



# **Eighteen Mile Creek Site**

## **OU4 Proposed Plan Public Meeting**

**August 16, 2018**



## Introductions

- Remedial Project Manager – Jaclyn Kondrk
- Remedial Project Manager – Julio Vazquez
- Community Involvement Coordinator – Michael Basile
- WNY Remediation Section Chief – Pete Mannino
- EPA Risk Assessor – Abbey States
- NYSDOH – Angela Martin
- NYSDOH – Jim Bowers
- NYSDEC – Glenn May

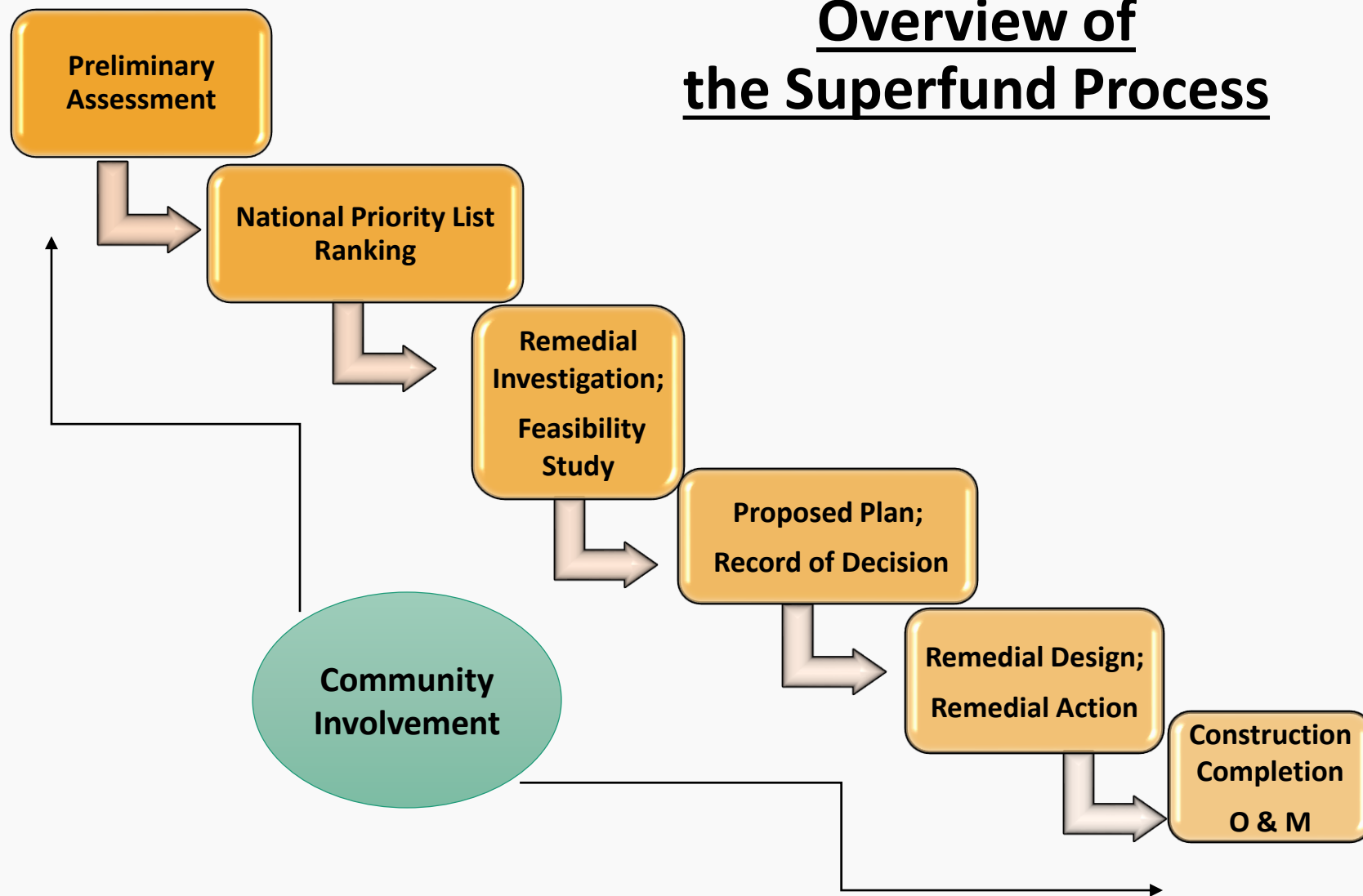


## Agenda

- Presentation
  - Overview of Superfund process
  - Site overview
  - Investigation results
  - Cleanup options & Preferred remedy
  - EPA's next steps
- Questions and Comments



