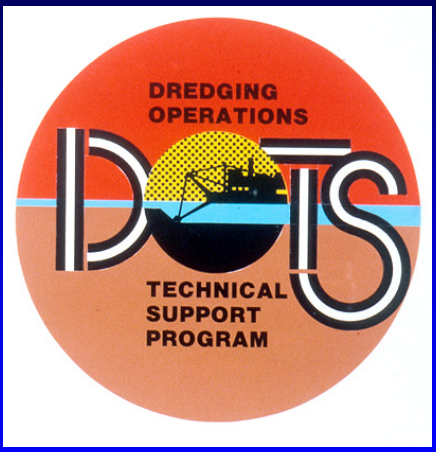
Dredging Operations Technical Support Program (DOTS)



Since 1978

Dr. Doug Clarke

DOTS MISSION AREA

NAVIGATION

DOTS
FUNCTIONS

- **Technology Transfer**
  - **Direct Technical Support**
  - **Training & Outreach**
  - **Technology Application**

Direct Technical Support

A Response Can…….

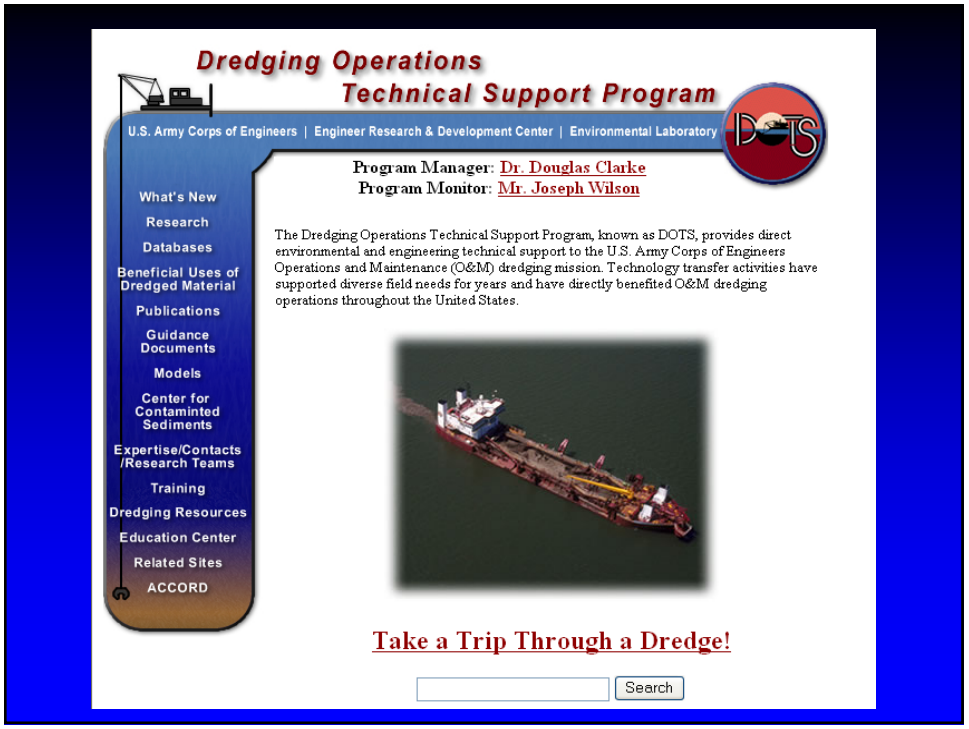
- **be initiated by letter or e-mail request**
- **consist of up to 2 weeks of senior scientist or engineer time & travel**
- **range from phone calls to on-site assistance**
- **result in products such as an MFR, technical document, or litigation testimony**

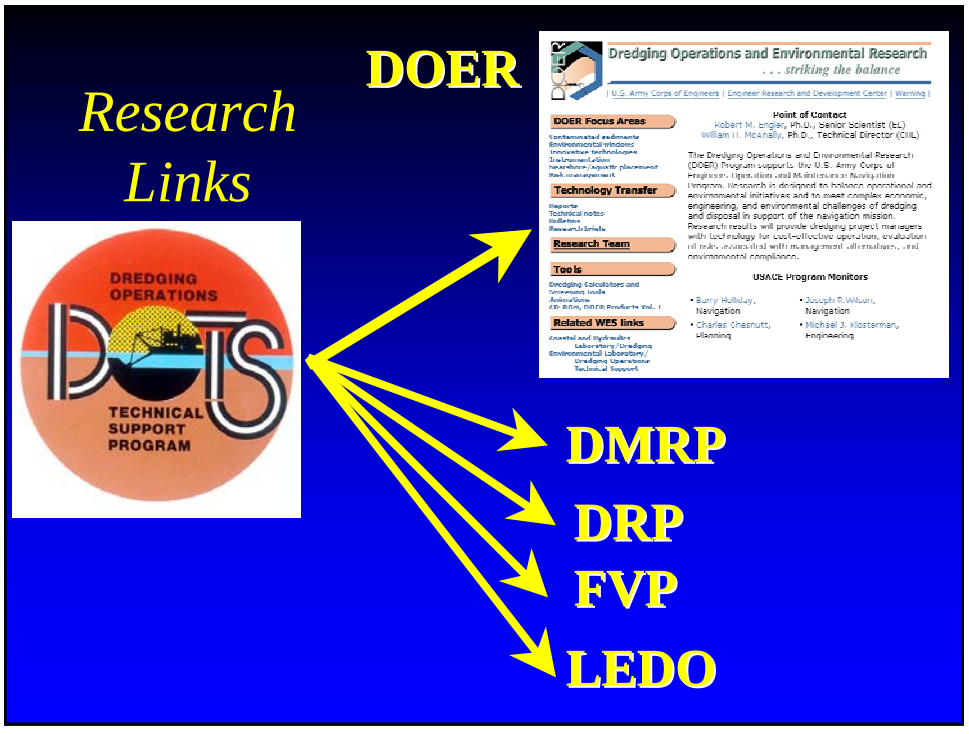
Activities

- **Training**
  - **Dredged Material Assessment and Management Seminar**
    - **San Francisco, 2002**
    - **Denver, 2003**
    - **Cleveland, 2004**
    - **Boston, 2005**

