

# Organophilic clay reactive mat chosen as cap remedy for NAPL and PAHs

After dredging of a Utica, NY harbor was completed in 2010, investigations revealed residual concentrations of the primary constituents of concern, which included NAPL and PAHs. It was decided that a reactive cap solution should be incorporated into the remedial design to mitigate exposure risks.



### PROJECT DETAILS

Harbor Point

Engineer: Arcadis-U.S., Inc.

Contractor: InterGeo Services, LLC

### LOCATION

Utica, New York, USA

### PRODUCTS USED

ORGANOCLAY™

REACTIVE CORE MAT®

### CHALLENGE:

The Record of Decision (ROD) for the site identified a total PAH concentration of 4 mg/kg as a quality assurance indicator for the placed cap. In order to achieve this goal, the entire area would need to be capped, including a reactive component. Installation of the cap needed to be completed before winter temperatures caused the harbor to freeze over. This cap would also have to allow future dredging in an area of the harbor adjacent to the cap.

### SOLUTION:

CETCO's ORGANOCCLAY REACTIVE CORE MAT® was specified for the reactive portion of the cap.

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**RESULT:**

An independent third party engineer ran calculations that proved that CETCO's ORGANO-CLAY™ REACTIVE CORE MAT® would not be compromised by the deployment of dredging spuds during future dredging activities. The contractor stitched the ORGANOCLAY REACTIVE CORE MAT® panels on-site. This allowed large 600' by 100' foot panels to be deployed which accelerated the capping process. The project was completed on budget and prior to the occurrence of icing.