

Appendix F

Capital Improvements Program

Table 12-2. Water Quality Management and Flood Control 10-Year Capital Improvements Program

| Map ID # | Water Quality Improvement Option ¹ | Capital Cost ² | Year | | | | | | | | | | NOTES: |
|--|---|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------|------------------|--|
| | | | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | |
| Medicine Lake | | | | | | | | | | | | | 1. Other potential projects that the cities may implement will be evaluated at the time the projects become more definite 2. Capital Cost does not include land acquisition costs, but does include legal, administration, and 25% additional for contingencies. All costs are in 2003 dollars. 3. Already constructed. 4. This project includes dredging of accumulated sediment, as recommended by the City of Plymouth's <i>Medicine Lake Watershed Implementation and Management Plan</i> and will be constructed in 2004. The total project cost is estimated to be \$880,100. 5. MnDOT sound wall construction in New Hope will require relocation & resizing of storm sewer in this watershed, which could lead to City of New Hope participation in this project 6. The BCWMC will consider including repair of the existing control structure as part of the feasibility study for this project. 7. Project costs may be offset by \$150,000 LCMR grant. |
| ML-1 ³ | Construct wet detention pond for subwatershed BC94B1 (Option 8 in Medicine Lake Plan) | \$0 | | | | | | | | | | | |
| ML-2 | Reduce Goose Loadings by 75% (Option 17 in Medicine Lake Plan) | \$102,500 | | \$34,170 | \$34,170 | \$34,160 | | | | | | | |
| ML-3 ⁴ | Reroute flows from subwatershed BC94 to a larger wet detention pond for BC92 (Option 9a in Medicine Lake Plan) & dredging of accumulated sediment | \$104,100 | | | | \$90,200 | | | | | | | |
| ML-4 ⁴ | Medicine Lake East Beach wet detention pond for subwatershed BC107 (Option 11 in Medicine Lake Plan) & dredging of accumulated sediment | \$0 | | | | | | | | | | | |
| ML-5 ^{4,5} | Construct wet detention pond for subwatersheds BC98, BC98A and BC98B (Option 10a in Medicine Lake Plan) & dredging of accumulated sediment | \$0 | | | | | | | | | | | |
| ML-6 | Construct wet detention pond for subwatershed BC94B2 (Option 6 in Medicine Lake Plan) | \$10,800 | | | | | \$10,800 | | | | | | |
| ML-7 | In-Lake Herbicide Treatment (Option 18 in Medicine Lake Plan) | \$195,000 | | | \$90,000 | \$105,000 | | | | | | | |
| Parkers Lake | | | | | | | | | | | | | 8. The City of St. Louis Park supports a scaled-down, less costly project that includes park and playground improvements. The city staff agrees with the BCWMC's proposed schedule, but suggests re-evaluation of the BCWMC's water quality goal for Westwood Lake. 9. The City of New Hope has constructed NB-35A, B, C, but not to the same degree as proposed in the lake and watershed management plan. NB-29A & B have not been constructed. These improvements will need to be re-evaluated as part of the feasibility study. Costs shown are for NB-29A & B only. Costs will be added to the CIP to upgrade these ponds if the feasibility study indicates that they should be upgraded. 10. The City of New Hope has already constructed NB- 28A & B. The city will be constructing ponds NB-37A & NB-38A in the next year. Pond NB-36A may be constructed in conjunction with a church expansion project. These improvements will need to be re-evaluated as part of the feasibility study. Costs shown are for NB-36A, NB-37A & NB-38A only. If the city cannot wait until approval and adoption of the BCWMC Plan, immediate construction of the final phase of project NL-4 (NB-36A) will be in 2004. Reimbursement using the assessment process in the Joint Powers Agreement is being considered by the BCWMC. 