



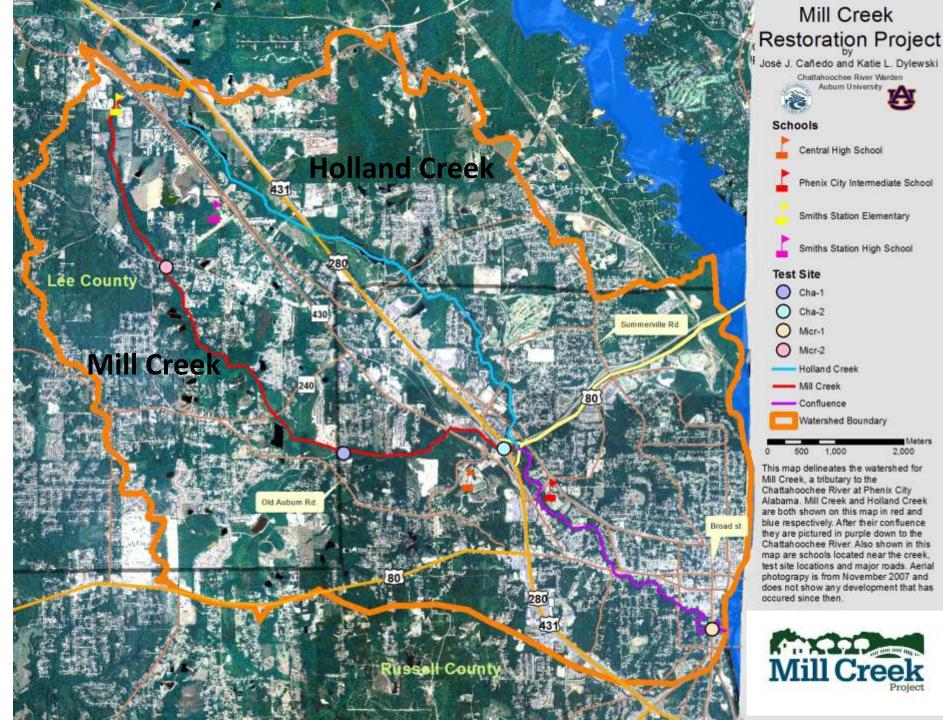
Flashy & Trashy Tale of an Urban Creek

Alex James, Katie Dylewski and Dr. Eve Brantley September 11, 2015

The Mill Creek Project is funded by a Section 319 grant from the Alabama Department of Environmental Management and the U.S. Environmental Protection Agency Region 4.







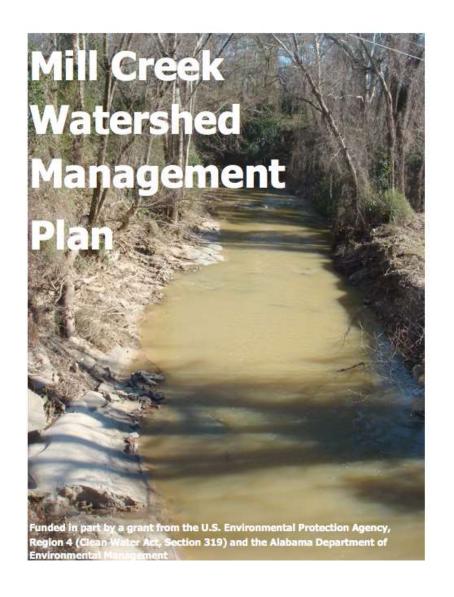
Mill Creek

- 303(d) list since 2006
- Organic enrichment, sediment
- Low DO
- High *E. coli* counts
- TMDL draft 2015
- Section 319 grant
- NFWF grant





- Watershed
 Management Plan
- BMPs
- 2 stream restoration sites
- 2 slope stabilization sites
- 2 bioretention basins on school campuses



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Mill Creek Watershed Clean Up!



