

Bobs Creek Stream Restoration Final Report

Public Meeting

A public meeting was held on February 13, 2020 at Bestway Pizza in Pleasantville, PA. Ten people were in attendance from the Pavia Sportsman Club/Bobs Creek Stream Guardians, and one person was in attendance from DCNR State Parks. There was also a representative from the Coldwater Heritage Partnership.

Project summary

In July 2020, WPC and partners completed a stream restoration project along Bobs Creek in Blue Knob State Park, Bedford County. We restored 360 feet of stream by installing 10 in-stream structures. This project was a collaboration with the Bobs Creek Stream Guardians, Pennsylvania Fish and Boat Commission, and the Department of Conservation and Natural Resources.

Project outcomes

The original objectives of the project were to restore 320 feet of stream along Bobs Creek and to reduce sedimentation by 4.6 tons/year. We exceeded these goals by restoring 360 feet of stream and reducing sediment by 5.22 tons/years. This project is considered complete.

Project sustainability/next steps

These projects are built to last at least 30 years. They require little to no maintenance when installed correctly. Occasionally, if an extremely large storm event comes through (i.e. remnants of hurricanes), some rock may wash away. Members of the Bobs Creek Stream Guardians will monitor the site. If they notice any damage to the structures, they will report that to us, and we will work with them to repair the structures.

We are continually working in the Bobs Creek watershed to repair eroding streambanks and restore the stream to a more natural channel. During our construction work at this site, we noticed a culvert about one-mile upstream that is causing an aquatic organism passage barrier. We have plans to look at this more closely and speak with the township and conservation district about a replacement project.

Partners

Partners included Pennsylvania Fish and Boat Commission (PFBC), Bobs Creek Stream Guardians (BCSG), Pennsylvania Department of Natural Conservation and Natural Resources (DCNR), and Bedford County Conservation District (BCCD). PFBC assisted with design and construction oversight (2 people). BCSG provided labor and helped with material ordering (2 people). DCNR provided labor (4 people), equipment (skid steer, mini-excavator and backhoe), and materials (3 rootwads) for the project. BCCD reviewed and approved the erosion and sediment control plan.

Accomplishments and outputs

We stabilized 360 feet of eroding streambank by installing 10 instream structures. Structures included one 7-section modified muddill crib, seven rootwads, one 3-section modified muddill crib with alternating rootwads, and one 2-section muddill crib. We reduced sediment loads by 5.22 tons/year (FieldDoc Application.) The streambank has been stabilized and fish have been observed around the structures.



Before photo of eroding streambank along Bobs Creek in Blue Knob State Park.



After photo of modified mudsill crib along Bobs Creek in Blue Knob State Park.



Before picture of eroding streambank along Bobs Creek in Blue Knob State Park.



After picture of modified mudsill crib along Bobs Creek in Blue Knob State Park.