## Overview of the Superfund Process



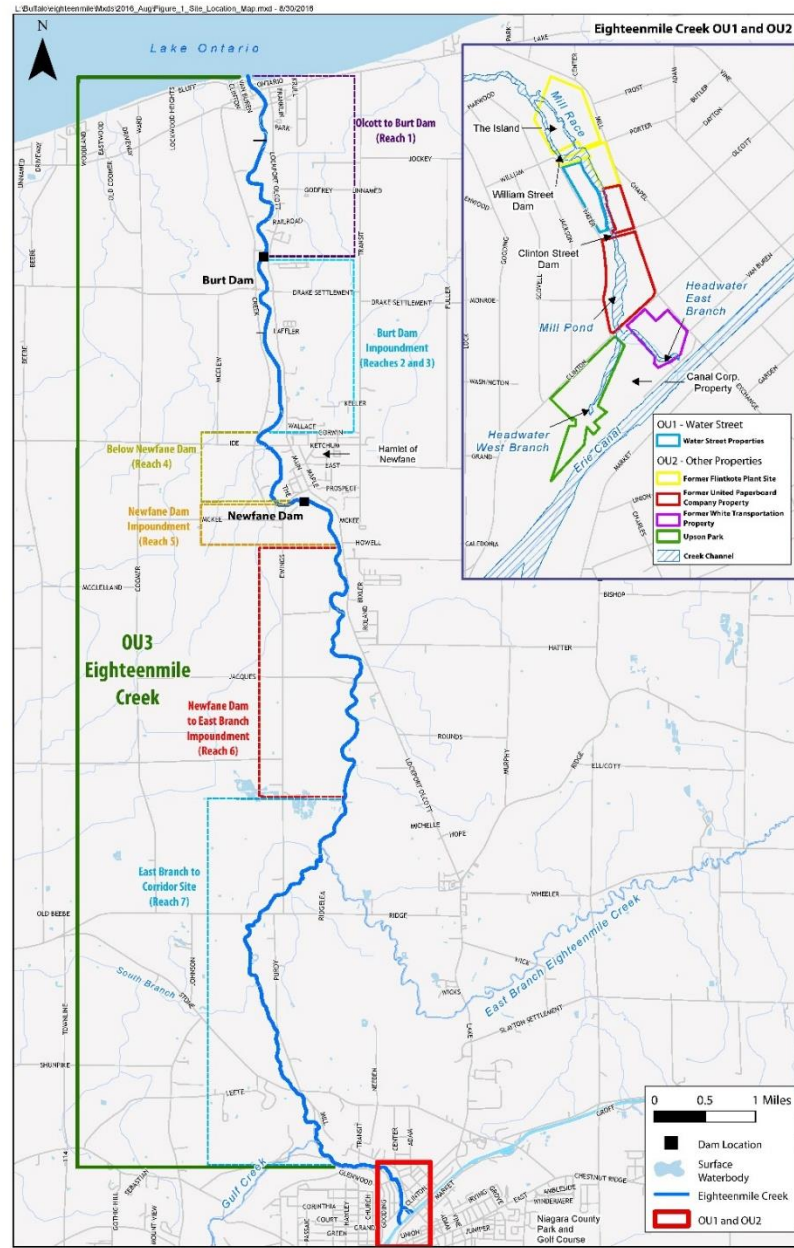


## Site History

- The Eighteen Mile Creek Corridor has a long history of industrial use dating back to the 19th Century
- New York State Department of Environmental Conservation (NYSDEC) investigated the Site between 1999 and 2010
- The Site was listed on EPA's National Priority List in 2012



