



# Water Column Evaluation for Open Water Placement of Dredged Material from Raritan River

## ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

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Performed STFATE model runs of open water disposal of Raritan River dredged material at the HARS. Analyzed the standard elutriate test results for the contaminant of concern. Analyzed the water column toxicity results to determine the dilution required for the limiting permissible concentration, Summarized the disposal boundary offset values as a function of barge size in a technical memo documenting the results of the review and modeling.

### **Period of Performance:**

Start date: 9 April 2019      Completion Date: 22 April 2019

### **Benefits of the Response to the USACE Dredging/Navigation Program:**

The modeling and analysis provided the technical documentation to demonstrate water column compliance with MPRSA 103 requirements.

### **Deliverable:**

The technical response to the New York District provided STFATE model input and output files, spreadsheet for calculating materials volumetric fractions and a table of required placement offsets from the disposal site boundaries.



Providing environmental and engineering technical support to the U.S. Army Corps of Engineers  
Operations and Maintenance navigation and dredging missions

Paul R. Schroeder  
Environmental Laboratory • Paul.R.Schroeder@usace.army.mil

DOTS ID: DOTS-19-R35.