

Langdon Stormwater Management Facility

Background:

The Langdon project is located in Westminster adjacent to Westminster Avenue in the Double Pipe Creek Watershed. Approximately 200 acres of older residential housing and commercial businesses drain to an impaired stream channel running south out of the City. A new facility was constructed to treat a total of 203.46 acres of urban drainage that flowed untreated into the existing stream channel.

Scope of Work:

The Bureau of Resource Management in partnership with the City of Westminster constructed a new wet pond facility to achieve water quality, channel protection, and flood protection. Seventy thousand yards of material which equates to roughly 7,000 dump truck loads were hauled off-site as part of this project. Situated in a valley surrounded by a residential community, access to the site was via a one lane, two-way alley. These site access issues led staff to contract with Maryland Midland Railway to haul excess material by train car to two fill sites in New Windsor; 2 train trips of 16 cars total per day.

CLSI, Inc. was awarded the design contract in February of 2014.

Sequence of Construction:

Construction of the facility was awarded to Highland Turf, Inc. in May of 2020. Other contractors working on the project included Stambaugh's Inc. as the fill site construction contractor; Maryland Midland Railway, Inc., as the rail owner and operator to transport material off-site; Herzog Services, Inc. as the specialized equipment operator for the excavator that unloaded the train cars; Hillis-Carnes Engineering Associates for the geotechnical engineering and inspection; and A. Morton Thomas and Associates for construction inspection. All necessary Federal and State permits were obtained for the project.

The Bureau of Resource Management was awarded \$900,000 from the Department of Natural Resources and \$979,941 from the State Highway Administration towards construction of this facility. Construction wrapped up in March of 2021.

Project Details:

Watershed:	Double Pipe Creek
Drainage Area:	203.46 acres
Impervious Surface Treated:	92.1 acres
Costs: Engineering	\$ 218,957.50
Acquisition	\$ 302,922.45
Construction	\$2,874,850.40
Time Frame:	7 years

Submitted By:

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