# Site Overview by Operable Unit





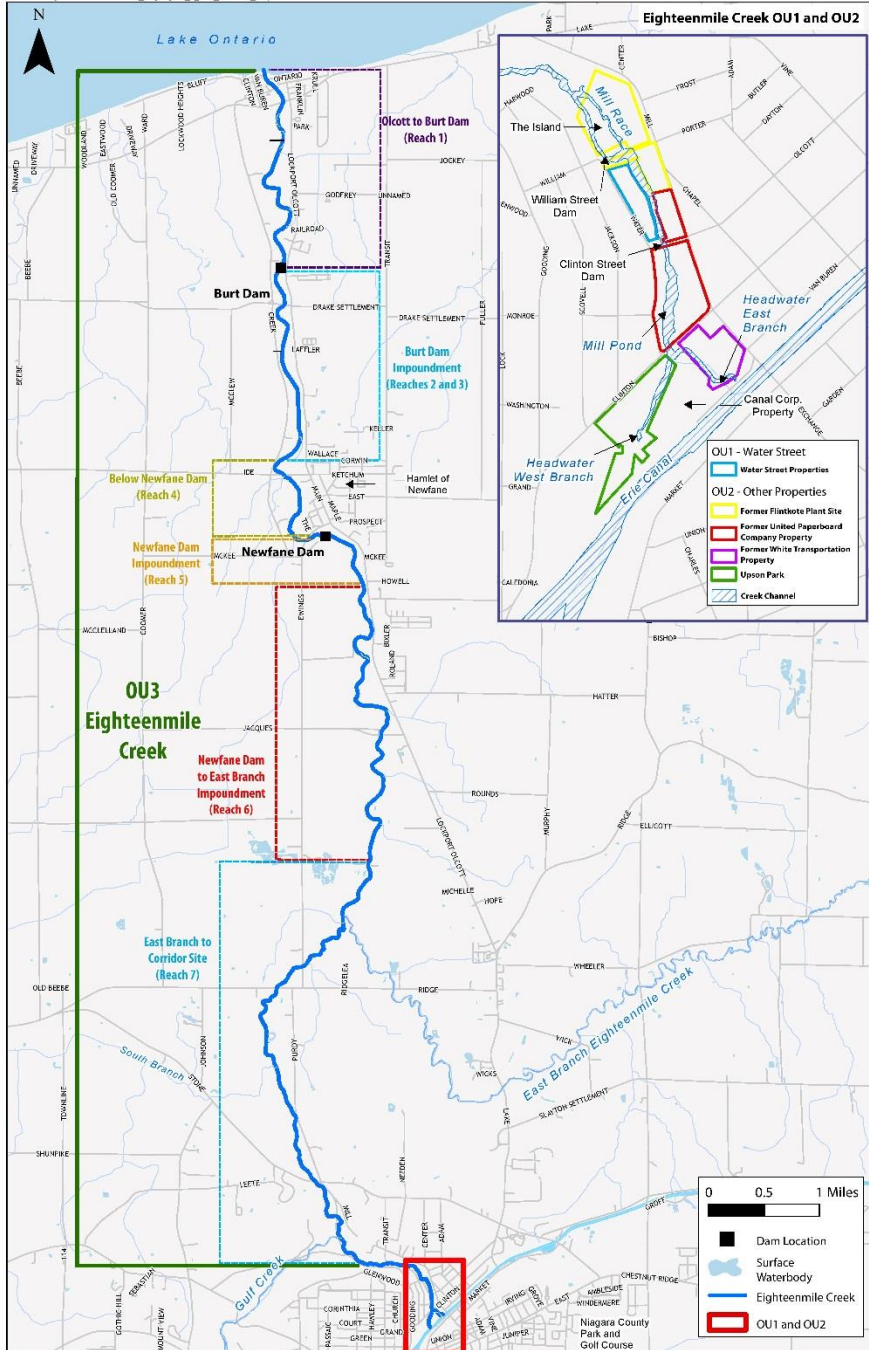


Figure 1 Site Location Map, Eighteenmile Creek Superfund Site  
Lockport, NY

## OU1 - Water Street Residential Properties & Flintkote demolition

EPA issued a final cleanup  
plan in 2013:

- Flintkote demolition
- Residential property acquisition and demolition due to flooding of PCBs
- Soil at the Water St. properties will be excavated during the OU2 cleanup



