

Spangler Lane SWM Pond

<p>Background</p>	<p>On December 29, 2010, the U.S. Environmental Protection Agency established the Chesapeake Bay Total Maximum Daily Load (TMDL). The TMDL is a comprehensive “pollution diet” to restore clean water in the Chesapeake Bay and the region’s streams, creeks, and rivers. A TMDL is the calculation of the maximum amount of pollution a body of water can receive and still meet state water quality standards. Water quality standards are designed to ensure waterways meet a national primary goal of being swimmable and fishable.</p> <p>The Chesapeake Bay TMDL is designed to ensure that all pollution control measures needed to fully restore the Bay and its tidal rivers are in place by 2025. One of the actions taken by the State of Maryland to meet the TMDL was to modify the National Pollution Discharge Elimination System (NPDES) permit requirements for small Municipal Separate Storm Sewer Systems (MS4s). The revised permit requires permittees to begin restoration for 20% of existing impervious area that is not already treated with water quality best management practices. These areas include land developed prior to 2002. By year 5 of the permit (2022), permittees must have developed an implementation schedule to show how the 20% requirement will be achieved by 2025.</p> <p>The City has already received an analysis from the Environmental Finance Center of the University of Maryland and has used the services of a private consultant to make recommendations as to how to achieve the requirements to be contained within this permit. This project is one of several projects needed to meet the requirement.</p>
<p>Project Scope</p>	<p>This project will modify the existing detention area into a pond with a permanent pool which meets current design criteria for both water quality and water quantity control. The new pond will result in reduction in nitrogen, phosphorus, and suspended solids in stormwater discharges which are harmful to the Chesapeake Bay and its tributaries.</p> <p>Stormwater leaving this pond discharges through large storm sewer to a stream in Whitemarsh Part, and eventually to the Patuxent River.</p> <p>The project will include removal of most of the trees in the existing detention area. It also includes replacement of the aged fence and new landscaping around the pond.</p>
<p>Project Manager</p>	<p>Name: Pat Rush Phone: 240-544-5689 Email: prush@cityofbowie.org</p>
<p>Total Project Cost</p>	<p>The total project cost including design and construction is \$996,600.</p>

Design Consultant	RK&K
Construction Contractor	SMI Services, LLC
Anticipated Construction Date	Start date was April 2019. Completed date was September 2019.
Images / Attachments	
Last updated: 6/2/2020	