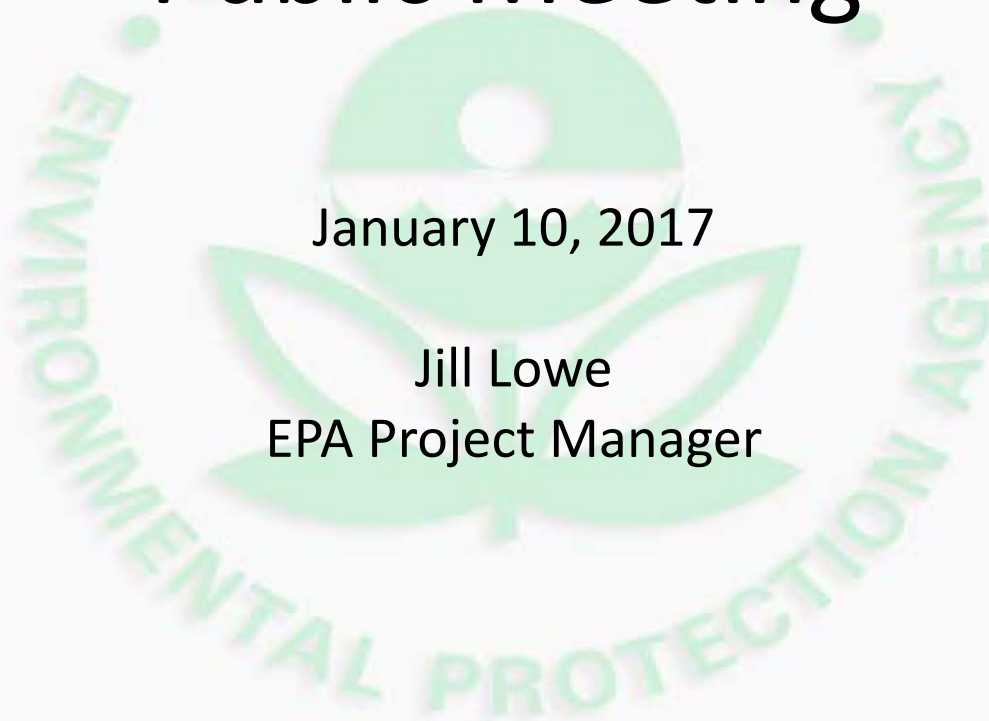


# BoRit Asbestos Superfund Site Public Meeting

January 10, 2017

Jill Lowe  
EPA Project Manager



# Meeting Goals



- Review EPA's Proposed Clean-Up Plan for BoRit Site
- Gather Comments and Questions from You



## Notes:

1. Digital orthoimagery source: Bing Maps 2010.



## Legend

Site Boundary

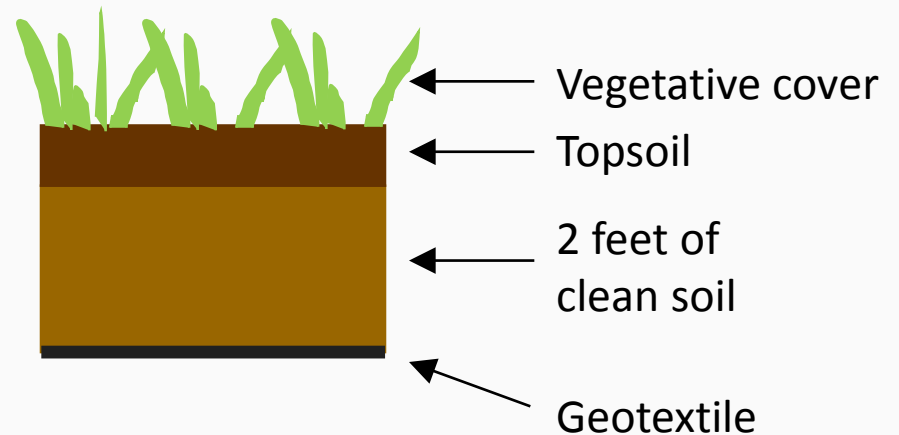
# Preferred Clean-Up Option



## Capping

– Permanently Cover all Asbestos Waste on-Site

- Geotextile
- 2 feet of clean soil
- Topsoil
- Vegetative cover





# Preferred Clean-Up Option



## Capping

- Enhances EPA's completed Site stabilization work by requiring:
  - Post-Construction Sampling
  - Land Use Controls
  - Long-Term Maintenance
  - Long-Term Monitoring
  - Five Year Reviews by EPA