DOTS GOAL

- **Provide a gateway to comprehensive, up-to-date resources on all engineering and environmental aspects of navigation**
  - **Web-based tools**
  - **Maintain network of key points of contact**


Dredging Operations
Technical Support Program
U.S. Army Corps of Engineers | Engineer Research & Development Center | Environmental Laboratory
DOTS
What's New
Research
Databases
Beneficial Uses of Dredged Material
Publications
Guidance Documents
Models
Center for Contaminted Sediments
Expertise/Contacts /Research Teams
Training
Dredging Resources
Education Center
Related Sites
ACCORD
Program Manager: Dr. Douglas Clarke
Program Monitor: Mr. Joseph Wilson
The Dredging Operations Technical Support Program, known as DOTS, provides direct environmental and engineering technical support to the U.S. Army Corps of Engineers Operations and Maintenance (O&M) dredging mission. Technology transfer activities have supported diverse field needs for years and have directly benefited O&M dredging operations throughout the United States.
Take a Trip Through a Dredge!
Search


Research Links
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. . . striking the balance
DOER Focus Areas
Technology Transfer
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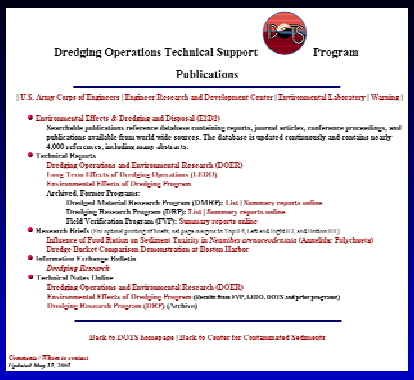
USACE Program Monitors
DMRP
DRP
FVP
LEDO

PUBLICATIONS

- Technical Notes
- Technical Reports
  - DOER – Active
  - DMRP, FVP, LEDO - Archived
- Dredging Research Bulletin
- Research Briefs



Dredging Operations Technical Support Program

Publications

[U.S. Army Corps of Engineers | Engineer Research and Development Center | Environmental Laboratory | Warning]

- Environmental Effects & Dredging and Disposal (EEDD)
  Searchable publications reference database containing reports, journal articles, conference proceedings, and publications available from world-wide sources. The database is updated continuously and contains nearly 4,000 references, including many abstracts.
- Technical Reports
  Dredging Operations and Environmental Research (DOER)
  Long Term Effects of Dredging Operations (LTEDO)
  Environmental Effects of Dredging Program
  Archived, Former Programs:
  Dredged Material Research Program (DMRP): List | Summary reports online
  Dredging Research Program (DRP): List | Summary reports online
  Field Verification Program (FVP): Summary reports online
- Research Briefs (Use optimal printing of briefs; cut page margins to 'Top:0.5, Left and Right:0.2, and Bottom:0.8')
  Influence of Food Ration on Sediment Toxicity in Neanthes arenaceodentata (Annelida: Polychaeta)
  Dredge Docket Cessation Demonstration at Rouses Harbor
- Information Exchange Bulletin
  Dredging Research
- Technical Notes: Online
  Dredging Operations and Environmental Research (DOER)
  Environmental Effects of Dredging Program (thematic from FVP, LEDO, HOTS and prior programs)
  Dredging Research Program (DRP) (Archive)

[Back to DOTS homepage | Back to Center for Contaminated Sediments]

Comments / Where to contact
Updated: May 22, 2006

GUIDANCE DOCUMENTS

- Engineer manuals
- Capping
- Testing Manuals
- Leachate Guidance
- Technical Framework
- Sediment Quality Guidelines

Dredging Operations Technical Support Program

Guidance Documents

[U.S. Army Corps of Engineers | Engineer Research and Development Center | Environmental Laboratory | Warning]

- Engineer Manuals
  "Dredging and Dredged Material Disposal," Engineer Manual 1110-2-5025
  "Dredged Material Beneficial Uses," Engineer Manual 1110-2-5026
  "Confined Disposal of Dredged Material," Engineer Manual 1110-2-5027
- Guidance for Subaqueous Dredged Material Capping (2.8 meg file size)
- Inland Test Manual
  Joint EPA / USACE Implementation Memorandum (pdf .3 meg)
  Inland Testing Manual
- Leachate Guidance:
  USACE Implementation Memorandum (pdf .2 meg)
  ref a: Technical Framework
  ref b (pdf 2.3 meg): Leachate Testing and Evaluation for Freshwater Sediments
  ref c (pdf 2.7 meg): Leachate Testing and Evaluation for Estuarine Sediments
  ref d (pdf .8 meg): Technical Note - Technical Considerations for Applications of Leach Tests of Sediments and Dredged Material
- Ocean Test Manual (Evaluation of Dredged Material Proposed for Ocean Disposal)
- Technical Framework (Evaluating Environmental Effects of Dredged Material Management Alternatives)
- USACE Implementation Memorandum for Sediment Quality Guidelines (SQG's) (References are linked from within the pdf document.)
- Regional Guidance
  Great Lakes Dredged Material Testing & Evaluation Manual
  Dredged Material Evaluation Framework, Lower Columbia River Management Area (Final, November 1998)