## Flintkote Demolition



## Water Street Post Demolition





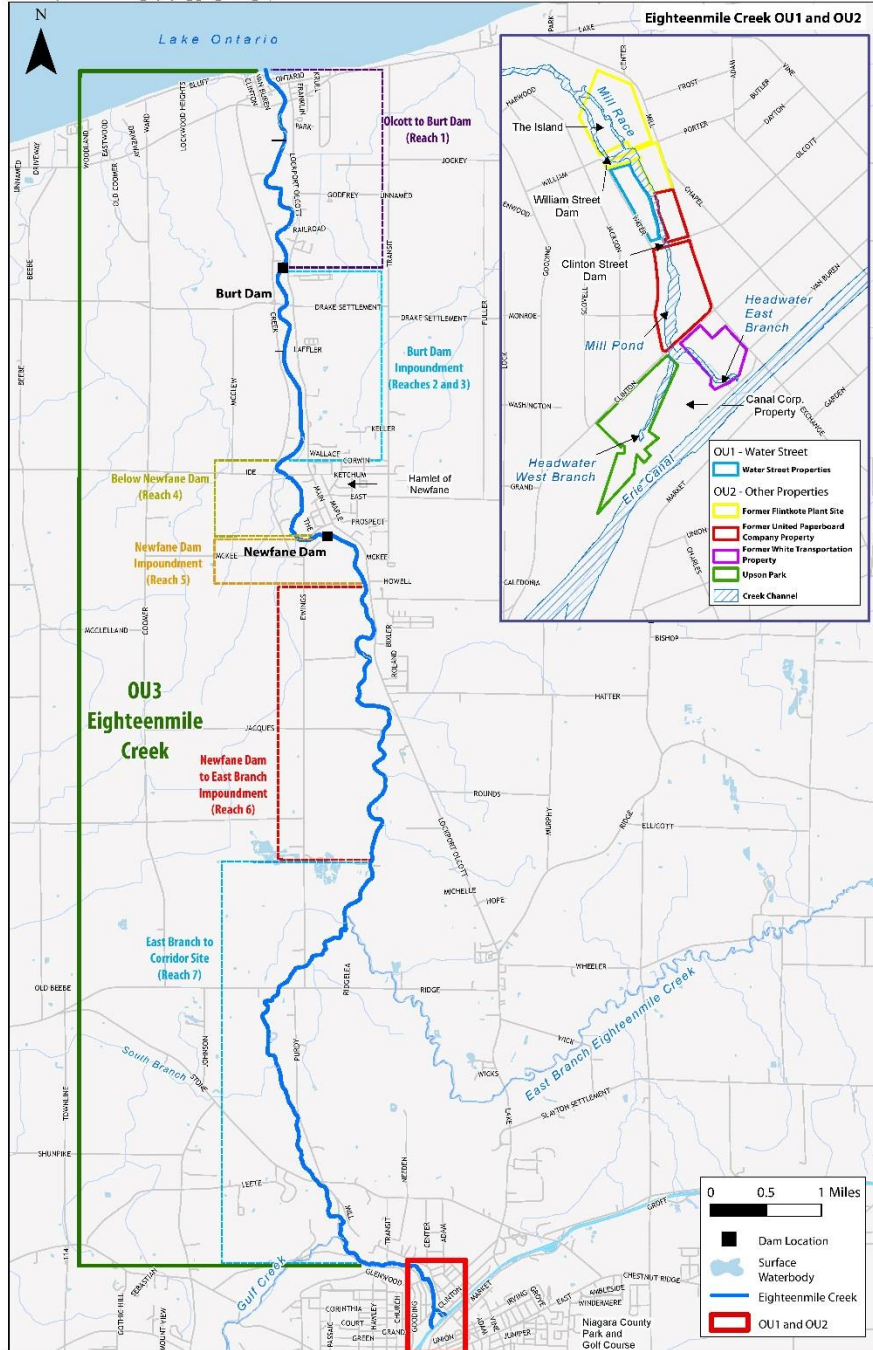


Figure 1 Site Location Map, Eighteenmile Creek Superfund Site  
Lockport, NY

**OU2** - Sediment in the Creek Corridor and soil at the Flintkote property, former United Paperboard property, the White Transportation property, and Upson Park

EPA issued a final cleanup plan in 2017:

- Bank-to-bank excavation of sediment
- A combination of excavation and capping at the aforementioned commercial properties

This remedy is in the design phase.

