

Trustee Council Use Only

Project No: _____

Date Received: _____

**PROPOSAL SUMMARY PAGE
(To be filled in by proposer)**

Project Title: ARLIS – Alaska Resources Library & Information Services

Project Period: FY 06

Proposer(s): Carrie Holba
Alaska Resources Library and Information Services (ARLIS)
Suite 111 Library Building
3211 Providence Drive
Anchorage, AK 99508

Study Location: Serves all geographic locations

Abstract:

Project 060550 represents the Trustee Council's contribution to Alaska Resources Library and Information Services (ARLIS). ARLIS serves as the central access point for information generated through the Trustee Council restoration process and the GEM program. In addition, ARLIS is the public repository for reports and other materials generated from and related to the cleanup, damage assessment, and restoration efforts following the *Exxon Valdez* oil spill (EVOS). ARLIS supports the research efforts and information needs of the Trustee Council Office, principal investigators, natural resources professionals, and the general public. ARLIS was established in 1997 with the consolidation of seven natural resources libraries and the Council funded Oil Spill Public Information Center (OSPIC). Since that time, the Council, as a founding agency, has contributed budgetary support for ARLIS. With the exception of Fiscal Year 1994, this activity has historically been funded under the Public Information, Science Management and Administration Budget (Project /100). Funding as a separate project began in Fiscal Year 2001, as Project 01550.

Funding: EVOS Funding Requested: FY 06 \$ 139.6
(must include 9%GA)

TOTAL: \$139.6

Non-EVOS Funds to be Used: FY 06 \$

TOTAL: \$139.6

Date: July 18, 2005

PROJECT PLAN

I. NEED FOR THE PROJECT

A. Statement of Problem

Over the years, a vast array of scientific literature has been produced as a result of the *Exxon Valdez* oil spill and subsequent restoration and monitoring programs. Alaska Resources Library and Information Services (ARLIS) serves as a repository for all reports and publications generated as a result of the restoration and research process, provides guidance to the principal investigators regarding preparation of the reports, and distributes the reports to individuals and libraries as appropriate. ARLIS also supplies the principal investigators with research materials and reference service pertinent to their restoration and monitoring projects.

All research begins with identifying and compiling existing information. This is especially true of the restoration process and GEM program, wherein a review of current knowledge is built into the research process. ARLIS's comprehensive natural and cultural resources collection provides access to current and historic information, some of which is available nowhere else. Materials not available directly from ARLIS are borrowed from other libraries, making comprehensive access to information possible for researchers.

The ARLIS collection contains more than 160,000 books, including agency publications, technical reports, and masters and doctoral theses, 700 journals, 170 electronic journals, maps and atlases, legal reference materials, federal and state documents, public review documents, administrative records, videotapes, audiotapes, slides, photographs, electronic databases, environmental education kits, and a circulating collection of furs, skulls, and mounted birds. These materials are cataloged in a global bibliographic database making most circulating items accessible to users around the world. The library catalog is available for searching at the ARLIS website at www.arlis.org.

ARLIS provides universal access to Alaska natural and cultural resources information. Since it was established in October 1997, ARLIS annually receives over 21,000 visitors, responds to 15,000 requests for information, performs over 15,000 interlibrary loans and circulates 14,000 books. Approximately 15% of the use of the library is directly related to the *Exxon Valdez* oil spill and the Trustee Council's restoration and monitoring programs. In addition, 20% of the materials borrowed by other libraries from ARLIS are EVOS materials. It is anticipated that the September 1, 2006 deadline for the governments' response to the settlement reopener clause will bring an increase in public and media attention to the spill and subsequent restoration and research efforts. More librarian time will be required to meet the associated information needs of state and federal agency staff, the media, students and the general public.

Funding for Project 060550 will support 1.25 FTE librarians to meet the on-going information and research needs of the Trustee Council staff, the Public Advisory Committee, researchers, resource managers, and the general public and the increase in workload resulting from the reopener clause.