What: Trash Clean Up

When: Saturday, March 3, 8 am - 12 pm

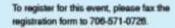
Where: Phenix City Amphitheatre

508 Dillingham St., Phenix City

In cooperation with the Mill Creek.
Watershed Plan, we will be conducting quarterly trash clean ups. Mill Creek is an impaired stream that flows through Phenix City and into the Chattahoochee Fliver. With whitewater rafting on the horizon, we see the need to target litter throughout the watershed before it enters the Chattahoochee Fliver.

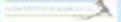
As environmental stewards, we hope to raise awareness by getting out on a Saturday and picking up trash at a targeted illegal dump site in Phenix City.

The site is located just a few minutes from the amphitheater, but parking is limited at the site and we will need to carpool.



For more information about the watershed, please visit www.aces.edu/millcreek.

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Before



After







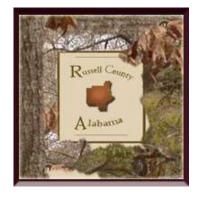
































Project end date: May 2016

- 2 additional stream restoration projects
- Implementation of 4 BMPs

Lakewood Elementary

- Gutters installed
- Cisterns (two, 500 gal ea.)
- Collected water to be used in greenhouse
- Rain garden to collect overflow



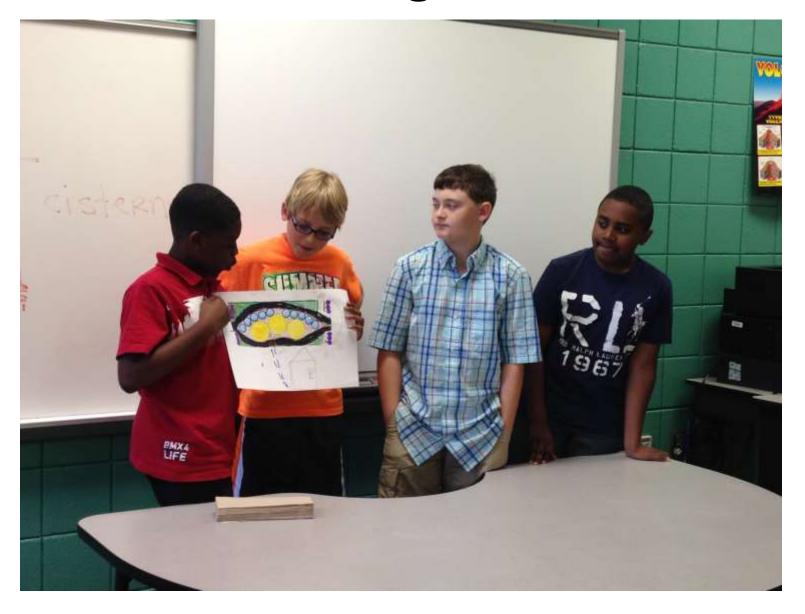








Lakewooders Design a Rain Garden







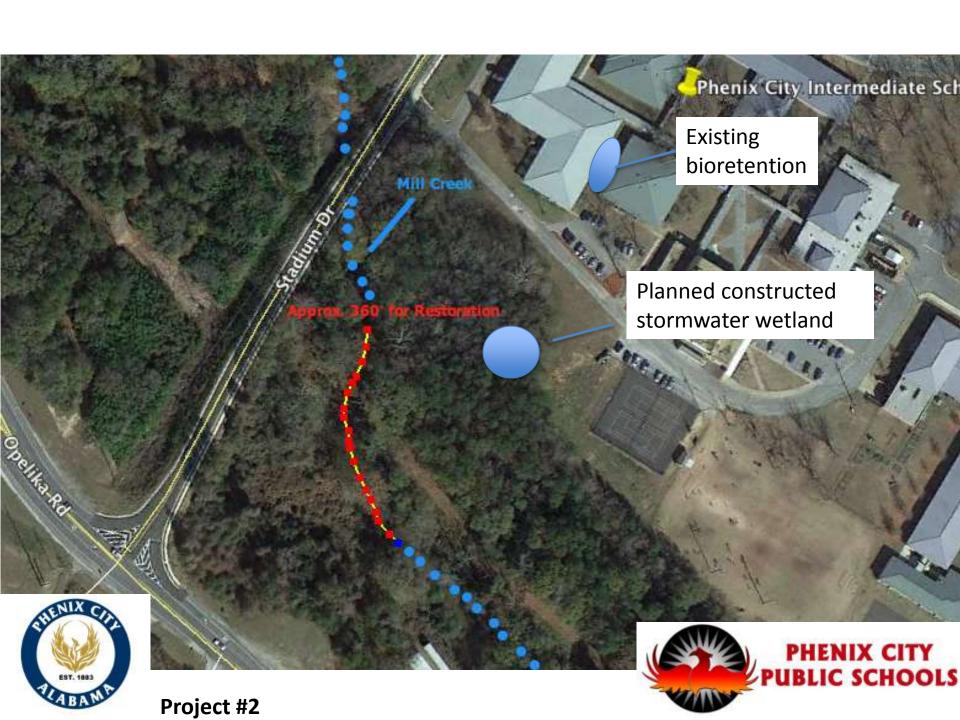


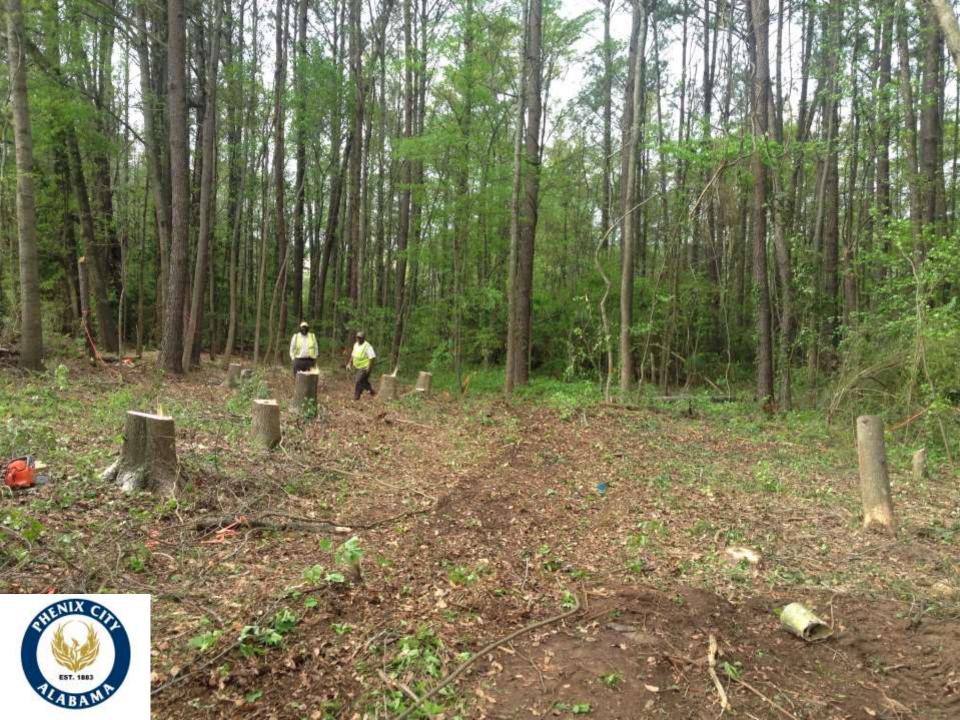
























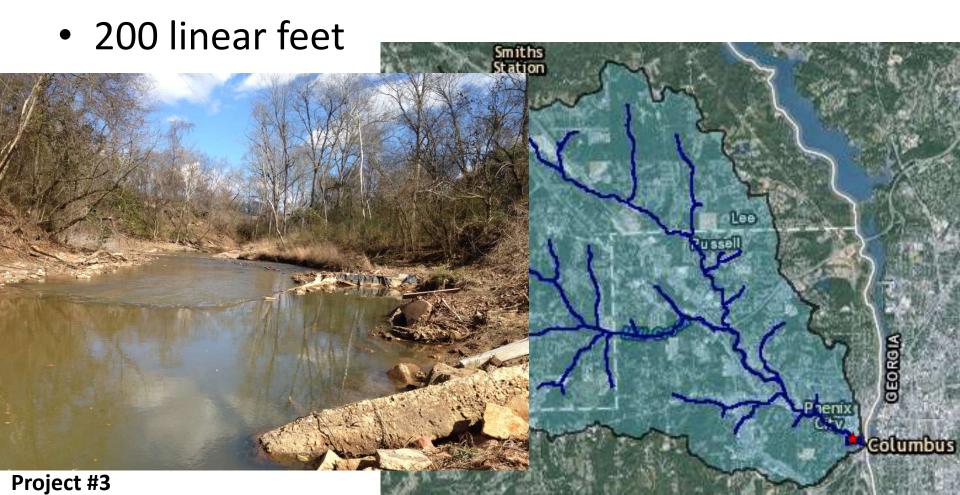






Stream Enhancement – Broad St. Take Two

On main stem



What Happened?

- Channel eroded and was over widened
- One vane was not sufficient to turn flow around bend
- Replaced one log vane with two log vanes
- "Boulder wall" armoring on bank





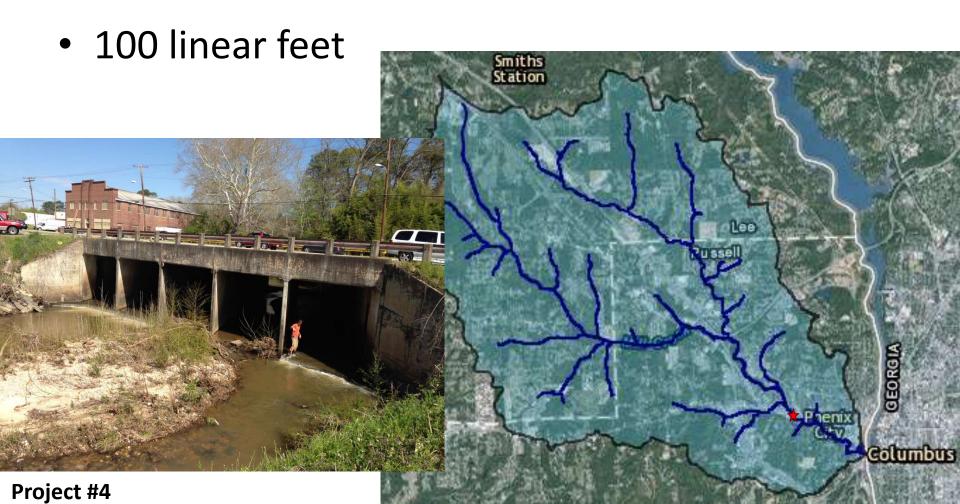






Stream Enhancement – 14th St.

On main stem

















PCIS - Stream Restoration A SOUTHERN COMPANY



Below confluence on main stem



- 360 linear feet
- Have permit
- PC Schools to bid out this fall





Educator's Day on the River







- 70 total teachers from Phenix City, Muscogee
 County Schools, and Russell County
- Project WET and Exploring Our Living Streams
- 2 day training then whitewater and zipline!















Summer School Opportunity

- Dr. Baldwin with Gear Up grant
- Summer school science, 6th grade
- MacroMania, watersheds, rain gardens, bioretention, water testing...

 "If we had done some of this during the school year, we wouldn't have failed science"







Community Involvement Planting Opportunities

- Broad St., Crawford Rd./14th St. and PCIS streams
- Live stakes, bare roots, native grasses









Comments and Questions

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Social Media

Alabama.Extension.Water



ACESwater

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