

4100080432 Paul Stubrick AG BMP Grant-Armstrong Conservation District

PROJECT DESCRIPTION: This project installed agricultural BMPs on the Stubrick Farm to reduce agricultural impairments as detailed in the Cowanshannock Creek Watershed Conservation Plan to reduce sediment and nutrient pollution to Spru Run (Cowanshannock Creek Watershed). The Stubrick Farm worked with the Armstrong Conservation District (ACD) and the Natural Resource Conservation Service (NRCS) to install agricultural BMPs to address the nutrient and sedimentation problems.

PROJECT GOALS: The goal of the project was to install agricultural BMPs on a farm to reduce the sediment and nutrient runoff to Spru Run (Cowanshannock Creek Watershed).

PROJECT RESULTS:

As a result of the Paul Stubrick Ag BMP Grant project, the following conservation practices were installed: 1 spring development system, 1 pumping plant, 2 watering facilities, 2,164' of pipeline, 1 water control structure, 2 rock lined waterways, 520' of subsurface drain, and 927' underground outlet. An Act 38 Nutrient Management Plan, Grazing Plan, and Conservation Plan was developed for the farm operation.

PROJECT COSTS: Growing Greener Grant Amount: \$110,096.00 Total Spent: \$69,200.53

POLLUTANT LOAD REDUCTIONS: Coupled with this construction was a pre and post-construction stream monitoring system. The post-construction water sample from downstream showed improvement from the pre-construction downstream sample. The nitrates, fecal coliform, and heterotrophic plate count results were all lower in the post-construction water sample than the pre-construction sample. This shows less manure is entering the stream, lowering the levels of nutrients and bacteria. The decrease in the bacteria counts and the nitrate levels post construction shows that the water quality improved with the proper BMPs in place.

PARTNERS: Landowners: Paul Stubrick Farm

Support: PACD Engineering Program (TAG), Kittanning NRCS, Clarion NRCS Technical Office

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