# Wissahickon Creek



Before



After





# Wissahickon Creek





# Tannery Run



Before



After





# Rose Valley Creek





# Reservoir Berms



Before



After





# Pile Parcel



Before



After



# Pile Parcel





# Park Parcel



Before



After



# Public Comment Period



- Review EPA's Proposed Clean-Up Plan at:

**Wissahickon Valley Public Library  
Ambler Branch  
209 Race Street  
Ambler, PA 19002  
(215) 646-1072**

**U.S. EPA Region 3  
Public Reading Room  
1650 Arch Street - 6th Floor  
Philadelphia, PA 19103-2029  
(215) 814-3157**

**<http://www.epa.gov/ambler>**

**<https://semspub.epa.gov>**



# Public Comment Period



- Comments will be accepted until March 3, 2017

U.S. EPA Region 3

3HS21

ATTN: Jill Lowe

1650 Arch Street

Philadelphia, PA 19103-2029

[R3\\_Boritcomments@epa.gov](mailto:R3_Boritcomments@epa.gov)

# Site History



- Keasby & Mattison used Site to dispose of asbestos waste
- 2006 – EPA Conducts Site Assessment
- 2008-17 – EPA Stabilizes Site for Short-Term Protection
- 2009 – Finalized on the National Priorities List
- 2016 – EPA Issues Proposed Clean-Up Plan for Long-Term Protection



# Contaminants of Concern



Media	Human Health	Ecological
Waste/soil	Asbestos	<b>Asbestos</b> Bis(2-ethylhexyl)phthalate Dioxins and Furans Chromium Nickel Zinc
Reservoir Sediment	None	<b>Asbestos</b> Carbon disulfide

# Groundwater



## **Groundwater is not a media of concern:**

1. Asbestos was not detected above the MCL in groundwater
2. VOCs in upgradient well at higher levels
3. Detections of bis(2-ethylhexyl)phthalate not replicated
4. Detections of manganese not a plume; not site-related; and a secondary contaminant



# Risk Assessment



Potential Receptors Evaluated for Asbestos Exposure:

## **On-Site (Pile, Reservoir and Park):**

- Current/Future Maintenance Worker
- Future Recreational Visitor
- Future Commercial Worker (Park and Pile parcels)

## **Off-Site:**

- Current/Future Residents
- Current/Future Recreational Visitor

# Remedial Action Goals



- Prevent Human Inhalation of Asbestos
- Prevent Plant & Wildlife Contact with Asbestos and other Contaminants



# Clean-Up Options



- No Action “WSS1”
- Capping “WSS2”
- Excavation & Off-Site Disposal “WSS3”
- Heating/Solidification “WSS4”
- High-Temperature Chemical Treatment “WSS5”

# Clean-Up Options



- No Action “WSS1” **(\$165 Thousand)**
- Capping “WSS2” **(\$27 Million)**
- Excavation & Off-Site Disposal “WSS3” **(\$269 Million)**
- Heating/Solidification “WSS4” **(\$257 Million)**
- High-Temperature Chemical Treatment “WSS5”  
**(\$267 Million)**



# Evaluation Criteria



	Criteria
Threshold Criteria	1. Overall protection of human health and the environment
	2. Compliance with Applicable Regulations
Balancing Criteria	3. Long-term effectiveness and permanence
	4. Reduction of toxicity, mobility or volume through treatment
	5. Short-term Effectiveness
	6. Implementability
	7. Cost
Modifying Criteria	8. State Acceptance
	9. <b>Community Acceptance</b>

# Preferred Clean-Up Option



## Capping

- Permanently Cover all Asbestos Waste on-Site
  - Geotextile
  - 2 feet of clean soil
  - Topsoil
  - Vegetative cover



# Preferred Clean-Up Option



- Inactive Asbestos Waste Disposal Regulations:
  - National Emission Standards for Hazardous Air Pollutants (NESHAPS)
- The preferred clean-up option will meet NESHAP requirements which include:
  - A. Cover ACM with at least 6 inches of fill and maintain a vegetative cover, or
  - B. Cover ACM and maintain at least 2 feet of fill.