B. Relevance to 1994 Restoration Plan Goals and Scientific Priorities

ARLIS's mission (stated below) and established networks, partnerships, and procedures make it particularly well suited to facilitate the meaningful public participation in the restoration process mandated by the Memorandum of Agreement and Consent Decree, and to provide essential support for the Trustee Council's research priorities. The Council's policies, as specified in the *Restoration Plan* and the *GEM Program Document*, include a strong commitment to public information. ARLIS ensures that findings and results of research and restoration efforts are available to the public, scientists, and agency staff to help understand the status of injured resources and services, plan for future restoration, research and monitoring, and provide documentation of a body of scientific research on which future studies can build.

ARLIS Mission Statement: Alaska Resources Library and Information Services provides universal access to natural and cultural resources information. The library staff and ARLIS's federal, state, university, and future partners recognize that improved understanding of Alaska's resources facilitates wise development, conservation and management. ARLIS serves the diverse information needs of its customers in an unbiased and effective manner.

In recognition of the need for accessibility, the National Research Council's comments and recommendations for the GEM program point to the importance of comprehensive data and information management (NRC 2002, pg. 83). Such an effort should include both physical and electronic accessibility, permanent storage for print resources resulting from and important to the program, cataloged access to electronic resources for and generated by research, and reference service for both researchers and those seeking to use the results of the research. In addition to a superlative collection of scientific materials, the ARLIS staff provides valuable reference service, literature searches, and document delivery to Trustee Council staff and principal investigators. Comprehensive access to materials is provided through extensive subject indexing and complete item description.

II. PROJECT DESIGN

A. Objectives

- Objective 1. Support the research efforts and information needs of the EVOS Trustee Council staff, the principal investigators, resource managers, and the general public through reference service, document delivery, and acquisition of relevant materials.
- Objective 2. Provide reliable, permanent access to EVOS, restoration, and GEM program information and materials for local, state, national, and international users.

B. Procedural and Scientific Methods

Objective 1. Support the research efforts and information needs of the EVOS Trustee Council staff, the principal investigators, and the general public through reference service, document delivery, and acquisition of relevant materials.

ARLIS provides access to information through participation in library networks and a global bibliographic database. Through cooperative collection development efforts, appropriate books, technical reports, journals, gray literature, videotapes, maps, and other materials are acquired and cataloged. A web-accessible library catalog, through a partnership with the UAA/APU Consortium Library and the Anchorage Municipal Libraries, provides worldwide access to ARLIS materials through interlibrary loan services. Thousands of full text publications are available through web links in the catalog record. Reference service is provided on-site and off-site via phone, mail, fax and email. Local and remote founding agency patrons receive document delivery of in-house materials, and books and journal articles obtained from libraries throughout the world. The library provides in-house access to topical databases to the general public and desktop access to agency users. Additional databases are available through a partnership with the UAA/APU Consortium Library.

Objective 2. Provide reliable, permanent access to EVOS, restoration, and GEM program information and materials for local, state, national, and international users.

Complete and accurate catalog records are essential for easy access to EVOS, restoration, and GEM program materials through the ARLIS catalog and global bibliographic utilities. ARLIS catalogers follow national standards and strict cataloging convention to provide original, descriptive cataloging of the highest quality. They are experts in cataloging Alaska natural resources materials. In March 2004, the ARLIS catalogers received approval from the Library of Congress for their proposal to create several new subject headings, including “*Exxon Valdez Oil Spill, 1989*” and “*Traditional Ecological Knowledge*”. Researchers are benefiting from the increased access these new subject headings provide.

ARLIS’s on-going effort to acquire, catalog, and preserve EVOS, restoration and monitoring print materials, as well as other spill related publications, agency reports and gray literature, circumvents the potential unreliability of web-based documents, associated hardware/software obsolescence and incompatibility issues, and ensures permanent access to these valuable materials.