Evaluating Environmental Effects of Dredged Material Management Alternatives

—A Technical Framework

EPA

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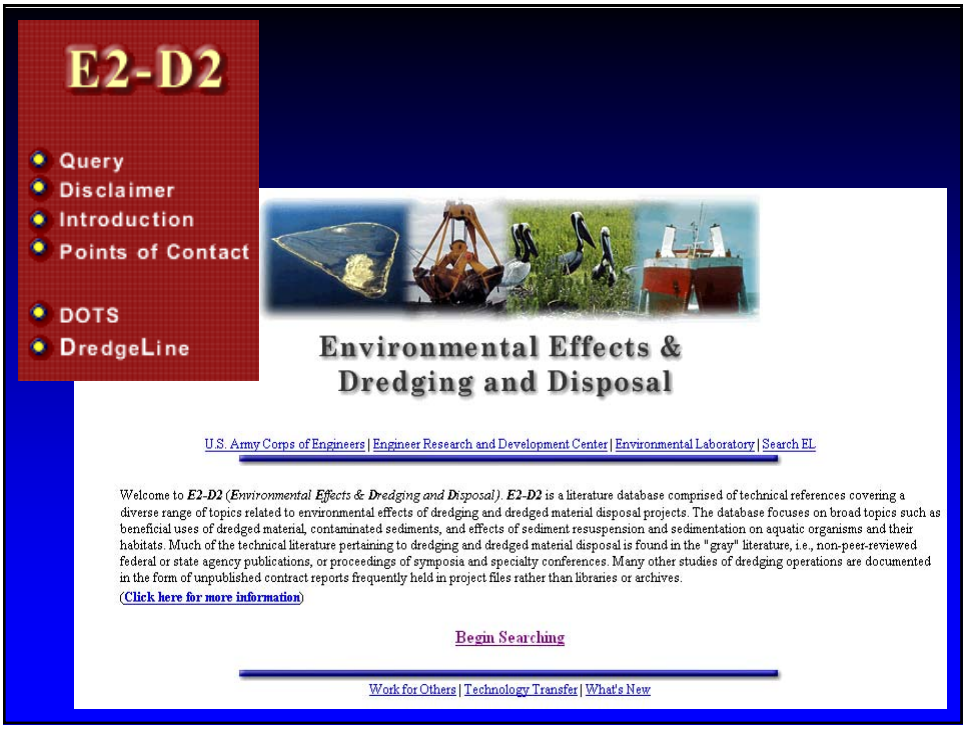
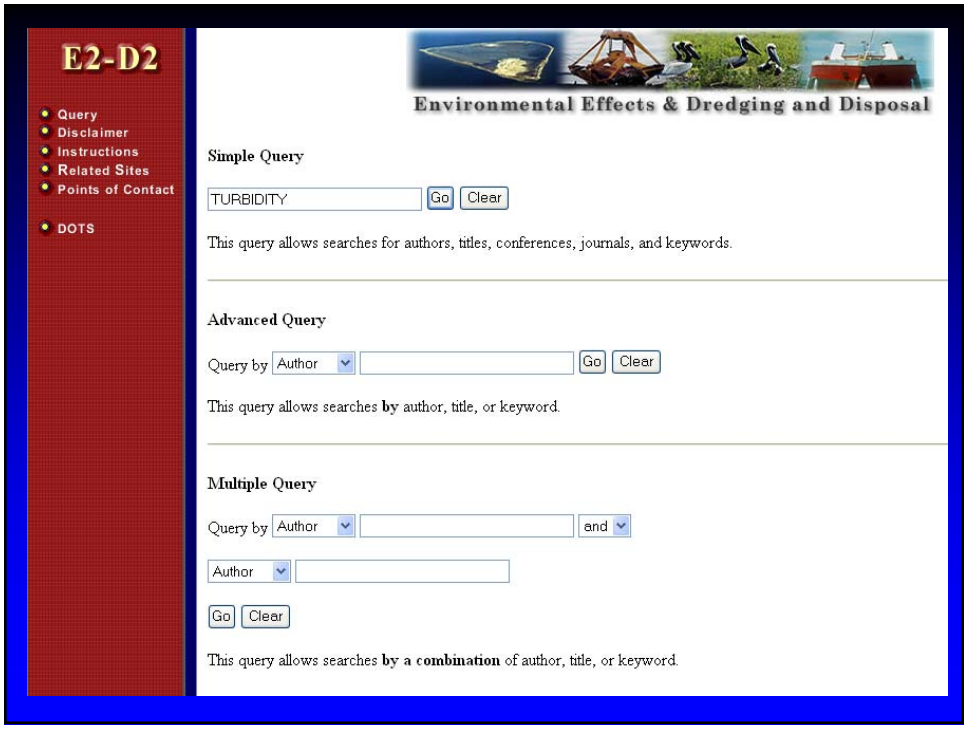
DATABASES

- Environmental Effects & Dredging and Disposal Literature Database (E2-D2)
- Ocean Disposal Database (ODD)
- Biota Sediment Accumulation Factor Database (BSAF)
- Environmental Residue-Effects Database (ERED)
- Upland Dredged Material Environmental Effects Database (UDMEED)
- Sea Turtle Data Warehouse (STDW)

