# Welcome

Al Tech Specialty Steel
401003

Proposed Remedial
Action Plan
OU1 & OU4

## Public Meeting 1/22/2019

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# Introductions

**Project Managers**

- Ruth Curley, P.E. — NYSDEC Project Manager
- Steven Berninger — NYSDOH Project Manager
- Jean Firth — MACTEC – Project Manager

Agenda

Meeting wrap-up by 8:30

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# Document Repositories

Site related documents can be reviewed:

- Watervliet Public Library
- NYSDEC - Central Office

Proposed Remedy (PRAP) is on the DEC website:

http://www.dec.ny.gov/chemical/96987.html

# Agenda

- Briefly overview the NY State Superfund Program
- Summarize the Investigation
- Present remedial options
- Answer questions related to the proposed remedy

# State Superfund Process

- *Site is identified.*
- *A Remedial Investigation is performed & documented*
- *A Feasibility Study evaluates remedial alternatives*
- *DEC writes a Proposed Remedial Action Plan*
- ➢ ***Public meeting and comment period***
- *DEC may modify the proposed remedy based on the comments.*
- *Issue a Record of Decision (finalizes the remedy)*
- *Remedy Implemented*

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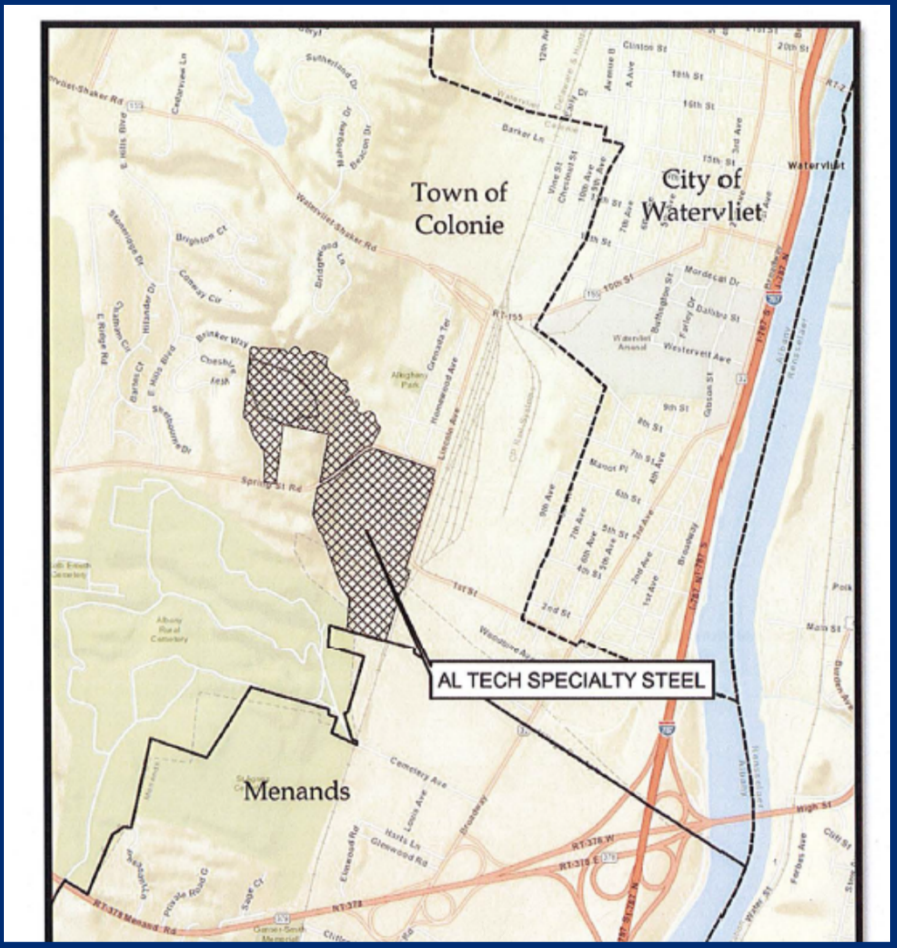
# Site History
# &
# Investigation Summary

