Past Accomplishments & Implications for Today.** What did we accomplish in 1994?
 - **For Research:** What did we learn in 1994 that helps us determine what is limiting recovery? Did we learn anything in 1994 that suggests the research questions should be changed? Are other research questions of higher priority? Did we learn anything in 1994 that suggests changing specific project objectives for 1995? What information remains to be gathered to determine the factors limiting recovery (and which of it is the most important)?
 - **For General Restoration:** Is the project or strategy effective in helping to restore the resource or service? Is it cost-effective? Are other strategies more appropriate or effective?
 - **For Monitoring:** Is the 1994 monitoring schedule still appropriate? Or is a different type of monitoring required? A different frequency?
- **The Future.** For 1995 and beyond, how long will the Research, General Restoration, or Monitoring take to complete? How long will it take to gather information to determine factors limiting recovery? How much will it cost to answer these questions? What do these strategies mean for achieving the health of the pelagic, nearshore and upland ecosystems within the spill area? Once research questions are answered, is active restoration likely to be feasible? How should the Trustee Council work plan process be revised to make restoration more effective?

1994 *Exxon Valdez* Oil Spill Restoration Projects

<u>No.</u>	<u>Title</u>
94007	Site Specific Archaeological Restoration
94020	Black Oystercatcher Interaction with Intertidal
94039	Common Murre Population Monitoring
94041	Introduced Predator Removal from Islands
94043A1	Eshamy River Restoration (W. PWS)
94043A2	Gumboot Creek Restoration (W. PWS)
94043A3	Stream No. 508 Restoration
94043A4	Stream No. 509 Restoration (W. PWS)
94043A5	Otter Creek/Lake Restoration (Knight I.)
94043A6	Miners Creek/Lake Restoration (N. PWS)
94043A7	Shrode Creek/Lake Restoration (W. PWS)
94043B1	Sockeye Creek/Lake Restoration (Knight I.)
94043B2	Rocky Creek/Bay Restoration (Montague)
94064	Harbor Seal Habitat Use and Monitoring
94066	Harlequin Duck Recovery Monitoring
94086	Herring Bay Experimental and Monitoring Studies
94090	Mussel Bed Restoration and Monitoring
94092	Killer Whale Recovery Monitoring
94102	Marbled Murrelet Prey and Foraging Habitat in Prince William Sound
94110	Habitat Protection - Data Acquisition and Support
94126	Habitat Protection and Acquisition Fund
94137	Stock Identification of Chum, Sockeye, Chinook, and Coho in PWS
94139A1	Waterfall Creek Bypass Instream Restoration
94139B1	Otter Creek Bypass Instream Restoration
94139B2	Shrode Creek Bypass Instream Restoration
94139C1	Montague Island Chum Instream Restoration
94139C2	Lowe River (6.5 Mile) Instream Restoration
94159	Marine Bird & Sea Otter Boat Surveys
94163	Forage Fish Influence on Recovery of Injured Species

1994 *Exxon Valdez* Oil Spill Restoration Projects

<u>No.</u>	<u>Title</u>
94165	Herring Genetic Stock Identification in Prince William Sound
94166	Herring Spawn Deposition and Reproductive Impairment
94173	Pigeon Guillemot Recovery Monitoring
94185	Coded Wire Tagging of Wild Pinks for Stock Identification
94191	Oil Related Egg and Alevin Mortalities
94199	Institute of Marine Science - Seward Improvements
94217	Prince William Sound Area Recreation Implementation
94244	Harbor Seal and Sea Otter Co-op Subsistence Harvest Assistance
94246	Sea Otter Recovery Monitoring
94255	Kenai River Sockeye Salmon Restoration
94258	Sockeye Salmon Overescapement
94259	Coghill Lake Sockeye Salmon Restoration
94266	Shoreline Assessment and Oil Removal
94272	Chenega Chinook Release Program
94279	Subsistence Food Safety Testing
94285	Subtidal Sediment Recovery Monitoring
94290	Hydrocarbon Data Analysis and Interpretation
94320A	Salmon Growth and Mortality
94320B	Coded Wire Tagging Recovery-PWS Pinks
94320C	Otolith Mass Marking of PWS Pink Salmon
94320D	Pink Salmon Genetics
94320E	Salmon Predation
94320F	Harbor Seals-Trophic Interactions
94320G	Phytoplankton and Nutrients
94320H	Role of Zooplankton in PWS Ecosystem
94320I	Food Web Dependencies in PWS Ecosystem/Stable Isotopes
94320J	Information Systems and Model Development
94320K	PWSAC-Experimental Fry Release
94320L	PWSAC-Experimental Manipulation

1994 *Exxon Valdez* Oil Spill Restoration Projects

<u>No.</u>	<u>Title</u>
94320M	Physical Oceanography in PWS and Gulf of Alaska
94320N	Nearshore Fish
94320P	SEA Program: Program Management
94320Q	Avian Predation on Herring Swan
94320S	Disease Impacts on Herring
94417	Waste Oil Disposal Facilities
94422	Environmental Impact Statement for the Draft Restoration Plan
94423	Oil Spill Public Information Center (OSPIC)
94424	Restoration Reserve
94425	Marine Mammal Book
94427	Experimental Harlequin Duck Breeding Survey
94428	Subsistence Restoration Planning and Implementation
94504	Genetic Stock Identification of Kenai River Sockeye
94505	Information Needs for Habitat Protection
94506	Pigeon Guillemot Recovery
94507	Symposium Proceedings Publication