

Final Report for the Simeling Run Streambank Stabilization Project BRC-SR-27-8



Submitted by

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PUBLIC MEETING

A public meeting to explain the project was held June 9th at the Boggs Township Park so attendees could see the project in person. Representatives from the following organizations were present:

- Clearfield County Conservation District
- PA Council of Trout Unlimited
- Moshannon Creek Watershed Association
- Boggs Township Supervisors
- Philipsburg Journal

PHOTOS OF THE PROJECT SITE

These are just two of many pictures taken during construction. More photos will be provided digitally.



Most downstream structure in need of repair 4/20/2022



Most downstream structure post repair 6/9/2022

PROJECT SUMMARY

The Clearfield County Conservation District, Boggs Township Supervisors, and PA Fish and Boat Commission utilized Coldwater Heritage Partnership funding to repair 3 failing brookie jacks in 150 linear feet of Simeling Run. The brookie jacks were replaced with 3 log framed cross vanes the week of May 31- June 3, 2022. The project is situated in the Boggs Township Park at the intersection of Old Erie Pike and Church Hill Road. The structures that were replaced were installed at an unknown time decades prior, it's believed they were intended to create pool habitat for fishing. Though constructed out of thick timbers, lots of nails, and rebar, the structures began to cause erosion and became aquatic organism barriers. The repaired structures now stabilize the bank and have created pool habitat without being barriers to fish passage.

PROJECT OUTCOMES

Objectives

Our objectives for this project were:

- Secure GP1 Permit
- Order materials and rent equipment
- Install 3 log framed cross vanes
- Stabilize 300' of streambank (both sides of the stream total)

As outlined in the project summary, we have achieved all objectives and the project is considered complete. The only activity that will be ongoing is continued monitoring of the site after high water events to ensure complete stabilization is achieved and the structures stay in place.

PROJECT SUSTAINABILITY

Now that the structures are in place, nothing more needs done to this site except ongoing monitoring and potentially repairs if somehow structures were to be damaged by high water events. Monitoring will entail making sure vegetation is growing on the banks and checking for erosion around the structures.

The biggest threats to sustaining this project are damage from high water events. The structures are designed and placed in such a way to minimize this damage but it's impossible to guarantee that no damage will ever occur. The only way to combat this potential problem in addition to the design and construction methods will be ongoing monitoring and immediate repair should anything happen.

NEXT PHASE OR FUTURE PROJECTS

Because all project objectives have been met, we do not believe another phase of this project is currently necessary at this specific location. The Township Supervisors and local community members are looking to make additional improvements to the park including planting trees and shrubs in the riparian zone and hopefully suppress existing Japanese knotweed growth along the stream. Additionally, the Supervisors are also aware of additional eroding areas in Simeling and Laurel Runs that could benefit from stabilization. These additional efforts would increase the benefits achieved by this project and improved the watershed overall.

PARTNERS

Clearfield County Conservation District Watershed Specialist – project oversight and coordination

Boggs Township – secured equipment and materials; provided equipment operation and labor

PA Fish and Boat Commission – project design; construction oversight and labor

ACCOMPLISHMENTS & OUTPUTS FOR RIPARIAN BUFFER PROJECT

Linear feet improved (both streambanks): 300 feet total

Number of structures placed:

