



US Army Corps
of Engineers®

Engineer Research and
Development Center

Automated Dredging and Disposal Alternatives Modeling System (ADDAMS)

Technology

ADDAMS is a personal-computer-based design, analysis, and evaluation system for dredged material disposal and management. ADDAMS is a set of personal computer-based tools that enable Corps of Engineers field offices to rapidly evaluate alternatives for managing and disposing of dredged material.



Problem

Manual methods for evaluating dredged material management and disposal alternatives are cumbersome and time-consuming. Researchers in ERDC's Environmental Laboratory developed ADDAMS in response to requests by U.S. Army Corps of Engineers field offices for tools to rapidly evaluate dredged material management alternatives.

Expected Cost To Implement

The user incurs costs only in discretionary time spent using the system. ADDAMS runs on computer setups that are readily available, i.e., IBM-compatible personal computer with Pentium processor and Microsoft Windows 95 and higher family with mouse support.

Benefits/Savings

ADDAMS is a set of continually evolving, state-of-the-art, computer-based tools that will increase the accuracy, reliability, and cost-effectiveness of dredged material management activities in a timely manner. More specifically, ADDAMS provides necessary tools to perform the engineering and planning evaluation for development of a long-term management strategy for dredged material disposal and to evaluate the environmental acceptability of dredged material management alternatives.

Status

Presently, ADDAMS has programs for 16 applications involving management of dredged material disposal or evaluation of environmental acceptability of dredged material disposal alternatives. ADDAMS also includes a demo that gives information for eight of the programs.

ERDC POC

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Distribution Sources

ADDAMS is available online at <http://el.ercd.usace.army.mil/roducts.cfm?Topic=model&Type=drgmat>. Individuals unable to download ADDAMS from the Web can obtain the models and documentation on a CD-ROM by contacting Paul Schroeder at 601-634-3709; e-mail: Paul.R.Schroeder@usace.army.mil.

Available Training

Limited training is available annually at the DOTS Dredged Material Assessment and Management Seminar (see DOTS Web site for information on the seminar) and through the Dredging Operations Technical Support Program (see Available Support below). Additional training is provided to U.S. Army Corps of Engineers field offices on a reimbursable basis.

Available Support

ADDAMS is a set of user-friendly, computer-based models. Guidance that accompanies ADDAMS should make the models easy to use and navigate. However, if users experi-

ence problems in using ADDAMS, they are asked to contact Dr. Paul Schroeder at 601-634-3709 (Paul.R.Schroeder@usace.army.mil)