# Site Location

Site divided by Spring Street

31 acres North

68 acres South



# How is the Site Divided?

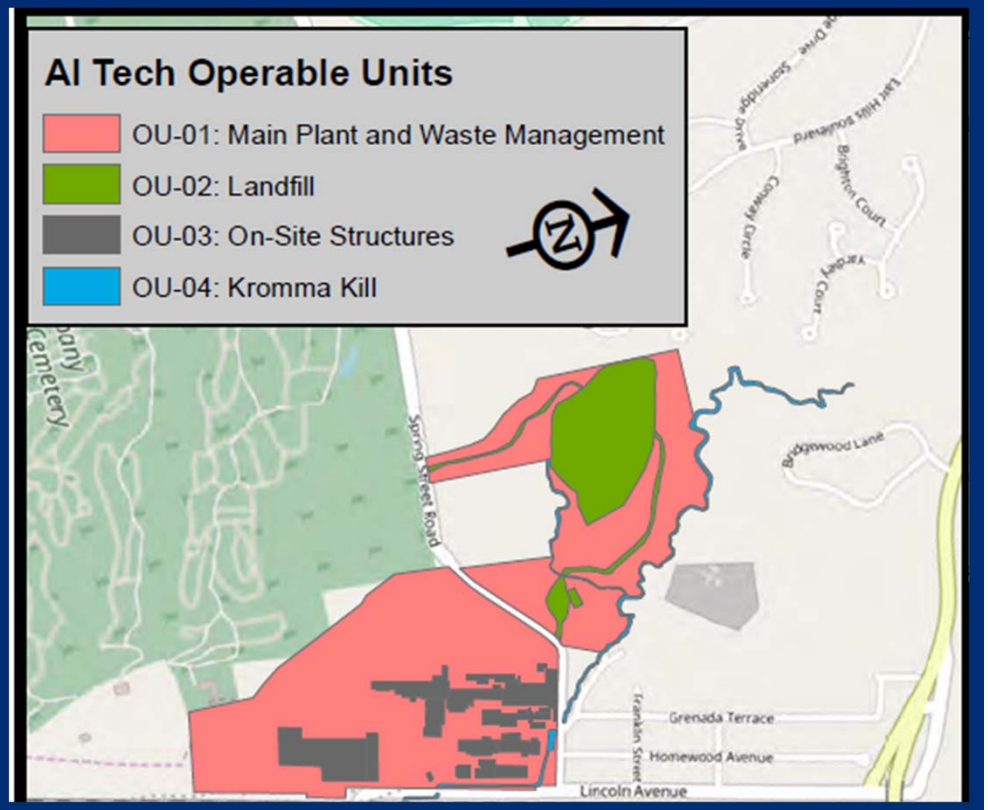
OU1 - Main Plant Area & Area around the Landfill

OU2 - Closed Landfill

OU3 - On-site Buildings

OU4 - Kromma Kill on the Main Plant Area & Adjacent Soils

OU5 - Kromma Kill Off-site (not shown on figure)



# Site History

- Began operations - 1909
- Important industry to the area & Capital District
- Ownership changes 1980's - 1990's
- Bankruptcy in 1999 (Sammi Steel)
- Operations ceased in 2002

# Site Remedial History

- Investigations began in the 1990's with Al Tech
- PCB  Transformer Removal  2005-2006
- Site Cleanout - 2008
- South Lagoon Excavation – 2011
- Product Removal  (vaults,tanks,sumps)- 2015
- Oil/Water Separator Cleanout -2017

- Investigation completed in late 2016
- Report and Alternative Evaluations 2017
- Remedies Proposed 2018-2019

# Site Remedial History

- February 2018 - OU2 and OU3 public mtg
  - OU2 (landfill) / OU3 (buildings)

- Today,  proposals for the remaining on-site areas
  - OU1 Main Plant Area (without the buildings)
  - OU4 Kromma Kill on the Main Plant

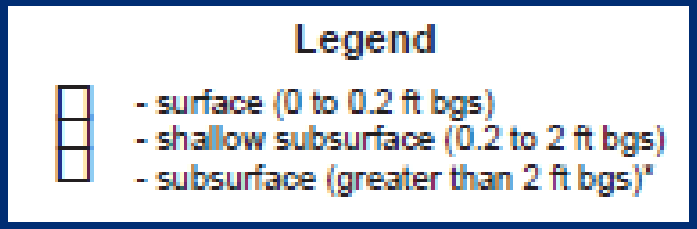
# Investigation Summary

- Soil
- Groundwater
- Sediment

- We'll discuss
  - Site Soils on Main Plant Area & non-landfill area
  - Groundwater on the Main Plant Area
  - Sediments in the on-site Kromma Kill

