

Gateway Harbor Stormwater Management Pond Improvements

<p>Background</p>	<p>The Gateway Harbor Stormwater Management (SWM) Pond is located southwest of the intersection of US Route 301 and Harbour Way in the City of Bowie. The facility was originally designed and constructed as an extended detention facility in 1989 to provide stormwater management for the surrounding residential and commercial development and does not provide water quality volume to the current SWM regulations. There has been an accumulation of silt and detritus within the pond.</p> <p>The City of Bowie is required to comply with the National Pollution Discharge Elimination System (NPDES) permit for small Municipal Separate Storm Sewer Systems (MS4s). This MS4 permit, effective in 2017, mandates permittees to restore 20% of existing impervious area that is not already treated with water quality best management practices by 2025. By 2022, the City must develop an implementation schedule to show how the 20% requirement will be achieved by 2025. Since 2014, the City has contracted with several engineering consulting companies to assess and prioritize the projects for the impervious area restoration to maximize water quality and impervious acre credit for the City’s municipal separate storm sewer system (MS4) permit. A few stream and pond restoration projects have been identified to meet this objective, which include the Gateway Harbor Stormwater Management Pond Improvements project.</p>
<p>Project Scope</p>	<p>The proposed work includes repair and retrofit of the existing pond to provide additional storage and treatment. The design consists of excavation to remove sedimentation and construction of forebays at the inflow locations. Riprap aprons are proposed at the facility inflow points to provide protection from potentially erosive flows. Modifications to the existing riser structure are proposed to manage discharge rates and provide the maximum amount of treatment. A low flow device will be installed with an orifice end cap to set the permanent pool elevation.</p>
<p>Project Manager</p>	<p>Name: Kui Lin Phone: 240-544-5689 Email: kui.lin@kci.com</p>
<p>Total Project Cost</p>	<p>Design Cost: \$101,254 Estimated Construction Cost: \$1,032,500</p>
<p>Design Consultant</p>	<p>Brudis and Associates, Inc.</p>
<p>Construction Contractor</p>	<p>TBD</p>
<p>Anticipated Construction Date</p>	<p>Fall 2023</p>

**Images /
Attachments**



Last updated: 5/24/2022