

Remedial Design Update South River Phase 1A Banks

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V ANCHOR QEA

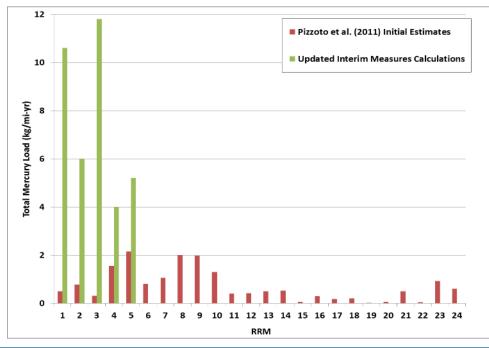


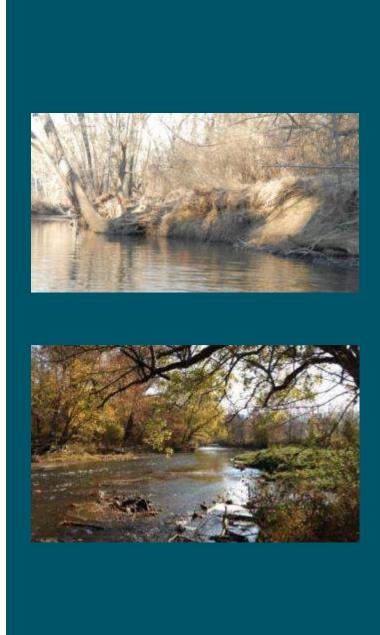




Three Overarching South River Remedy Objectives

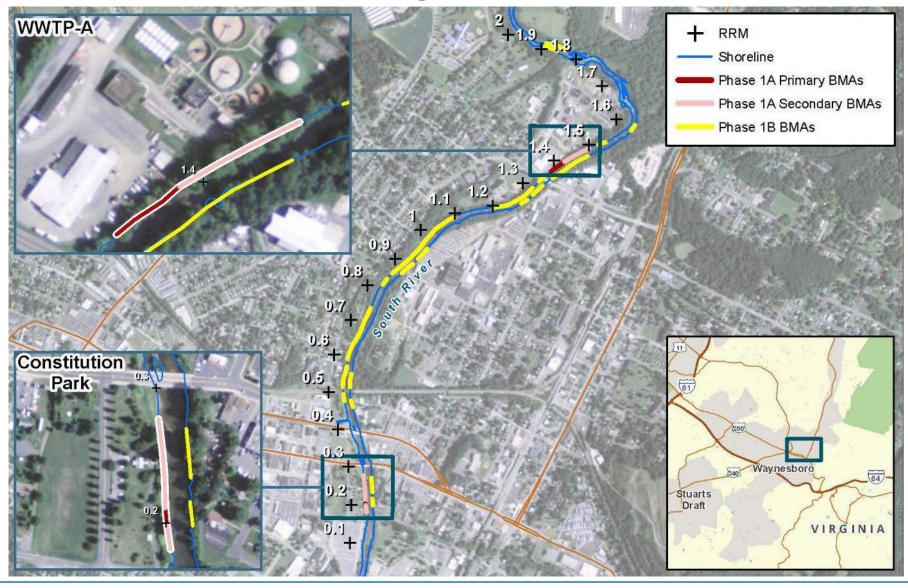
- 1. Reduce mercury loading
- 2. Maintain/improve habitat
- 3. Minimize disruption