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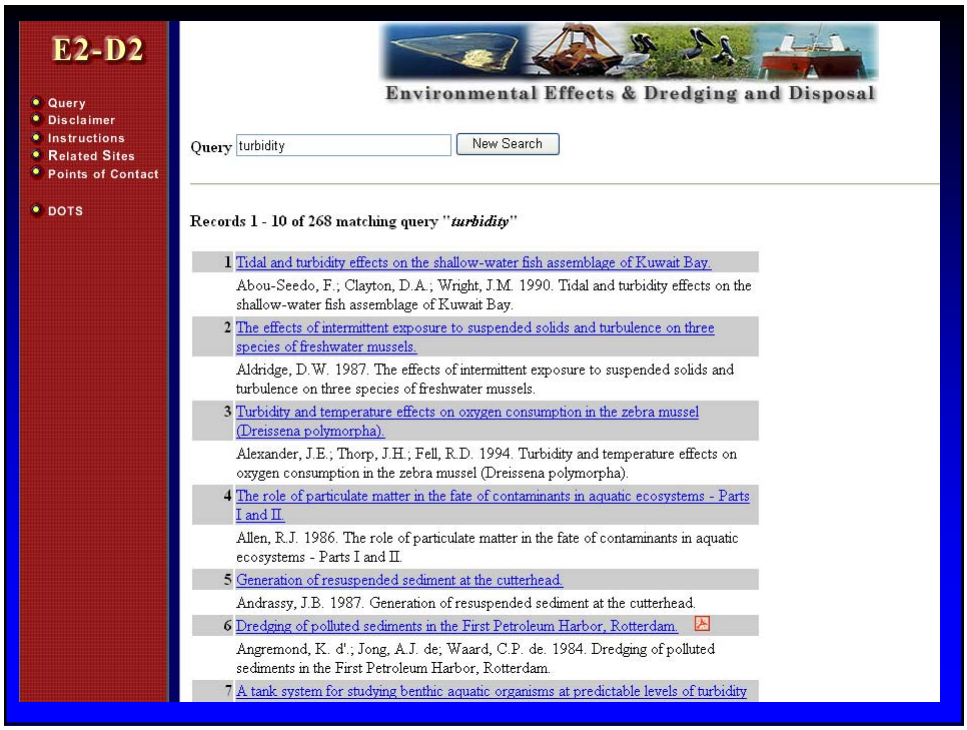
This query allows searches by author, title, or keyword.
Multiple Query
Query by
Author
and
Author
Go
Clear
This query allows searches by a combination of author, title, or keyword.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turbidity
New Search
Records 1 - 10 of 268 matching query "turbidity"
1 Tidal and turbidity effects on the shallow-water fish assemblage of Kuwait Bay.
Abou-Seedo, F.; Clayton, D.A.; Wright, J.M. 1990. Tidal and turbidity effects on the shallow-water fish assemblage of Kuwait Bay.
2 The effects of intermittent exposure to suspended solids and turbulence on three species of freshwater mussels.
Aldridge, D.W. 1987. The effects of intermittent exposure to suspended solids and turbulence on three species of freshwater mussels.
3 Turbidity and temperature effects on oxygen consumption in the zebra mussel (Dreissena polymorpha).
Alexander, J.E.; Thorp, J.H.; Fell, R.D. 1994. Turbidity and temperature effects on oxygen consumption in the zebra mussel (Dreissena polymorpha).
4 The role of particulate matter in the fate of contaminants in aquatic ecosystems - Parts I and II.
Allen, R.J. 1986. The role of particulate matter in the fate of contaminants in aquatic ecosystems - Parts I and II.
5 Generation of resuspended sediment at the cutterhead.
Andrassy, J.B. 1987. Generation of resuspended sediment at the cutterhead.
6 Dredging of polluted sediments in the First Petroleum Harbor, Rotterdam.
Angremond, K. d'.; Jong, A.J. de; Waard, C.P. de. 1984. Dredging of polluted sediments in the First Petroleum Harbor, Rotterdam.
7 A tank system for studying benthic aquatic organisms at predictable levels of turbidity

Ocean Disposal Database

Welcome to the United States Army Corps of Engineers Ocean Disposal Database Website

ODD Home

Click on Corps of Engineers Division Map to locate a specific disposal site,

Choose a Report or Search for Disposal Site or Project Data

Search Using EPA Region Map

Reports:

Display volumes in: ◉ Cubic Yards ○ Cubic Meters

- (1) Amount disposed by all districts
- (2) Amount disposed at a single ocean site
- (3) Amount disposed within a single EPA region
- (4) Amount disposed in each major US Ocean
- (5) Amount disposed by a single district
- (6) Amount disposed by year, all districts
- (7) Amount disposed that met the exclusionary criteria
- (8) Total number of disposal projects by year
- (9) View data for an individual dredging project

* Click here to see the description and details of a particular report.

Files available for Download

Ocean Disposal Database

Amount of Dredged Materials Ocean Disposed By Year in Cubic Yards at the Disposal Site

Home/Choose a Disposal Site

Site Name: MASSACHUSETTS BAY DISPOSAL SITE

Year	Total Quantity
1976	260,000
1977	104,200
1978	33,100
1979	91,800
1980	92,100
1981	315,200
1982	846,000
1983	282,900
1984	206,900
1985	273,300
1986	232,100
1987	118,700
1988	346,100
1990	224,100
1991	29,700
1992	1,321,500
1993	577,500
1994	226,700
1995	78,600

BSAF Database

(Your Source For Biota-Sediment Accumulation Factor and Lipid Data)

Technical Point of Contact: Mr. Charlie Lutz E-mail

U.S. Army Corps of Engineers | Engineer Research and Development Center | Environmental Laboratory | Search EL

Search For:

BSAF Data	Lipid Data	Reference
By Organism	By Organism	Search For A Reference
By Chemical		Display All References
Benthic BSAFs with Statistics		

BSAF Background Information

BSAF Organism Groups

Select Organism Group of interest

Group Fish - Bottom Feeders

Select Group | Reset

02013

These data have been compiled by personnel of The US Army Engineer Research and Development Center, Waterways Experiment Station, Environmental Laboratory (CEERD-EP-R). It is strongly suggested that users verify that the displayed data are appropriate for their use before basing any decisions on them.

Return to BSAF Home

Data were last updated on Sept. 1, 2004

Please contact Charlie Lutz with problems, suggestions, additions, etc. --- Send E-mail

Powered by dBase Plus software (© dBI Inc.)

BSAF Data for *Pseudopleuronectes americanus*

Chemical	BSAF (n)	Error	Type	Wet/Dry	Tissue	Used?	
PCB-MIXTURE	0.660 (231)	1.520	CV%	Dry	Unknown	yes	Data

There are not enough data to calculate grand mean and root mean square error for this species.

The range of BSAF values is 0.660 to 0.660.

Please Click Your Back Button To Select A Different Organism

The column ***Type*** indicates the type of error reported for these data. SE was converted to SD for statistical calculations.

