



Exxon Valdez Oil Spill Final and Annual Reports

March 2009



Exxon Valdez Oil Spill Trustee Council

EVOS Final Reports

Since 1989 the *Exxon Valdez* Oil Spill Trustee Council (EVOS TC) has funded projects to assess the impacts of the spill and restore the environment. Over the years projects included natural resource damage assessment (NRDA) studies, restoration projects and Gulf Ecosystem Monitoring and Research Program (GEM) projects. To date the Council has published these final reports in three report series:

- *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Reports
- *Exxon Valdez* Oil Spill Restoration Project Final Reports
- *Exxon Valdez* Oil Spill Gulf Ecosystem Monitoring and Research Project Final Reports

EVOS Annual Reports

Prior to 2002, annual progress reports were required for multi-year NRDA and restoration projects. Those reports were published in two report series listed below. Annual reports for projects funded since 2002 are not published in a series, but are available at the EVOS TC web site, www.evostc.state.ak.us, in the project database.

- *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Annual Reports
- *Exxon Valdez* Oil Spill Restoration Project Annual Reports

Report Numbers

Every project funded by the EVOS Trustee Council has a number and the project report carries the same number.

NRDA studies: NRDA studies were assigned an alpha-numeric study number indicating the topic of the study. Examples: Air/Water 1, Bird 3, and Fish/Shellfish 4.

Restoration projects prior to 2003: Restoration project numbers prior to 2003 have five digits. The first two digits indicate the funding year. The last three digits identify the project. Since FY 1994 the three-digit project identifier has remained the same each year for multi-year projects. Example: Hydrocarbon Data Analysis – 94290, 95290, 96290.

Restoration and GEM projects since 2003: Although some GEM *transition* projects were

funded in 2002, funding of GEM projects began in FY 2003. Since 2003 Restoration and GEM project numbers have had six digits. The first two digits indicate the funding year. The last three digits identify the project and remain the same each year for multi-year projects. The third digit was added to give the numbering scheme the potential to handle a larger number of projects funded in a long-term program. Example: Dynamics of the Alaska Coastal Current – 030670, 040670.

How to Find EVOS Reports

Final reports are available full-text on the web through the ARLIS catalog at www.arlis.org. The catalog is searchable by title, project number, principal investigator, additional authors, series title, subject heading, and key words. A searchable notes field in the catalog record describes the report and provides additional access points. From the catalog record, a link takes the researcher to the full-text report. Paper copies of reports are available for check out at ARLIS and are loaned to researchers worldwide through interlibrary loan. Final reports are also available in the EVOSTC Online Project Database at www.evostc.state.ak.us

ARLIS distributes final reports to the Library of Congress, National Library of Canada, University of Washington Library, and select libraries in Alaska listed below. Reports in alternative formats, such as large maps, video tapes, or CR-DOMs may not be available at all locations. Copies of most final reports can be purchased through the National Technical Information Service (NTIS) at (703) 487-4650 or www.ntis.gov.

Annual reports for projects funded prior to 2002 are available full-text through the ARLIS catalog at www.arlis.org and paper copies are available for check out. Annual reports for projects funded since 2002 are available on the EVOS TC web site at www.evostc.state.ak.us.

A. Holmes Johnson Library - Kodiak
Alaska Historical Library - Juneau
Alaska State Library - Juneau
Auke Bay Fisheries Lab Library - Juneau
E.E. Rasmuson Library - University of Alaska,
Fairbanks

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University of Washington Library - Seattle
Valdez Consortium Library – Valdez

For assistance in locating EVOS final and annual reports, contact ARLIS at
(907) 27-ARLIS (272-7547) or via email at **reference@arlis.org**.

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EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL REPORTS

March 2009

* = new additions to this list

Exxon Valdez Oil Spill State/Federal Natural Resource Damage Assessment Final Reports

Final reports in this series cover natural resource damage assessment (NRDA) studies funded from 1989 (prior to settlement of litigation) through 1991. The date in the citation is the year the report was completed, not the year the project was funded or the year the report was published.