In addition to print materials, ARLIS has cataloged thousands of web-based documents and publications. In the process, the staff has encountered the instability of electronic documents on the web. Documents change location; new versions replace earlier versions; documents disappear completely. Electronic documents are often comprised of multiple files, as many as fifty for large documents, and getting the complete document is not assured. Some documents are published only on the web, making URL stability critical to maintaining a complete, permanent record of scientific progress. “Link rot”, as this web site attrition has been dubbed, is a growing concern for the scientific community. Recent studies documenting the transience of internet references have shown an attrition rate as high as 13% 27 months after publication, 59%

36 months after publication, and 43% 44 months after publication (Dellaville et al. 2003, Veronin 2002, Markwell and Brooks 2002).

Web site attrition is also of great concern to libraries charged with preserving access to important information, and ARLIS has taken steps toward preserving access to electronic documents. To guard against “link rot”, ARLIS catalogers use national standards and practices to catalog electronic documents completely and accurately. Broken links are tracked to ensure the catalog records contain current URLs. With funding from a Department of Interior (DOI) appropriation, ARLIS established an on-going process to provide stable URLs for selected Alaska natural resources materials via a server housed at ARLIS. Web-based documents produced by or important to agencies are identified and cataloged. The documents are loaded onto the ARLIS server and given a Permanent URL (PURL). The PURL is included in the catalog record allowing the searcher to go from the record to the document with one click. The DOI appropriation also funded the digitizing of the final reports of the Outer Continental Shelf Environmental Assessment Program (OCSEAP). These important studies are now available on the web via the ARLIS catalog, readily accessible and easier to use. Additional funding as been requested in FY 06 through the Department of Interior, and more agency publications will be digitized as funding becomes available.

C. Data Analysis and Statistical Methods

ARLIS keeps detailed statistics on library use, including the number of visitors, requests for information, interlibrary loan transactions, items cataloged, books circulated, and web site use, which are analyzed to identify changes and trends in library use. These statistics are presented regularly to the ARLIS Founders Board, of which the EVOS Trustee Council Executive Director is a member.

D. Description of Study Area

ARLIS serves EVOS researchers in all study areas, and provides EVOS and GEM related information and materials to users nationwide and throughout the world.

E. Coordination and Collaboration with Other Efforts

ARLIS is a partnership: ARLIS is a consolidation of eight libraries and information centers from state and federal agencies and a university institute:

Alaska Department of Fish and Game
Bureau of Land Management
Environment and Natural Resources Institute (UAA)
Exxon Valdez Oil Spill Trustee Council
Fish and Wildlife Service
Minerals Management Service

National Park Service
U.S. Geological Survey

The University of Alaska Anchorage is also a partner, although its library collection is not a part of ARLIS, as is the U.S. Army Fort Richardson Environmental Division. Representatives of the eight founding agencies comprise the ARLIS Founders Board, which is responsible for policy and budget decisions for the library. The EVOS Trustee Council Executive Director is a member of the Founders Board.

Shared library catalog: ARLIS shares a library catalog with the Anchorage Municipal Libraries, the UAA/APU Consortium Library, and the Anchorage Museum of History and Art Library. The holdings of all partner libraries can be searched 24 hours a day by anyone with internet access. A cooperative borrowing agreement allows patrons to use library cards issued from one partner library at all other partner libraries.

Statewide ILLiad service: ARLIS is also a partner in a statewide collaboration to bring improved interlibrary loan management software, ILLiad, to Alaska libraries. ILLiad is a high powered system that makes interlibrary loan requesting easier for the patron, management of those requests easier for library staff, and provides usage data that is valuable in making collection development decisions. Funded by a Rasmuson Foundation grant, this effort takes advantage of consortial discounts and makes ILLiad available for two to three years to partner libraries. Prior to joining the statewide partnership, ARLIS used ILLiad for 18 months with great success. Now ARLIS receives the financial benefit of this partnership.

Data management: As stated in the *GEM Invitation for Proposals for FFY 05*, "Data Management and Information Transfer provides the essential function of extracting the full scientific and societal benefits from GEM projects." Accessibility to findings and results of research is key to maximizing the research benefit. ARLIS complements the data management functions by serving as a permanent repository for print materials, providing cataloged access to electronic resources, and facilitating the dissemination of EVOS related information. ARLIS serves as a two-way channel providing information service to the researchers and a means of conveying research findings and results to those in need of the information.

