



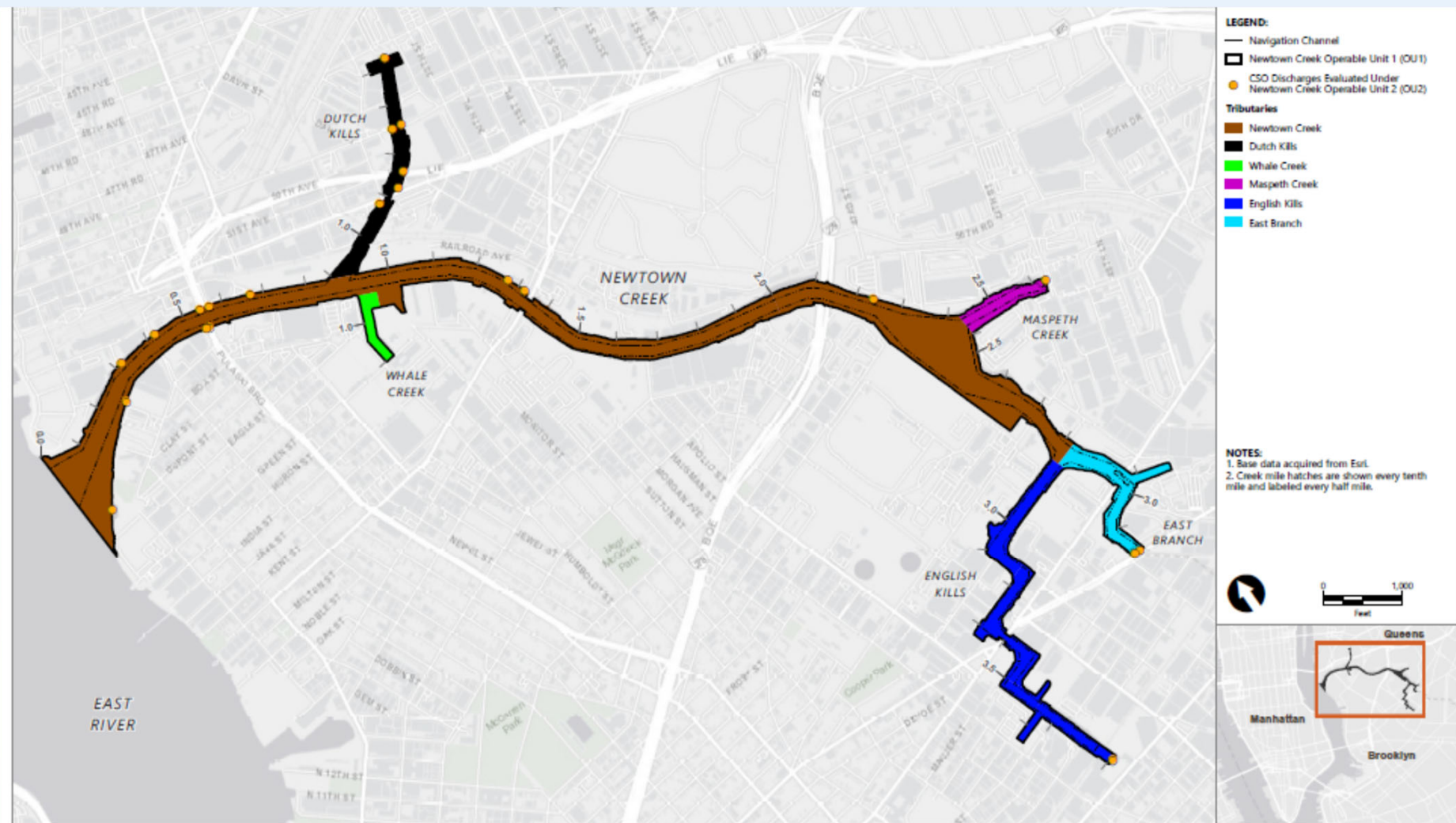
**Overview of the Remedial Design Process
Newtown Creek Superfund Site CAG Meeting
July 29, 2026**

East Branch Early Action – Current Status

- In January 2025, EPA selected a remedy for the East Branch portion of the Newtown Creek Site
 - Documented in a Record of Decision (ROD)
- EPA is conducting negotiations with >20 PRPs to conduct the Remedial Design
- The enforcement instrument to conduct the Remedial Design has not been finalized to date
 - Currently includes:
 - Legal Agreement
 - Technical Scope of Work
- EPA's currently anticipates the enforcement instrument will be in place in August.
 - *Until the enforcement instrument is signed, EPA cannot discuss any specifics regarding the Remedial Design*

East Branch Early Action – Current Status

- The selected remedy for OU4 includes:
 - A comprehensive pre-design investigation (PDI);
 - Sediment dredging to a minimum depth to accommodate capping, with potential deeper dredging in some areas;
 - The use of targeted in-situ stabilization (“ISS”) where needed if there is migration of and/or for treating contamination remaining in place;
 - Capping of all dredged areas where contaminated sediment is left in place and in other areas as determined to be necessary;
 - ISS or other forms of stabilization of the shoreline, as needed;
 - Sealed bulkheads, as needed;
 - Dewatering and off-site disposal of all dredged sediment and debris;
 - Institutional controls, as needed; and
 - A robust post-remedy implementation monitoring program to ensure the remedy is performing as designed and remains protective over time.