Air/Water 3

Short, J.W. and P.M. Harris. 1996. Petroleum hydrocarbons in near-surface seawater of Prince William Sound, Alaska, following the *Exxon Valdez* oil spill I: Chemical sampling and analysis, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Air/Water Study Number 3), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Auke Bay, Alaska. (NTIS No. PB96-196951)

Air/Water 3 (Subtidal 3A)

Short, J.W. and P.M. Harris. 1995. Petroleum hydrocarbons in near-surface seawater of Prince William Sound, Alaska, following the *Exxon Valdez* oil spill II: analysis of caged mussels, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Air/Water Study Number 3, Subtidal Study Number 3A), National Oceanic and Atmospheric Administration, Juneau, Alaska. (NTIS No. PB96-196969)

Archaeology 1

Reger, D.R., J.D. McMahan, and C.E. Holmes. 1992. Effect of crude oil contamination on some archaeological sites in the Gulf of Alaska, 1991 investigations, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Archaeology Study Number 1), Alaska Department of Natural Resources, Division of Parks and Outdoor Recreation, Office of History and Archaeology, Anchorage, Alaska. (NTIS No. PB96-194659)

Bird 1

Ford, R.G., M.L. Bonnell, D.H. Veroujean, G.W. Page, H.R. Carter, B.E. Sharp, D. Heinemann, and J.L. Casey. 1996. Total direct mortality of seabirds from the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 1), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB2000-105785)

Bird 2

Klosiewski, S.P. and K.K. Laing. 1994. Marine bird populations of Prince William Sound, Alaska, before and after the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 2), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB97-112684)

Bird 3

Nyswander, D.R., C.H. Dippel, G.V. Byrd, and E.P. Knudtson. 1993. Effects of the *Exxon Valdez* oil spill on murre: a perspective from observations at breeding colonies, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 3), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB97-112700)

Bird 4

Bowman, T.D., P.F. Schempf, and J.A. Bernatowicz. 1993. Effects of the *Exxon Valdez* oil spill on bald eagles, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 4), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-204250)

Bird 5

Hughes, J.H. and G.A. Sanger. 1999. Observations of Peale's peregrine falcons, *Falco peregrinus pealei*, on the Northern Gulf of Alaska coast, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 5), Alaska Department of Fish and Game, Division of Wildlife Conservation, Anchorage, Alaska. (This report is not available at copy centers. See the Natural Resource Damage Assessment Interim Report series at the libraries listed.)

Bird 6

Kuletz, K.J. 1994. Marbled murrelet abundance and breeding activity at Naked Island, Prince William Sound, and Kachemak Bay, Alaska, before and after the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 6), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB97-112692)

Bird 7

Nishimoto, G. and G.V. Byrd. 1993. Effects of the *Exxon Valdez* oil spill on fork-tailed storm petrels breeding in the Barren Islands, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 7), U.S. Fish and Wildlife Service, Homer, Alaska. (NTIS No. PB97-112676)

Bird 8

Oakley, K.L., T.L. Wade, and D.B. Irons. 1995. Aliphatic and polycyclic aromatic hydrocarbons in eggs, livers and stomach contents of black-legged kittiwakes in Prince William Sound, Alaska, after the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 8), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB99-112294)

Bird 9

Oakley, K.L. and K.J. Kuletz. 1994. Population, reproduction and foraging of pigeon guillemots at Naked Island, Alaska, before and after the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 9), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-204276)

Bird 11

Patten, S.M., Jr., T. Crowe, R. Gustin, R. Hunter, P. Twaite, and C. Hastings. 2000. Assessment of injury to sea ducks from hydrocarbon uptake in Prince William Sound and the Kodiak Archipelago, following the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 11), Alaska Department of Fish and Game, Division of Wildlife Conservation, Anchorage, Alaska. (NTIS No. PB2001-100969 - volume 1; NTIS No. PB2001-100970 - volume 2)

Bird 12/Restoration Study 17

Andres, B.A. 1995. The effects of the *Exxon Valdez* oil spill on black oystercatchers breeding in Prince William Sound, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 12, Restoration Study Number 17), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-204292)

Bird 12-1

Martin, P.D. 1993. Effects of the *Exxon Valdez* oil spill on migrant shorebirds using rocky intertidal habitats of Prince William Sound, Alaska, during spring, 1989, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Bird Study Number 12-1), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB97-155998)

Coastal Habitat 1A

Highsmith, R.C., M.S. Stekoll, W.E. Barber, L. McDonald, D. Strickland, and W.P. Erickson. 1994. Comprehensive assessment of coastal habitat, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Coastal Habitat Study Number 1A), School of Fisheries and Ocean Sciences, University of Alaska, Fairbanks, Alaska. (NTIS No. PB99-110447)

Coastal Habitat 1B

Babcock, M.B. and J.W. Short. 1996. Prespill and postspill concentrations of hydrocarbons in sediments and mussels in intertidal sites within Prince William Sound and the Gulf of Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Coastal Habitat Study Number 1B), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska. (NTIS No. PB96-194824)

Economic Studies

[The following economic reports were not published by the *Exxon Valdez* Oil Spill Trustee Council, but are included so this list of damage assessment reports will be complete.]