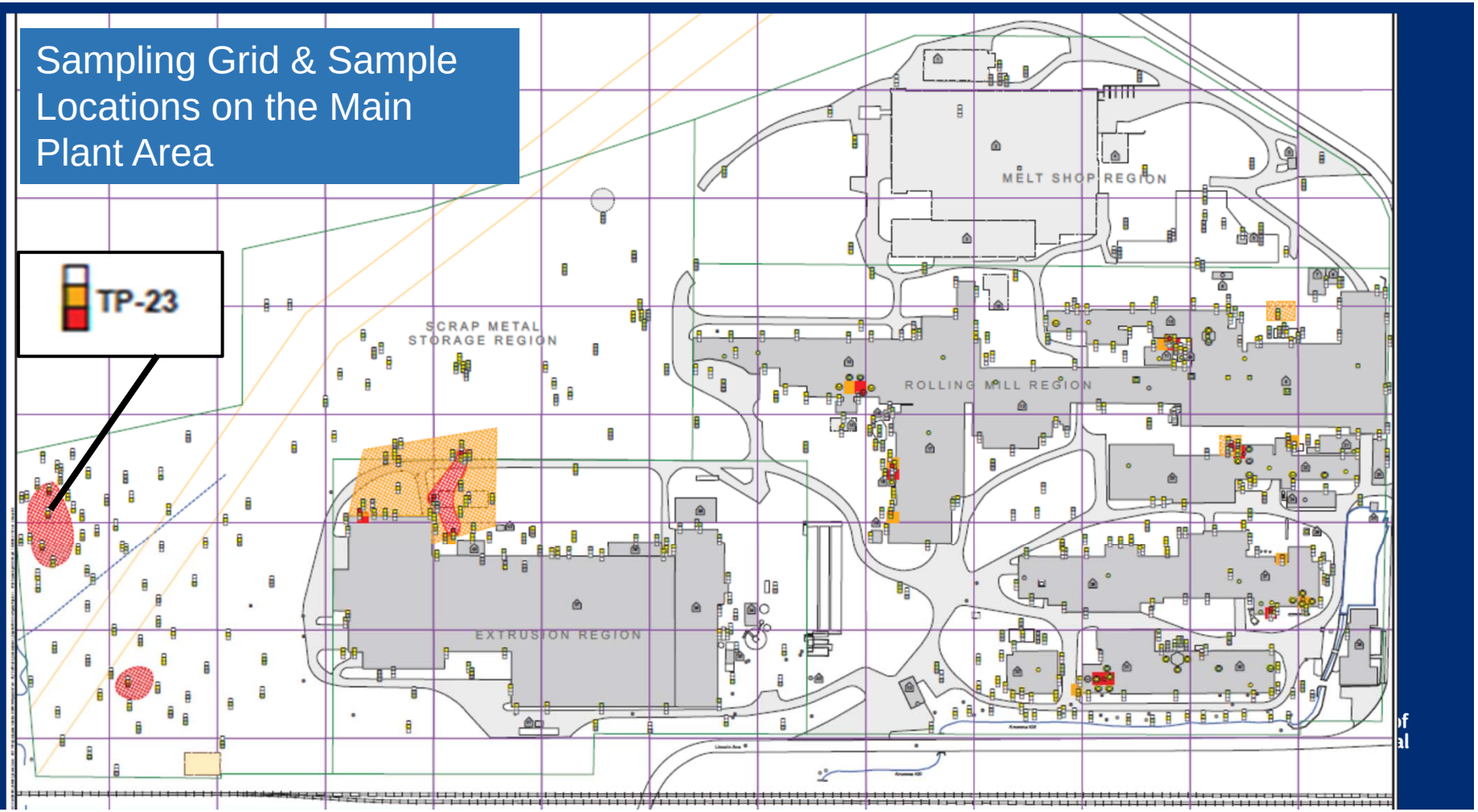
# Soil Contamination

- Sampled at 3 depths




- Contaminants are Metals and PCBs
- Lead next to the Kromma Kill

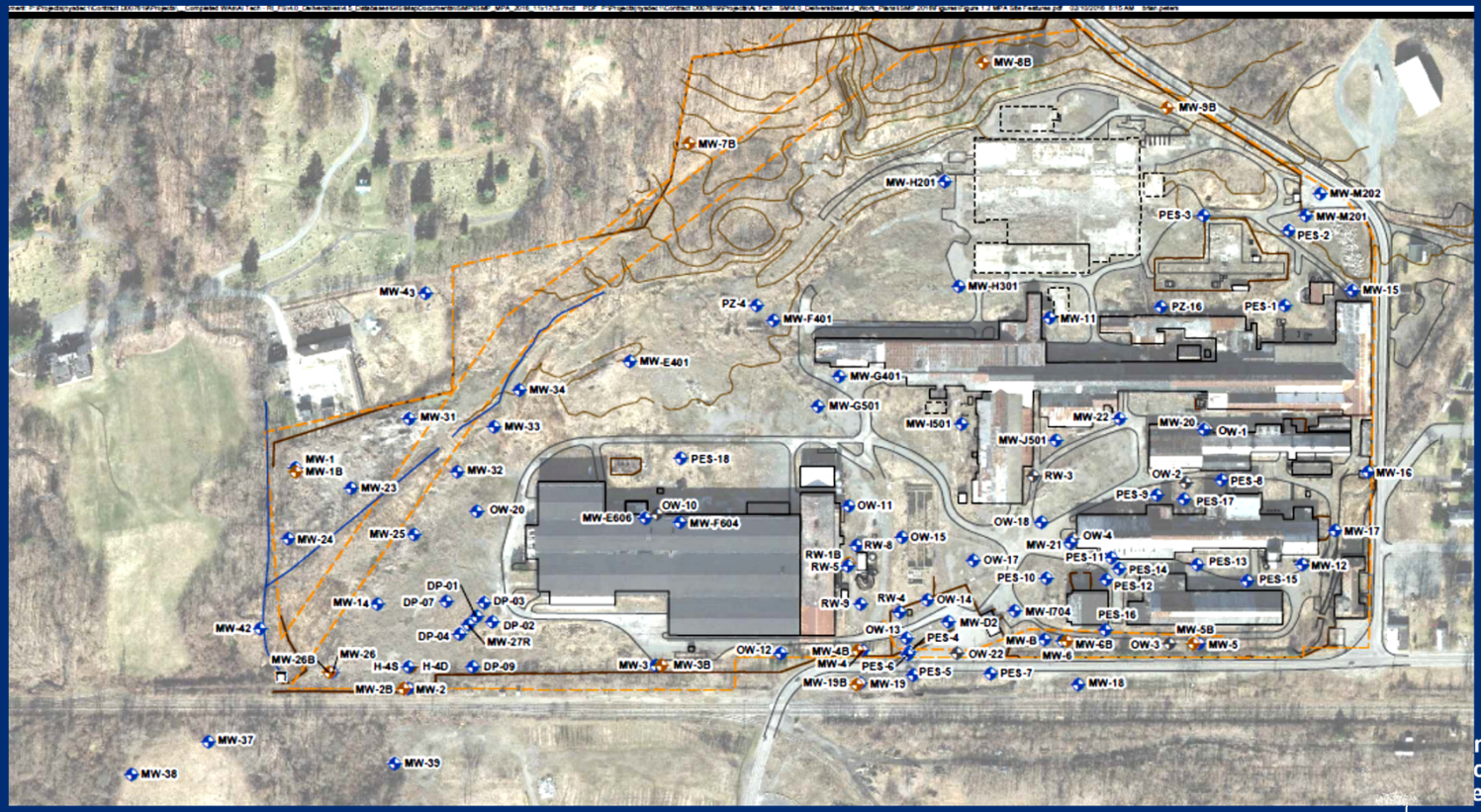
# Sampling Grid & Sample Locations on the Main Plant Area



# Groundwater Contamination

- 70 shallow + 10 bedrock wells - since 90's
- Contaminants:
  - Chromium, PCBs in shallow groundwater
  - Petroleum in shallow groundwater
  - Nickel in bedrock groundwater
- Site is geologically underlain by clay, which prevents shallow contaminant migration (chromium and PCBs)

