



**LOWER MINNESOTA RIVER  
WATERSHED DISTRICT**

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**2021 Annual Report**  
**December 2022**

# Lower Minnesota River Watershed District

## 2021 Annual Report

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LOWER MINNESOTA RIVER  
WATERSHED DISTRICT



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## Executive Summary



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

## Executive Summary: 2021 Annual Report

### 2021 Activities & Achievements

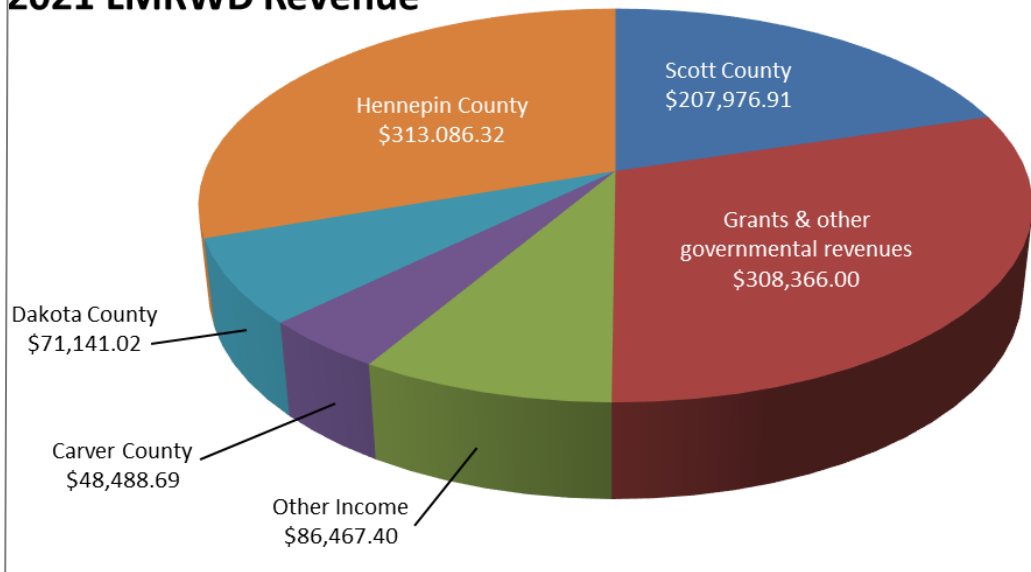
This Executive Summary highlights the Lower Minnesota River Watershed District's (LMRWD) work and accomplishments during its fiscal year 2021 (January 1, 2021—December 31, 2021) in the following areas: Nine-foot Channel, Plan Implementation Activities, Water Quality Activities and Education Activities. The LMRWD activities and projects are guided by its *Watershed Management Plan* (Plan). In 2021, the LMRWD continued implementation of its comprehensive Watershed Management Plan, which was unconditionally approved by the MN Board of Water & Soil Resource, September 25, 2018 and adopted by the LMRWD Board, October 24, 2018.

### Watershed Plan Activities

The LMRWD continued to implement the goals of its plan. In 2021 the LMRWD:

- Continued rule implementation;
- Approved municipal permits for the cities of Shakopee and Carver;
- Continued gully inventory by identifying and assessing gullies and ravines south of the Minnesota River;
- Reviewed and approved the local water management plans and/or comprehensive plans for multiple cities within the LMRWD; and
- Received the final report of nonylphenol and its ethoxylates from the Freshwater Society.

### 2021 LMRWD Revenue



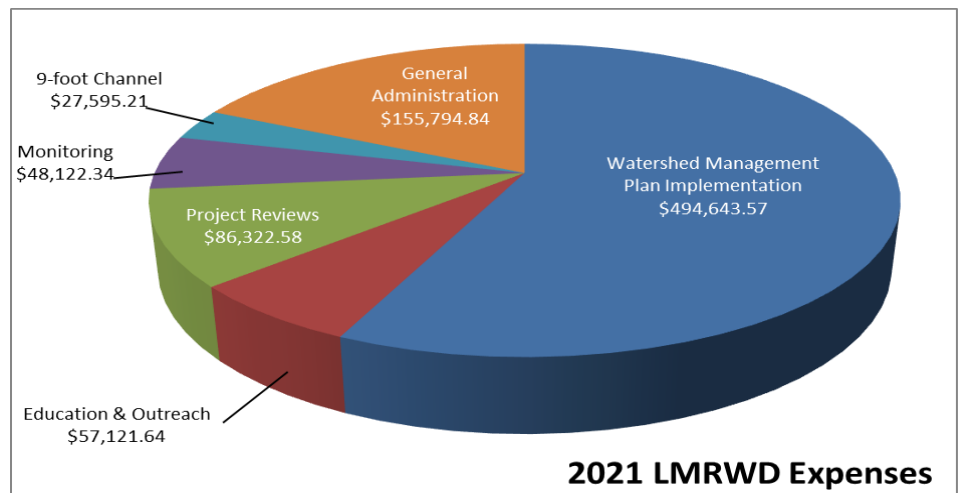
In FY 2021, levy revenues totaled \$635,303.27, divided among four counties as shown by the chart at left. Other Income was derived from license fees from industry for storage of private dredge material on the Vernon Avenue dredge site, grants and permit fees. For more information on the LMRWD's FY 2021 revenue, see the Financial Information in Appendix A of the Annual Report.

