























Three Mile Creek Watershed Management Plan





Table ES-2, Projects identified as providing early significant benefits to reaching the WMP goals for Three Mile Creek(*indicates which of the implementation strategies, if implemented in a section of the watershed contributing to an impacted stream segment, could improve the effected water quality parameter(s), See Tables 6-4 and 6-5).

TMC Watershed Challenge to be Addressed and CCMP Value	Priority Projects	Summary Description	Cost	Proposed Implementation Schedule
Stormwater  Resiliency  Water	Reduce the amount of trash in and entering the creek and tributaries with a focus on One Mile Creek, Toulmins Spring Branch, USA, and Langan Park	<ol style="list-style-type: none"> Utilize utility/trash boat/weed harvester/engage Navy Seabees (6NS) Identify the outfalls that contribute the most trash (8NS, 10NS, 14NS*) Install GPRS and/or Green Infrastructure in strategic locations (1S*, 2S*, 3S*) Citizen involvement and education campaign (7NS, 11NS, 12NS) Add trash capture at USA pond inflow points (6S*) Add trash capture at Langan Park pond inflow points (7S*) <i>(* If purchase of utility/trash boat/weed harvester is required then add \$800,000 to this Project (15NS, 16NS))</i> 	\$2.94M to \$5.34M*	<ol style="list-style-type: none"> Initiate immediately Initiate immediately Following completion of 2 Continue throughout 10-year implementation period of WMP Initiate immediately Initiate immediately
Stormwater, Ecology  Fish  Resiliency  Water	Remove sediment to increase storage capacity and conveyance of stormwater runoff while improving ecological conditions	<ol style="list-style-type: none"> Identify locations of excessive sediment (3NS, 11NS, 12NS) Remove sediment at strategic locations (4S*, 5S*, 12S*) 	\$18.2M to \$72.7M	<ol style="list-style-type: none"> Initiate immediately Within second year of adoption of WMP (Continue additional segments throughout 10-year implementation period of WMP)

TMC Watershed Challenge to be Addressed and CCMP Value	Priority Projects	Summary Description	Cost	Proposed Implementation Schedule
Wastewater  Fish  Resiliency  Water	Remove Sanitary System Leaks, SSO, and Illicit Discharges in Toulmins Spring Branch and Unnamed Tributary to Three Mile Creek	<ol style="list-style-type: none"> 1. Identify and remove sanitary system and septic system leakage/overflows into groundwater, creeks and tributaries (1NS*) 2. Identify and remove illicit discharges to stormwater and surface water system in watershed (2NS*) (Focus on Toulmins Spring Branch and UTTM sub-basins and lower portion of watershed (1NS* and 2 NS*))	\$1.06M to \$7.2M	<ol style="list-style-type: none"> 1. Initiate immediately 2. Initiate immediately
Ecology  Coastlines  Fish  Resiliency	Reduce the occurrence of nuisance and/or exotic species with a focus on One Mile Creek	<ol style="list-style-type: none"> 1. Map SAV in watershed and Improve management of exotic/nuisance vegetation in wetland and upland riparian areas adjacent to creek and tributaries (6NS) 2. Develop plan for long term management. (6NS) 3. Utilize previously purchased utility/trash boat/weed harvester (6NS) <i>(* If purchase of utility/trash boat/weed harvester is required then add \$800,000 to this Project (15NS, 16NS))</i>	\$154,000 to \$285,000	<ol style="list-style-type: none"> 1. Within first year of adoption of WMP 2. Within second year of adoption of WMP 3. Perform within the WMP 10-year period (Implement Management Plan throughout 10-year implementation period of WMP)
Access  Access  Heritage	Initiate Construction of Greenway & Blueway Development	<ol style="list-style-type: none"> 1. Establish a greenway along the existing USACE maintenance corridor utilizing the existing bridge at Martin Luther King Jr. Ave. to cross Three Mile Creek (1GW) 2. Anchor the Three Mile Creek blueway and greenway systems at Martin Luther King, Jr. Ave. and Tricentennial Park (1GW) 3. Construct two blueway access points at Tricentennial Park and Martin Luther King, Jr. Ave. (1BW) 	\$255,000 to \$382,000	<ol style="list-style-type: none"> 1. Initiate immediately 2. Initiate immediately 3. Initiate immediately (Continue additional segments throughout 10-year implementation period of WMP)

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Stormwater, Access  Water  Access  Heritage	Create a stormwater park/fitness circuit at Mill Street Park	<ol style="list-style-type: none"> 1. Install structural BMPs as part of stormwater park (1S*, 2S*, 3S*) 2. Integrate park access with blueway and greenway trail systems (1BW, 1GW) (* Costs for easement purchase TBD)	\$546,000 to \$966,000*	<ol style="list-style-type: none"> 1. Initiate immediately 2. Initiate immediately (Continue additional segments throughout 10-year implementation period of WMP)
Stormwater, Access  Water  Access  Heritage  Water	Establish a Stormwater and Tidal Monitoring System	<ol style="list-style-type: none"> 1. Complete water quality monitoring identified in Data Gaps; identify major hydrologic and pollutant inputs (14NS*) 2. Identify or establish local tidal level monitoring sites and vegetation plots; monitor and record data in a database yearly (1CA) 3. At three-year intervals, evaluate changes in tidal range over time, vegetation survival/conversion and predictive modeling results to develop implementation plans for other projects (1CA) 	\$90,000 to \$125,000	<ol style="list-style-type: none"> 1. Initiate immediately 2. Conduct baseline monitoring during 2015 3. Continue throughout 10-year implementation period of WMP
Climate Adaptation  Coastlines  Resiliency	Flood Risk Assessment and Education based on SLR and storm surge	Incorporate flood risk management and storm surge information in educational outreach program (7NS)	Partnering Funds TBD	First quarter of 2015

TMC Watershed Challenge to be Addressed and CCMP Value	Priority Projects	Summary Description	Cost	Proposed Implementation Schedule
Climate Adaptation  Access  Heritage  Coastlines  Resiliency	Tidal Marsh Restoration	Utilize SLR, Tidal Monitoring data and Surge study results to identify opportunities (areas at risk) for land acquisition and tidal marsh restoration (2CA, 4CA, 5CA)	TBD	Within one year of adoption of WMP
Total			\$23.2M to \$87.1M	

*Comprehensive Conservation and Management Plan