# Monitoring Wells –Main Plant Area

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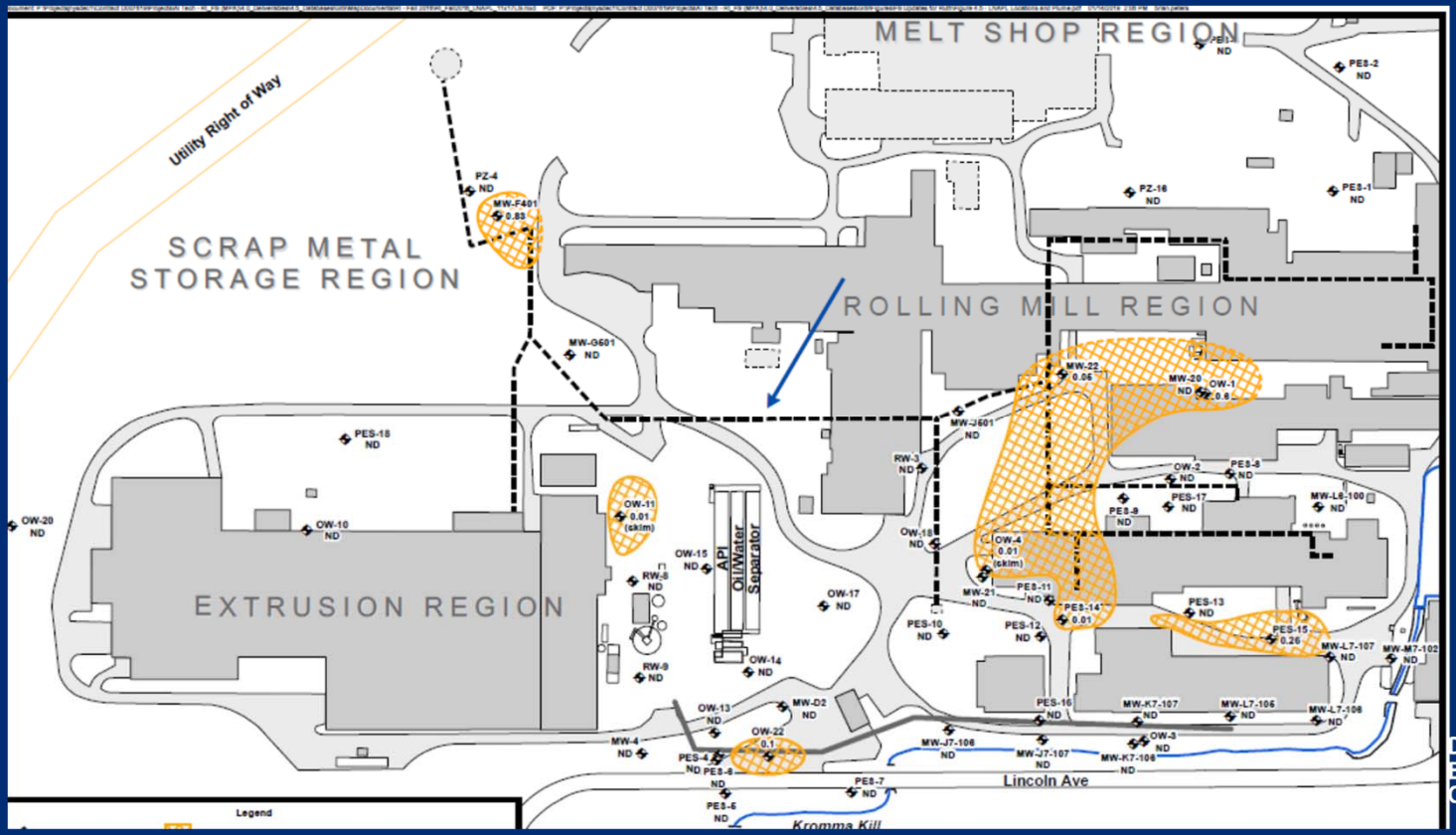
# Petroleum Contaminated Groundwater

