



# POMPTON LAKES WORKS SITE PUBLIC AVAILABILITY SESSION

**OCTOBER 20, 2016**





## AGENDA

- Pompton Lake Study Area Dredging/Removal
  - ✓ Overview
  - ✓ Status of Uplands Soil Removal/Island Area & Area A Dredging
  - ✓ Community Concerns
  - ✓ Oversight of Construction Activities
  - ✓ Schedule
- Hydraulic Surcharging Pilot Study
- On-site In-situ Chemical Oxidation Pilot Study
- On-site Corrective Measures Study
- Vapor Intrusion Status Update



## “DREDGING” PROJECT OVERVIEW

### ➤ Pompton Lake Study Area

- Acid Brook Delta (ABD) Sediments - Approx. 36 Acres
- Pompton Lake Sediments - Lakeside Ave. Bridge to Pompton Lake Dam
  - ✓ Area A - Approx. 0.5 Acres
  - ✓ Island Area - Approx. 2.5 Acres
  - ✓ Estimated Dredged Volume is 19,300 Cubic Yards (CY)
- ABD Upland Soil Areas
  - ✓ Removal From 16 Delineated Areas With Depths Ranging from 0.5 to 9 ft. Below Ground Surface
  - ✓ Estimated Removal Volume is 3,160 CY