11. This project to be completed as part of the Boone Avenue and Brookview Golf Course improvement projects in 2004. Because the city has indicated that it cannot wait until approval and adoption of the BCWMC Plan, immediate construction of project BC-1 will be in 2004. Reimbursement using the assessment process in the Joint Powers Agreement is being considered by the BCWMC. 12. This project should be feasible as part of the City of Robbinsdale's street reconstruction project taking place in the near future. 13. Funding is from remaining flood control project construction funds (\$700,000). The floodproofing funds are proposed to be allocated as follows: 2003 - \$100,000, 2004 - \$200,000, 2005 - \$300,000 and 2006 - \$100,000. These amounts are the BCWMC costs, assuming the BCWMC funds 72.5% of the floodproofing costs. See Table 5-2. |
| PL-6 | Improvements to stormwater basin in PL-A13 near Circle Park (from the City of Plymouth's <i>Parkers Lake Implementation Plan</i>) | \$42,000 | \$42,000 | | | | | | | | | | |
| Wirth Lake | | | | | | | | | | | | | |
| WTH-1 ^{6,7} | Dredging subwatershed FR-5 detention pond (Option 2 in Wirth Lake Plan) | \$40,000 | \$40,000 | | | | | | | | | | |
| WTH-2 ⁷ | Highway 55 detention pond (Option 3 in Wirth Lake Plan) | \$151,200 | \$75,600 | \$75,600 | | | | | | | | | |
| WTH-3 ⁷ | In-lake alum treatment (Option 1 in Wirth Lake Plan) | \$45,600 | \$45,600 | | | | | | | | | | |
| Sweeney Lake | | | | | | | | | | | | | |
| -- | None - see Table 2. Potential Future Water Quality Capital Improvement Projects | | | | | | | | | | | | |
| Twin Lake | | | | | | | | | | | | | |
| TW-1 | Pond Expansion (Option 1 in Twin Lake Plan) | \$52,700 | \$52,700 | | | | | | | | | | |
| Westwood Lake | | | | | | | | | | | | | |
| WST-1 ⁸ | Flag Avenue detention/skimming facility (Option 1 in Westwood Lake Plan) | \$463,800 | | \$231,900 | \$231,900 | | | | | | | | |
| Bassett Creek Park Pond | | | | | | | | | | | | | |
| -- | None - see Table 2. Potential Future Water Quality Capital Improvement Projects | | | | | | | \$0 | | | | | |
| Northwood Lake | | | | | | | | | | | | | |
| NL-1 ⁹ | Construct ponds NB-35A,B,C AND NB-29A,B (Option 4 in Northwood Lake Plan) | \$74,300 | | | | | | | | | \$74,300 | | |
| NL-2 | Dredge pond NB-07 (Option 2 in Northwood Lake Plan) | \$725,700 | | | | \$241,900 | \$241,900 | \$241,900 | | | | | |
| NL-3 | Divert Lancaster Lane storm sewer (Option 3 in Northwood Lake Plan) | \$45,200 | | | | | | | \$45,200 | | | | |
| NL-4 ¹⁰ | Construct ponds NB-36A, NB-37A, NB-38A, & NB-28A, B (Option 5 in Northwood Lake Plan) | \$141,100 | \$141,100 | | | | | | | | | | |
| Bassett Creek Main Stem | | | | | | | | | | | | | |
| BC-1 ¹¹ | Pond BC-10-3 (Option 4 in Bassett Creek Main Stem Plan) | \$215,300 | \$215,300 | | | | | | | | | | |
| Grimes, North, & South Rice Ponds | | | | | | | | | | | | | |
| GR-2 ¹² | Grimes Pond wet detention pond (Option 4 in Rice and Grimes Ponds Plan) | \$80,000 | | | \$80,000 | | | | | | | | |
| Crane Lake | | | | | | | | | | | | | |
| CL-1 | Ramada Inn detention/skimming facility (Option 1 in Crane Lake Plan) | \$89,100 | | | | | | | | | \$89,100 | | |
| CL-2 | Joy Lane Wet Detention Pond (Alt. #2) | \$85,100 | | | | | | | | | \$85,100 | | |
| Turtle Lake | | | | | | | | | | | | | |
| -- | None - see Table 2. Potential Future Water Quality Capital Improvement Projects | | | | | | | | | | | | |
| Lost Lake | | | | | | | | | | | | | |
| -- | None - see Table 2. Potential Future Water Quality Capital Improvement Projects | | | | | | | | | | | | |
| Map ID # | Flood Control Improvement Option | Capital Cost ² | Year | | | | | | | | | | |
| | | | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | |
| -- | Flood proofing of homes along trunk system ¹³ | \$400,000 | \$0 | \$0 | \$0 | \$0 | | | | | | | |
| TOTAL ESTIMATED PROJECT COST | | \$3,063,500 | \$612,300 | \$341,670 | \$356,070 | \$323,260 | \$252,700 | \$241,900 | \$241,900 | \$45,200 | \$0 | \$248,500 | |

