

Table 5-3 BCWMC 2015-2027 CIP (Amended August 2020) (Proposed additions and deletions in yellow)

BCWMC ID	Capital Project Description	Estimated Capital Cost <sup>1</sup>	Year												
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
<b>Watershed-wide</b>															
WS-1	Remove sediment deltas in lakes downstream of intercommunity watersheds to reduce phosphorus and sediment loading, following evaluation of sediment sources and upstream source control (Policy 56)									TBD	TBD	TBD	TBD	TBD	
	Implementation of water quality improvement projects resulting from Metro Chloride TMDL (pending) to address chloride loading (Policy 18)									TBD	TBD	TBD	TBD	TBD	
	Implementation of water quality improvement projects resulting from the Upper Mississippi River Bacteria TMDL (Policy 7, generally)									TBD	TBD	TBD	TBD	TBD	
	Implementation of water quality improvement projects resulting from future TMDLs (Policy 7, generally)									TBD	TBD	TBD	TBD	TBD	
<b>Medicine Lake</b>															
ML-12 <sup>17</sup>	Projects address phosphorus load reduction requirements in Medicine Lake TMDL	Medley Park Stormwater Treatment Facility, Golden Valley	\$ 2,000,000								\$400,000	\$300,000	\$ 800,000		
ML-14 <sup>3</sup>		Medicine Lake shoreland restoration	\$ 100,000											After 2023	
ML-15		Wet pond (0.5 acre) at downstream end of each major subwatershed	\$ 2,000,000											After 2023	
ML-16		Water quality retrofits to existing ponds upstream of Medicine Lake	\$ 11,000,000											After 2023	
ML-17		In-lake alum treatment (Option 18 in Medicine Lake Plan)	\$ 1,400,000											After 2023	
ML-19 <sup>4</sup>		Chemical treatment of inflow to Medicine Lake from watershed	\$ 1,000,000											After 2023	
ML-20		Mt. Olivet Stream Restoration Project	\$ 178,100							\$178,100					
ML-21		Jevne Park Stormwater Pond, City of Medicine Lake to alleviate flooding/improve	\$ 500,000							\$ 500,000					
ML-22		Ponderosa Woods Stream Restoration	\$ 475,000											\$475,000	
ML-23		Cost Sharing Purchase of High Efficiency Street Sweeper for city of Plymouth	\$ 75,000							\$75,000					
ML-24	Beacon Heights 2 <sup>nd</sup> Addition Stormwater Improvement Project	\$ 150,000									\$90,000	\$ 60,000			
<b>Plymouth Creek</b>															
2017CR-P <sup>5</sup>		Plymouth Creek Restoration, from Annapolis Lane to 2,500 feet upstream (east) of Annapolis Lane to reduce phosphorus and sediment loading, and improve habitat	\$ 863,573			\$ 580,930	\$ 282,643								
2026CR-P		Plymouth Creek Restoration Project, Old Rockford Road to Vicksburg Lane	\$ 500,000											\$500,000	
2027CR-P		Plymouth Creek Restoration Project, Dunkirk Ln to Yuma Ln & Vicksburg Ln to Cty Rd 9	\$ 600,000												\$600,000
<b>Sweeney Lake</b>															
SL-3 <sup>6</sup>	ad reduction requirements TMDL	Schaper Pond Diversion Project	\$ 612,000												
SL-4		Sweeney Lake shoreland restoration	\$ 300,000											After 2023	
SL-5		Water quality retrofits to existing ponds upstream of Sweeney Lake	\$ 800,000											After 2023	
SL-6		Dredging of Spring Pond and diversion of Sweeney Lake branch into Spring Pond.	\$ 1,000,000											After 2023	
SL-7		Projects to reduce loading from untreated Hennepin County and MnDOT right-of-way	\$ 400,000											After 2023	