The error type abbreviations are ***SD*** = standard deviation, ***SE*** = standard error, ***CI*** = confidence interval, ***SEM*** = standard error of the mean, ***CV*** = Coefficient of Variation, and ***NA*** = not available (unknown),

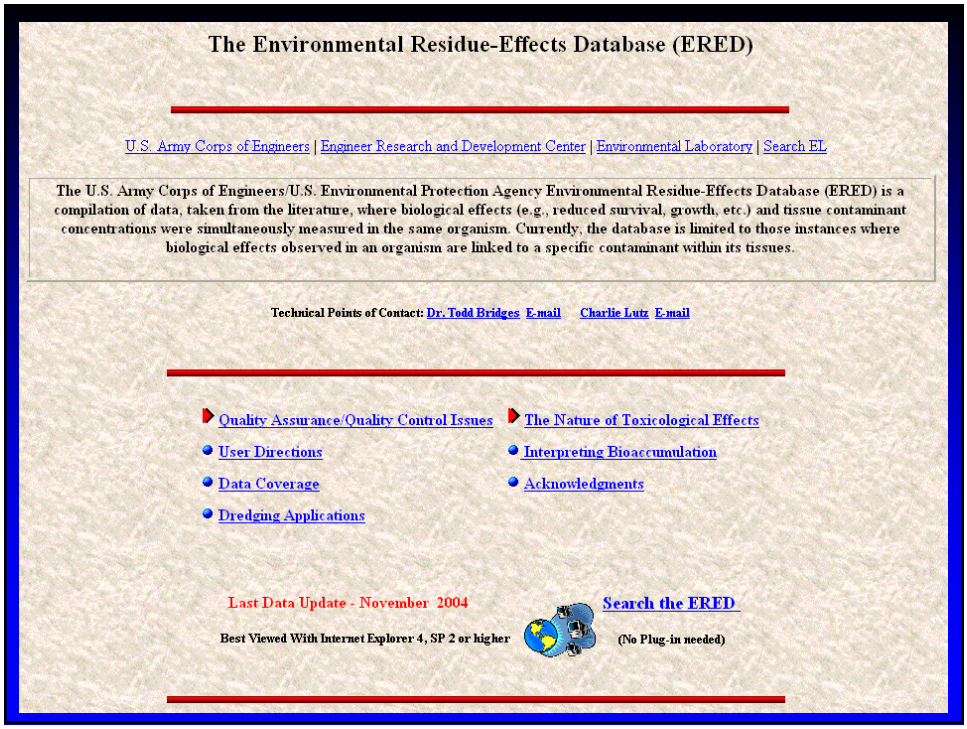
The column ***Wet/Dry*** indicates wet or dry weight. ***Wet*** = all values were wet weight, ***Dry*** = all values were dry weight, ***Both*** = sediment was dry weight, tissue was wet weight, ***???*** = Unknown, not specified in reference.

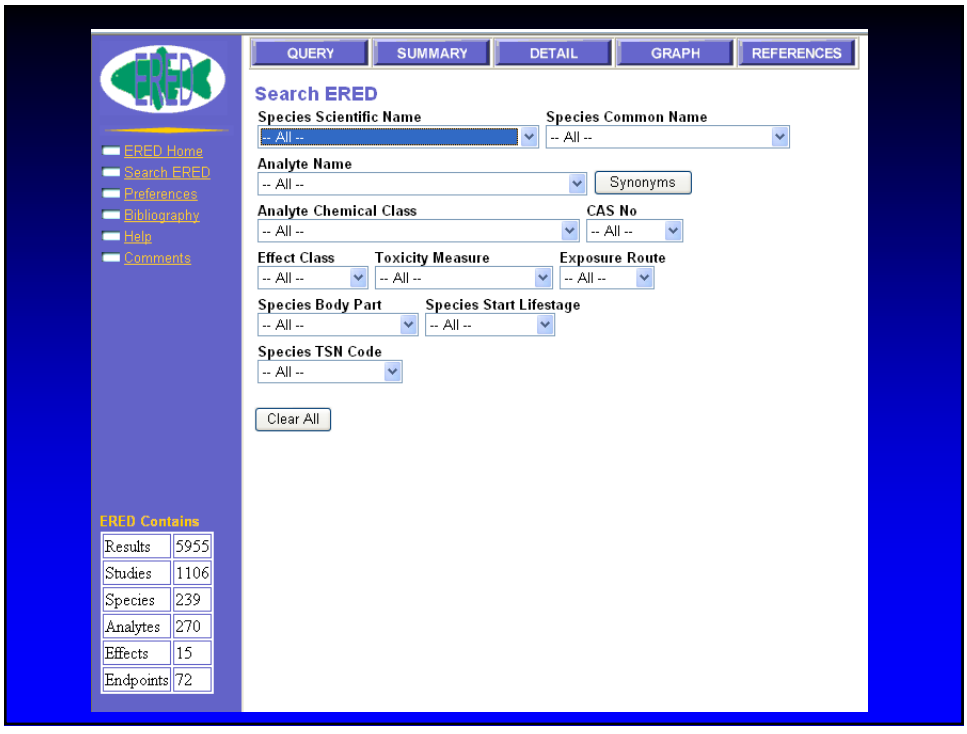
The column ***Used?*** indicates whether or not the BSAF data were used in the Grand Mean and Error calculations. Only data containing mean, error, and number were used in Grand Mean and RMS Error calculations.

Clicking on the ***Data*** link will display additional data for this record

These data have been compiled by personnel of The US Army Engineer Research and Development Center, Waterways Experiment Station, Environmental Laboratory (CEERD-EP-R). It is strongly suggested that users verify that the displayed data are appropriate for their use before basing any decisions on them.

Return to BSAF Home


The Environmental Residue-Effects Database (ERED)
U.S. Army Corps of Engineers | Engineer Research and Development Center | Environmental Laboratory | Search EL
The U.S. Army Corps of Engineers/U.S. Environmental Protection Agency Environmental Residue-Effects Database (ERED) is a compilation of data, taken from the literature, where biological effects (e.g., reduced survival, growth, etc.) and tissue contaminant concentrations were simultaneously measured in the same organism. Currently, the database is limited to those instances where biological effects observed in an organism are linked to a specific contaminant within its tissues.
Technical Points of Contact: Dr. Todd Bridges E-mail Charlie Lutz E-mail
Quality Assurance/Quality Control Issues
User Directions
Data Coverage
Dredging Applications
The Nature of Toxicological Effects
Interpreting Bioaccumulation
Acknowledgments
Last Data Update - November 2004
Best Viewed With Internet Explorer 4, SP 2 or higher
Search the ERED
(No Plug-in needed)


QUERY
SUMMARY
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Search ERED
Species Scientific Name
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Species Common Name
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Analyte Name
-- All --
Synonyms
Analyte Chemical Class
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Upland Dredged Material Environmental Effects Database (UDMEED)

U.S. Army Corps of Engineers | Engineer Research and Development Center | Environmental Laboratory

The U.S. Army Corps of Engineers Upland Dredged Material Environmental Effects Database (UDMEED) is a compilation of data, taken from the literature, where biological effects and/or tissue contaminant concentrations were measured in the same organism either in contact with, or commonly associated with, dredged material deposited in an upland situation.

