

Newtown Creek CAG Discussion: Supplemental Data Collection to Support Feasibility Study

Presented by Anchor QEA, LLC

April 19, 2023

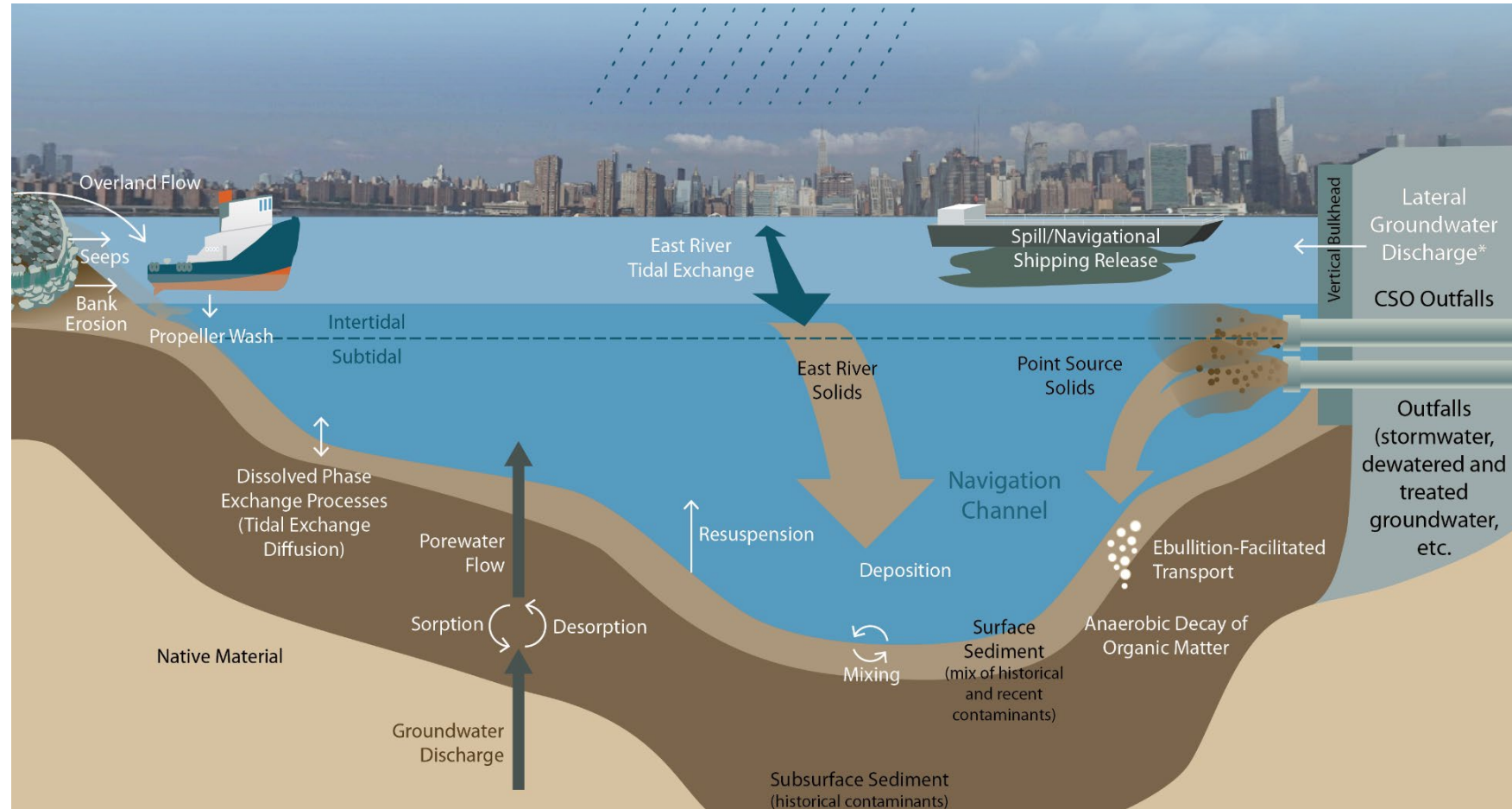


Newtown Creek Remedial Investigation and Feasibility Study Status

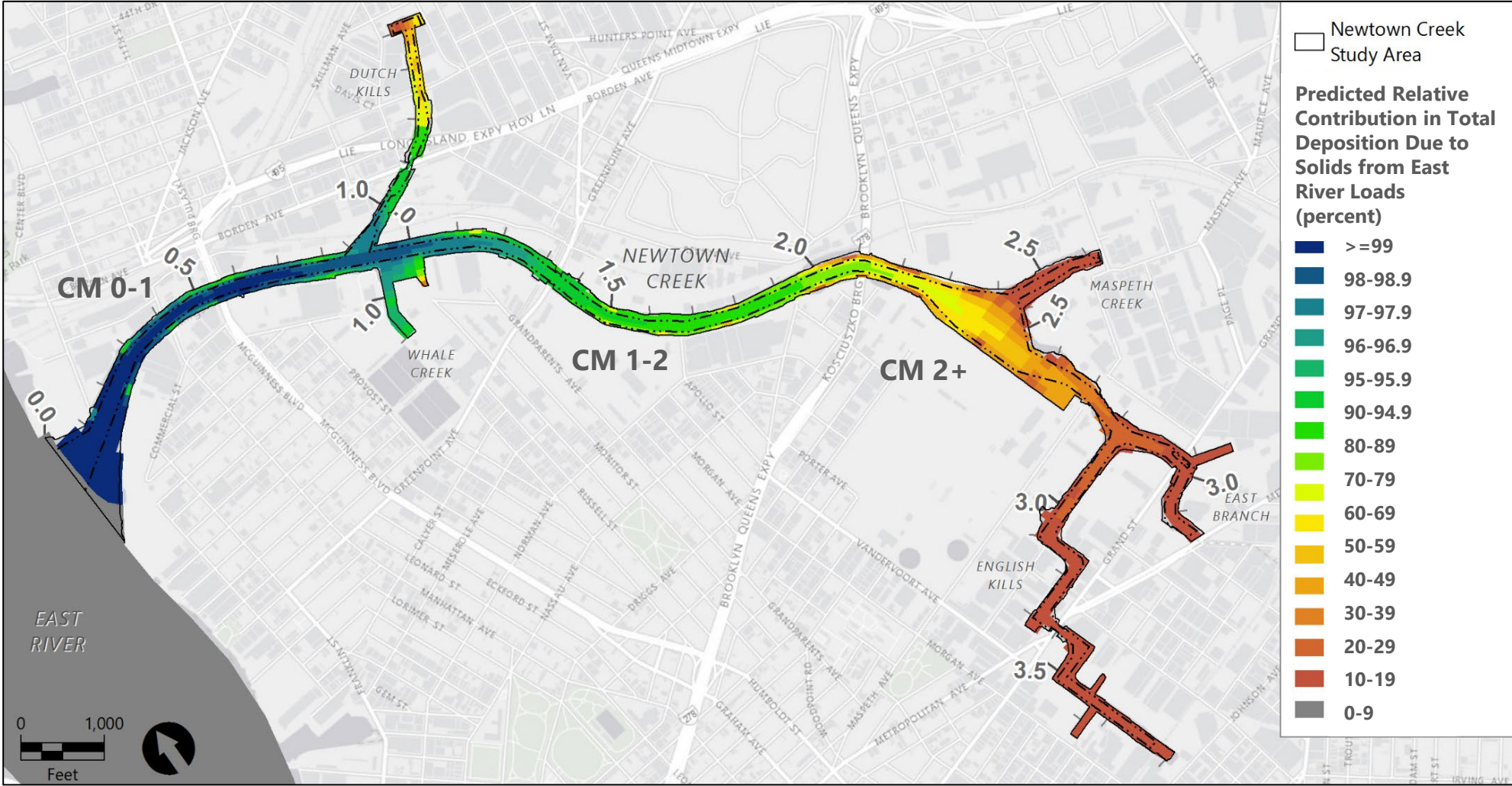
- Remedial Investigation (RI) phase is now complete
 - USEPA approved the RI Report on 4/7/2023
- Feasibility Study (FS) phase in progress
- Focus of the FS is to use learnings from the RI (conceptual site model) to identify and evaluate remedial options
- Two actions identified to advance this evaluation
 - East Branch Early Action – collect site-specific information regarding remedial options through the implementation of an early action in an upstream portion of the creek
 - FS Supplemental Data Collection – as suggested by USEPA, collect additional information to better understand the role of natural recovery in the lower part of the creek

Newtown Creek Conceptual Site Model – Lower Two Miles (CM 0-2)

- East River is the predominant source of settling solids and contaminants of concern (COCs) to sediment bed
- Sediments are net depositional and stable, but localized areas are subject to scour due to vessel operations
- Measured COC concentrations in surface sediment in the majority of CM 0–2 are lower than other areas of the creek and are at or below risk levels and background concentrations



Predicted Contribution of East River Solids to Total Solids Deposited on Sediment Bed



Additional Data Collection for FS

- Data for some COCs (i.e., dioxins/furans and C19–C36 hydrocarbons) are not as comprehensive as for other COCs in surface sediments and East River solids
