STFATE Model Runs for NWS Earle Phase II - Areas B1, B2 and C1

Response Summary:

Performed STFATE model runs of open water disposal of Naval Weapons Station Earle dredged material from Areas B1, B2 and C1 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 (3500 and 6000 cubic yards) in a table documenting the results of the review and modeling.

Period of Performance:

Start date: 14 December 2020 Completion Date: 16 December 2020

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 dilution requirements and materials volumetric fractions and a table of required placement offsets from the disposal site boundaries.

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DOTS ID: DOTS-21-R18