

**Biblical Life Institute Stream Restoration**  
**SW160140**  
**Armstrong Conservation District**

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**PROJECT DESCRIPTION:** Severe erosion on an UNT to Pine Run was contributing to sediment pollution in the Buffalo Creek Watershed. This stream is designated as an HQ-TSF, but the stream is impaired from siltation and currently not meeting this designation. The bank was stabilized using concrete bin blocks, rip rap, turf reinforcement matting, and live stakes. Five J-hooks were installed to direct flow away from the bank while creating fish habitat. The project timeframe was 01/01/2018 to 09/30/2021. Additional phases are planned to stabilize the remaining sections of the bank along the pond.

**PROJECT GOALS:** The goal of the project was to stabilize a section of an UNT to Pine Run along a large pond in order to reduce sediment pollution in the Buffalo Creek Watershed.

**PROJECT RESULTS:** This project stabilized 200ft along the most severely eroded areas of the streambank along the pond. About 127 tons of sediment per year will be prevented from entering the Buffalo Creek Watershed.

**PICTURES:**



Before Construction



After Construction

**PROJECT COSTS:** Growing Greener amount spent: \$51,216.64; Total Spent: \$61,089.52

**LESSONS LEARNED:** The value of good partnerships proved significant to the completion of the project. Timeframe setbacks, increased erosion than expected, and inflation required PACD to resurvey and redesign the project. With their help along with the landowner's patience and willingness to have the project completed, we were able to stabilize the most severe portions of the bank.

**PARTNERS:** The landowner Biblical Life Institute also provided fees for permitting; PACD was the Engineer; Sure Shot Excavating LLC was the contractor

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