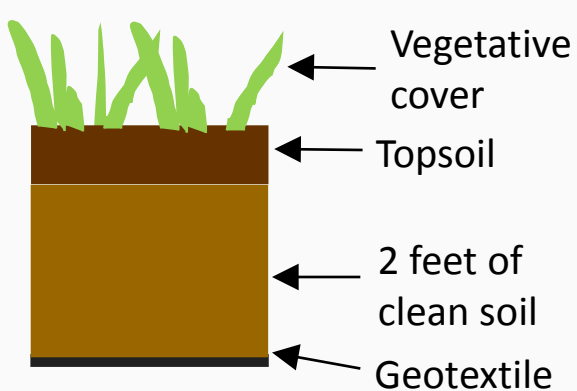
# Preferred Clean-Up Option



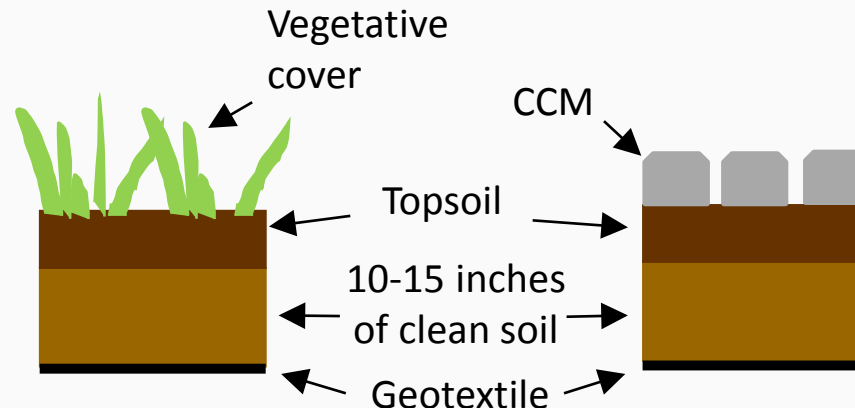
## Capping

- Stream banks and Reservoir were different to account for erosion

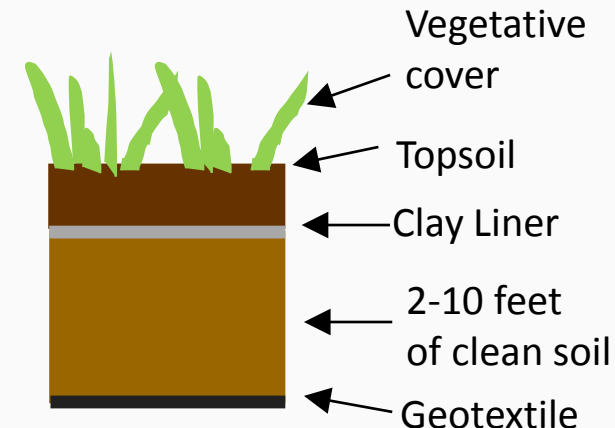
**Park and Pile**



**Stream Banks**



**Reservoir Berms**





# Preferred Clean-Up Option



## Capping

- Enhances EPA's completed Site stabilization work by requiring:
  1. Post-Construction Sampling
  2. Land Use Controls
  3. Long-Term Maintenance by PADEP
  4. Long-Term Monitoring by PADEP
  5. Five-Year Reviews by EPA