## Nine-foot Channel Achievements

The LMRWD is unique among Watershed Management Organizations in the State of Minnesota. It is the only Watershed District charged with acting as a local sponsor, responsible for working with the US Army Corps of Engineers to maintain the 9-foot navigation channel in the Minnesota River. In 2021, the District successfully:

- Completed the improvement project at the Vernon Avenue dredge material placement site to bring the site up to industry standards for placement and storage of dredge materials;
- Accepted 29,036 CY of material dredged from private barge terminals;
- Accepted 25,438 CY of material dredged from the navigation channel;
- Participated with MnDOT stakeholder engagement for proposed TH 13 transportation improvement affecting access to the dredge material placement site;
- Met with MnDOT engineers to plan stormwater BMPs for TH 13 transportation improvements; and
- Coordinated with MnDOT to ensure access to the dredge site during construction of transportation improvements planned for TH 13.

In FY 2021, the LMRWD spent a total of \$494,643.57 to implement the LMRWD's Watershed Management Plan identified in the Section 4 of the Plan and approximately \$374,956.61 on its other activities, including \$27,595.21 to maintain the 9' Navigation Channel. For an itemization or more information on the LMRWD's FY 2021 expenditures, see the Financial Information in Appendix A of the Annual Report



## Water Quality Activities

In 2021, the LMRWD addressed water quality issues by doing the following:

- Performing monitoring for water quality on Eagle Creek, a designated trout stream in Scott County, in cooperation with the Metropolitan Council Environmental Services Watershed Outlet Monitoring Program and the Scott County Soil & Water Conservation District;
- Monitoring water levels in observation wells in Savage, Seminary, Nichols, Black Dog, Fort Snelling and Quarry Island Fens;
- Continuing Chloride monitoring ;
- Monitoring water quality and flow of East and West Chaska Creeks;
- Monitoring water quality and flow of Dean Lake;
- Monitoring water quality of Courthouse, and Brickyard lakes;
- Reporting sediment monitoring data on the Minnesota River; and
- Continuing riverbank stabilization work in Eden Prairie at Minnesota River Study Area #3.

## Education Activities

In 2021, the LMRWD addressed water quality issues by doing the following:

- Retaining an education and outreach coordinator;
- Appointing a Citizens Advisory Committee;
- Developing and implemented a social media plan;
- Approving three cost-share projects for a total of \$10,000;
- Hosting a watershed tour for the Board of Managers and Citizens Advisory Committee;
- Funding work by Coalition for a Clean Minnesota River for a state-wide Water Storage Initiative;
- Beginning the development of interpretive signage at LMRWD projects and high-value resource sites; and
- Posting agendas and minutes of Board of Managers meetings on the LMRWD website.



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## I. Annual Activity Report





# LOWER MINNESOTA RIVER WATERSHED DISTRICT

This report covers the Lower Minnesota River Watershed District’s (LMRWD) activities for the fiscal year 2021 (January 1, 2021–December 31, 2021). The LMRWD Annual Report was prepared to meet the annual reporting requirements set forth in Minnesota Statutes Annotated 103B.231 Subd. 14, 103D.351, and Minnesota Rules Chapter 8410.0150.