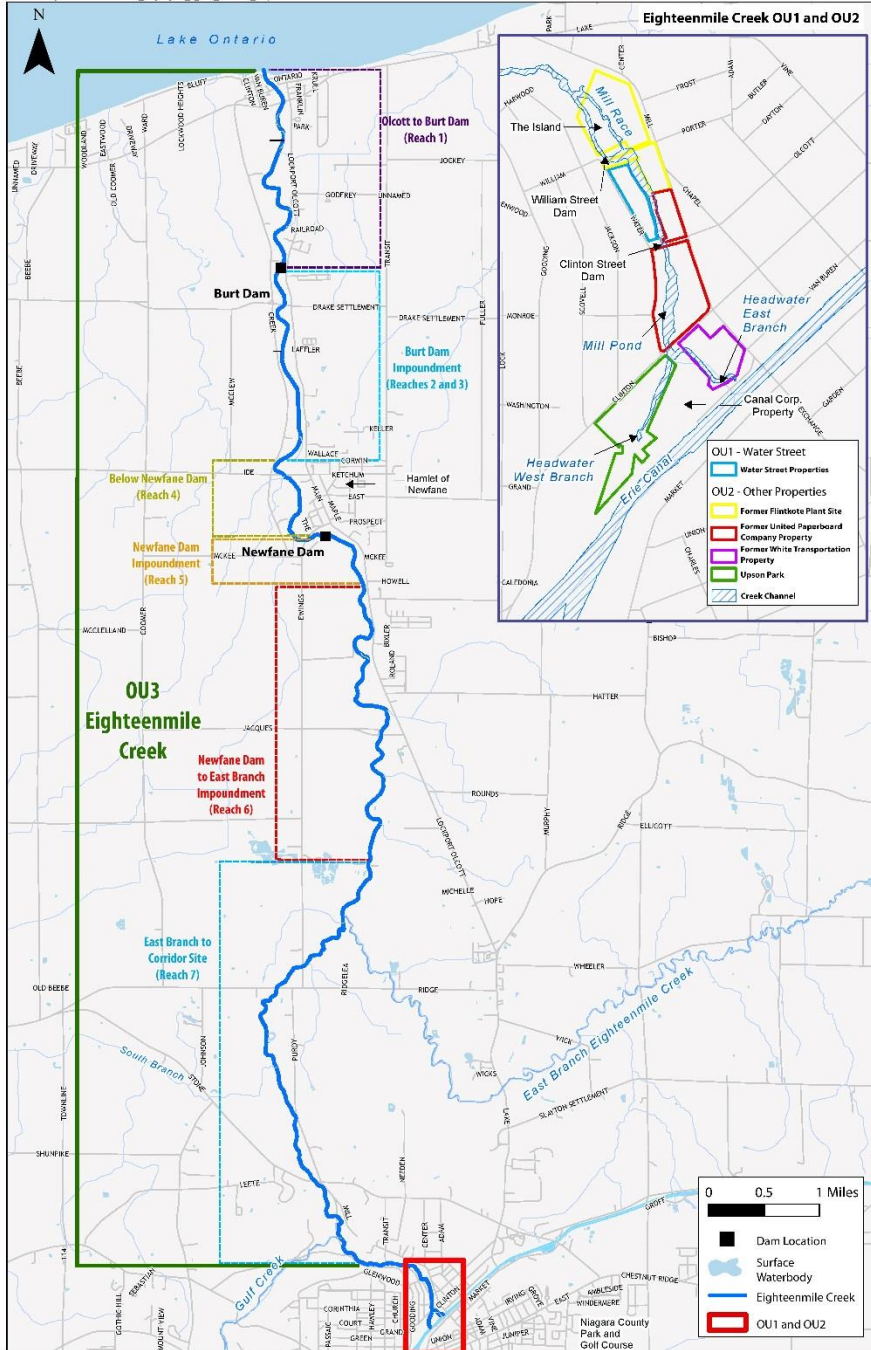