# Preferred Clean-Up Option

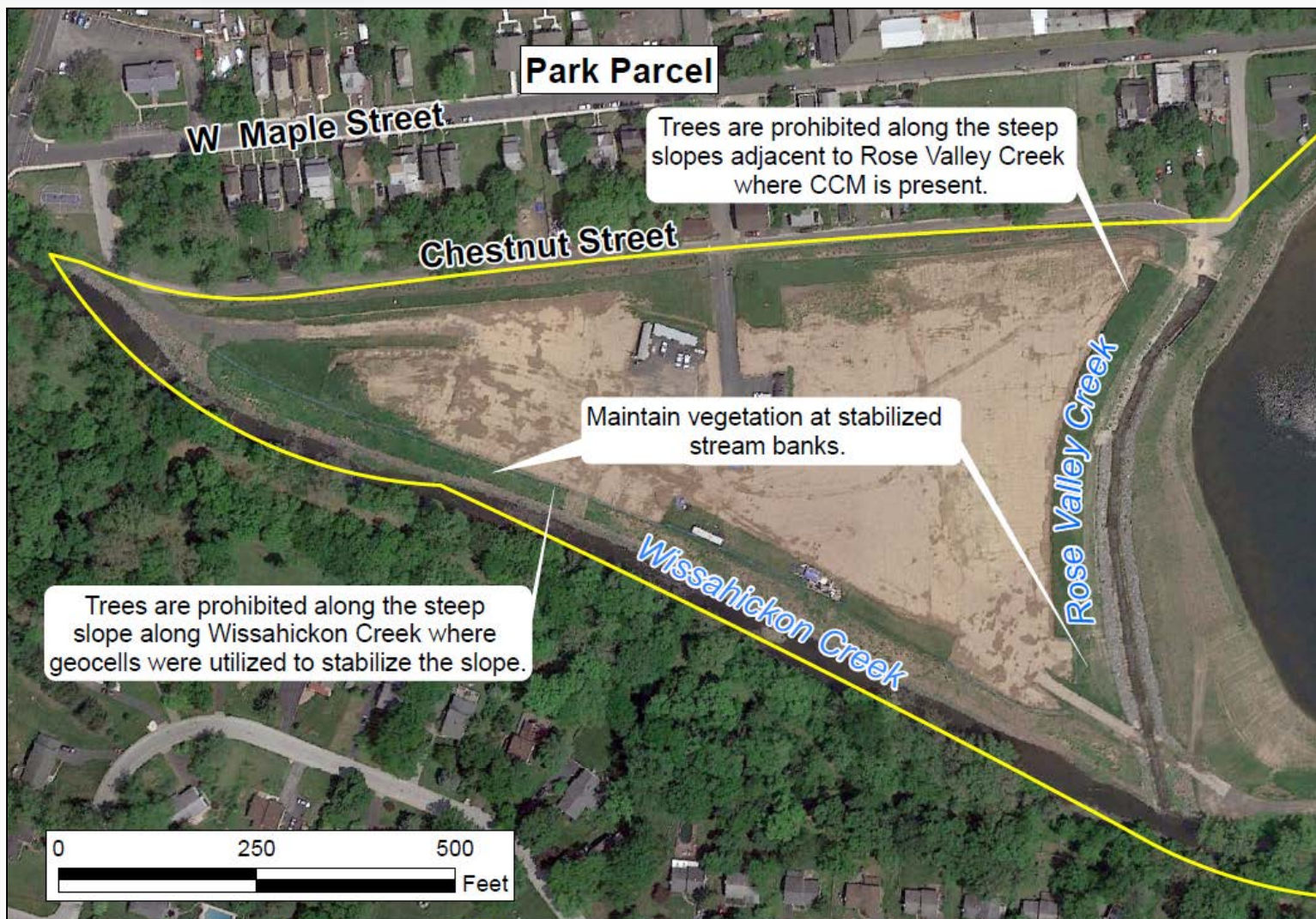


## Land Use Controls

- Land Use restricted to Recreational/Open Space
  - Redevelopment Requires Coordination with EPA and PADEP
- Activities that disturb the soil cap are prohibited without EPA and PADEP approval
- Public access restricted after major storms until the site is evaluated for damage