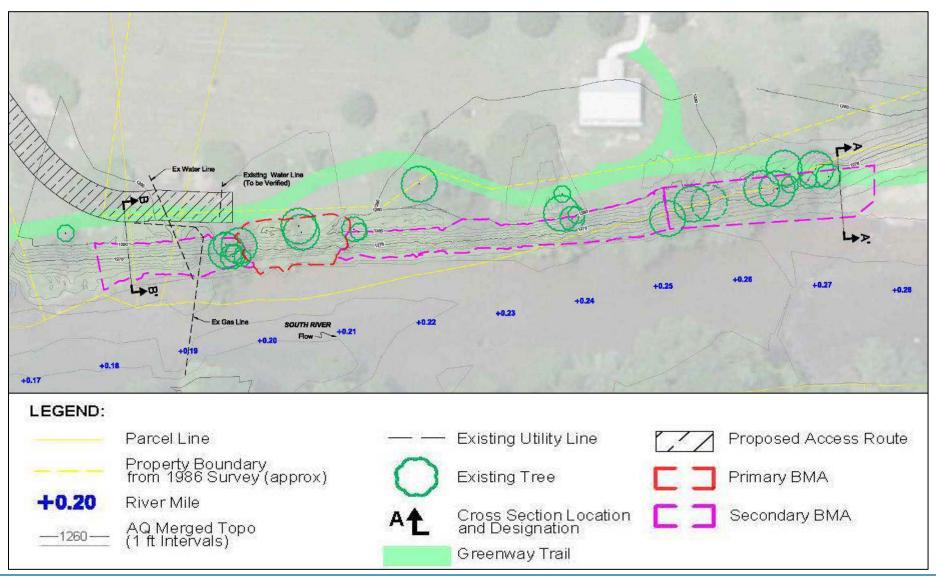
RRM 0 to 2 Bank Management Areas (BMAs)





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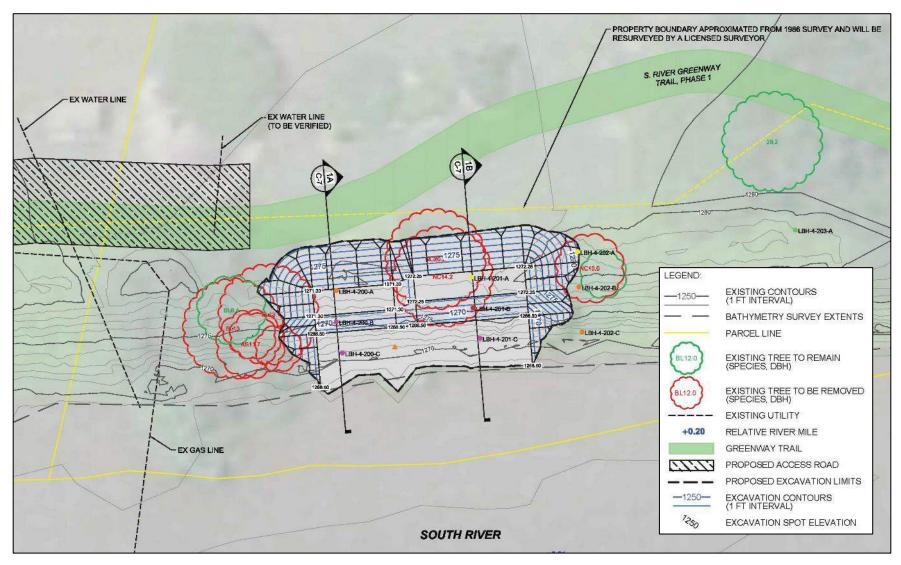
Constitution Park BMA Layout



south river

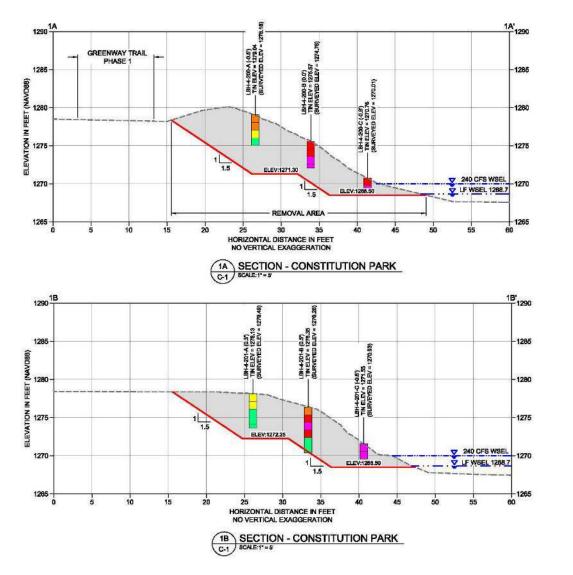
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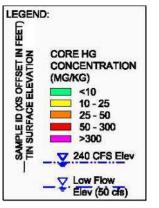
Constitution Park Primary BMA Design





