



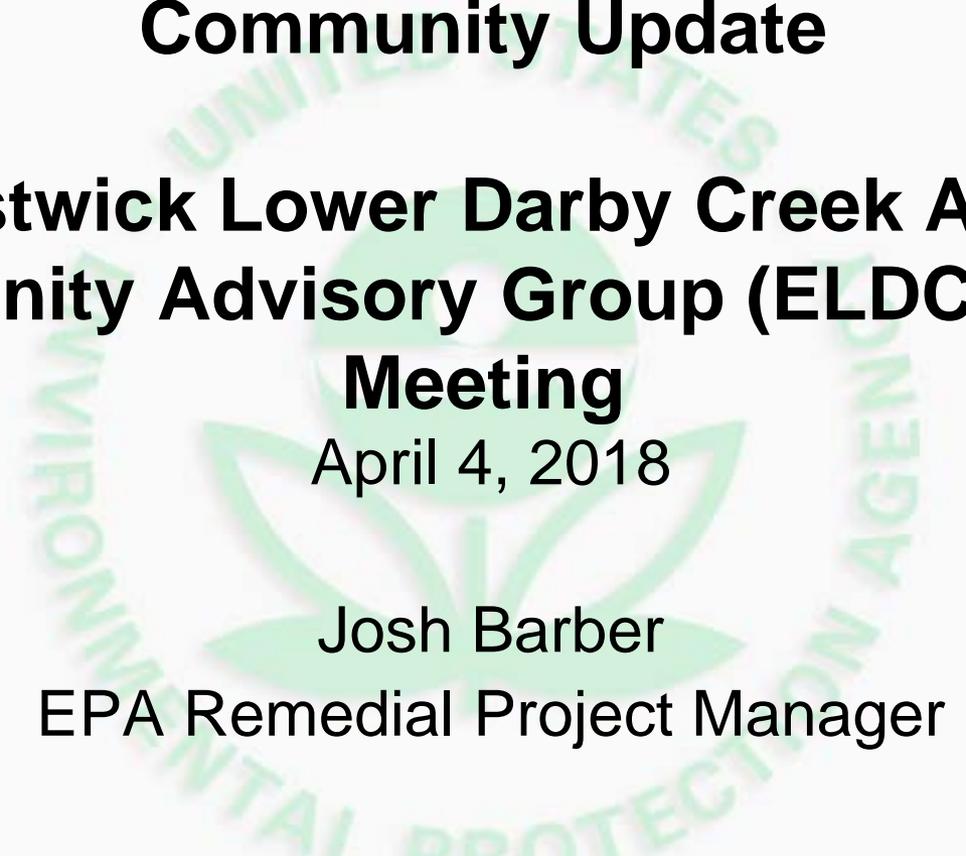
**Lower Darby Creek Area Superfund Site
Community Update**

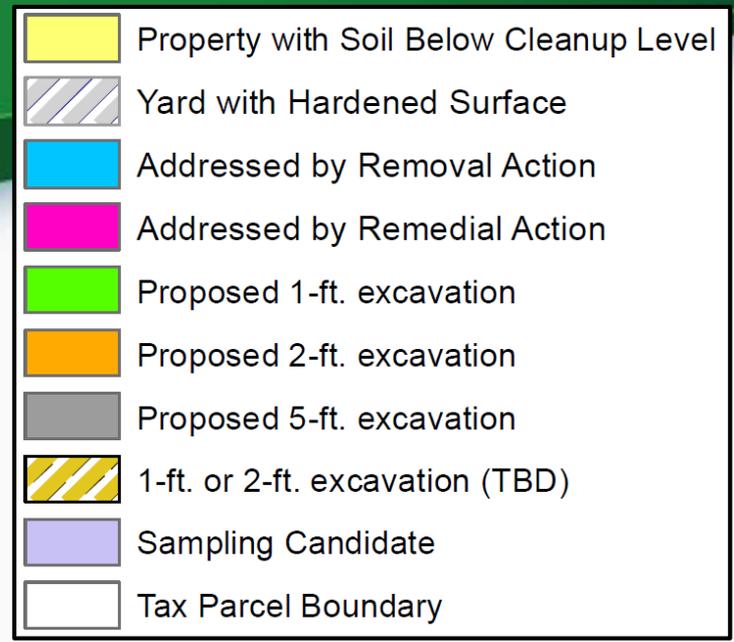
**Eastwick Lower Darby Creek Area
Community Advisory Group (ELDCA CAG)
Meeting**