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SL-8	Projects to address phosphorus loading in Sweeney Lake	Sweeney Lake Water Quality Improvement Project (alum + carp management) <sup>15</sup>	\$ 568,080						\$568,080								
SL-9 <sup>4</sup>		Chemical treatment of inflow to Sweeney Lake from Sweeney Lake Branch of Bassett Creek	\$ 1,000,000													After 2023	
SL-10		Impervious area runoff retention and retrofits, including bioretention, rainwater gardens, and soil restoration (various locations)	\$ 500,000														After 2023
SL-11		Stormwater treatment system for dissolved phosphorus removal in Golden Valley	\$ 400,000														After 2023
<b>Twin Lake</b>																	
TW-2 <sup>6</sup>		In-lake alum treatment of Twin Lake to reduce internal phosphorus loading	\$ 160,000														
<b>Bassett Creek Park Pond</b>																	
BCP-2		Dredging of Bassett Creek Park Pond and upstream channel improvements for water quality treatment to reduce phosphorus loading	\$1,000,000				\$1,000,000										
<b>Northwood Lake</b>																	
NL-1 <sup>7</sup>		Northwood Lake Water Quality Project to reduce phosphorus loading	\$ 1,769,070		\$ 676,000	\$ 1,093,070											
NL-2 <sup>8</sup>		Four Seasons Mall Area Water Quality Improvements to reduce phosphorus loading	\$ 990,000														
		Implementation of water quality improvement projects recommended in future Northwood Lake TMDL study								TBD	TBD	TBD	TBD	TBD			
<b>Bassett Creek Main Stem</b>																	
2015CR-M <sup>9</sup>		Restore Main Stem channel, 10th Avenue to Duluth Street, Golden Valley to reduce phosphorus and sediment loading	\$ 1,503,000	\$ 1,503,000													
2017CR-M <sup>10</sup>		Main Stem Channel Restoration, Cedar Lake Road to Irving Ave to reduce phosphorus and sediment loading	\$ 1,064,472		\$ 400,000	\$ 664,472											
2024CR-M		Main Stem Channel Restoration, Regent Ave. to Golden Valley Road (in Golden Valley) to reduce phosphorus and sediment loading	\$ 700,000									\$ 100,000	\$ 600,000				
BC2,3,8, 10		Medicine Lake Road and Winnetka Avenue Long Term Flood Mitigation Plan Implementation	\$ 4,200,000				\$ 1,100,000	\$ 500,000		\$ 300,000	\$ 1,000,000		\$ 600,000	\$ 700,000			
BC-4 <sup>12</sup>		Honeywell Pond Expansion, Main Stem Watershed (Golden Valley) to reduce phosphorus loading and provide water quantity benefits	\$ 1,202,000	\$ 1,202,000													
BC-5 <sup>13</sup>		Water Quality Improvements (phosphorus reduction) in Bryn Mawr Meadows, Main Stem Watershed (Minneapolis) <sup>16</sup>	\$ 912,000					\$ 100,000	\$ 812,000								
BC-7 <sup>18</sup>		Dredging of accumulated sediment in Main Stem of Bassett Creek just north of Highway 55, Theodore Wirth Regional Park, to reduce phosphorus loading and improve habitat	\$ 2,759,000							\$ 600,000	\$ 1,100,000	\$ 859,000	\$ 200,000				
BC-9		<del>Restoration and stabilization of historic Bassett-Creek channel, Main Stem Watershed (Minneapolis) to reduce phosphorus and sediment loading</del>															
BC-11		Bassett Creek Park Water Quality Improvement Project	\$ 500,000										\$ 200,000	\$ 300,000			