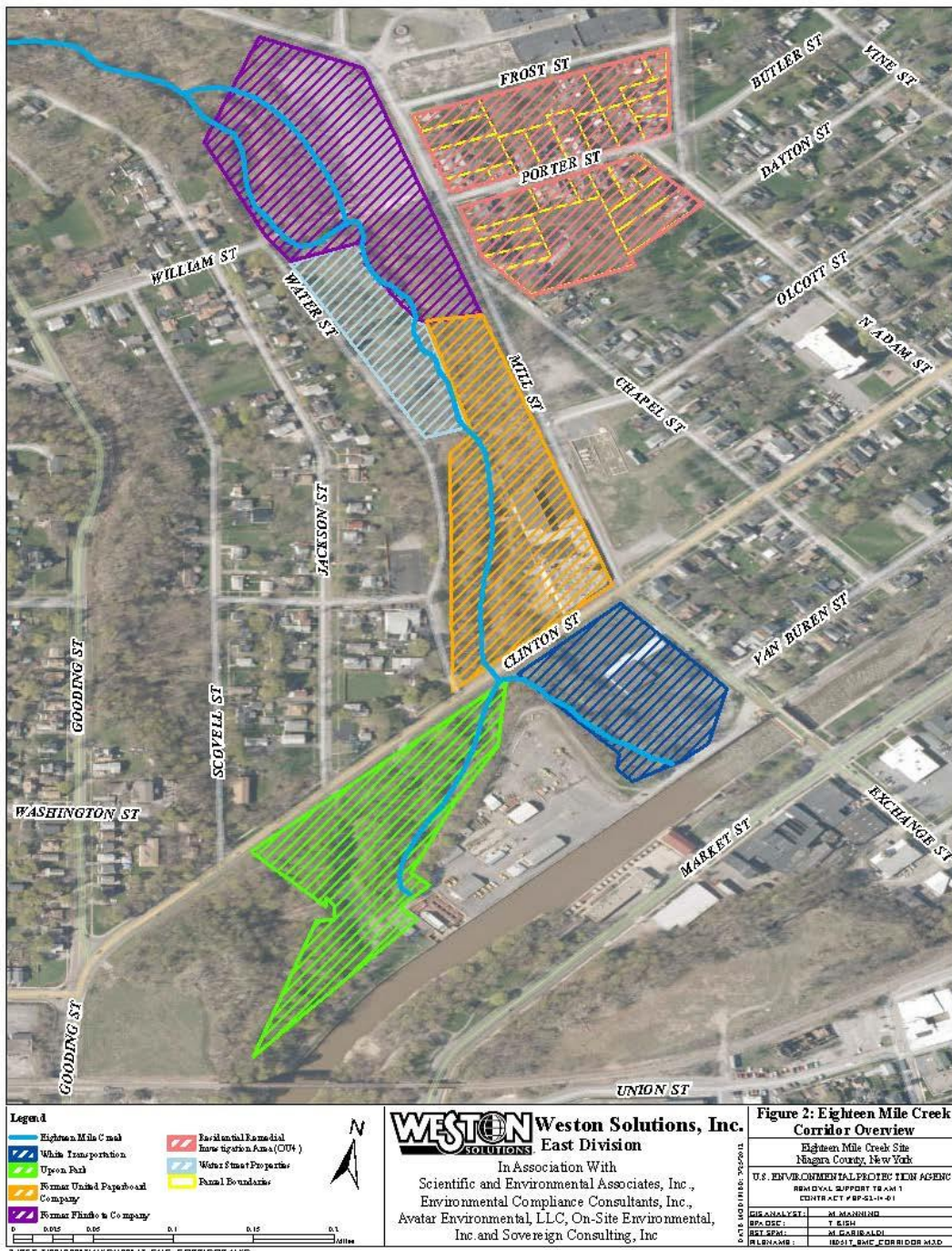