April 4, 2018

Josh Barber

EPA Remedial Project Manager





Residential Yard Cleanup Status

- 92 properties addressed since 2016
- Approx. 7,831 cy of contaminated soil
- Approx. 50+ additional residential properties plus several open space areas yet to be addressed
- Likely more yards to be identified















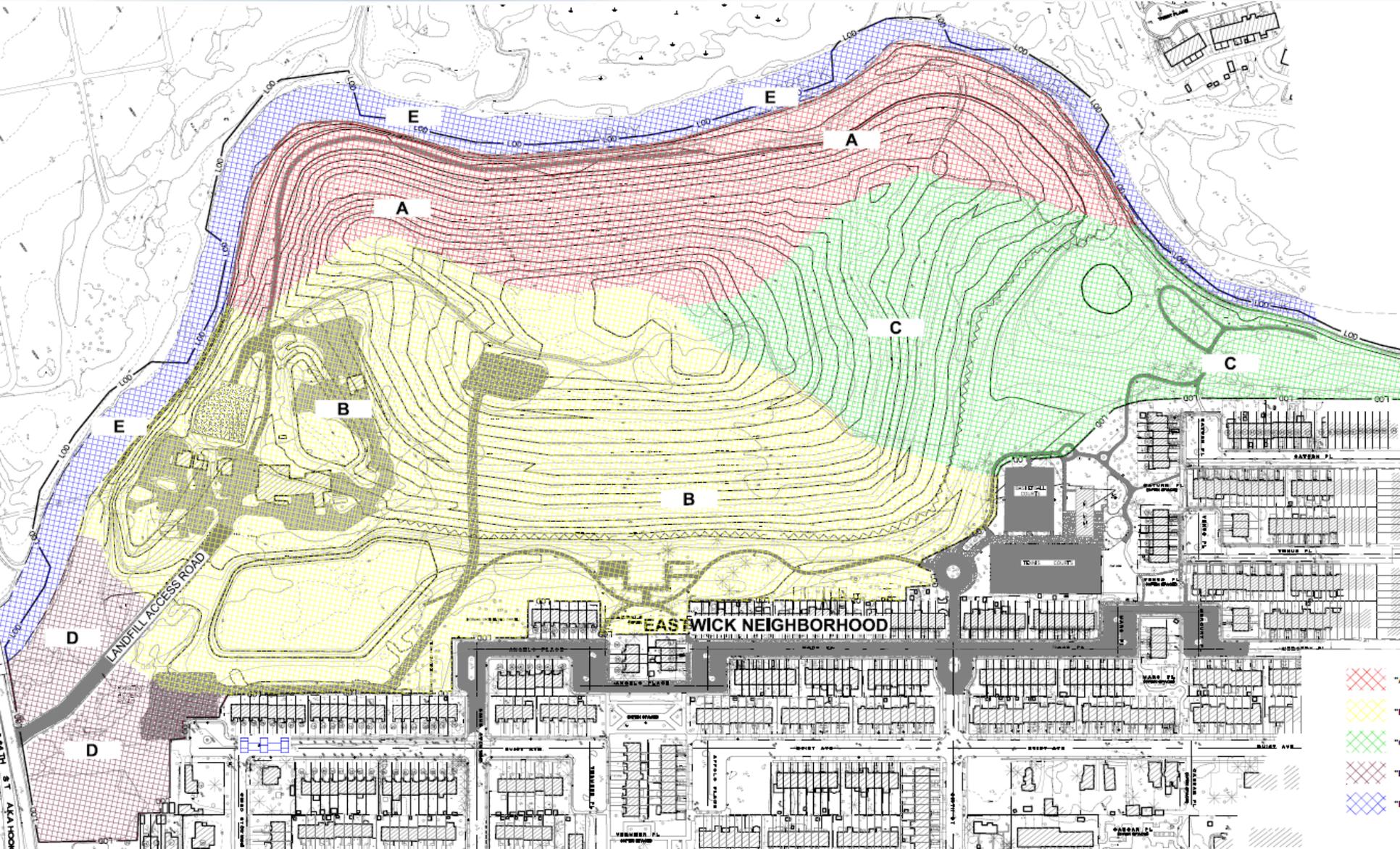




Clearview Landfill OU1 Status

- Expect to complete yard cleanup by fall 2018
- Expect Remedial Design to be final in June or July 2018
- Expect to start first phase of landfill portion of cleanup in summer/fall 2018 (estimate 9-12 months to complete first phase)
- Developing draft plans for communications, coordination with CAG, etc., RD public meeting, multi-block meetings, signage, etc. leading up to start of landfill cleanup.

