

#### Operable Unit 1 Updates and East Branch Early Action Overview Newtown Creek Superfund Site

Queens and Brooklyn, New York City November 16, 2022

# **Operable Unit 1 Updates**

#### **Current Projected Schedule for All of OU1**

- 2022 to 2024 conduct lateral groundwater study
- 2022 to 2024 conduct NCG-led supplemental sampling program
- 2023 finalize RI report and continue work on FS report
- 2025 submittal of draft FS report (after completion of additional field work)
- 2026 revised draft FS report

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- 2027 release Proposed Plan; CSTAG/NRRB review will be required
- 2028 Record of Decision for OU1

# **Key Considerations Impacting Schedule**

- Uniquely complex system
- Multiple ongoing sources under many authorities
- Navigation
- Future Use/Reuse

#### **Study Area**



# General Conceptual Site Model



# **Current Areas of Focus**

- Development of Remedial Action Objectives and Preliminary Cleanup Goals
  - Role of background
  - Coordination with various regulatory authorities
- Development of alternatives for different sections of the Creek
- Complete modeling framework
- Resolve navigation issues and future use concerns
- Coordination with NYCDEP and NYSDEC on Clean Water Act requirements
- Evaluate Early Action for East Branch

## **Questions?**

## **East Branch Early Action Overview**

#### **Study Area**



#### **East Branch Early Action Study Area**



- Tributary of Newtown Creek
- Approximately 0.5 miles in length
- Surface area ~10 acres
- Depth 10.3-16.5 ft in channel and shallower at head of tributaries
- Extensive investigations completed as part of the Remedial Investigation (RI) and Feasibility Study (FS)

# Why the East Branch?

- Widespread sediment contamination
  - An action here would lead to significant mass removal and/or risk reduction
- An action involving complicated features can help inform future actions
  - Non-aqueous phase liquid (NAPL)
  - Ebullition
  - High PCB concentrations in sediment
  - Aeration system
  - Bulkheads
  - Bridges
  - Combined sewer overflows (CSOs)
  - Navigation
  - Restoration Opportunities

# **Contaminants of Concern**

- The Contaminants of Concern for sediment are expected to be:
  - Polychlorinated biphenyls (PCBs)
  - Hydrocarbons (including PAHs)
  - Copper
  - Lead
  - Dioxins/Furans







#### East Branch – Characterization Static Sheen and Dynamic Sheen



1.1 - 5.0 5.0 - 10 11 - 20

21 - 200



**East Branch – Characterization Groundwater Seepage** and Loading

Interpolated ٠ Groundwater **Seepage Rates** to the East **Branch** 

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1.0







# East Branch – Characterization NAPL



# **Early Action Process Overview**

- Develop Focused Feasibility Study (FFS) for the East Branch
  - FFS Work Plan
  - Alternatives Memorandum
    We are currently here
  - Draft FFS
  - Final FFS
- Proposed Plan for Remedial Action (RA)
- Record of Decision (ROD)
- Develop enforcement instrument to implement cleanup
- Remedial Design
- Remedial Action
- Post-construction monitoring

## **Planned Path Forward for Early Action**

- Tentative Path Forward
  - Develop Focused Feasibility Study 2023/2024
  - Proposed Plan and ROD 2024
    - CSTAG/NRRB review will be required
    - Approximately 4 years earlier than current projected OU1 ROD

# **Thank You!**

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#### Or visit EPA's Site Profile Page for Newtown Creek



www.epa.gov/superfund/newtown-creek