# Preferred Clean-Up Option:

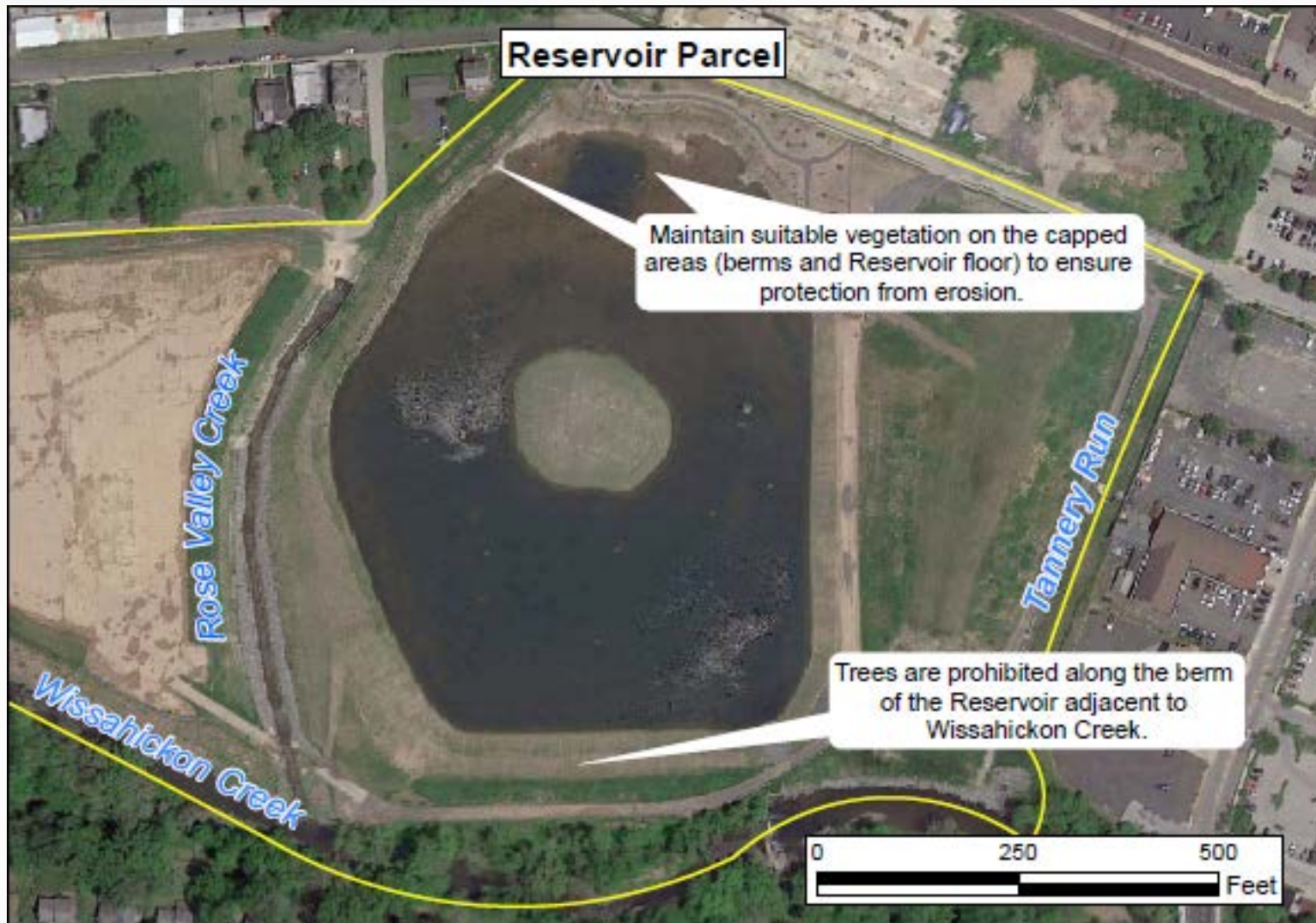
## Land Use Controls





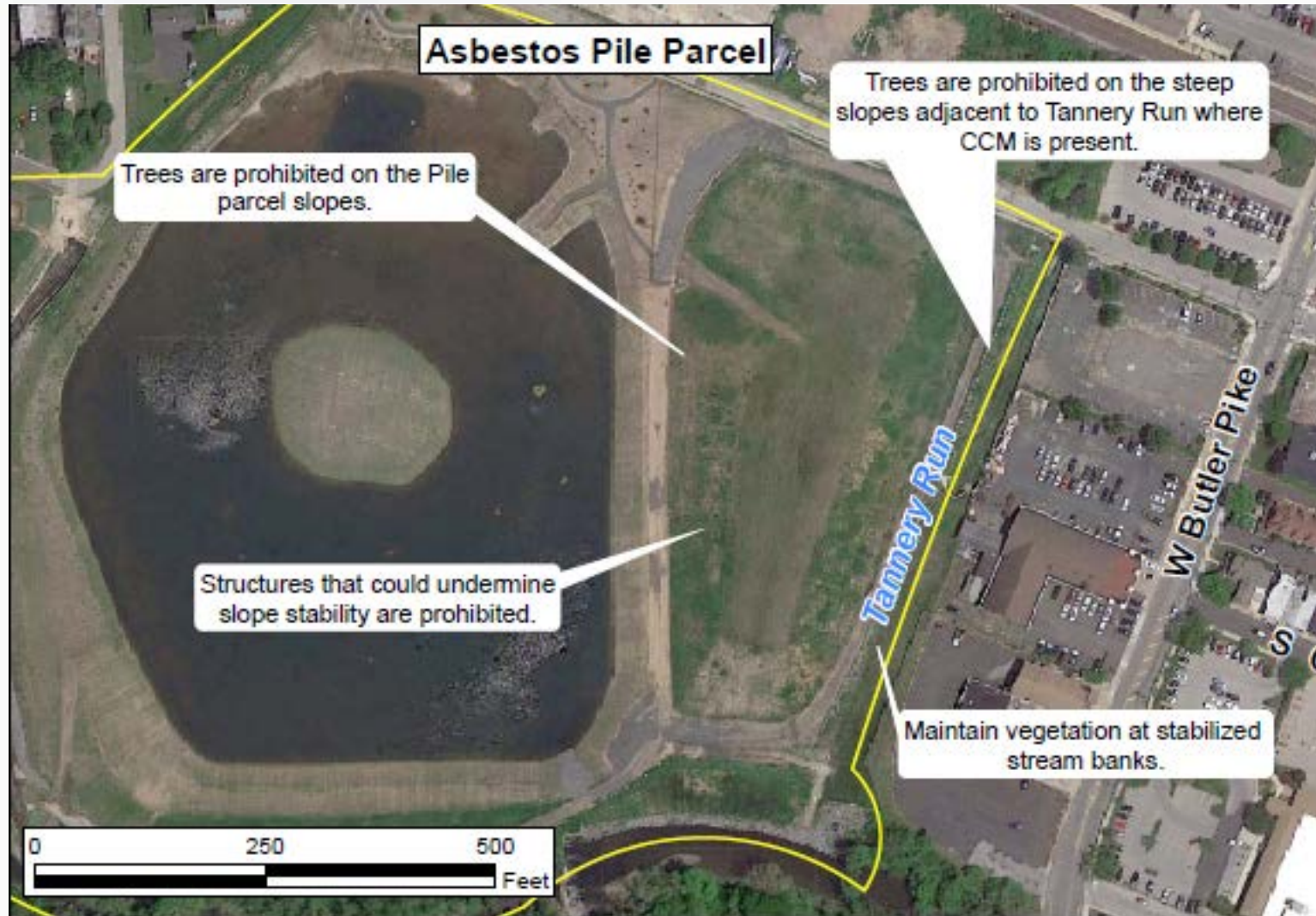
# Preferred Clean-Up Option:

