



Swarr Run at State Road Properties

Floodplain Restoration

LandStudies completed the assessment, design and construction services for the floodplain restoration of Swarr Run at State Road in Lancaster County, Pennsylvania. A primary goal of the restoration was to remove approximately 80,000 cubic yards of legacy sediment from an approximately 17-acre floodplain area and restore an active, connected, and functional floodplain. The project will provide stormwater management for the proposed 700,000+ square foot mixed development project, which includes a Penn State Health hospital campus. It will also provide 61,658 lb/yr of sediment reduction, credited to the East Hempfield Township Pollutant Reduction Plan.

Based on the unique geology, hydrology, and proposed land use of the site, meeting the primary goals also results in multiple significant additional benefits including reduced flooding, enhanced groundwater recharge, as well as significant ecological and aesthetic improvements.

The stream length was restored using a variety of techniques including reconnecting the stream channel with the floodplain, creating wetland areas and establishing native plant communities.

Services

Geomorphic Site Assessment | Design | Permitting | Construction Oversight | Planting | Maintenance

Client

Oak Tree Partners

Location

East Hempfield Township, Lancaster County, PA



Before



Campus Preliminary Master Plan
Photo: Penn State Health