Landfill Remediation Phases

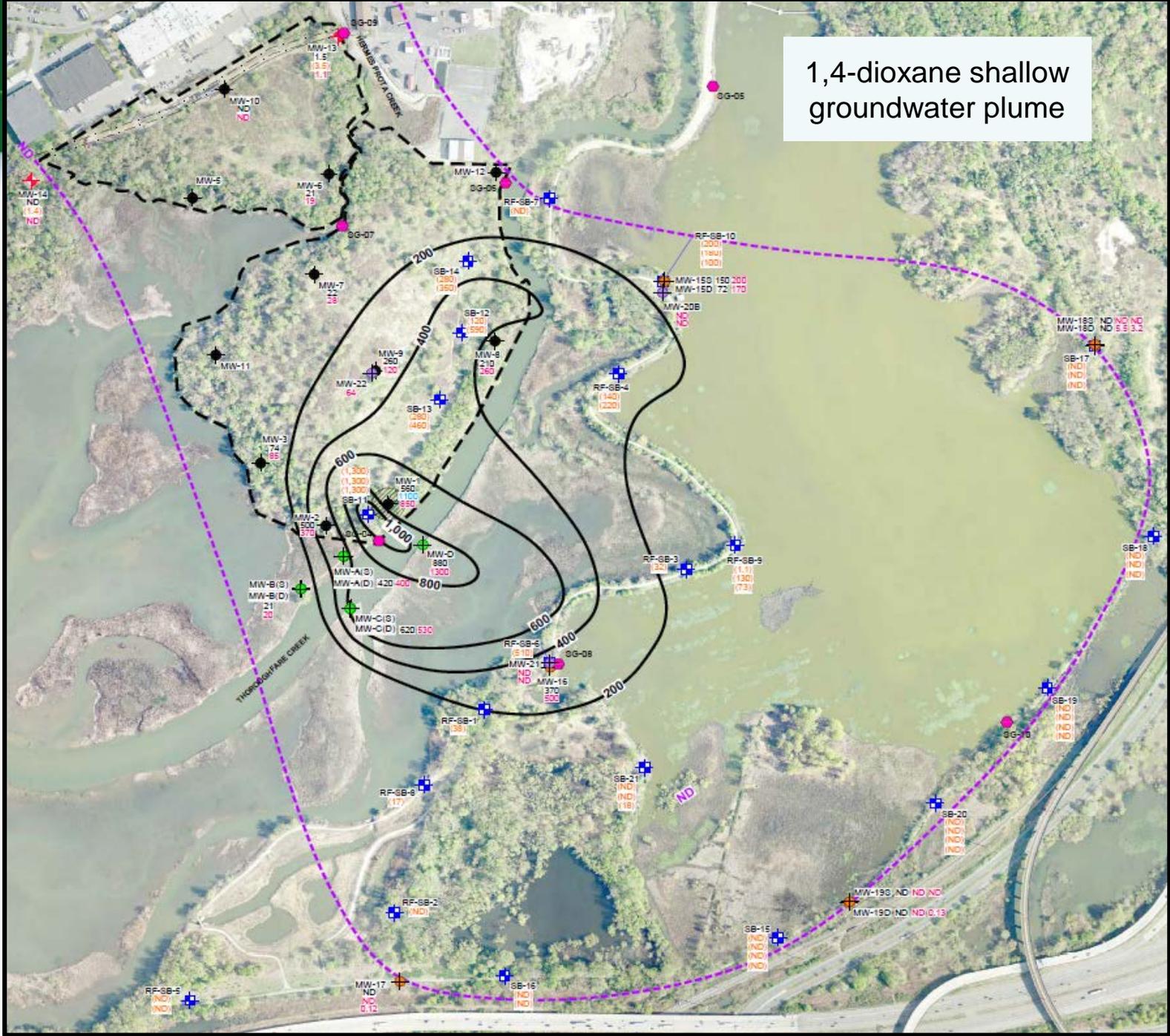




Folcroft Landfill OU2 Status

- Responsible Parties w/ EPA, DEP oversight.
- Includes entire landfill plus groundwater