## A. Board of Managers

The LMRWD is governed by a Board of Managers appointed by the county commissioners of each respective county (Carver, Dakota, Hennepin, and Scott) for a term of three years. Managers can be reappointed. Each county is entitled to appoint one manager. Hennepin County appoints two. It is the job of the Board of Managers to preside over the business of the LMRWD as it pursues the goals contained in the Watershed Management Plan. The following reflects the managers appointed and officers elected at the meeting held on September 15, 2021:

Lauren Salvato Secretary Carver County	Term Expires: Email: Address:	2/28/2023 laurenrsalvato@gmail.com 315 North Cedar Street Chaska, MN 55318
Laura Amundson (appointed 4/2021) Treasurer Hennepin County	Term Expires: Email: Address:	2/28/2024 jlamu107@gmail.com 10717 Hopkins Road Bloomington, MN 55420
Patricia Mraz (appointed 4/2021) Vice President Dakota County	Term Expires: Email: Address:	2/28/2024 pattymraz@gmail.com 15505 Gateway Path Apple Valley, MN
Adam Frey Hennepin County	Term Expired:	2/28/2021
David Raby Assistant Treasurer Hennepin County	Term Expires: Email: Address:	2/28/2024 dave.raby@aol.com 19315 102nd Place Corcoran, MN 55374
Jesse Hartmann President Scott County	Term Expires: Email: Address:	2/28/2023 jessehartmann@hotmail.com 201 Appleblossom Lane W Shakopee, MN 55379

## B. LMRWD Consultants

All LMRWD staff is hired on a contract basis. The administrator implements the policies set by the Board of Managers in the Watershed Management Plan; oversees the daily operations of the LMRWD; and coordinates the activities of the engineering consultant, legal counsel, financial services provider, auditor, and dredge site operations manager. The LMRWD contracts with an outside accounting firm to perform its annual financial audit as required under Minnesota Statute 103D.355.

<p><b><u>Administrator</u></b></p> <p>Linda Loomis          Naiad Consulting, LLC          6677 Olson Highway          Golden Valley, MN 55427          (763) 545-4659  <a href="mailto:naiadconsulting@gmail.com">naiadconsulting@gmail.com</a></p>	<p><b><u>Engineer/Technical</u></b></p> <p>Della Schall Young, PMP, CPESC          Young Environmental Consulting Group, LLC  <u>2021 Addresses:</u>          915 Mainstreet          Suite 4000          Hopkins, MN 55343</p> <p>6040 Earle Brown Drive          Suite 306          Brooklyn Center, MN 55430          (651) 249-6974  <a href="mailto:della@youngecg.com">della@youngecg.com</a></p>	<p><b><u>Legal Counsel</u></b></p> <p>John C. Kolb          Rinke Noonan          1015 St. Germain Street          Suite 300          St. Cloud, MN 56303          (320) 251-6700  <a href="mailto:jkolb@rinkenoonan.com">jkolb@rinkenoonan.com</a></p>
<p><b><u>Auditor</u></b></p> <p>Andy Hering (FY 2020)          Danielle Bokern Redpath and Company          4810 White Bear Parkway          White Bear Lake, MN 55110          (651) 426-7000  <a href="mailto:ahering@redpathcpas.com">ahering@redpathcpas.com</a></p> <p>Charles Avemo (FY 2021)          Global Portfolio Consulting, LLC          7625 Metro Boulevard          Suite 120          Edina, MN 55439          (612) 964-0938  <a href="mailto:camevo02@gmail.com">camevo02@gmail.com</a></p>	<p><b><u>Accounting Services</u></b></p> <p>David Frischmon          Mary Kaye Wahl          Brandon Zabel          Carver County Financial Services Division          600 East 4th Street          Chaska, MN 55318          (952) 361-1506  <a href="mailto:dfrischmon@co.carver.mn.us">dfrischmon@co.carver.mn.us</a>  <a href="mailto:mwahl@co.carver.mn.us">mwahl@co.carver.mn.us</a>  <a href="mailto:bzabel@co.carver.mn.us">bzabel@co.carver.mn.us</a></p> <p>Christopher Knopik          Clifton Larsen Allen, LLP          220 South Sixth Street          Suite 300          Minneapolis, MN 55402          (612) 397-3266  <a href="mailto:christopher.knopik@claconnect.com">christopher.knopik@claconnect.com</a></p>	<p><b><u>Legislative Liaison</u></b></p> <p>Lisa Frenette          Frenette Legislative Advisors          1734 Blair Avenue          St. Paul, MN 55104          651-785-5202  <a href="mailto:frenettela@gmail.com">frenettela@gmail.com</a></p>
<p><b><u>Dredge Site Operations</u></b></p> <p>Taylor Luke          LS Marine          3000 Centerville Road          Suite D          St. Paul, MN 55117          (651) 653-6307</p>		



## C. LMRWD Technical Advisory Committee

The Technical Advisory Committee (TAC) includes representatives of cities, counties, and government agencies. It provides technical advice on projects and programs to the LMRWD. The Board of Managers annually appoints members to the TAC. Staff from agencies or local government units are welcome to join its meetings.

The TAC did not meet in 2021 because of the COVID-19 health emergency.