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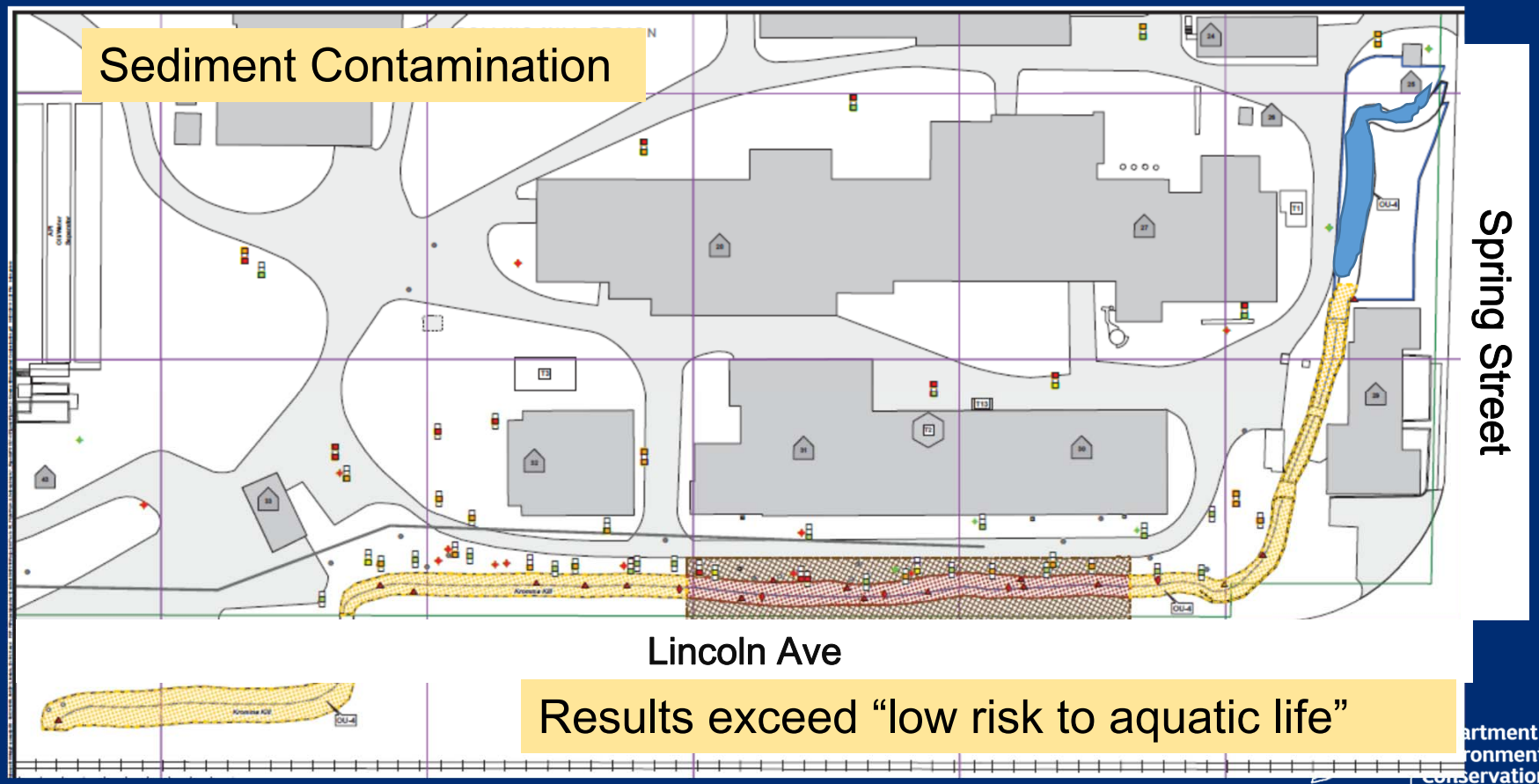
## Sediment Contamination




Results exceed “low risk to aquatic life”

# Role of the NYS Department Of Health

- Work with NYSDEC to identify nature and extent of contamination to evaluate potential exposures
- Evaluate data and make recommendations to address any potential exposure and evaluate the need for additional information
- Ensure that remedy selected is protective of public health

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# What is exposure?