## Land Use Controls



# Preferred Clean-Up Option:

## Land Use Controls





# Preferred Clean-Up Option



Long-Term Maintenance Plan will include:

1. Quarterly Site Inspections
2. Annual Sampling
3. Protocols for Routine Maintenance & Repairs
4. Extreme Weather Procedures



# Preferred Clean-Up Option



- Capping is EPA's preferred Clean-Up Option because it:
  - 1. Prevents exposure to asbestos in the short-term and long-term**
  2. Minimizes Disturbance
  3. Offers opportunities for beneficial re-use of the Site
  4. Represents the most cost-effective option

# Other Options



- Other Options were not selected because they:
  - Present a significant risk of Asbestos Exposure during excavation/treatment activities
  - Will cause Long-term Disturbance (10-20yrs to implement)
  - Represent the least cost-effective options (\$257-\$269 Million)
  - Raise Significant Feasibility Concerns
  - May increase flooding potential

# Wissahickon Creek



Before



After





# Wissahickon Creek





# Tannery Run



Before



After





# Rose Valley Creek





# Reservoir Berms



Before



After







**Aerial Photos Courtesy of Salvatore A. Boccuti**

# Reservoir





# Pile Parcel



Before



After



# Pile Parcel





# Park Parcel



Before



After





# Aerial View



Before



After



**Aerial Photos Courtesy of Salvatore A. Boccuti**

# Public Comment Period



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**<http://www.epa.gov/ambler>**

**<https://semspub.epa.gov>**



# Environmental Concerns of Communities around Ambler, Pennsylvania

[Contact Us](#)[Share](#)

## BoRit Proposed Remedial Action Plan Public Comment Period

[Fact Sheet on PRAP \(PDF\)](#)  
[BoRit PRAP - December 2016 \(PDF\)](#)  
[Public Meeting - January 10, 2017](#)

1 2

Sign up to receive updates on what EPA is doing in Ambler, Pennsylvania!

Email address:

(optional) Your name:

**sign up**

**Related Events**

Environmental concerns around Ambler, Pennsylvania include two Superfund sites: BoRit Asbestos Superfund Site and Ambler Asbestos Piles Superfund Site, both of which are primarily contaminated



# Public Comment Period



- Comments will be accepted until March 3, 2017

U.S. EPA Region 3

3HS21

ATTN: Jill Lowe

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# Next Steps



- **Issue Record of Decision (ROD)**
  - Detailed version of the Proposed Plan
  - Legally selects the cleanup plan for the site
  - Responds to public comments

# Questions?



## Contact Information

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[soscia.gina@epa.gov](mailto:soscia.gina@epa.gov)