

PROJECT DESCRIPTION

The Sherry Village Basin is located in Conewago Township, Adams County, Pennsylvania, along Vincent Drive. The basin was originally built in the 1970's and has since deteriorated. All stormwater runoff from the site drains to Plum Creek (WWF). The project aimed to convert the existing dry detention basin into an extended dry detention basin using multiple BMP's and rehabilitation practices, such as forebay, submerged gravel wetland, and low-flow bio-swale. The timeframe of construction was approximately two months, which commenced after receiving necessary Permits from Adams County Conservation District. The project was completed in one phase.

PROJECT GOALS

Satisfy pollutant load reduction requirements for Conewago Townships' Municipal Separate Storm Sewer System (MS4) Program by increasing the effectiveness and efficiency of the basin. Additionally, the project would increase volume control and reduce runoff rates.

PROJECT RESULTS

The converted basin consists of three primary areas to treat runoff in addition to other improvements, such as replacing the existing outlet structure/pipe, new end sections and rip-rap aprons at all points of discharge, and amended soils. The flow first enters a low-slope forebay which directs runoff towards the second area while allowing sediment to settle. The runoff then flows through a submerged gravel wetland, which then discharges through an outlet structure and/or spillway into the third area, a low-flow bio-swale. The project is effectively removing 800 lbs. of nitrogen and 25,953 lbs. of sediment per year from the discharge to the Plum Creek (WWF) watershed.

Before Treatment



After Treatment