- Remedial Investigation report being revised and expect to be final in summer/fall 2018.
- Feasibility Study in initial stages.

1,4-dioxane shallow groundwater plume





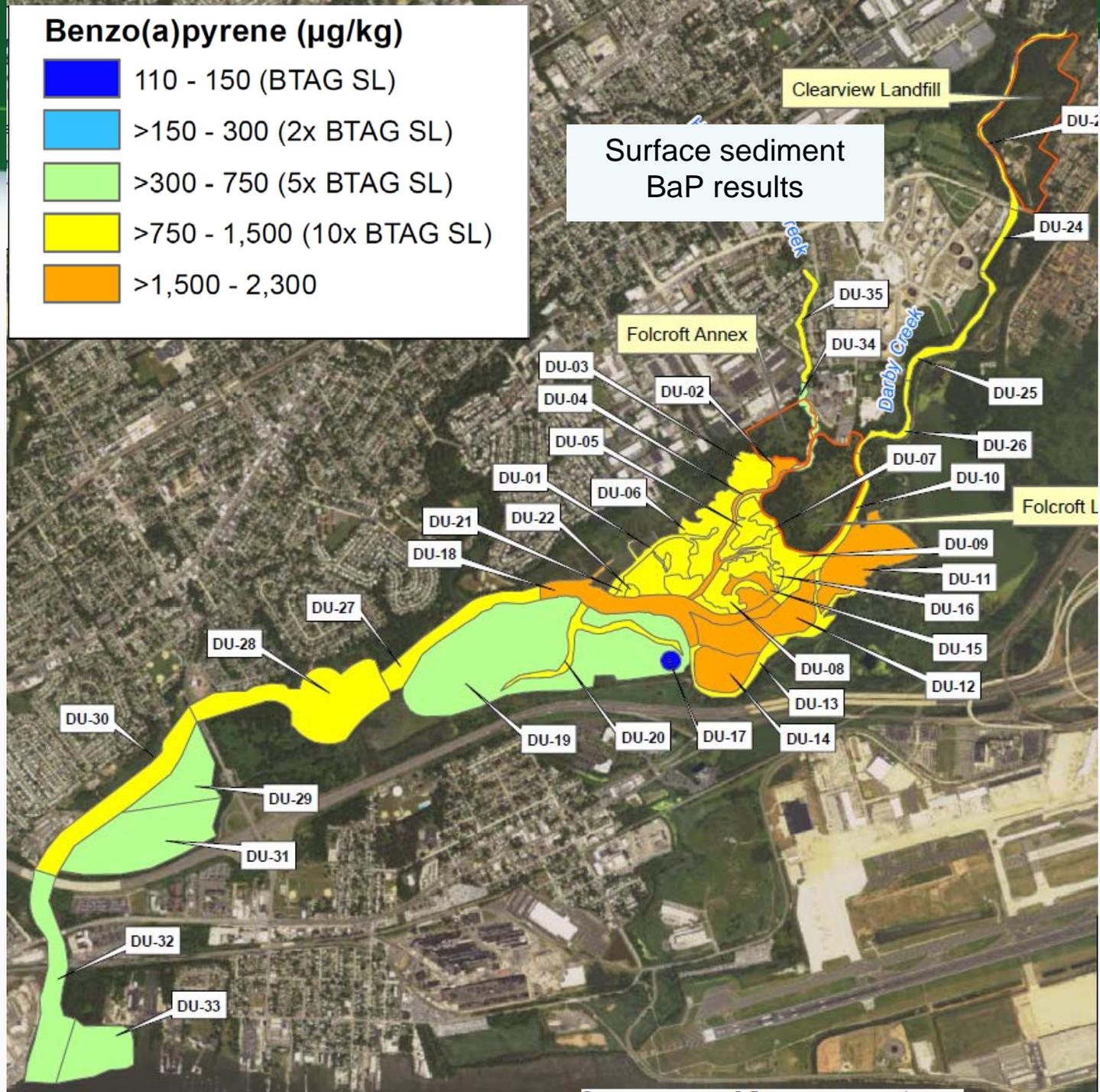
Folcroft/LDCA Aquatic Risk Assessment Status