Figure 1 Site Location Map, Eighteenmile Creek Superfund Site  
Lockport, NY

## OU3 - Sediment in the Creek north of Lockport to Lake Ontario, and groundwater in the Creek Corridor

- EPA is currently conducting an investigation of the downstream areas of Eighteen Mile Creek
- Surface water, sediment, and soil samples were collected in summer 2018
- Investigation is being conducted in phases





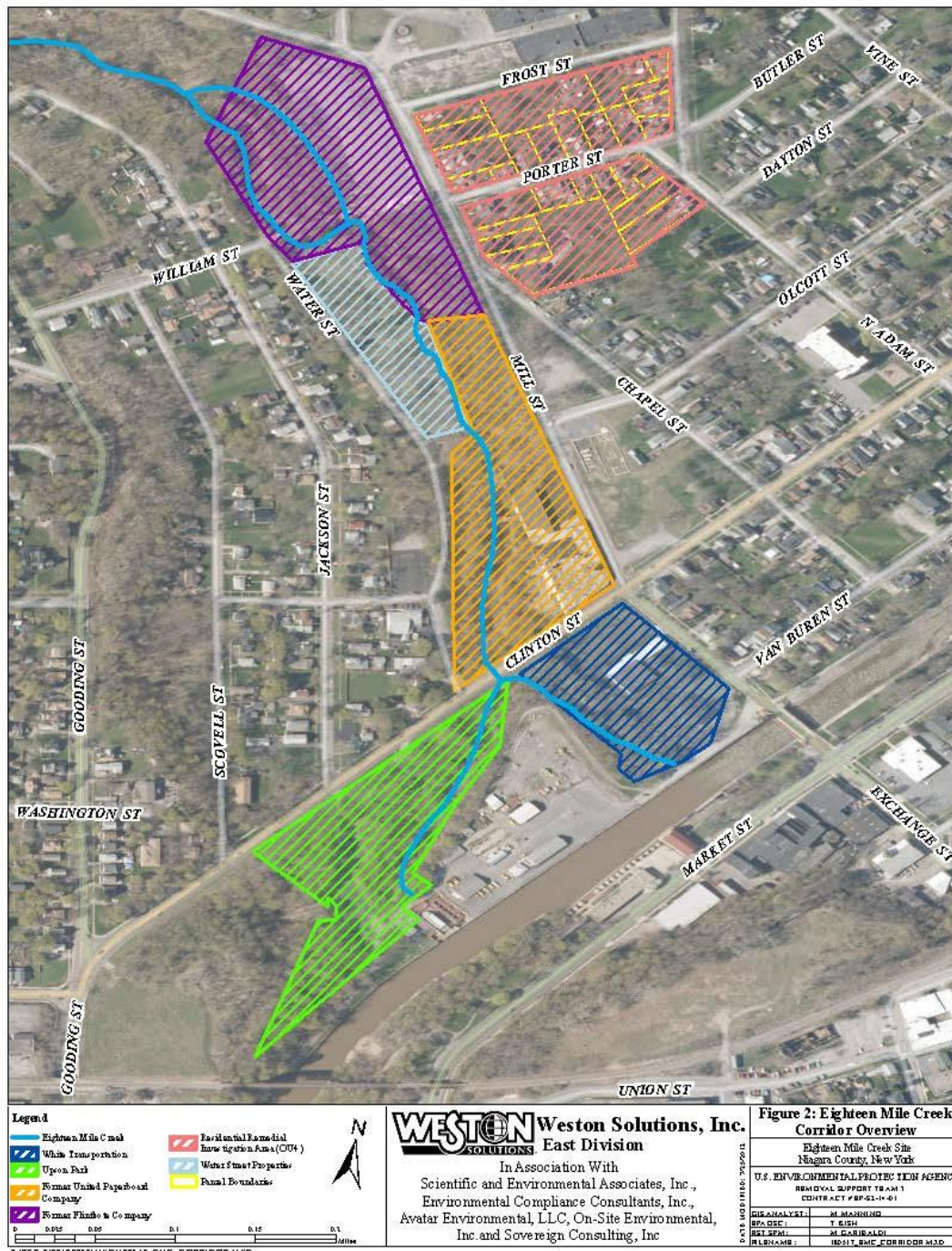
**OU4** - addresses lead-contaminated soil at certain residential properties adjacent to the former Flintkote property

OU4 is the subject of this Public Meeting



# OU4

- Using a phased approach, EPA sampled residential properties east to the Flintkote property to determine if there were impacts from the Site
- Three separate sampling events were performed in 2017, totaling 27 properties
- 4 additional properties sampled in 2018







## OU4 Investigation Results

- The results showed lead contamination at varying concentrations with no distinct pattern of distribution