Table 12-3. Potential Future Water Quality Capital Improvement Projects

| Map ID # | Improvement Option ¹ | NOTES: | |
|--|---|---|--|
| Medicine Lake | | | |
| ML-8 ² | Construct Plymouth Creek stormwater alum treatment plant (20 cfs) (Option 14 in Medicine Lake Plan) | <p>¹ - Other potential projects that the cities may implement will be evaluated at the time the projects become more definite.</p> <p>² - Alum treatment projects will be considered "future projects" - the BCWMC will move ahead with alum treatment only after sufficient time has passed to evaluate the effectiveness of less costly BMPs.</p> <p>³ - Since completion of the lake and watershed management plan, Parkers Lake water quality has improved and is now meeting the Commission's water quality goals. As long as the lake's water quality continues to meet the Commission's goals, these projects will be considered "future projects."</p> <p>⁴ - Need to re-evaluate water quality goal for Bassett Creek Park Pond prior to project</p> <p>⁵ - Project is not included in the city of Golden Valley's CIP</p> <p>⁶ - In-lake alum treatment of North & South Rice Ponds may have already been completed by local residents.</p> | |
| ML-9 ² | In-lake alum treatment (Option 16 in Medicine Lake Plan) | | |
| -- ² | Annual O&M cost for alum treatment plant | | |
| | Implementation of water quality improvement projects recommended in the Medicine Lake and Plymouth Creek TMDL studies | | |
| | 21st Avenue diversion (Option 3 in Parkers Lake Plan) | | |
| Parkers Lake | | | |
| PL-1 ³ | Alum treatment plant (Option 4 in Parkers Lake Plan) | | |
| PL-2 ³ | Route South Niagara watershed to south pond (Option 1 in Parkers Lake Plan) | | |
| PL-3 ³ | Parkers North detention/skimming facility (Option 6 in Parkers Lake Plan) | | |
| PL-4 ³ | Workhouse pond improvements in PL-A16.2 (from the city of Plymouth's Parkers Lake Implementation Plan) | | |
| PL-5 ³ | Annual O&M cost for alum treatment plant | | |
| Sweeney Lake | | | |
| SL-2 | Alum treatment plant (Option 3 in Sweeney Lake Plan) | | |
| -- | Annual O&M cost for alum treatment plant | | |
| | Implementation of water quality improvement projects recommended in the Sweeney Lake TMDL study | | |
| Wirth Lake | | | |
| | Implementation of water quality improvement projects recommended in the Wirth Lake TMDL study | | |
| Bassett Creek Park Pond | | | |
| BCP-1 ⁴ | Flow Diversion Alum Treatment Facility (Option 9 in Bassett Creek Park Pond Plan) | | |
| -- | Annual O&M cost for alum treatment plant | | |
| | Implementation of water quality improvement projects recommended in the Bassett Creek TMDL study that pertains to the North Fork of Bassett Creek | | |
| | Dredge ponds NB-19, NB-21, and NB-23 (Option 6 in Northwood Lake Plan) | | |
| Northwood Lake | | | |
| NL-5 | Construction of alum treatment plant at NB-07 (Option 10 in Northwood Lake Plan) | | |
| NL-6 | Annual O&M cost for alum treatment plant | | |
| -- | Implementation of water quality improvement projects recommended in the Northwood Lake TMDL study | | |
| Bassett Creek Main Stem | | | |
| BC-2 ⁵ | Pond HH1111-1 (Option 2 in Bassett Creek Main Stem Plan) | | |
| BC-3 ⁵ | Pond BC-111152 (Option 8 in Bassett Creek Main Stem Plan) | | |
| BC-4 ⁵ | Retrofit pond HH-11 (Option 1 in Bassett Creek Main Stem Plan) | | |
| BC-5 ⁵ | Pond BC-11112-12 (Option 7 in Bassett Creek Main Stem Plan) | | |
| BC-6 ⁵ | Pond BC-91-5 (Option 5 in Bassett Creek Main Stem Plan) | | |
| BC-7 ⁵ | Pond BC-72-2 (Option 6 in Bassett Creek Main Stem Plan) | | |
| BC-8 ⁵ | Pond HH11-0 (Option 3 in Bassett Creek Main Stem Plan) | | |
| | Implementation of water quality improvement projects recommended in the Bassett Creek TMDL study | | |
| Grimes, North, & South Rice Ponds | | | |
| GR-3 ⁶ | In-Lake Alum Treatment of North and South Rice Ponds (Option 3 in Rice and Grimes Ponds Plan) | | |
| Turtle Lake | | | |
| TU-1 | Dredge North Wetland (Option 4 in Turtle Lake Plan) | | |
| TU-2 | Extensive Dredging of Turtle Lake (Option 6 in Turtle Lake Plan) | | |
| Lost Lake | | | |
| LL-1 | In-lake alum treatment (Option 1 in Lost Lake Plan) | | |