III. SCHEDULE

A. Project Milestones

Objective 1. Support the research efforts and information needs of the EVOS Trustee Council staff, the principal investigators, resource managers, and the general public through reference service, document delivery, and acquisition of relevant materials.

On-going.

Objective 2. Provide reliable, permanent access to EVOS, restoration, and GEM program information and materials for local, state, national, and international users.

On-going.

B. Measurable Project Tasks

On-going tasks that apply to both objectives throughout each fiscal year:

1. Review and approve format of project final reports, maintain a list of completed reports, and distribute reports to appropriate libraries and the National Technical Information Service; catalog reports in a global bibliographic database for access throughout the world.
2. Generate a monthly report for the EVOS office on the status of reports in the format review and distribution process.
3. Maintain for public review the public record copy of the Trustee Council official record.
4. Maintain for public access a file of peer reviewed journal articles and conference papers resulting from Trustee Council funded research.
5. Provide reference service for EVOS, restoration, and GEM related topics and other information needs to the EVOS Trustee Council staff, science review staff, principal investigators, Public Advisory Committee, media, students and faculty, spill area residents, resource agency professionals, and the general public.
6. Acquire and catalog publications generated by the Trustee Council.
7. Acquire and catalog other oil spill, restoration, and monitoring related materials deemed appropriate for the collection and necessary to support the restoration process and Trustee Council research.
8. Maintain an annotated list of web sites relevant to EVOS, the restoration process, the GEM program, and other related monitoring and research efforts.
9. Update topic bibliographies for the Trustee Council web site.
10. Provide quarterly reports and an annual summary of library usage statistics and staff projects.

IV. RESPONSIVENESS TO KEY TRUSTEE COUNCIL STRATEGIES

A. Community Involvement and Traditional Ecological Knowledge (TEK)

Project 060550 supports various aspects of community involvement. As a public facility that is well used by the community, ARLIS is in the forefront with assisting the general public and spill community residents to learn about the restoration process and GEM program. One particular focus of the ARLIS collection is materials that document the use, interpretation, and compilation of traditional ecological knowledge. ARLIS also provides research support to those principal investigators conducting research in the areas of subsistence and traditional ecological knowledge.

B. Resource Management Applications

ARLIS was established in 1997 by the directors of resource management agencies to better serve existing information needs in the agencies. Several of these agencies (FWS, ADF&G MMS) have direct ties to the management of marine resources. All ARLIS agencies address the impacts of human activities on the resources they manage as part of their normal agency operations. ARLIS reference librarians collaborate with and assist resource management agency staff on a daily and on-going basis with research needs and project objectives. ARLIS staff continually develop additional tools and acquire advancing information technologies to assist agency staff in fulfilling information needs. Through the ARLIS Founders Board, via a direct collaboration with agency directors, this project perpetuates the development of resource management applications in ARLIS's area of specialization.

V. PUBLICATIONS AND REPORTS

ARLIS is not requesting funding for publication.

VI. PROFESSIONAL CONFERENCES

ARLIS is not requesting funding for travel to professional conferences. ARLIS principal investigator will attend the annual marine science workshop.

LITERATURE CITED

- Dellaville, R.P., E.J. Hester, L.F. Heilig, A.L. Drake, J.W. Kuntzman, M. Graber, and L.M. Schilling. 2003. Going, going, gone: lost internet references. *Science*, 302(5646): 787-788.
- Markwell, J. and D.W. Brooks. 2002. Broken links: the ephemeral nature of educational WWW hyperlinks. *Journal of Science and Educational Technology*, 11: 105-108.
- National Research Council. 2002. *A century of ecosystem science: planning long-term research in the Gulf of Alaska*. National Academy of Science Press, Washington, D.C.
- Veronin, M.A. 2002. Where are they now? A case study of health-related web site attrition. *Journal of Medical Internet Research*, 4(2): E10.

