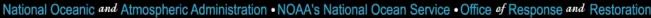
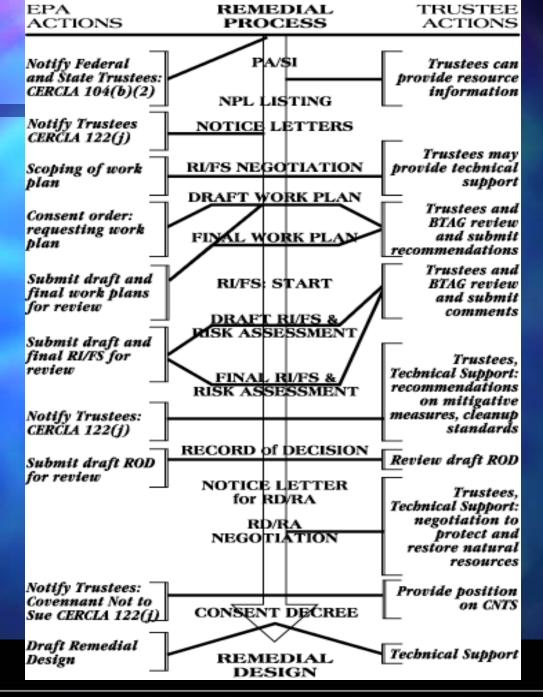
Integrating Sediment Remediation and Tidal Wetland Restoration

Mid Atlantic Joint Assessment Team Meeting April 17-18, 2008 John Heinz NWR, Philadelphia, PA









NOAA

noaa



Early integration of assessment into remedial process Cost-effective data gathering Advice on NRD liability associated with various remedial options Potential for integration of restoration and remediation on-site Economies of scale/cost-effectiveness





Challenges

Perception of slowing down the remedial process – "The ROD has not even been developed and this will take forever!"

- Individual and Agency Responsibilities "That's not my job!"
- Perception of added complexity "This is too confusing – the clean up is hard enough!"





Challenges continued:

Perception of Process: "I'll deal with that when the time comes."

Willingness to address NRDA: "I'm not sure if there will be an NRDA here and I'm hoping there won't."