# CORRECTIVE ACTION IMPLEMENTATION AREA

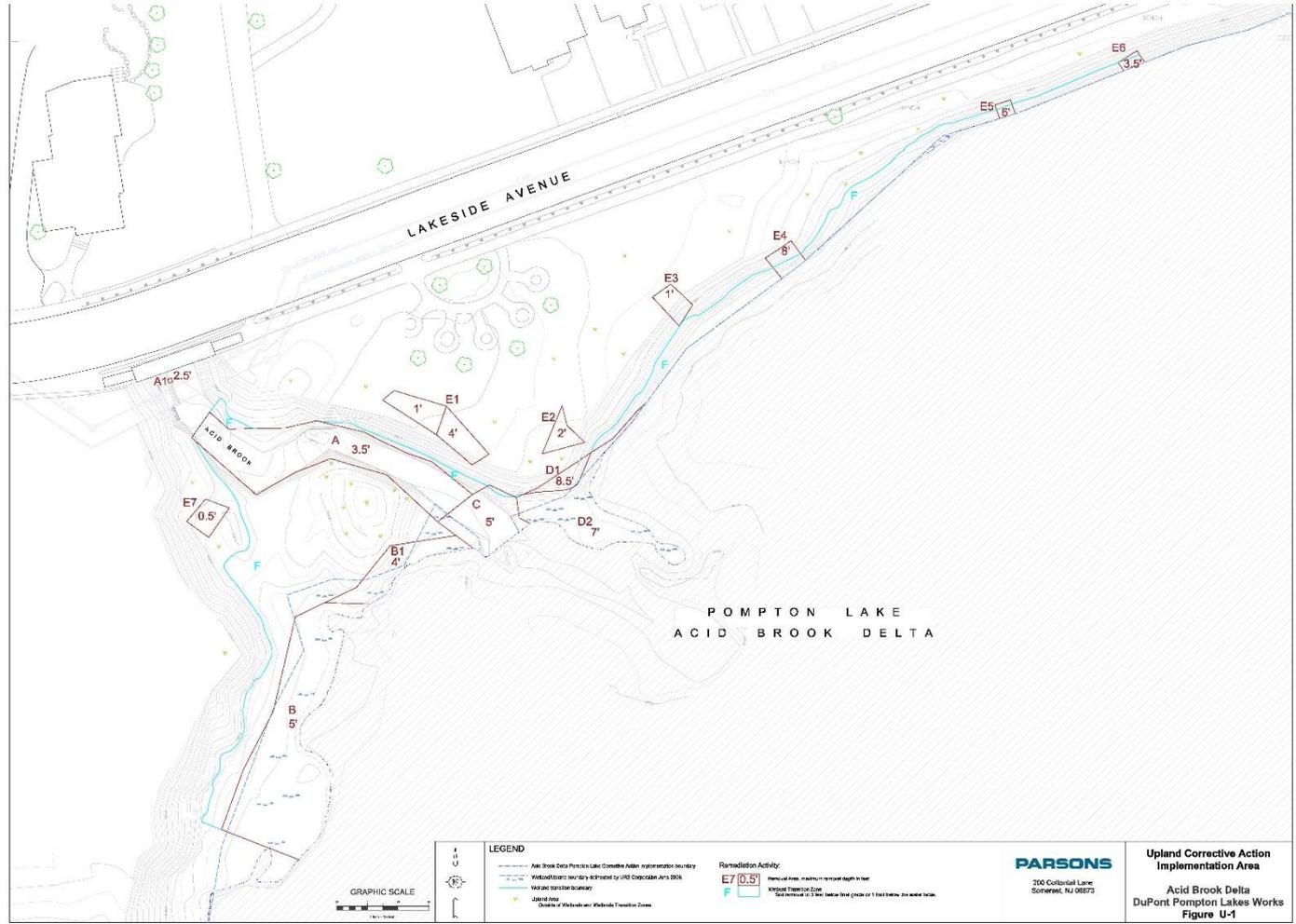


<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>APPROXIMATE TALL POLE POSITION FOR 2014</li> <li>40 FOOT TOWER/STATION COORDINATE</li> <li>10 FOOT CHORD/STATION COORDINATE</li> <li>CORRECTIVE ACTION IMPLEMENTATION AREA</li> <li>AREA OF TRANSFORMED POND</li> </ul>	<p><b>NOTES</b></p> <ol style="list-style-type: none"> <li>1. THE DATA MAP WAS PREPARED BY R.C. DESIGN, INC. AND IS BASED UPON Aerial, PHOTOGRAMMETRIC, AND GPS DATA. PHOTOGRAMMETRIC DATA WAS COLLECTED IN 2007 AND 2008. THE DATA WAS USED TO GENERATE THIS MAP. THE DATA WAS USED TO GENERATE THIS MAP. THE DATA WAS USED TO GENERATE THIS MAP.</li> <li>2. THIS CORRECTIVE ACTION IS BASED ON A REPORT BY R.C. DESIGN, INC. DATED IN 2011 BY THE NAME OF "CORRECTIVE ACTION PLAN FOR THE AGG BROOK DELTA AREA".</li> <li>3. FOR THE CHESLEN POLYCOB AND ASSOCIATED WASTE LOCATIONS.</li> </ol>	<p>DUPONT POMPTON LAKES WORKS POMPTON LAKES, NEW JERSEY</p> <p><b>CORRECTIVE ACTION IMPLEMENTATION AREAS</b></p>
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10/20/2016



# ABD UPLAND SOIL REMOVAL AREAS





## STATUS OF UPLANDS SOIL REMOVAL ISLAND AREA/AREA A DREDGING

- Uplands Soil/Near Shore Area Removal Complete Except Area A1
  - ✓ Approx. 6751 CY Impacted Soil/Sediment Removed
  - ✓ Area A1 - Constrained by Tree/Sanitary Sewer: 10-20 CY Remain
  
- Scow Access Channel/Island Area
  - ✓ Approx. 7910 CY Impacted Sediment Removed a/o October 17, 2016
  
- Area A
  - ✓ Initiate Dredging in November
  
- Ecolayer Placement
  - ✓ For the Island Area/Area A in December



## SOIL REMOVAL/SEDIMENT DREDGING IMPLEMENTATION CHALLENGES

- Uplands Soil Areas
  - ✓ Area A1 - Constrained by Tree/Sanitary Sewer: 10-20 CY Remain to be Excavated/Disposed Off-site
  
- Installation of Access Channel for Dredge Scows to Get From Uplands to Island Area/Area A
  
- Treatment of Water From Dredged Sediment
  - ✓ Initially Separation and Filtration
  - ✓ Modification of Treatment Process Required
  - ✓ Request to NJDEP - Use of Typical Water Treatment Additives to the Existing Physical Treatment Process



## REMAINING ACTIVITIES - 2016

- Complete Island Area Mechanical Dredging
- Initiate/Complete Area A Mechanical Dredging
- Ecolayer Placement in Island Area/Area A
- Winter Shutdown/Demobilization



## OVERSIGHT OF CONSTRUCTION ACTIVITIES

- EPA Performs Field Technical Oversight to Ensure Work Complies With Approved Work Plan
- United States Army Corps of Engineers Performing Weekly Field Technical Oversight
- EPA Participated in Weekly Project Status Meetings with Chemours/Sevenson
- EPA Continues Weekly Presence in the Community During Construction to Answer Questions/Respond to Community Concerns
- Passaic County Health Department/Pompton Lakes Environmental Officer Perform Periodic Site Visits to Observe Construction Activities



