

Construction Management Challenges of Combined Sediment Remedy

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Background/Objectives. Combining remedies are becoming more common for addressing multiple environments within contiguous areas of contamination effectively and efficiently. While combined remediation elements can successfully be designed and permitted, the coordination of multiple design and construction elements can be challenging. Comprehensive coordination and continual communication is essential to obtaining informed consent from all stakeholders. This presentation will highlight lessons learned from a construction project involving two seasons of sediment removal, residuals management, habitat restoration and one of the largest applications of in situ treatment to date.

Approach/Activities. The site is located in the mid-Atlantic region and includes an upland stream, tidal and non-tidal wetlands, a large cove and a tidal creek. Sediment is impacted with PCBs, PAHs and metals. Remediation elements included sediment removal by dredging and excavation, residuals management, in situ treatment, source controls through bulkhead rehabilitation, storm drains and outfalls reconstruction, and habitat restoration and enhancement. Design, permitting and construction of the right balance of remediation elements proved to be challenging at every stage of the project.

Results/Lessons Learned. A multi-component remedy requires extensive communication and coordination. Design elements for the varied environments and construction sequence must be well planned. Permitting requirements of different remedy elements extends to multiple regulated environments. Procurement requires selection of contractors with many different areas of expertise. This presentation will document the technical approach to combine remedy elements, the coordinated communication effort during the permitting and construction stages of the project, and construction sequences and challenges to successfully complete a complicated combined remediation project.