- Being conducted by EPA in coordination w/ DEP and USFWS (Heinz).
- Evaluating human and ecological risks from contaminants in sediment, fish, turtles,
- Expect report to be finalized in fall/winter 2018

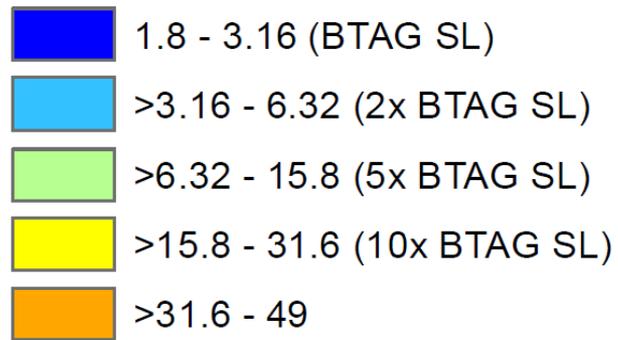
Benzo(a)pyrene ($\mu\text{g}/\text{kg}$)

- 110 - 150 (BTAG SL)
- >150 - 300 (2x BTAG SL)
- >300 - 750 (5x BTAG SL)
- >750 - 1,500 (10x BTAG SL)
- >1,500 - 2,300

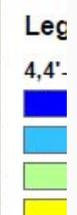
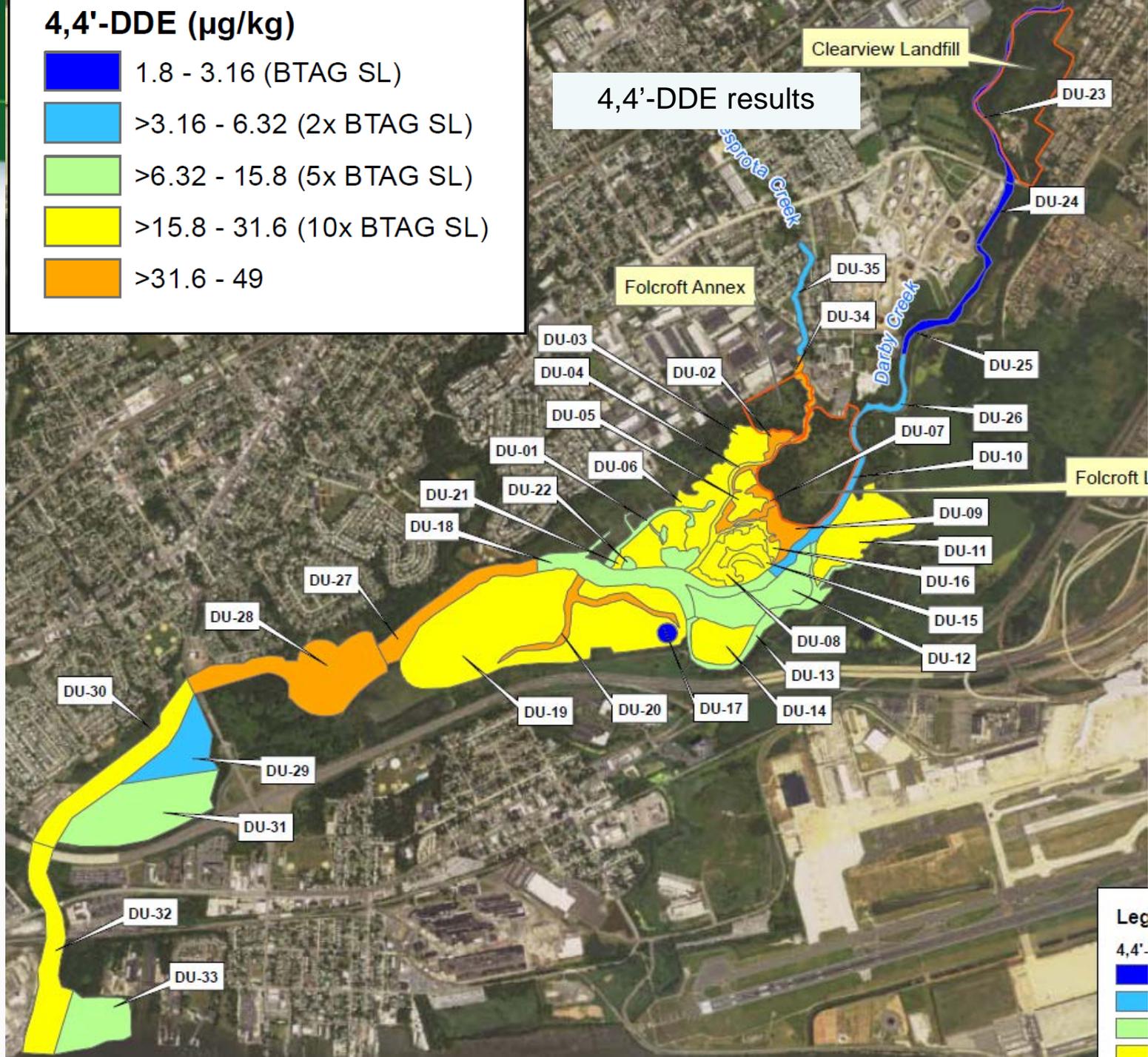
Surface sediment
BaP results



4,4'-DDE ($\mu\text{g}/\text{kg}$)