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BC-12	Cost share purchase of high efficiency street sweeper	\$ 150,000												\$150,000		
BC-13	Toledo Ave/Minnaqua Pond Stormwater Improvements & Flood Reduction	\$ 700,000														\$700,000
<b>Westwood Lake</b>																
WST-2	Westwood Lake Water Quality Improvement Project in Westwood Hills Nature Center	\$300,000					\$ 300,000									
<b>Parkers Lake</b>																
PL-7	Parkers Lake Drainage Improvement Project to reduce erosion, suspended solids, and total phosphorus to Parkers Lake	\$485,000								\$ 485,000						
<b>Crane Lake</b>																
CL-3 <sup>14</sup>	Retention of impervious area drainage at Ridgedale area (e.g., bioswales, tree trenches, rain gardens) to reduce phosphorus loading	\$300,000							\$ 300,000							
CL-4	Crane Lake Chloride Reduction Demonstration Project at Ridgedale Mall	\$300,000													\$ 300,000	
<b>Flood Control Project</b>																
FCP-1	Flood Control Project Double Box Culvert Repairs	\$1,200,000														\$1,200,000
<b>Total Annual Estimated Project Cost<sup>2</sup></b>		<b>\$46,831,295</b>	<b>\$1,503,000</b>	<b>\$1,878,000</b>	<b>\$2,074,000</b>	<b>\$1,947,115</b>	<b>\$1,400,000</b>	<b>\$1,968,080</b>	<b>\$2,150,100</b>	<b>\$1,890,000</b>	<b>\$2,219,000</b>	<b>\$1,775,000</b>	<b>\$1,650,000</b>	<b>\$1,500,000</b>	<b>\$2,500,000</b>	

**Notes:**

- TBD = To be determined, usually at the time the project is listed in the working (5-year) CIP.
- 1. Project costs presented in 2015 - 2020 dollars, depending on when project was added to CIP.
- 2. Includes estimated costs for projects not yet assigned an implementation year. Annual Estimated Costs do not necessarily reflect actual Hennepin County levy amount due to grants, financial contributions from cities, and use of CIP fund
- 3. ML-14: Project may include lakeshore restoration projects administered by the BCWMC. The City of Plymouth has already performed lakeshore restoration on some properties adjacent to Medicine Lake.
- 4. Estimated cost of projects ML-19 and SL-9 do not include the annual cost of chemical precipitant and operation/maintenance of treatment facility.
- 5. 2017CR-P: Project is based on recommendations in the 2009 Plymouth Creek Restoration feasibility study.
- 6. SL-3 and TW-2: Projects already levied, to be constructed in 2015.
- 7. NL-1: Project based on Option 4 of the 1996 Northwood Lake Watershed and Lake Management Plan. Project includes construction of a pond upstream of Northwood Lake and installation of underground stormwater treatment and reuse system, and bioinfiltration cells.
- 8. NL-2: The Four Seasons Mall Area Water Quality Project could include construction of stormwater treatment ponds, restoration of an eroding stream channel, alum treatment of stormwater, or other projects to address phosphorus loading. The projects stem from recommendations from the 1996 *Northwood Lake Watershed and Lake Management Plan*. The BCWMC levied for the project defined as option 1 in the 2012 feasibility study. Now project planned to coincide with redevelopment of the Four Seasons Mall area.
- 9. 2015CR-M: Project is based on recommendations in the Feasibility Study for 2015 Bassett Creek Main Stem Restoration Project (2014). Project already levied: the BCWMC certified a levy to the county for 2015 (\$1,000,000); remaining
- 10. 2017CR-M: Project is based on recommendations in the Feasibility Study for 2012 Bassett Creek Main Stem Restoration Project (2011).
- 12. BC-4: Project diverts currently untreated stormwater runoff to the pond.
- 13. BC-5: Project based on Option 7 in the Bassett Creek Main Stem Watershed Management Plan to treat currently untreated stormwater runoff to reduce phosphorus loading.
- 14. CL-3: Project is based on recommendations in the Crane Lake Watershed and Lake Management Plan (1995).
- 15. Project now involves carp management and includes federal grant funding through MPCA.
- 16. Estimated cost increased from original estimate of \$500,000; State grant funds awarded
- 17. City of Golden Valley to provide \$500,000
- 18. Grant funds of \$325,000 secured from state and county