

HEMPFIELD TOWNSHIP STORMBASIN RETROFITS PROJECT

Growing Greener Grant Document # C990000763

Sponsor: Westmoreland Conservation District

PROJECT DESCRIPTION: One of the most common forms of stormwater management has been to establish a stormwater basin to control runoff. These basins, when properly designed and maintained, have proven to be very effective in controlling runoff. Unfortunately, all too often these basins do not function as designed and/or are not properly maintained. In many cases these basins are not designed or built to today's standards, leaving much room for improvement. This project designed and constructed site specific BMPs to each of the identified basins. The improvements consisted of outlet riser modifications, vegetation management, flow path adjustments, and pollutant retention. All the BMPs had one central focus, to control the water entering and exiting the basins. This grant addressed 16 (sixteen) basins in need of retrofits in Hempfield Township.

PROJECT GOALS: The goals were to reduce uncontrolled runoff from the basins chosen for retrofitting. By controlling runoff, we improve downstream water quality and quantity, improve stream habitat, and reduce stream bank erosion and flooding issues.

PROJECT RESULTS: WCD implemented a variety of storm basin retrofit BMPs such as: riser modifications, flow path adjustments, pollutant retention, and vegetation management. We installed BMPs on 16 stormwater management areas, which will control millions of gallons of water per year. Below is a BEFORE and AFTER of the Fort Allen basin. This is an example of a basin being retrofitted. The breast of embankment was built-up and headwall with pipe installed, extending bottom orifice out into the basin. This stabilized the riser structure.

BEFORE



AFTER



PROJECT COSTS: \$94,521.41 of Growing Greener Nonpoint Source Grant funds were used and \$5,093.40 of in-kind + \$10,000 of cash match (Hempfield Township) and \$16,740.48 of in-kind (WCD) contributions were provide for a total project cost of \$126,355.29.

LESSONS LEARNED: Partnerships and community support are vital in working together towards a common goal and vision.

PARTNERS: Hempfield Township, Greensburg Salem School District, Redstone Presbyterian Senior Care, and Westmoreland Conservation District.

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