- UDMEED Main Search Page
- Introduction
- Bibliography
- Data Coverage
- Application for Management of Dredged Material in Upland Sites
- The Nature of Toxicological Effects
- Interpreting Bioaccumulation Data
- Acknowledgements

Technical POCs:
Dr. Elly P.H. Best
Charles H. Lutz

Support
Set Preferences

Environmental Laboratory

Dredging Operations Technical Support (DOTS) Program

Webdate: February 20, 2004

Comments / Whom to contact
Privacy and Security Notice

USACE Home
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R You Are Here
Research & Development

Upland Dredged Material Environmental Effects Database (UDMEED)

U.S. Army Corps of Engineers | Engineer Research and Development Center | Environmental Laboratory

Search the Database

Select parameters below to search the Upland Dredged Material Environmental Effects Database. To help you find the species or chemical of interest, you can limit your search by habitat, taxonomic kingdom, or chemical class. For instance, instead of reviewing the entire list of chemicals, you can first select a chemical class (e.g., metals); then only analytes in that class will appear in the Chemical Name drop-down box.

Database Search Form

Habitat:

( ) Any Habitat ( ) Terrestrial, Natural Soil ( ) Terrestrial, Upland Dredged Material
( ) Wetland, Natural Sediments (•) Wetland, Dredged Material

Kingdom:

( ) Any Kingdom (•) Plantae ( ) Animalia ( ) Protista
( ) Fungi ( ) Monera

Species Scientific Name

Spartina alterniflora

(•) Chemical Name ( ) Chemical Common Name

Chemical Class

Metal -- Any --

Effects Class

Accumulation

Number of Matching Record: 17 [Retrieve Records] [Reset]

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US Army Corps of Engineers

USACE Sea Turtle Data Warehouse

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Annual Allowed Takes

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- Districts
- Projects
- Turtle Species

Total Cubic Yards
- Fiscal Year Table
- Fiscal Year Graph

Total Turtle Takes
- Takes Graphs
- Fiscal Year
- Calendar Year

Advanced Data Reports
- Takes
- Water Temp

References

Observer Forms

Maintenance of inland and intracoastal waterways for navigation is essential for national and international trade, job creation, and national security. These waterways also provide hydropower, flood protection, municipal water supply, agricultural irrigation, recreation, and regional development. The US Army Corps of Engineers' role in maintaining and improving these waterways began in 1824 and, today, the Corps maintains over 12,000 miles (19,200 km) of waterways throughout the United States.

Several types of dredges are typically used for excavating sediments to construct new waterways or maintain navigation depths in channels. Cutterhead pipeline, hopper, and mechanical dredges are the three primary types used throughout U.S. waterways. The type used depends on factors such as sediment type, location, environmental considerations, and wave conditions. *More ...*

US Army Corps of Engineers

USACE Sea Turtle Data Warehouse

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Introduction

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- Turtle Species

Total Cubic Yards
- Fiscal Year Table
- Fiscal Year Graph

Total Turtle Takes
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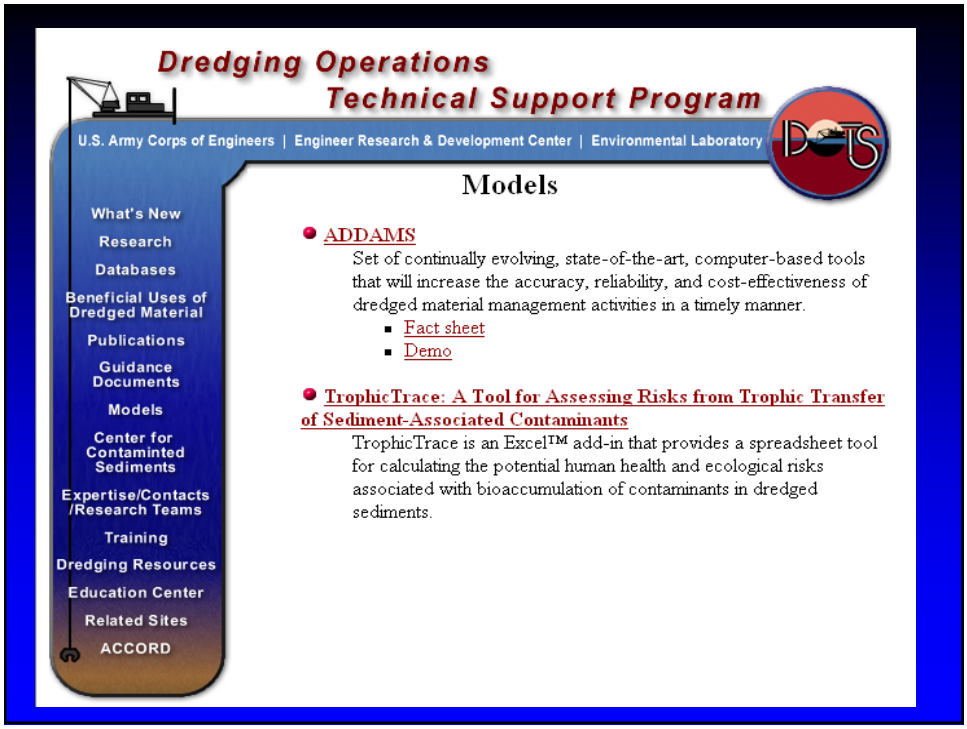
- Calendar Year