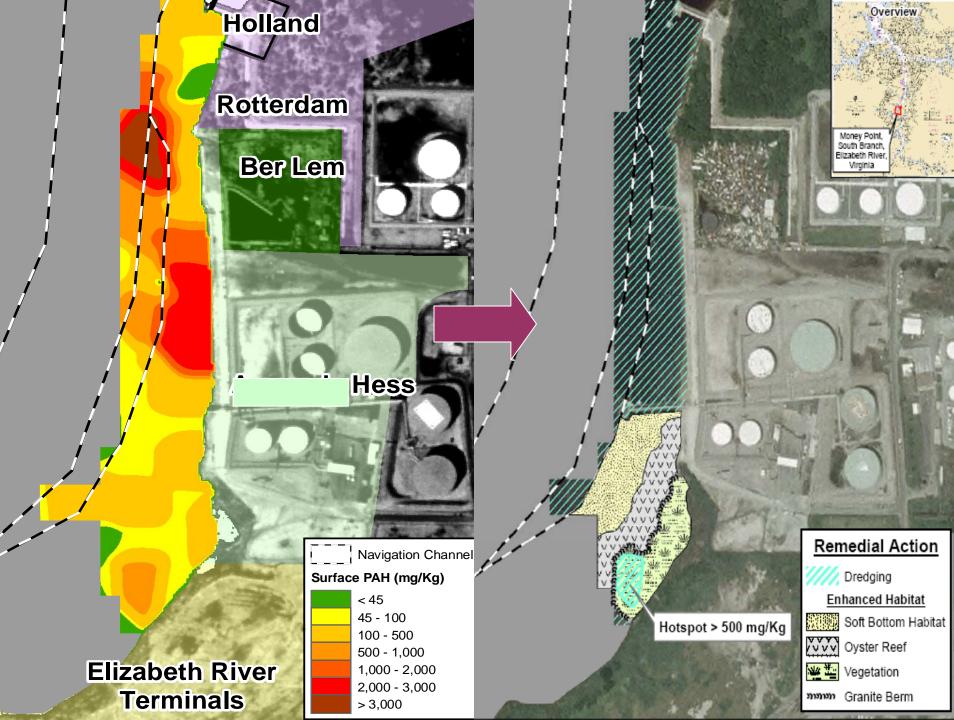
General Project Examples

Shoreline remediation, stabilization, and fringe tidal wetland restoration

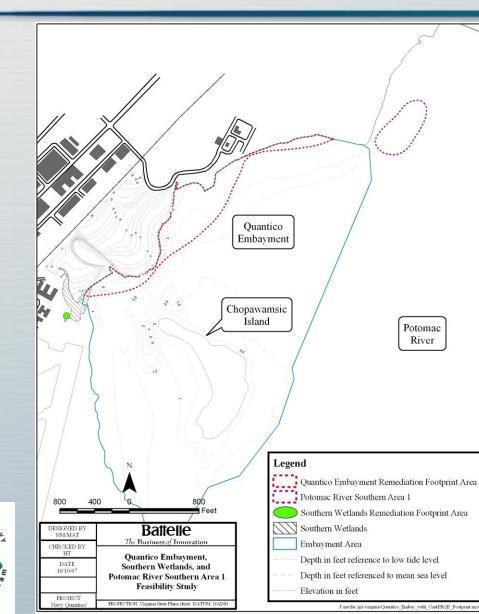
Sediment excavation, channel restoration, invasive species management







Remediation Areas and Proposed Actions



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Site 96 -Excavate/dredge 0.1 acre area (~160 CY); return to grade

Site 99 – 15.2 acre Habitat Enhancement Cap (HEC); excavate/dredge in STP storm culvert area (~140 CY); construct wetlands

Site 101 – Monitored Natural Recovery (MNR) of 5 acres in Potomac River

Battelle

The Business of Innovation

Issues for Discussion:

Residual contaminant levels and ability to eliminate or reduce exposure

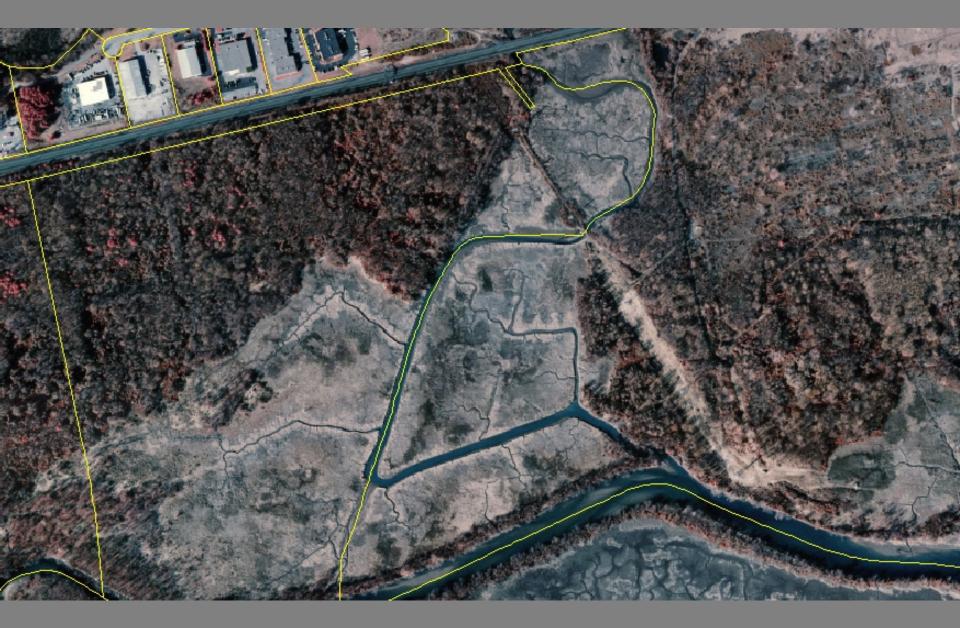
Habitat Conversions

Design and Permitting

Monitoring/Maintenance







Items for Discussion

Enhancement versus creation What are the ecological services being restored and how do you scale them? Residual contamination and potential sources Excavation and backfilling requirements Expertise and Technical Guidelines Monitoring/Maintenance



