

Paddy Run Stream Restoration

July 2022



Background

◆ Project Goals

- ◆ Restore 1,300 ft of Paddy Run
- ◆ Launch a partnership with Western PA Conservancy (WPC) and PA Fish and Boat Commission (PFBC)

◆ Project Funding

- ◆ PA Environmental Stewardship Fund via CAP Program
- ◆ \$0.00 cost to the landowners (100% cost share)

*with the exception of a \$50.00 permit fee paid for by GCASD

◆ Stakeholders involved:

- ◆ Local Church
- ◆ Greencastle-Antrim School District (GCASD) & Tayamentasachta Environmental Center
- ◆ Two private landowners



Private Landowners

Local Church

Greencastle-Antrim School District
property – leased to local farmer

Paddy Run Headwaters:
Natural Spring at
Tayamentasachta

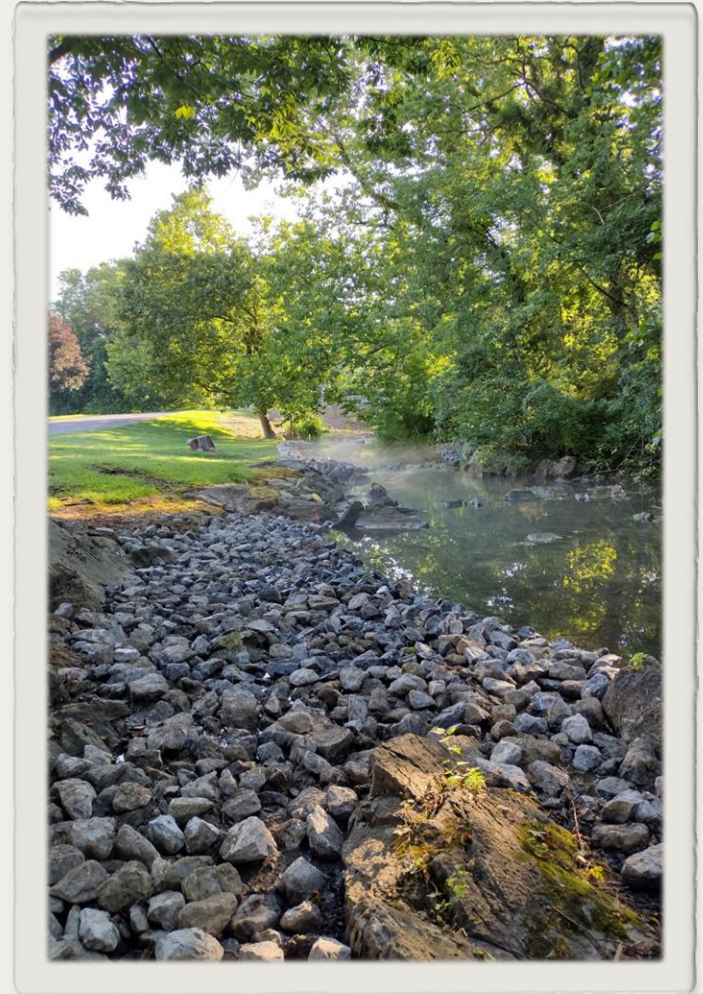


Timeline



Benefits of Fish Habitat & Streambank Stabilization Structures

- ◆ Prevent the loss of valuable land
- ◆ Create fish habitat and cover for reproduction, feeding, and protection from prey
- ◆ Protect the stream banks from erosion
- ◆ Narrow the stream channel and increase flow velocity and depth
- ◆ Increase the amount of oxygen in the stream
- ◆ Rebuild and restore the natural stream bank and stream channel



Structures Installed

Stone Deflectors



Log Deflectors



Structures Installed

J- Hook Vane



Modified Mudsill



Before and After Photos

February 2022 versus August 2022

The Church Property



The Church Property



The Church Property



The Church Property



The Church Property



The Church Property



The Church Property



The Church Property



Landowner #1



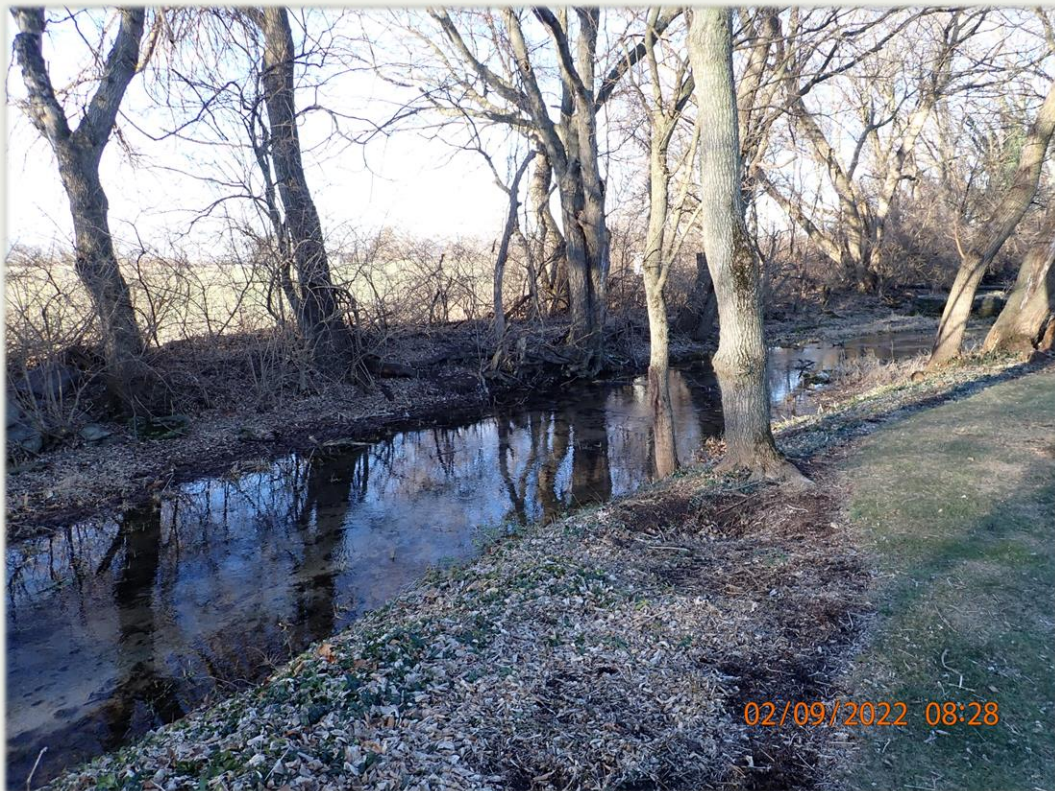
Landowner #1



Landowner #1



Landowner #1



Landowner #2



Summary & Results

◆ Project Outcomes

- ◆ 1,300 feet of stream restored with over 30 structures installed
- ◆ Visible changes within 3 months of completion
- ◆ Successful launch of a brand new partnership
- ◆ Happy landowners

◆ Project Cost

- ◆ Approximately \$35,000.00
- ◆ Estimated Cost-Effectiveness:
 - ◆ \$0.27/lbs of Sediment removed

Thank You!

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