Carrie Holba

Alaska Resources Library & Information Services (ARLIS)
Suite 111 Library Building
3211 Providence Drive
Anchorage, Alaska 99508

(907) 27-ARLIS (272-7547) reference desk
(907) 786-7660 office
(907) 786-7652 fax
carrie@arlis.org

Ms. Holba holds a masters degree in Library and Information Science. In February 1991, she joined the staff of the Oil Spill Public Information Center (OSPIC), serving as public services librarian and then as director since 1992. Since OSPIC was consolidated with ARLIS in October 1997, Ms. Holba has served as reference services coordinator and a member of the ARLIS library management team, and continues to specialize in EVOS, oil spill and GEM related reference service. She is employed by the Alaska Department of Fish and Game, with funding from the EVOS Trustee Council.

Professional Experience:

Alaska Resources Library & Information Services (ARLIS) Management team (1997 - present) Reference Services Coordinator (1997 - present)	1997 - present
Oil Spill Public Information Center (OSPIC) Director (1992 - 1997) Public Services Librarian (1991 - 1992)	1991 - 1997

Education:

Master of Library and Information Science (MLIS)
University of Wisconsin - Milwaukee, 1988

Bachelor of Science in Early Childhood Education (BS ECED)
University of Wisconsin - Milwaukee, 1979

Publications:

Holba, C., M. McGee, and P. Thompson. 1993. Oil Spill Public Information Center: its role in the flow of information on the *Exxon Valdez* oil spill. Page 866 in 13th International Oil Spill Conference: Prevention, Preparedness, Response: Proceedings, March 29 - April 1, 1993, Tampa, Florida, American Petroleum Institute, 4580.

Collaborations:

ARLIS Management Team:
Juli Braund-Allen, UAA's Environment and Natural Resources Institute

Christine Huffaker, Minerals Management Service
Celia Rozen, Alaska Department of Fish and Game
Nancy Tileston, U.S. Fish and Wildlife Service
Cathy Vitale, Bureau of Land Management

Statewide Virtual Reference Service Team, reference coordinators from:

Alaska State Library
Anchorage Municipal Libraries
ARLIS
Fairbanks North Star Borough Library
Juneau Public Library
UAA/APU Consortium Library
UA Fairbanks, Elmer E. Rasmuson Library
UA Southeast, William A. Egan Library

Sirsi Joint Public Access Catalog Work Group, reference and automation coordinators from:

ARLIS
Anchorage Municipal Libraries
Anchorage Museum of History and Art Library
UAA/APU Consortium Library

Sirsi Circulation Work Group, circulation and automation coordinators from:

ARLIS
Anchorage Municipal Libraries
Anchorage Museum of History and Art Library
UAA/APU Consortium Library

Professional Affiliations:

American Library Association
Special Libraries Association
Alaska Library Association

Awards:

2001 *National Award for Museum and Library Service* - the only national level award for library service; awarded by the Institute of Museum and Library Service, for innovation, partnership, and excellence in library service, and presented by First Lady Laura Bush.

2001 *Alaska State Legislative Citation* - honoring ARLIS for the National Award for Museum and Library Service.

1997 *National Performance Review "Golden Hammer" Award* from Vice President Al Gore - for the Alaska Natural Resources Library Group's efforts to establish ARLIS for efficiency in cost and function.

OTHER KEY PERSONNEL

Although ARLIS was established as a cost saving measure in response to state and federal budget cuts, the resulting library provides a vastly more comprehensive collection of Alaska resource information in a single location, served by highly qualified staff specializing in resource related information. As a founding agency of ARLIS, the Trustee Council benefits from the combined services of the library staff, including reference librarians, interlibrary loan specialists, collection development staff, catalogers, and web development specialists, all trained to meet the information needs of founding agency staff. ARLIS is a recipient of the 1997 National Performance Review "Golden Hammer" Award and the 2001 National Award for Museum and Library Service, for innovation, partnership, and excellence in library service.

BUDGET JUSTIFICATION

TITLE: Alaska Resources Library and Information Services (ARLIS)

PROJECT: 060550

This budget is for the EVOS Trustee Council contribution to funding for Alaska Resources Library and Information Services (ARLIS). With the exception of FY 94, this activity has historically been funded under the Public Information, Science Management, and Administration Budget (Project /100). Funding as a separate project began in FY 01 as Project 01550.