4,4'-DDE results

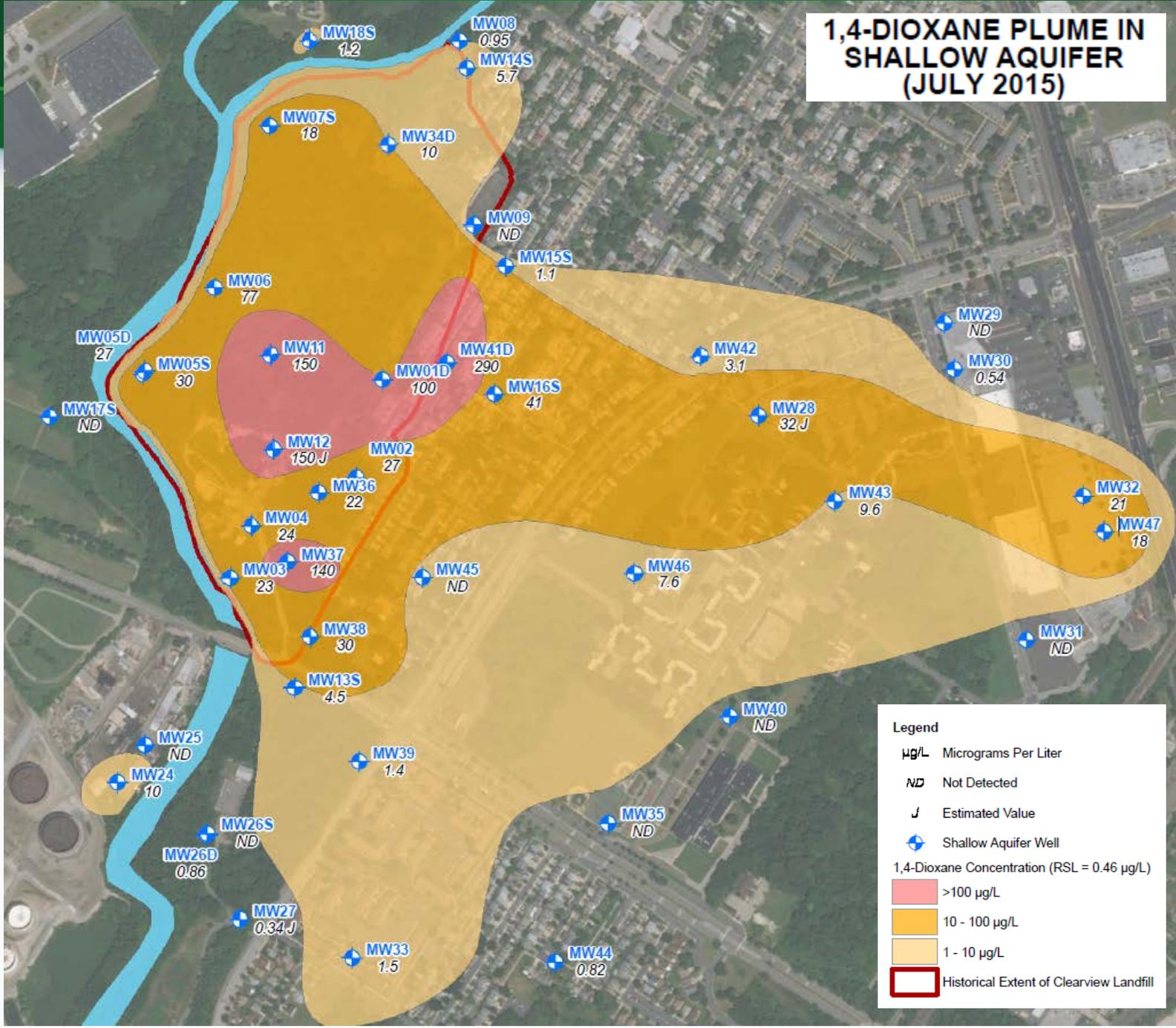




Clearview Landfill OU3 Remedial Investigation

- Being led by EPA in coordination w/ DEP. Looking at impacts to aquifers and discharge to creeks.
- Main contaminants of concern in groundwater (Human)
 - 1,4-dioxane
 - arsenic
 - 2,6-dinitrotoluene
 - Manganese
 - TCE & breakdown products
 - PFOA/PFOS
 - Cobalt
 - Iron
- Contaminants in porewater as well.
- Expect report to be draft final summer 2018.
- Feasibility study just underway.

1,4-DIOXANE PLUME IN SHALLOW AQUIFER (JULY 2015)



Legend

- µg/L Micrograms Per Liter
- ND Not Detected
- J Estimated Value
- ◆ Shallow Aquifer Well

1,4-Dioxane Concentration (RSL = 0.46 µg/L)

- >100 µg/L
- 10 - 100 µg/L
- 1 - 10 µg/L

▭ Historical Extent of Clearview Landfill



STREAM SEGMENTS WITH PORE WATER AND LEACHATE CONCERNS



- Contaminants of Potential Concern for Ecological Receptors
 - Several PAHs including benzo(a)pyrene
 - Several pesticides
 - Total PCBs
 - Barium, copper, iron, manganese
- Not clear if PAHs and PCBs are dissolved in porewater or adhered to sediment particles
- Unclear if copper is site related



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LDCA Website: <http://go.usa.gov/vQv3>