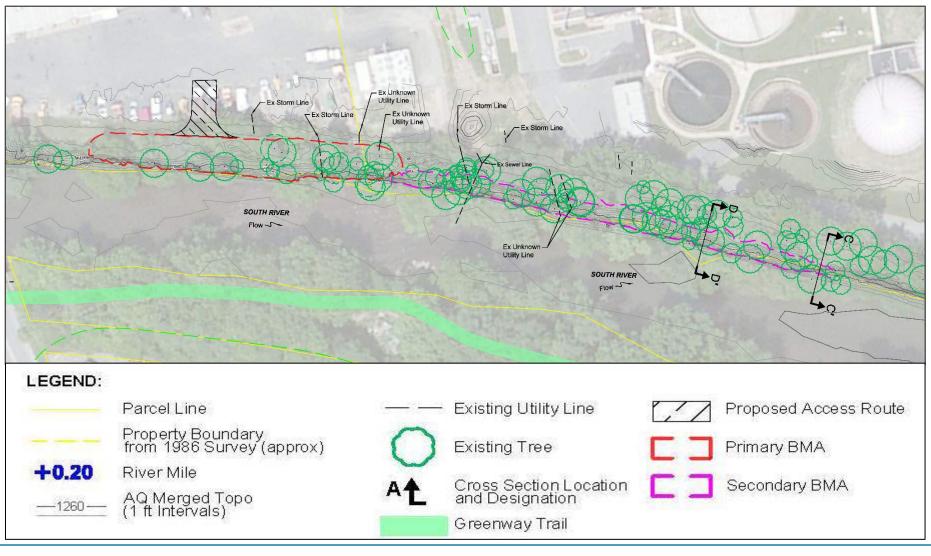
Constitution Park Primary BMA Removal Prism







Wastewater Treatment Plant (WWTP) BMA Layout



south river

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Secondary BMA Objectives

- Multiple design criteria
 - Reduce mercury loading
 - Protect existing large trees
 - Maintain/enhance habitat
 - Minimize excavation
 - Use proven/effective methods
 - Address stakeholder concerns
- Optimize and balance criteria
- Location-specific designs
 - Slopes determine design elements
 - Existing habitat quality varies