- Wide range of lead concentrations from 11 ppm to 1,610 ppm
- The highest concentrations of lead were found in subsurface soil from 6-18 inches



## **Human Health Risk Assessment**

- Calculates risk to residents under current and future conditions
- Direct contact (eg. ingestion) with contaminated soil presented a future unacceptable risk to residents based on long-term chronic exposure over time



## **Reducing Potential Exposure**

- Wash your hands thoroughly after coming into contact with soil
- Take your shoes off at the door to reduce dirt brought into the house
- Clean your home to keep it dust free as possible
- Bathe pets frequently to reduce dirt brought into the house
- Avoid activities that could disturb soil, including gardening



## **Proposed Plan**

- Outlines the objectives of the cleanup
- Establishes soil cleanup levels
- Evaluates each cleanup option
- Proposes preferred cleanup option





## **Remedial Action Objectives**

Specific goals developed to protect human health and the environment:

- Prevent potential current and future unacceptable risks to human health resulting from direct contact (eg. ingestion) with contaminated soil.
- Prevent migration of site contaminants from the residential properties to other areas.



## **Preliminary Remediation Goal (PRG)**

The following two-tiered PRG has been identified for OU4:

### **Lead:**

- 400 ppm
- In addition to targeting detections of lead above 400 ppm, the average soil concentration across each residential property will be at or below 200 ppm



## **Remedial Alternatives**

**Alternative 1: No Action**

**Alternative 2: Limited Soil Excavation, Soil Cover, and Institutional Controls**

**Alternative 3: Excavation and Off-Site Disposal**



## **Alternative 1: No Action**

- No Remediation would take place
- Contaminated soil would remain at the properties
- Does not include any monitoring or institutional controls





## **Alternative 2: Limited Soil Excavation, Soil Cover, and Institutional Controls**

- Lead-contaminated soil above cleanup levels would be removed within the top 6 inches
- Install soil barrier and add clean soil on top
- Property restoration/plantings
- Land-use restrictions would be put into place
- Estimated cost: \$2,958,656



## **Alternative 3: Soil Excavation and Off-Site Disposal**

- Lead-contaminated soil above cleanup levels would be excavated
- Backfilled with clean soil
- Property restoration/plantings
- No land-use restrictions
- Potential temporary relocation during construction
  - If excavation activities significantly impact a residents' ability to access or use their properties
- Estimated Cost: \$6,711,416



## **Evaluation of Remedial Alternatives**

1. Overall protection of human health and the environment
2. Compliance with Applicable or Relevant and Appropriate Requirements (ARARs)
3. Long-term effectiveness and permanence
4. Reduction in toxicity, mobility, or volume of contaminants through treatment
5. Short-term effectiveness
6. Implementability
7. Cost
8. State/Support Agency Acceptance
9. Community Acceptance



## **Preferred Alternative**

### **Alternative 3: Excavation and Off-Site Disposal**

- Lead-contaminated soil above cleanup levels would be excavated
- Backfilled with clean soil
- Property restoration/plantings
- No land-use restrictions
- Potential temporary relocation during construction
  - If excavation activities significantly impact a residents' ability to access or use their properties
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## **Preferred Alternative**

- Depending on the results of the June 2018 sampling, this alternative may include further investigations during the remedial design to determine whether additional properties require remediation



## Next Steps

Written public comments accepted on the Proposed Plan through **August 27, 2018**

EPA will prepare a Record of Decision (ROD):

- Final decision document describing the selected remedy
- Includes responses to comments received through 8/27/18, including verbal comments received at this meeting



## Resources

Site documents are available at:

- **Lockport Public Library** - 23 East Avenue, Lockport, NY 14094
- **Newfane Public Library** - 2761 Maple Avenue, Newfane, NY 14108
- **EPA Records Center** - 290 Broadway, 18<sup>th</sup> floor, New York, NY 10007
- EPA's website for the Eighteen Mile Creek Site:

<https://www.epa.gov/superfund/eighteenmile-creek>



## **Address written comments to:**

Jaclyn Kondrk  
Remedial Project Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20th Floor  
New York, New York 10007  
E-mail: [Kondrk.jaclyn@epa.gov](mailto:Kondrk.jaclyn@epa.gov)

This presentation may be found at:

<https://www.epa.gov/superfund/eighteenmile-creek>