Annual Allowed Takes

USACE Region	Biological Opinion	Loggerheads	Kemp's Ridley	Greens	Hawksbills	Sturgeon (Gulf & Shortnose)
North Atlantic Division (North of NC)	2003	Varies by channel and cubic yards dredged				
South Atlantic Division (NC thru FL)	25 Sep 1997	35	7	7	2	5 (Shortnose)
Jacksonville District (FL West Coast)	19 Nov 2003	5	3	3	1	1 (Gulf)
Mobile District (North Gulf of Mexico)	19 Nov 2003	5	3	3	1	2 (Gulf)
New Orleans District (N. Gulf of Mexico)	19 Nov 2003	15	7	3	1	1 (Gulf)
Galveston District (West Gulf of Mexico)	19 Nov 2003	15	7	5	1	N/A
Combined Gulf of Mexico	19 Nov 2003	40	20	14	4	4 (Gulf)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Technical Support Program
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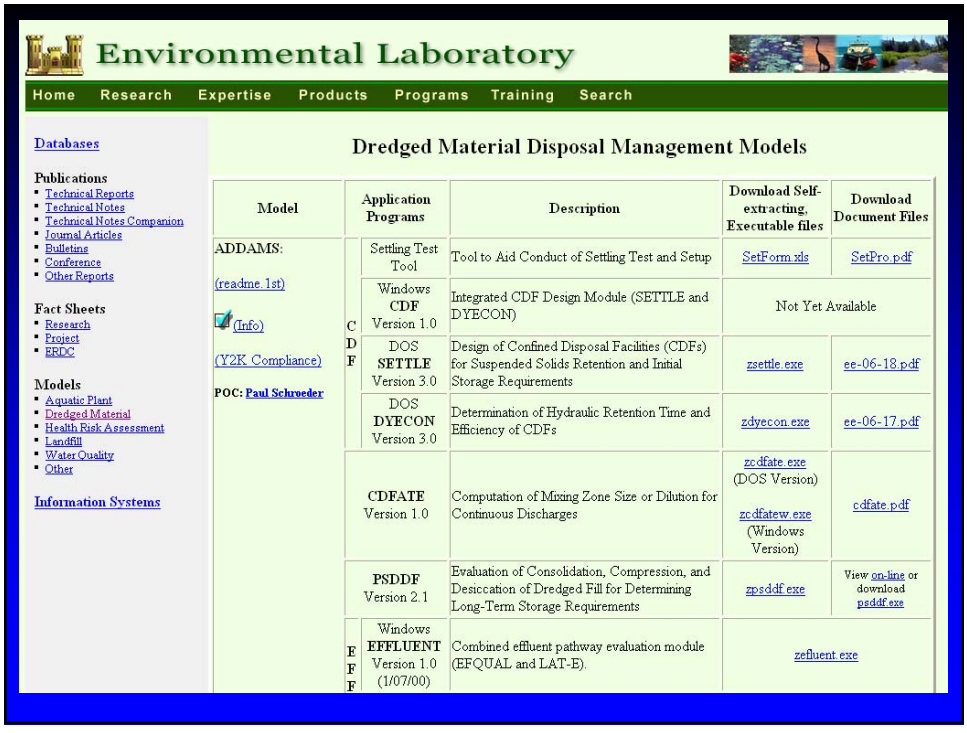
Education Center
Related Sites
ACCORD
Models
ADDAMS
Set of continually evolving, state-of-the-art, computer-based tools that will increase the accuracy, reliability, and cost-effectiveness of dredged material management activities in a timely manner.
Fact sheet
Demo
TrophicTrace: A Tool for Assessing Risks from Trophic Transfer of Sediment-Associated Contaminants
TrophicTrace is an Excel™ add-in that provides a spreadsheet tool for calculating the potential human health and ecological risks associated with bioaccumulation of contaminants in dredged sediments.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Description
Download Self-extracting, Executable files
Download Document Files
ADDAMS:
(readme.1st)
(Info)
(Y2K Compliance)
POC: Paul Schroeder
CDF
Settling Test Tool
Tool to Aid Conduct of Settling Test and Setup
SetForm.xls
SetPro.pdf
Windows CDF Version 1.0
Integrated CDF Design Module (SETTLE and DYECON)
Not Yet Available
DOS SETTLE Version 3.0
Design of Confined Disposal Facilities (CDFs) for Suspended Solids Retention and Initial Storage Requirements
zsettle.exe
ee-06-18.pdf
DOS DYECON Version 3.0
Determination of Hydraulic Retention Time and Efficiency of CDFs
zdyecon.exe
ee-06-17.pdf
CDFATE Version 1.0
Computation of Mixing Zone Size or Dilution for Continuous Discharges
zcdfate.exe (DOS Version)
zcdfatew.exe (Windows Version)
cdfate.pdf
PSDDF Version 2.1
Evaluation of Consolidation, Compression, and Desiccation of Dredged Fill for Determining Long-Term Storage Requirements
zpsddf.exe
View on-line or download psddf.exe
EFF
Windows EFFLUENT Version 1.0 (1/07/00)
Combined effluent pathway evaluation module (EFQUAL and LAT-E).
zefluent.exe

TrophicTrace: A Tool for Assessing Risks from Trophic Transfer of Sediment-Associated Contaminants

U.S. Army Corps of Engineers | Engineer Research and Development Center | Environmental Laboratory | Search EL

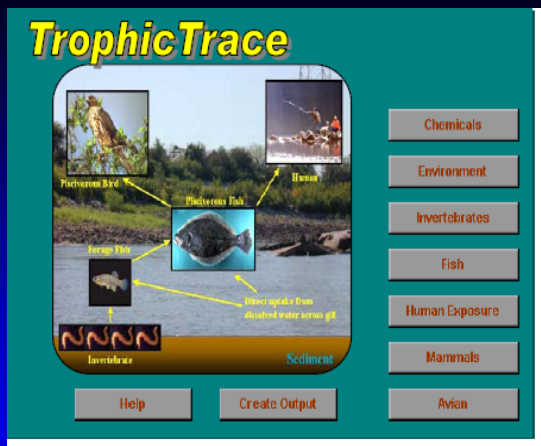
POC: Todd S. Bridges, Ph.D.

