ADDAMS Overview

Tab K

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KEY WORDS: Model, Verification, Evaluation, Framework, Analysis, Demonstration



Goals

- Development of technology transfer vehicle for tools relating to the evaluation and management of dredging and disposal
- Integration of additional existing computerized tools into the existing draft Decision-Making Framework Program as an ADDAMS Module for evaluating environmental effects of dredged material disposal
- Computer tools for development of long-term management plans

ADDAMS	
Dredged Material Management	Environmental Effects Evaluation
ĊDF	EFFLUENT EFQUAL LAT-E
SETTLE DYECON	RUNOFF RUNQUAL LAT-R
PSDDF D2M2	DREDGE STFATE CDFATE
LTFATE MDFATE	RECOVERY HELPQ PUP



Windows Version of SETTLE and DYECON

SETTLE

Design of Confined Disposal Facilities (CDFs) for Solids Retention and Initial Storage Requirements Using Settling Test Data





DYECON



Determination of CDF Hydraulic Efficiency for Retention Time

PSDDF



Evaluation of Consolidation, Compression, and Desiccation of Dredged Fill for Determining Long-Term Storage Requirements

EFFLUENT



Windows Version of EFQUAL and LAT-E

EFQUAL



Analysis of Modified Elutriate Test Results for Prediction of Effluent Water Quality and Dilution Requirements for Confined Disposal

LAT-E



Analysis of Water Column Bioassay Test to Compute Toxicity (LC50) of CDF Effluents



RUNQUAL



Comparison of Predicted Runoff Water Quality with Standards and Prediction of Dilution Requirements

LAT-R



Analysis of Water Column Bioassay Test to Compute Toxicity (LC50) of CDF Runoff

CDFATE



Computation of Mixing Zone Size or Dilution for Continuous Discharges















Long-Term Fate of Dredged Material Disposed in Open Water for Prediction of Mound Erosion