Potential Elements of a Remedial Design

■ Elements that are typically part of a Remedial Design:

- Investigative Fieldwork (PDI) and Data Interpretation
- Documentation (Plans, Reports, Drawings and Specifications)
- Means and Methods; Proposed Equipment
- Materials Management and Disposal
- Engineering Design
- Cost Analysis
- Monitoring Plan
- Emergency Response Procedures
- Community Involvement
- Timelines

Pre-Design Investigation (PDI)

- A PDI is used to fill data gaps and further refine EPA's understanding of the Conceptual Site Model (CSM).
- For example, the OU4 ROD states that the PDI will include at a minimum:
 - Additional sediment data to refine the remedial footprints and depths of the various remedy components and to delineate principal threat waste (PTW);
 - Additional porewater and/or groundwater data to refine the cap design;
 - Data to further delineate non-aqueous phase liquid (NAPL), investigate NAPL mobility, and determine the constituents present in NAPL;
 - Geotechnical data to support dredge design, cap design and shoreline stability evaluations;
 - Investigations and surveys to inform decisions on the need for upland source controls (e.g., sealed bulkheads).

Documentation (Plans and Reports)

■ Remedial Design Workplan (RDWP)

- Plans for implementing all RD activities;
- Overall management strategy for performing the RD;
- Approach to contracting, construction, operation and maintenance (O&M), and monitoring of the Remedial Action (RA);
- A description of the responsibility and authority of all organizations and key personnel involved with the development of the RD;
- Description of the PDI and any treatability studies, if needed;
- Applicable permitting and other regulatory requirements;
- Description of plans for obtaining property access;
- Description of plans to coordinate with other governmental entities

Documentation (Plans and Reports)

■ PDI Workplan

- An evaluation and summary of existing data and description of data gaps;
- A sampling plan (SAP) including media to be sampled, parameters for which sampling will be conducted, sample locations, and the number of samples. The SAP may also include the following:
 - Additional sediment data to refine the remedial footprints and depths;
 - Additional porewater and/or groundwater data to refine the cap design;
 - Data to further delineate non-aqueous phase liquid (NAPL);
 - Geotechnical data to support dredge design, cap design and shoreline stability evaluations;
 - Debris characterization, to support sediment management (i.e., sediment handling);
 - Shoreline stability evaluation;
 - Utility surveys;
 - Bathymetry survey;
 - Clear data quality objectives (DQOs) and assessment methods;

Documentation (Plans and Reports)

- PDI Evaluation Report
 - Summary of the investigations performed and the results;
 - Summary of validated data (i.e., tables and graphics);
 - Data validation reports, data usability reports, and laboratory data reports;
 - Narrative interpretation of data and results;
 - Results of statistical and modeling analyses;
 - Photographs;
 - Conclusions and recommendations, including proposed updates to design parameters and/or refinement of the CSM.

Documentation (Plans and Reports)

- Progress Reports (Monthly)
- Supporting Deliverables
 - HASP
 - Emergency Response Plan (ERP)
 - Field Sampling Plan (FSP)
 - Quality Assurance Project Plan (QAPP)

Remedial Design

■ Preliminary (30%) Remedial Design

- A Design Criteria Report;
- Preliminary drawings and specifications;
- Descriptions of permit requirements, if applicable;
- Preliminary Operation and Maintenance (O&M) Plan and O&M Manual;
- A description of monitoring and control measures to protect human health and the environment, such as air monitoring and dust suppression; and
- Supporting deliverables:
 - Construction Quality Assurance / Quality Control Plan;
 - Transportation and Off-Site Disposal Plan;
 - Institutional Controls Implementation and Assurance Plan;
 - Uplands Source Control Identification Plan
 - Post-Remedy Implementation Monitoring Program Plan;

Remedial Design

- Intermediate (60%) Remedial Design
- Pre-Final (95%) Remedial Design
 - Construction drawings and specifications
 - Certified by a registered professional engineer;
 - A survey and engineering drawings showing existing Site features, property borders, easements, etc.;
 - Pre-Final versions of the same elements and deliverables as are required for the Preliminary/Intermediate RD;
 - A specification for photographic/videographic documentation of the RA; and
 - Updates of all supporting deliverables required to accompany the Preliminary and Intermediate RD.
- Final (100%) Remedial Design
 - EPA Approval

Remedial Design

- Throughout the Remedial Design Process...
 - Community Engagement – Numerous opportunities including:
 - Pre PDI sampling
 - Post PDI completion
 - Remedial Design (30%, 60%, 95%, 100%) completion
 - EPA will issue a Fact Sheet that details the design, construction schedule, and potential impacts
 - Initiate negotiations with PRPs to conduct the Remedial Action
 - Establish Enforcement Instrument and Scope of Work

QUESTIONS AND DISCUSSION