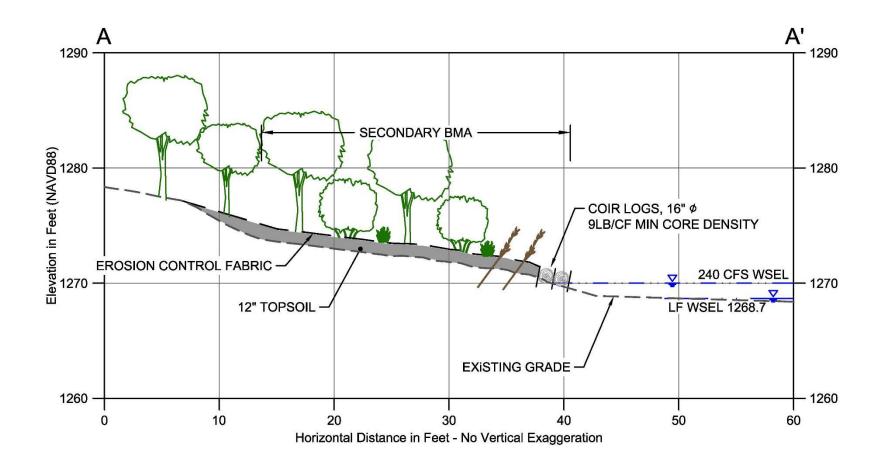






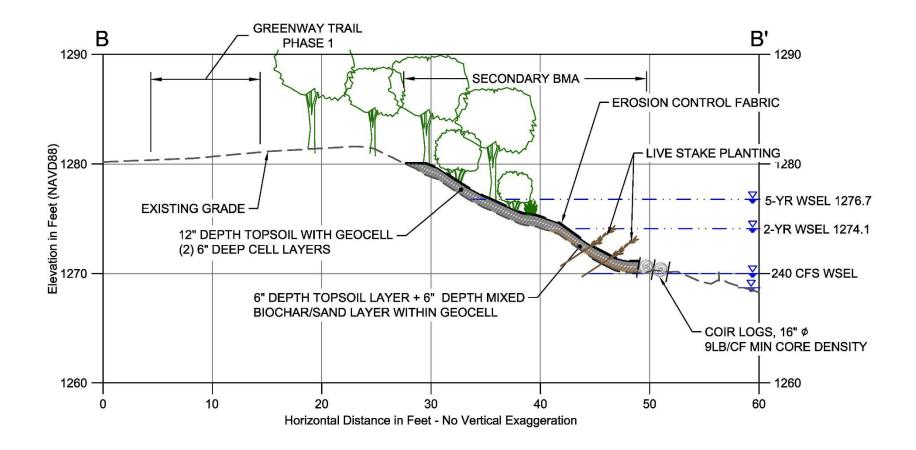


Typical Secondary BMA Design – Gradual Slopes



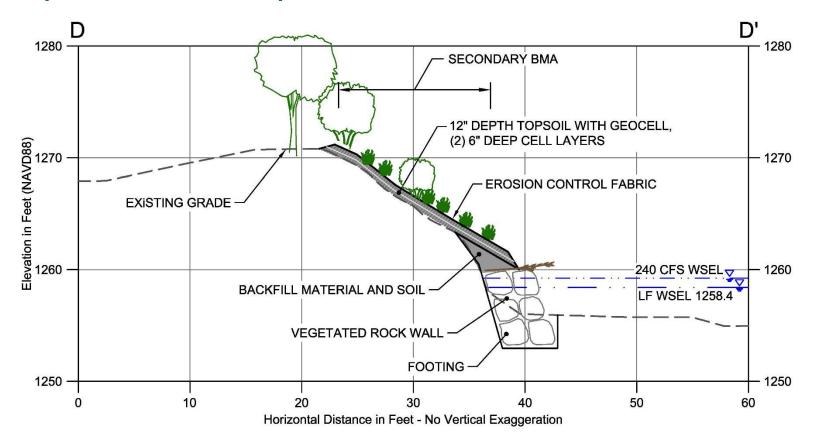


Typical Secondary BMA Design – Moderate Slopes



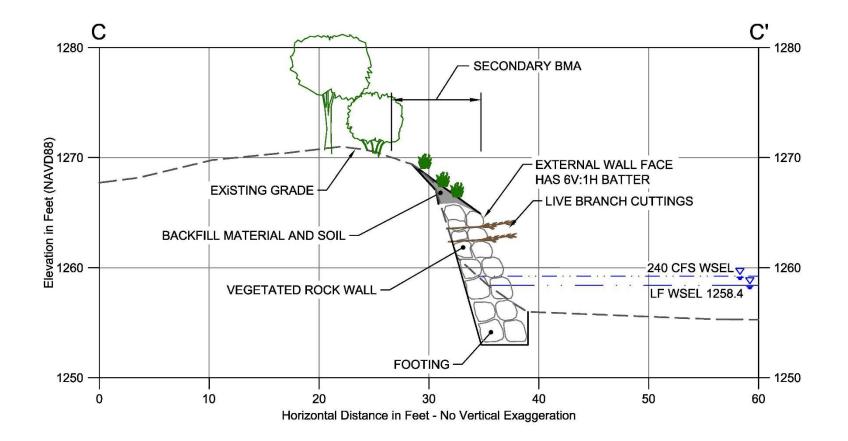


Typical Secondary BMA Design – Moderate Slopes with Steep Toes





Typical Secondary BMA Design – Steep Slopes





Schedule and Next Steps

- January/February Resolution of City and VADEQ comments on draft Phase 1A preliminary design report
- Spring 2016 Phase 1A final design, access agreements, and permits
- Summer 2016 begin Phase 1A construction