Brown, G. Jr. 1992. Replacement costs of birds and mammals. Distributed by the State of Alaska Attorney General's Office.

Carson, R.T. and W.M. Hanemann. 1992. A preliminary economic analysis of recreational fishing losses related to the *Exxon Valdez* oil spill: A report to the Attorney General of the State of Alaska.

Carson, R.T., R.C. Mitchell, W.M. Hanemann, R.J. Kopp, S. Presser, and P.A. Ruud. 1992. A contingent valuation study of lost passive use values resulting from the *Exxon Valdez* oil spill: A report to the Attorney General of the State of Alaska. (Economic Study 7)

McDowell Group. 1990. An assessment of the impact of the *Exxon Valdez* oil spill on the Alaska tourism industry, Preston, Thorgrimson, Shidler, Gates, and Ellis, Seattle, Washington.

Mills, M.J. 1992. Alaska sport fishing in the aftermath of the *Exxon Valdez* oil spill, Special Publication No. 92 - 5, Alaska Department of Fish and Game, Division of Sport Fish, Anchorage, Alaska.

Fish/Shellfish 1/Restoration 9/Restoration 60B

Fried, S.M., B.G. Bue, D. Sharp, and S. Sharr. 1998. Injury to spawning areas and an evaluation of spawning escapement enumeration of pink salmon in Prince William Sound, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 1, Restoration Study Number 9, Restoration Study Number 60B), Alaska Department of Fish and Game, Division of Commercial Fisheries, Anchorage, Alaska. (NTIS No. PB2000-102403)

Fish/Shellfish 2

Sharr, S., B.G. Bue, S.D. Moffitt, A. Craig, and D.G. Evans. 1994. Injury to salmon eggs and preemergent fry in Prince William Sound, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 2), Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Cordova, Alaska. (NTIS No. PB96-194840)

Fish/Shellfish 3

Sharr, S., C.J. Peckham, D.G. Sharp, L. Peltz, J.L. Smith, M.T. Willette, D.G. Evans, and B.G. Bue. 1996. Coded wire tag studies on Prince William Sound salmon, 1989-1991, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 3), Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Anchorage, Alaska. (NTIS No. PB96-196936)

Fish/Shellfish 4

Wertheimer, A.C., A.G. Celewycz, M.G. Carls, and M.V. Sturdevant. 1994. Impact of the oil spill on juvenile pink and chum salmon and their prey in critical nearshore habitats, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 4, NMFS Component), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska.

Fish/Shellfish 4A

Willette, T.M., G. Carpenter, P. Shields, and S.R. Carlson. 1994. Early marine salmon injury assessment in Prince William Sound, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 4A), Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Cordova, Alaska. (NTIS No. PB96-194758)

Fish/Shellfish 5 (Restoration 90)

Hepler, K.R., P.A. Hansen and D.R. Bernard. 1994. Impact of oil spilled from the *Exxon Valdez* on survival and growth of Dolly Varden and cutthroat trout in Prince William Sound, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 5; Restoration Study Number 90), Alaska Department of Fish and Game, Division of Sport Fish, Anchorage, Alaska.

Fish/Shellfish 7B and 8B

Swanton, C.O., T.J. Dalton, B.M. Barrett, D. Pengilly, K.R. Brennan, and P.A. Nelson. 1993. Effects of pink salmon (*Oncorhynchus gorbuscha*) escapement level of egg retention, preemergent fry, and adult returns to the Kodiak and Chignik management areas caused by the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 7B and 8B), Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Kodiak, Alaska.