## COMMUNITY CONSIDERATIONS -TRAFFIC CONTROL

- Traffic Control Measures Successfully Implemented To Date
- Work Hours
  - ✓ M-F Set-Up 6AM-7AM/Work 7AM-6PM/Clean-Up 6PM-7PM
  - ✓ Saturday Hours - 1 For Mobilization Activities/2x For Equipment Maintenance
- Trucking Restrictions
  - ✓ School Opening/Closing - Construction-Related Traffic Will be Prohibited
  - ✓ Restricted Times - 7:45AM - 8:30AM and 2:30PM - 3:15PM
  - ✓ Flagmen Utilized to Control Entry/Exit to the Work Site
- Heavy Vehicle Dispatch
  - ✓ Random Check of Trucks to Assess Compliance With Following Route
  - ✓ Wayne Police at Lakeside Ave./Terhune Dr. Intersection Due to Heavy Traffic



## COMMUNITY CONSIDERATION -SITE SECURITY/NOISE/ODORS

### SITE SECURITY

- No Issues With Site Security

### ODORS

- No Issues With Odors
- Contaminants of Concern (i.e. Mercury/Lead) Not Expected to Cause Odors
- Nuisance Odors Associated With Natural Material/Decay Processes in Pompton Lake Not Detected Except At Processing Area

### NOISE

- No Issues With Noise
- Sheet Pile Installation/Back-up Alarms on Equipment Generate Short-term Noise But Below Thresholds For Further Action



## COMMUNITY CONSIDERATIONS - AIR MONITORING

### Dust Monitoring/Verification

- Continuous Real-Time Monitoring For Dust During Soil Excavation in Uplands and Sediment Handling/Processing
- 4 Fixed Locations Along Work Area Perimeter Including One Location Adjacent to Lakeside Middle School
- No Action Level Exceedances Associated With Work Area Activities
- Dust Control Measures Implemented
  - ✓ Water Misting During Tree Clearing
  - ✓ Water Mister Stationed on Fence Along Lakeside Avenue
  - ✓ Water Misting During Sediment Processing
  - ✓ Truck Spraying Water on Site Haul Roads
  - ✓ Street Sweeping Along Lakeside Avenue



## COMMUNITY CONSIDERATIONS - AIR MONITORING

### Mercury Vapor Monitoring/Verification

- Real-Time Monitoring For Mercury Vapor at Downwind Location With a Portable Mercury Vapor Analyzer Completed During Uplands Soil Excavation
- Voluntary Monitoring For Mercury Vapor With Portable Mercury Vapor Analyzer Also Being Performed in Vicinity of Island Area
- No Exceedances of Action Levels



## COMMUNITY ENGAGEMENT ACTIVITIES

- Presence On-site to Respond to Questions/Concerns
- On-going EPA Availability at Municipal Building on Thursdays to Answer Questions Regarding Pompton Lake Study Area Clean-up
- Access to Website to Observe Monitoring Data During Construction
- 21 Weekly Community Updates Sent by EPA Via Email Summarizing Work Activities



## HYDRAULIC SURCHARGING PILOT STUDY

- Chemours Submitted Final Design and Permit-by-Rule (PBR) Application to EPA/NJDEP
- EPA/NJDEP Completing Review and EPA Will Consolidate Comments
- Chemours Will Address Comments and Resubmit Design
- When PBR Package Approved by NJDEP, Public Notice Issued and Opportunity for Public Hearing, if Requested is Available



## IN-SITU CHEMICAL OXIDATION (ISCO) PILOT STUDY

- Pilot Study Evaluating Another Technology to Address Groundwater
- ISCO Work Plan Approved/Permit-by-Rule Issued September 2016
- Implementation of Pilot Study in Two Phases
  - ✓ Design Testing to Optimize Operational Parameters
  - ✓ Submit Final Pilot Study Work Plan With Final Design
  - ✓ Full-Scale Pilot Study Implementation
- Design Testing Fieldwork Commenced End of September to Optimize Operational Parameters



## CORRECTIVE MEASURES STUDY (CMS)

- Initial EPA/NJDEP CMS Comments Transmitted to Chemours
- Additional EPA/NJDEP CMS Comments to be Transmitted to Chemours When EPA completes Review of the Site Remediation Standards Proposed by Chemours
- Chemours to Revise CMS Based on NJDEP/EPA Comments
- Once Reviewed by EPA/NJDEP, CMS Will be Presented to Community Via Public Information Session
- Draft Permit Modification Will be Prepared With a Public Hearing/Public Comment



## VAPOR INTRUSION (VI) UPDATE

- Number of Vapor Mitigation Systems Installed - 336
- Termination Sampling Completed - 2
- Plan to Reach out to Board of Realtors Again to Provide Info Session Regarding the VI Program
- EPA, DEP, and/or Chemours Continue to be Available to Answer Questions About the VI Program and Communication Package Sent in July 2015



## CLOSING

- Questions??
- Contacts:
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