- Physical contact with a chemical or substance
  - Inhalation (breathing)
  - Direct contact (touching)
  - Ingestion (eating/drinking)
- One or more of these physical contacts must occur before a chemical has the *potential* to cause a health problem
- Exposure does not necessarily mean that health effect will occur

# Potential Exposure Pathways

## Inhalation

- *Airborne dust may contain contaminants so an approved community air monitoring plan (CAMP) will be in place during the implementation of the remedy*
- *The CAMP will monitor both upwind and downwind of intrusive work*
- A soil vapor intrusion evaluation will be conducted for any future on-site redevelopment.

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# Potential Exposure Pathways

## Direct Contact

- *People may come into contact with contaminants present in soils by walking on, digging in or otherwise disturbing the soil*
- *People may come into contact with contaminants present in sediments of the Kromma Kill by disturbing the sediments or by walking on or digging in soil adjacent to the stream*
- The site cover will be maintained and an excavation plan will be in place in the event that excavation happens in the future.

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# Potential Exposure Pathways

## Ingestion

- *People are not drinking contaminated groundwater as the area is served by a public water supply that is not affected by this contamination*
- *People should wash hands after coming in contact with Kromma Kill surface water, sediments or nearby floodplain soils, particularly prior to eating*
- Groundwater use restriction will be in place on the property.

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# Potential Remedies for OU-01

1. No Action
2. Excavation of all contaminated soil and fill (~ 320,000 $yd^3$)

3, 4 ,5 include a site cover system & groundwater monitoring

3. Remove PCBs above 50 ppm (1540 $yd^3$)
4. Remove PCBs above 25 ppm (6030 $yd^3$)
5. Remove PCBs above 25 ppm & treat groundwater

# Potential Remedies for OU-04

No Action

Remove sediments & lead-contaminated soil
Treat & Dispose on-site

Remove sediments & lead-contaminated soil
Treat & Dispose off-site

# Remedial Alternatives Evaluation

Evaluation Criteria

- *Threshold Criteria: Must be satisfied in order for an alternative to be considered for selection:*
  - Overall protection of human health and the environment;
  - Compliance with applicable or relevant and appropriate requirements;

# Remedial Alternatives Evaluation

*Balancing Criteria:*

- Short-term impacts and effectiveness;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume through treatment;
- Implementability;
- Cost

# Remedial Alternatives Evaluation

*Modifying Criterion:*

- Community Acceptance
  - Determined by public comments and documented in a "Responsiveness Summary"
- Land Use