Fish/Shellfish 11

Brown, E.D. and T.T. Baker. 1998. Injury to Prince William Sound herring following the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 11), Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Cordova, Alaska. (NTIS No. PB99-

151169)

Fish/Shellfish 13

Trowbridge, C., T.T. Baker, and J.D. Johnson. 2001. Effects of hydrocarbons on bivalves following the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 13), Alaska Department of Fish and Game, Division of Commercial Fisheries, Anchorage, Alaska. (NTIS No. PB2003-102851)

Fish/Shellfish 16

Kaill, M. and M.M. Babcock. 1990. Prince William Sound oysters, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Preliminary Status Report (Fish/Shellfish Study Number 16), Alaska Department of Fish and Game Fisheries Rehabilitation, Enhancement and Development Division; and National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Juneau, Alaska. (This report is not available at copy centers. See the Natural Resource Damage Assessment Interim Report series at the libraries listed.)

Fish/Shellfish 18

Haynes, E., T. Rutecki, M. Murphy, and D. Urban. 1995. Impacts of the *Exxon Valdez* oil spill on bottomfish and shellfish in Prince William Sound, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 18), U.S. National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska.

Fish/Shellfish 19

Norcross, B.L. and M. Frandsen. 1998. Injury to larval fish in Prince William Sound, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 19), Alaska Department of Fish and Game, Habitat and Restoration Division, Anchorage, Alaska. (NTIS No. PB99-151144)

Fish/Shellfish 22

Freese, J.L. and C.E. O'Clair. 1995. Injury to crabs outside Prince William Sound, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 22), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska. (NTIS No. PB96-194782)

Fish/Shellfish 25

Kaill, M. 1990. Injury to scallop resources in Kodiak waters, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Preliminary Status Report (Fish/Shellfish Study Number 25), Alaska Department of Fish and Game, Fisheries Rehabilitation, Enhancement and Development Division, Juneau, Alaska. (This report is not available at copy centers. See the Natural Resource Damage Assessment Interim Report series at the libraries listed.)

Fish/Shellfish 27

Schmidt, D.C., K.E. Tarbox, B.M. Barrett, L.K. Brannian, S.R. Carlson, J.A. Edmundson, J.M. Edmundson, S.G. Honnold, B.E. Kind, G.B. Kyle, P.A. Roche, P. Shields, and C.O. Swanton. 1993. Sockeye salmon overescapement, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 27), Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Soldotna, Alaska.

Fish/Shellfish 28

Geiger, H.J., W.D. Templin, J.S. Collie, and T.J. Quinn II. 1995. Run reconstruction and life history model, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 28), Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Juneau, Alaska. (NTIS No. PB96-

208418)

Fish/Shellfish 30

DiCostanzo, C. and B.P. Simonson. 1993. Database management, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Fish/Shellfish Study Number 30), Alaska Department of Fish and Game, Division of Commercial Fisheries, Juneau, Alaska.

Marine Mammal 1

Dahlheim, M.E. and O. von Ziegesar. 1993. Effects of the *Exxon Valdez* oil spill on the abundance and distribution of humpback whales (*Megaptera novaeangliae*) in Prince William Sound, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 1), U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Seattle, Washington. (NTIS No. PB96-194634)

Marine Mammal 2

Dahlheim, M.E. and C.O. Matkin. 1993. Assessment of injuries to killer whales in Prince William Sound, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 2), U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Seattle, Washington. (NTIS No. PB96-194642)

Marine Mammal 4

Calkins, D.G., E.F. Becker, T.R. Spraker, and T.R. Loughlin. 1994. Assessment of injury to Steller sea lions in Prince William Sound and the Gulf of Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 4), Alaska Department of Fish and Game, Division of Wildlife Conservation, Anchorage, Alaska. (Not available from NTIS)

Marine Mammal 5 (Restoration Study 73)

Frost, K.J. and L.F. Lowry. 1994. Assessment of injury to harbor seals in Prince William Sound, Alaska, and adjacent areas following the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 5, Restoration Study Number 73), Alaska Department of Fish and Game, Wildlife Conservation Division, Fairbanks, Alaska. (NTIS No. PB96-197116)

Marine Mammal 6-1

Ballachey, B.E. 1995. Biomarkers of damage to sea otters in Prince William Sound, Alaska following potential exposure to oil spilled from the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-1), U.S. Fish and Wildlife Service, Anchorage, Alaska.