Established in 1997, ARLIS is a consolidation of eight libraries focused on Alaska natural and cultural resources, including the former Oil Spill Public Information Center, and is funded by contributions from its founding agencies: Alaska Department of Fish and Game, Bureau of Land Management, UAA's Environment and Natural Resource Institute, *Exxon Valdez* Oil Spill Trustee Council, U.S. Fish and Wildlife Service, Minerals Management Service, National Park Service, U.S. Geological Survey, and the University of Alaska Anchorage. The U.S. Army, Fort Richardson Environmental Division is a contributing partner.

Funding for Project 060550 will support 1.25 FTE librarians to meet the on-going information and research needs of the Trustee Council staff, the Public Advisory Committee, researchers, resource managers and the general public and the increase in workload resulting from the reopener clause.

FY 06 Project 060550

Personnel: Funding covers salary and employer costs through the Alaska Department of Fish and Game, Division of Administration, for one FTE Librarian III, Carrie Holba, at Range 19M, \$9.1 per month for 12 months, for a total cost of \$109.2.

Travel: None.

Contractual: Funding covers salary and employer costs through the University of Alaska Anchorage for one FTE Librarian, at Grade 78 Step 1, \$5.3 per month for 3 months for a total cost of \$16.0.

Commodities: None.

Equipment: None.

UAA Indirect (18%): \$2.9

General Administration: \$11.5.

FY 06 Project Total: \$139.6.

2006 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2005 - September 30, 2006

Budget Category:	Authorized FY 2005	Proposed FY 2006				
Personnel	\$ 90.00	\$ 109,200.00				
Travel		\$ -				
Contractual	\$ 30.00	\$ 16,017.00				
Commodities		\$0.0				
Equipment		\$ -	LONG RANGE FUNDING REQUIREMENTS			
Indirect (18% UAA)		\$ 2,883.06				
Subtotal	\$ 120.00	\$ 128,100.06				
General Administration	\$ 10.80	\$ 11,529.01			Estimated	
Project Total	\$ 130.80	\$ 139,629.07			FY 2007	
					\$125,700.00	
Full-time Equivalents (FTE)	1.0	1.0				
			Dollar amounts are shown in thousands of dollars.			
Other Resources						
Comments:						
<p>This budget is for the Trustee Council contribution to funding for Alaska Resources Library and Information Services (ARLIS). With the exception of Fiscal Year 1994, this activity has historically been funded under the Public Information, Science Management, and Administration Budget (Project /100). Funding as a separate project began in Fiscal Year 2001, as Project 01550.</p> <p>Established in 1997, ARLIS is a consolidation of eight libraries focused on Alaska natural and cultural resources, including the former Oil Spill Public Information Center, and is funded by contributions from its founding agencies: Alaska Department of Fish and Game, Bureau of Land Management, UAA's Environment and Natural Resource Institute, <i>Exxon Valdez</i> Oil Spill Trustee Council, U.S. Fish and Wildlife Service, Minerals Management Service, National Park Service, U.S. Geological Survey, and the University of Alaska Anchorage. The U.S. Army, Fort Richardson Environmental Division is a contributing partner.</p> <p>Additional staff time is included in FY 06 to cover the increase in workload resulting from the reopener</p>						

FY06

Project Number: 060550
 Project Title: ARLIS - Alaska Resources Library & Information Services
 Agency: Alaska Department of Fish and Game

2006 EXXON VALDEZ TRUSTEE COUNCIL PROJECT BUDGET

October 1, 2005 - September 30, 2006

Prepared: _____

New Equipment Purchases:		Number of Units	Unit Price
Description			

Those purchases associated with replacement equipment should be indicated by placement of an R. **New Equipment Total**

Existing Equipment Usage:		Number of Units
Description		

FY06

Project Number: 060550
 Project Title: ARLIS - Alaska Resources Library & Information Services
 Agency: Alaska Department of Fish and Game