# Proposed Remedial Alternative Costs

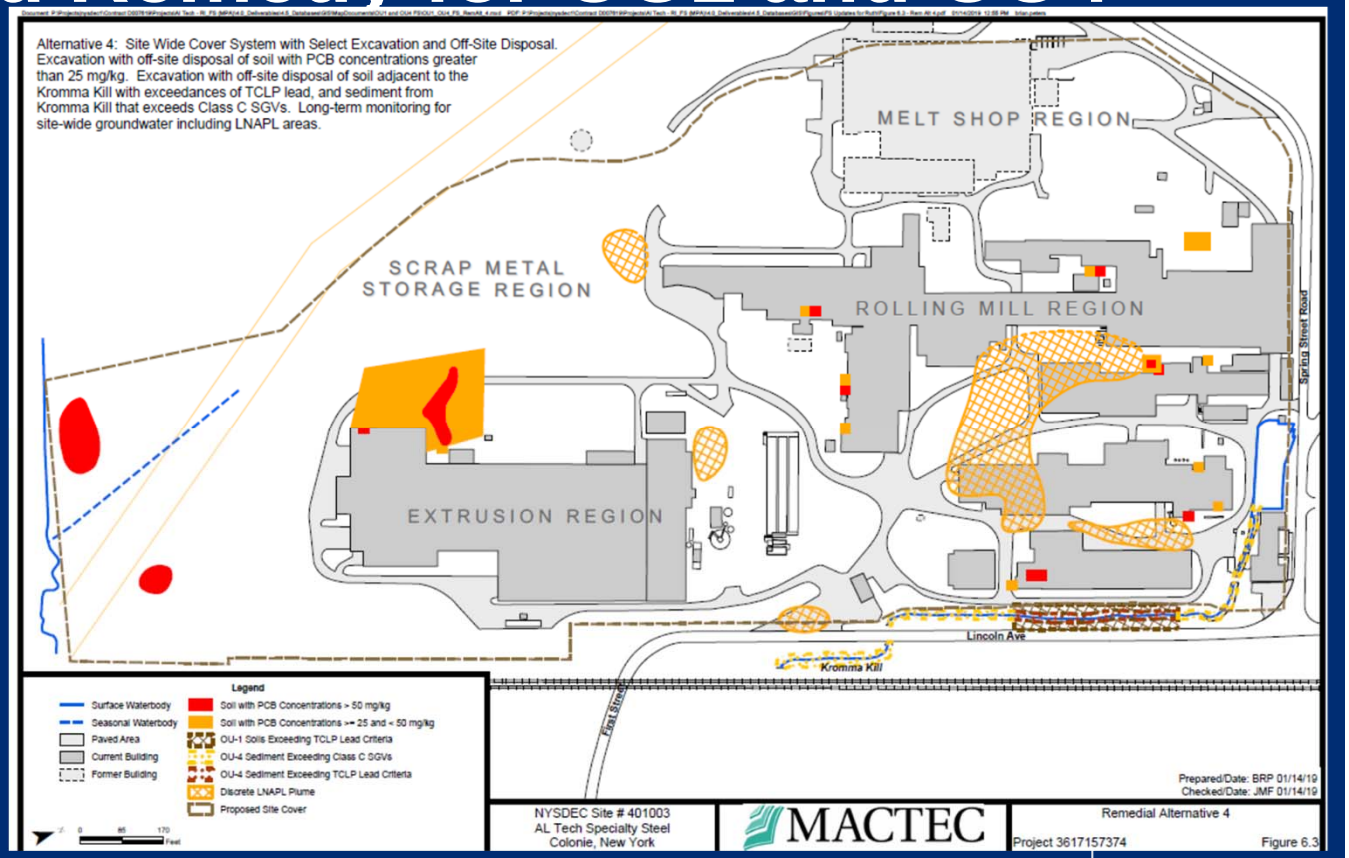
| Remedy Components | Alternative Number | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | Proposed |
| Cost* | - | 97.9 M | 15.0 M | 20.7 M | 24.4 M | 16.6 M |
| No Action | | | | | | |
| Return to Pre-Disposal Conditions | | X | | | | |
| Off-Site PCB Disposal over 50 ppm | | | X | | | |
| Off-Site PCB Disposal over 25 ppm | | | | X | X | X |
| Soil & Sediment Excavation & On-Site Treatment & Disposal | | | X | | | X |
| Soil & Sediment Excavation & Off-Site Treatment & Disposal | | | | X | X | |
| Soil Cover System | | | X | X | X | X |
| * Site Management (Monitoring) | | | X | X | X | X |
| Institutional Controls (Easement) | | | X | X | X | X |
| Groundwater Treatment on-site | | | | | X | |

# Proposed Remedy for OU1 and OU4

1. Excavate Soil with PCBs in excess of 25 ppm. Dispose Off-Site.
2. Excavate Soil & Sediments at Kromma Kill that contain metals (Lead, Chromium, Nickel)
3. Treat and Dispose of Kromma Kill materials on-site
4. Place Cover System (crushed stone) over the site where pavement or building slabs do not exist
5. Continue to passively recover petroleum in groundwater & monitor sitewide groundwater.

# Proposed Remedy for OU1 and OU4

- Excavate Soil
- Ship PCBs Off-site
- Treat Metals On-Site
- Cover System
- Manage & Monitor Groundwater
- Easement



# Justification for Proposed Alternative

- Protective of Human Health and the Environment
- Complies with Applicable Standards and Guidance
- Short and Long Term Effectiveness
- Reduces Contaminant Volume
- Implementable Technology
- Conforms to Anticipated Land Use

# Questions?

# How to Comment?

Comment Period ends 2/2/2019

# How to Comment?
# Project Contacts

**Meeting/Comment Period/ Technical Information:**

Ruth Curley, P.E.
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625 Broadway
Albany, New York 12233-7016
(518) 402-9767
ruth.curley@dec.ny.gov

**Health-Related Information:**


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# End of presentation