- 3 log framed cross vanes

Simeling Run Habitat Structure Repair Pictures BRC-SR-27-8

Original structure #3 before repair—6/1/22



Simeling Run Habitat Structure Repair Pictures BRC-SR-27-8

Removing structure 3—6/1/22



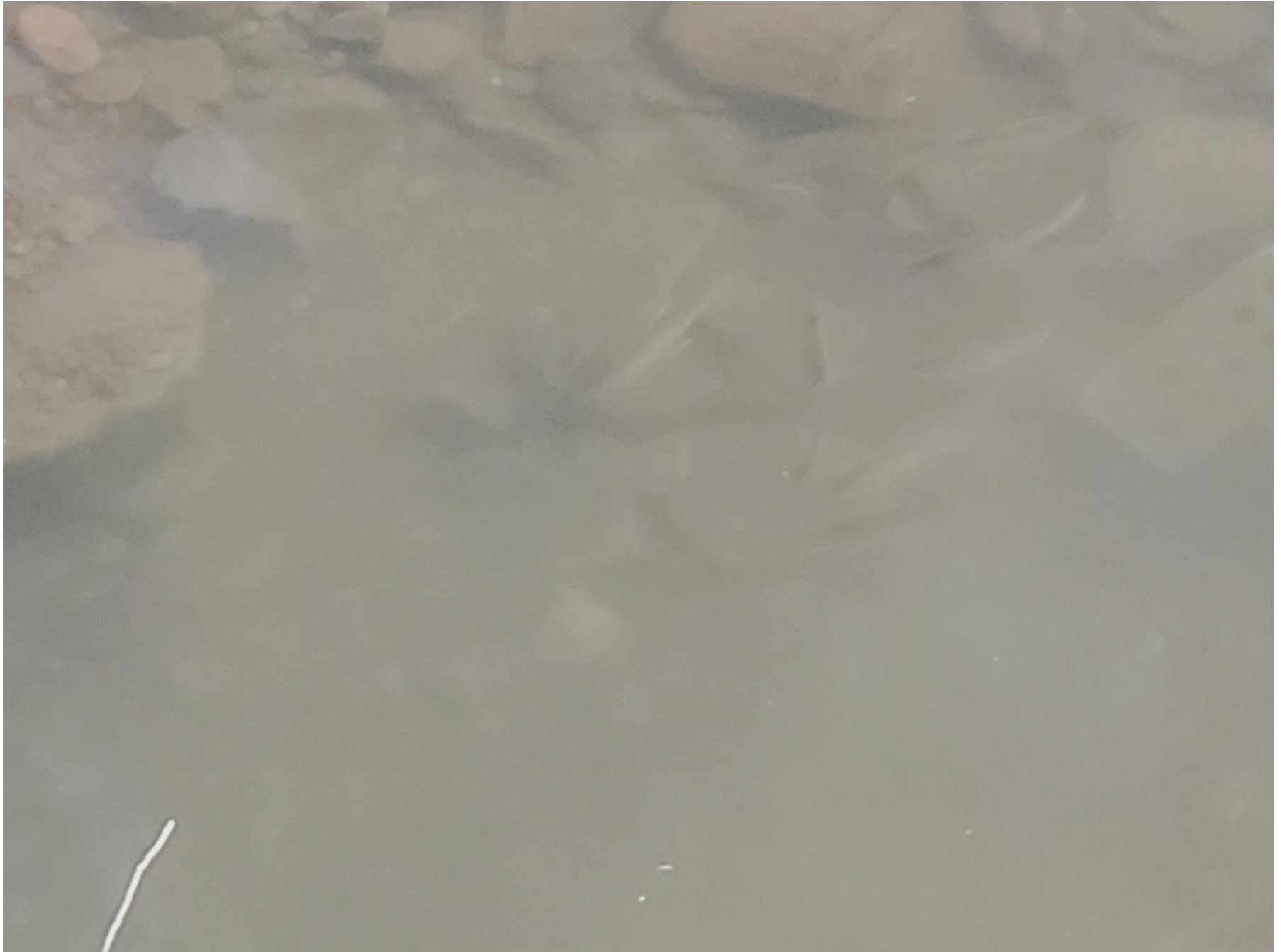
Simeling Run Habitat Structure Repair Pictures BRC-SR-27-8

Removing structure 3—6/1/22



Simeling Run Habitat Structure Repair Pictures BRC-SR-27-8

Picture taken with phone through polarized glasses to show brook trout waiting for construction of structure 3 to be completed - 6/1/22



Simeling Run Habitat Structure Repair Pictures BRC-SR-27-8

Structure 3 one week after construction and final stabilization—6/9/22



Simeling Run Habitat Structure Repair Pictures BRC-SR-27-8

Structure 1 just after construction and right before final stabilization—6/1/22



Simeling Run Habitat Structure Repair Pictures BRC-SR-27-8

Structure 2 just after construction and final stabilization—6/1/22