- Additional data for all COCs
 - 2012 RI Phase 1 samples along transects on 500-foot spacing
 - 2014 RI Phase 2 samples focused on risk-assessment related locations (e.g., human exposure areas)
 - 2018 OU3 Supplemental Data Collection sampling focused on CM 1–2
- Will allow for further evaluation of COC concentration changes over time, including post-remedy

Supplemental Data Collection Program

- Bathymetry – completed in 2022 for entire Study Area
 - Compare 2022 bathymetry with bathymetry collected during prior surveys to assess sediment elevation changes over time
- East River – anticipate starting in summer 2023 through spring 2024
 - Measure COCs on solids entering the creek during flood tide—every other month for 1 year
- Surface sediment – anticipate starting in summer 2023
 - Measure COCs in approximately 240 additional surface sediment samples in CM 0–2
 - 61 samples co-located with Phase 1 RI samples to assess changes since 2012
 - Set a new baseline to compare with future sampling to continue monitoring changes

Proposed Surface Sediment Sampling Locations for Supplemental Data Collection CM 0-1

East River
surface water
sampling location



LEGEND:

- Navigation Channel
- ▭ Newtown Creek Study Area
- Proposed Surface Sediment Sample
- Composite Individually Analyzed
- Existing Surface Sediment Sampling Station**
- Study Programs**
- Phase 1 Remedial Investigation
- Phase 2 Remedial Investigation



Proposed Surface Sediment Sampling Locations for Supplemental Data Collection CM 1–2



LEGEND:

- - - Navigation Channel
 - ▭ Newtown Creek Study Area
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What questions
do you have?