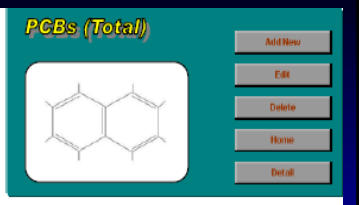
TrophicTrace is an Excel™ add-in that can be used to calculate, with inputs provided by users, potential human health and ecological risks due to bioaccumulation of sediment-associated contaminants. The model estimates expected concentrations in fish using a sediment-based food-web model for organic compounds, via trophic transfer factors from invertebrates to fish for certain metals, and via bioconcentration factors from water to fish for the remaining metals and hydrophilic organic compounds. Risks are calculated following USEPA and USACE risk assessment guidance (USEPA, 1989; 1997a; USEPA/USACE, 1998; Cura et al., 1999). *TrophicTrace* allows users to characterize the uncertainty associated with risk estimates using trapezoidal fuzzy numbers. Uncertainties can be propagated using fuzzy arithmetic principles that provide risk estimates in the form of trapezoidal fuzzy numbers. Example data sets are provided within *TrophicTrace* for demonstration purposes only. Use of *TrophicTrace* to evaluate the risks posed by a specific sediment or site must be based on appropriate, site-specific inputs.

Three items are provided for download: The *TrophicTrace* executable, the *TrophicTrace* Users Manual, and a Management Guide that provides program-specific guidance to Corps dredged material managers.

Users are invited to provide feedback to the POC on any aspect of *TrophicTrace* and its functionality. This input will be considered during development of future updates.

- Download *TrophicTrace* version 3.04
- *TrophicTrace* Users Manual
- Dredged Material Management Guide





PREPARED BY
KATHERINE VON STACKELBERG
ALLA BURMISTROVA
MENZIE-CURA & ASSOCIATES, INC.
ONE COURTHOUSE LANE, SUITE TWO
CHELMSFORD, MA 01824

Center for Contaminated Sediments

U.S. Army Corps of Engineers | Engineer Research and Development Center
Environmental Laboratory | Search EL

Capabilities
Expertise
Guidance Documents
Technology Transfer
Case Studies & Projects
Related Sites

Local related links:

- DOER
- DOTS
- Environmental Chemistry
- Hazardous Waste

Todd S. Bridges, Ph.D., Director

The U.S. Army Corps of Engineers Center for Contaminated Sediments serves as a clearinghouse for technology and expertise concerned with contaminated sediments. The Center's mission is to advance the development and application of sound science and engineering principles and technology in the assessment and management of contaminated sediments. The Center pursues this mission through sponsoring development of new initiatives and innovative technologies, organizing and sponsoring technical workshops and symposia, and working on contaminated sediment projects with other organizations within the Corps, Department of Defense, other federal and state agencies, academia, and the private sector.

With more than two decades of experience in various aspects of identifying, delineating, assessing, remediating, and managing contaminated sediments, Corps engineers and scientists are on the cutting edge of research in this important area. This expertise is a direct result of research and development activities funded in support of the Corps' navigation mission and reimbursable work related to site assessment and cleanup for other elements within the U.S. Department of Defense, the U.S. Environmental Protection Agency, and others.

- CCS support to the Superfund Sediment Resource Center

Work for Others | What's New

Beneficial Uses of Dredged Material

U.S Army Corps of Engineers | Engineer Research and Development Center | U.S. Environmental Protection Agency

Introduction

Engineered Uses

Environmental Enhancement

Agricultural/ Product Uses

Most dredged material can be a valuable resource and should be considered for beneficial uses. The purpose of this site is to demonstrate potential beneficial uses of dredged material by presenting existing case studies as examples. Category descriptions, procedural outlines, and reference resources are also provided.

This site is a collaborative effort between
U.S. Environmental Protection Agency and U.S. Army Corps of Engineers

Environmental Laboratory | Coastal & Hydraulics Laboratory | DOTS
Warning | Work for Others | Technology Transfer | What's New?

Web Educational Outreach

Objectives

- Promote understanding of navigation and dredging
- Create a Corps' classroom connection

Site Components

- Unit lessons
- Classroom activities
- Demos and Experiments
- Interactive quiz games
- Young Engineer's Club
- Corps and government links
- Teacher resources
- Education links

Target Users

- K-12+ Students
- Teachers
- Home Schoolers
- Corps Employees

Dredging Operations Technical Support Program

Expertise / Contacts / Research Teams

- List of Corps of Engineers (CE) Dredged Material Testing Specialists (USACE experts, nationwide)
- Center for Contaminated Sediments Expertise (USACE experts, nationwide)
- DOER Research Team (Currently ongoing research)

Back to DOTS homepage | Back to Center for Contaminated Sediments

Comments / Whom to contact
Updated July 18, 2000

Dredged Material Testing Specialists

Division/District	Contact Name
CE Headquarters	Joe Wilson, Kirk Stark
Great Lakes and Ohio River Division	Jan Miller
• Great Lakes Region (Chicago, IL)	
• Ohio River Region (Cincinnati, OH)	
Buffalo, NY	Scott Pickard, Gary McDannell
Chicago, IL	Linda Sorn, Jennifer Miller, Ajit Vaidya
Cincinnati, OH	Bill Harder
Detroit, MI	Pam Horner, Paul Baxter
Huntington, OH	Tim Fudge, Vince Marchese
Louisville, KY	Vincent Marchese
Nashville, TN	vacant
Pittsburgh, PA	Nancy L. Taylor, Patience N. Nwanna
Mississippi Valley Division	Steve Jones
Memphis, TN	Andy Lowery
New Orleans, LA	Linda Mathies
Rock Island, IL	Clint Beckert
St. Louis, MO	Kevin Slattery
St. Paul, MN	James Sentz
Vicksburg, MS	Karen Dove-Jackson

http://el.erdc.usace.army.mil/dots

Web Master – Ginny Dickerson, 601-634-4261

Points of Contact:

- **E2-D2 – Doug Clarke, 601-634-3770**
- **ODD – Charlie Lutz, 601-634-2489**
- **BSAF – Charlie Lutz, 601-634-2489**
- **ERED – Todd Bridges, 601-634-2489**
- **UDMEED – Elly Best, 601-634-4246**
- **Beneficial Use Site, Sea Turtle Data Warehouse, Education Site – Dena Dickerson, 601-634-3772**