

**Lake Shamineau Lake Improvement District  
High Water Project  
Project Steps and Estimated Timeline for Completion\*\***

<b>Step</b>	<b>Description</b>	<b>Timeline (Estimated)</b>	<b>Estimated Cost</b>
1. Houston Feasibility Study	Defines recommended project and costs	Study complete 1/23/18	
2. LSLID votes on resolution	Orders project, pending County Board Approval	LSLID Board approved 4/21/18	
3. Morrison County Board votes on project and budget	County Board resolution to proceed	Fall 2018	
4. Surveying, Permitting/Environmental Review and Preliminary Design Tasks	<ul style="list-style-type: none"> <li>• Preliminary design and survey of Co Ditch 41 and Fish Trap Creek, culverts, lake and wetland outfalls;</li> <li>• Wetland delineation, assessment and impacts; water quality assessments; and CO Ditch 41 engineering and petition;</li> <li>• Detailed Hydrologic and Hydraulic analysis;</li> <li>• 80% of Operation and Maintenance Plan</li> </ul>	<i>(est. 5 months) April – August 2019 (Note: this assumes that funding will not be available until 2019. Since initial work may not be completed during winter months, April was used as the start month.)</i>	\$70,000
5. Surveying, Permitting/Environmental Review, Preliminary Design Tasks	<ul style="list-style-type: none"> <li>• Legal Survey</li> <li>• Permit applications, conditional use, hearings</li> <li>• MnDOT, Counties and Twp Utility Agreements</li> <li>• Final Permit coordination</li> <li>• Geotechnical evaluation, electrical</li> <li>• Design final alignment/corridor</li> </ul>	<i>(est. 3 months) August – October 2019</i>	\$60,000
6. Final Design, Plans and Specification Tasks	<ul style="list-style-type: none"> <li>• Right of Way</li> <li>• Finalize Plans and Specifications</li> <li>• Bidding Process and Construction Schedule</li> <li>• Project Administration</li> </ul>	<i>(est. 4 months) October 2019 – January 2020</i>	\$230,000
7. Construction Process	<p>Three step construction process:</p> <ol style="list-style-type: none"> <li>1. Construction and Startup Operations</li> <li>2. Site grading, turf establishment, and final cleanup</li> <li>3. Pumping operations (receiving water conditions will dictate ability to pump in the late spring)</li> </ol>	<i>(12 – 17 months) January 2020 – March 2021 March 2021 – June 2021  May/June 2021</i>	\$2,390,000

**\*\*Estimated timeline uses April 1, 2019 as the beginning of engineering tasks due to funding availability, and weather conditions. Actual timeline will depend on timeframe for receipt of funds, permitting, right of way easements, weather, and other unforeseeable conditions. The maximum estimated cost for the project remains at \$2,750,000.**