

Stormwater Management

Derry Borough Municipal Water Authority Stormwater Retrofit

Design Features: Permeable paving, retaining wall, native tree and shrub planting, and 40 foot asphalt wedge curb

Date of Installation: 2022

Location: Derry Borough, Westmoreland County PA

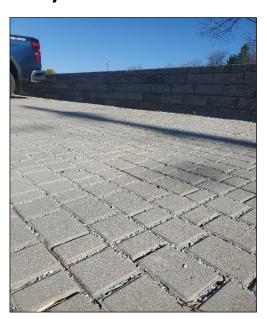
Client: Derry Borough Municipal Water Authority

Cost: \$88,660 Growing Greener, \$7,000 Derry Borough Municipal Water Authority cash match,

\$7,417.42 WCD In-Kind Match

Project Partners: Westmoreland Conservation District, Derry Borough Municipal Water Authority

Project Contact: Hank Bradish, hank@wcdpa.com



Close-up of permeable paving in Derry Borough Municipal Water Authority parking lot

Project Specifications

The purpose of this project was to reduce flooding and sedimentation to McGee Run and support the MS4 Community of the Derry Borough in their efforts to implement stormwater controls. The project constructed approximately 900 square feet of permeable parking and planted native tree and shrubs. The focus was primarily on retaining and promoting stormwater infiltration on the municipal authority's parking lot. The installation of permeable parking successfully helped reduce flooding, prevent sedimentation, and improved water quality.

Benefits/Performance Measures

Through the installation of permeable parking, sedimentation loads were captured, shown below in the pollutant load reductions chart. The project built on the success of past collaborative efforts with the McGee Run watershed and aided in reducing pollutants and volume of runoff and improved water quality.

Pollutant Load Reductions

ВМР	Location	Acreage	TSS/yr	TP/	NO3/
		managed		yr	yr
Permeable	Derry	0.3 acres	3.7 lbs	0.02	0.02
Parking	Water			lbs	lbs
	Authority				

TSS-total suspended solids TP-total phosphorus NO3-nitrate



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(Before) Derry Borough Municipal Water Authority Parking lot



(After) Derry Borough Municipal Water Authority Parking lot with retaining wall



New tree planted



New shrubs planted