Marine Mammal 6-2

Ballachey, B.E. and K.A. Kloecker. 1997. Hydrocarbon residues in tissues of sea otters (*Enhydra lutris*) collected from Southeast Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-2), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB98-136872)

Marine Mammal 6-3

Ballachey, B.E. and K.A. Kloecker. 1997. Hydrocarbons in hair, livers and intestines of sea otters (*Enhydra lutris*) found dead along the path of the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-3), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB97-205652)

Marine Mammal 6-4

Bodkin, J.K., D.M. Mulcahy, and C.J. Lensink. 1996. Age-specific reproduction in female sea otters (*Enhydra lutris*) from Southcentral Alaska: analysis of reproductive tracts, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-4), U.S Fish and Wildlife Service, Anchorage, Alaska.

Marine Mammal 6-5

Bodkin, J.L. and M.S. Udevitz. 1995. An intersection model for estimating sea otter mortality from the *Exxon Valdez* oil spill along the Kenai Peninsula, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-5), U.S Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-194980)

Marine Mammal 6-6

Burn, D.M. 1994. Boat-based population surveys of sea otters (*Enhydra lutris*) in Prince William Sound, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-6), U.S Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB99-112245)

Marine Mammal 6-7

DeGange, A.R., D.C. Douglas, D.H. Monson, and C.M. Robbins. 1995. Surveys of sea otters in the Gulf of Alaska in response to the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-7), U.S Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-195003)

Marine Mammal 6-8

Doroff, A.M. and J.L. Bodkin. 1996. Sea otter foraging behavior and hydrocarbon concentrations in prey following the *Exxon Valdez* oil spill in Prince William Sound, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-8), U.S Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB98-136898)

Marine Mammal 6-9

Doroff, A.M., and A.R. DeGange. 1995. Experiments to determine drift patterns and rates of recovery of sea otter carcasses following the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-9), U.S Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-194972)

Marine Mammal 6-10

Lipscomb, T.P., R.K. Harris, R.B. Moeler, J.M. Pletcher, R.J. Haebler, and B.E. Ballachey. 1996. Histopathologic lesions associated with crude oil exposure in sea otters, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-10), U.S Fish and Wildlife Service, Anchorage, Alaska.

Marine Mammal 6-11

Lipscomb, T.P., R.K. Harris, A.H. Rebar, B.E. Ballachey, and R.J. Haebler. 1996. Pathological studies of sea otters, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-11), U.S Fish and Wildlife Service, Anchorage, Alaska.

Marine Mammal 6-12

Monnett, C. and L.M. Rotterman. 1992. Movements of weanling and adult female sea otters in Prince William Sound, Alaska after the T/V *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-12), U.S Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-194899)

Marine Mammal 6-13

Monnett, C. and L.M. Rotterman. 1992. Mortality and reproduction of female sea otters in Prince William Sound, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-13), U.S Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-195964)

Marine Mammal 6-14

Monnett, C. and L.M. Rotterman. 1992. Mortality and reproduction of sea otters oiled and treated as a result of the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-14), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-196902)

Marine Mammal 6-15

Monson, D.H. and B. Ballachey. 1995. Age distributions of sea otters found dead in Prince William Sound, Alaska following the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-15), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-194675)

Marine Mammal 6-16

Ballachey, B.E. and K.A. Kloecker. 1997. Hydrocarbon residues in tissues of sea otters (*Enhydra lutris*) collected following the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-16), U.S. Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB97-205645)

Marine Mammal 6-17

Rebar, A.H., B.E. Ballachey, D.K. Bruden, and K.A. Kloecker. 1996. Hematology and clinical chemistry of sea otters captured in Prince William Sound, Alaska following the *Exxon Valdez* oil spill, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-17), U.S Fish and Wildlife Service, Anchorage, Alaska.

Marine Mammal 6-18

Rotterman, L.M. and C. Monnett. 1991. Mortality of sea otter weanlings in eastern and western Prince William Sound, Alaska, during the winter of 1990-91, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-18), U.S Fish and Wildlife Service, Anchorage, Alaska. (NTIS No. PB96-194998)

Marine Mammal 6-19

Udevitz, M.S., J.L. Bodkin, and D.P. Costa. 1995. Detection of sea otters in boat-based surveys of Prince William Sound, Alaska, *Exxon Valdez* Oil Spill State/Federal Natural Resource Damage Assessment Final Report (Marine Mammal Study Number 6-19), U.S Fish and Wildlife Service, Anchorage, Alaska.

Restoration Study 11

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Restoration Study 15-1

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