

**Installation of Horse Operation BMPs along Two Different Streams  
Environmental Stewardship and Protection (Growing Greener) Grant  
Sponsor: Franklin County Conservation District**

**PROJECT DESCRIPTION** Three landowners were provided cost-share assistance for the installation of Best Management Practices (BMPs) to reduce sediment and nutrient runoff from animal concentration areas (ACAs), overgrazed pastures and lack of proper manure storages. Both streams were listed as impaired due to nutrients and siltation, with one of them being listed as impaired for the specific reason of grazing in riparian or shoreline zones. The original two landowners were able to add federal cost-share funds to their Growing Greener allocations to cover the BMP costs, enabling the district work with a third landowner.

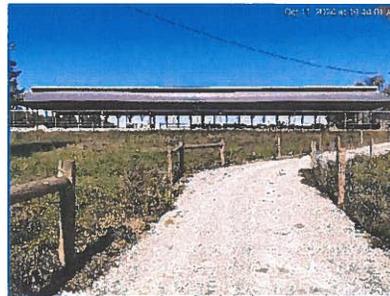
**PROJECT GOALS** Install BMPs on livestock operations to reduce sediment, nutrient and phosphorus runoff from animal concentration areas, overgrazed pastures and uncovered manure stacks.

**PROJECT RESULTS** The implemented BMPs included 13,071 feet of fencing, 22,387 square feet of heavy use area protections, 1 livestock stream crossing, approximately 694 feet of improved animal walkways, 3 roofed manure storage facilities, 11 watering facilities, and 3.84 acres of grass buffer. Nutrient loading was reduced by approximately 6,929 pounds of nitrogen and 369 pounds of phosphorus. Soil erosion was reduced by approximately 115 tons.

**ACA Before BMP Installation**



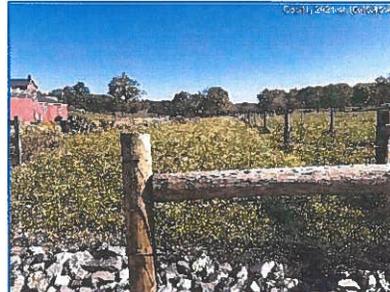
**After BMP Installation**



**Before BMP Installation**



**After BMP Installation**



**PROJECT COSTS** \$380,795 Environmental Stewardship and Protection (Growing Greener) Grant

**LESSONS LEARNED** Flexibility is important when working with landowners to install BMPs.

**PARTNERS** USDA Natural Resources Conservation District (federal cost-share- EQIP) and PA Department of Environmental Protection (federal cost-share CBIG2 grant)

**CONTACT INFORMATION** Franklin County Conservation District, Jennifer Bratthauer [jbratthauer@franklinccd.org](mailto:jbratthauer@franklinccd.org)