Name	Representing
Bryan Gruidl, Steve Gurney, Jack Distel	City of Bloomington
Daryl Jacobson, Ryan Peterson, Jen Desrude	City of Burnsville
Aaron Schmidt, Bob Bean, Chad Shell	City of Carver
Charley Howley, Joe Seidl	City of Chanhassen
Matt Clark, Dan Edgerton, Brent Alcott	City of Chaska
Eric MacBeth	City of Eagan
Patrick Sejkora, Lori Haak, Rod Rue	City of Eden Prairie
Ryan Ruzek, Krista Spreiter	City of Mendota Heights
Jesse Carlson, Seng Thongvanh	City of Savage
Steve Lillehaug, Kirby Templin	City of Shakopee
Mike Wanous	Carver County Soil & Water Conservation District
Paul Moline, Andrew Edgcumbe, Tim Sundby	Carver County Water Management Organization
Lindsey Albright, Brian Watson, Curt Coudron	Dakota County Soil & Water Conservation District
Karen Galles	Hennepin County
Vanessa Strong	Scott County Water Management Organization
Troy Kuphal	Scott County Soil & Water Conservation District
Joe Mulcahy	Metropolitan Council Environmental Services
Jennifer Gora, Marisa Trapp	Metropolitan Airport Commission
Greg Genz	Upper Mississippi Waterway Association
Steve Christopher	MN Board of Water & Soil Resources
Mark Nemeth, Jennie Skancke, Taylor Huiniker	MN Department of Natural Resources
Bryan Spindler, Brittany Faust	MN Pollution Control Agency
Beth Neuendorf	MN Department of Transportation
Stacy Boone, Scott Walz	Shakopee Mdewakanton Sioux Community
Melissa Jenny, Daniel DeVaney, Marissa Merriman	US Army Corps of Engineers
Sarah Inouye, Vicki Sherry	US Fish & Wildlife Service

## D. LMRWD Citizen Advisory Committee

The LMRWD reestablished its Citizen Advisory Committee (CAC) in February 2021. The CAC is a group of community members that advises the Board of Managers regarding citizen interests. The five CAC members went through orientation and drafted its bylaws, which the Board of Managers approved in April 2021. Starting in May 2021, monthly meetings took place both in-person and virtually through the end of the year. **Meetings are ongoing and scheduled for the first Tuesday of every month at 9:00 a.m.** The CAC developed three resident educational handouts that have been shared using the LMRWD website and will be brought to community events. Those handouts include (1) Introduction to the LMRWD, (2) Introduction to Rain and Native Plants, and (3) Introduction to Steep Slopes.

Member	Role
Judy Berglund	Member
Craig Diederichs	Chair
Greg Genz	Member
Jenny Karkowski	Vice-Chair
Theresa Kuplic	Secretary

## E. LMRWD Goals

The LMRWD’s general goals fall under the categories of organizational management, surface water and groundwater management, unique natural resource management, wetland management, flood and floodplain management, erosion and sediment control, and public education and outreach. The Watershed Management Plan (Plan), adopted in 2018, incorporated a new emphasis on protecting unique resources within the LMRWD, such as trout waters, calcareous fens, and steep slopes.

Unlike other water management programs in the state subject to M.S. 103B, the LMRWD has an additional purpose to assist and facilitate the efforts of state and federal agencies to maintain the Minnesota River Nine-Foot Channel for commercial and recreational navigation.

These specific goals are identified in the Plan:

- Manage the different roles of the LMRWD
- Protect, improve, and restore surface water quality
- Protect and promote groundwater quality and quantity
- Protect and manage unique natural resources
- Protect and preserve wetlands
- Manage floodplains and mitigate flooding
- Manage erosion and control sediment discharge
- Maintain and improve navigation and recreational use of the Lower Minnesota River
- Increase public participation and awareness of the unique natural resources of the Minnesota River
- Encourage other local government units to include information about the LMRWD in their water resources-related documents

## F. 2021 LMRWD Work Activities

The LMRWD continues to implement its Capital Improvement Program (CIP) found in the Plan, including dredge management of the nine-foot channel. Several projects received grant funding from the BWSR, which the LMRWD will pass on to the cities responsible for project implementation. This BWSR

watershed-based funding grant program requires a 10% match. Below are the CIP's achievements for 2021. Staff continued to work with cities on their updates of local water management plans and ordinances. Work related to water quality monitoring is addressed in Section H.

### **LMRWD Capital Improvements Program**

- **Area 3**—An area along the Minnesota River in Eden Prairie is prone to slope failure. The LMRWD retained Inter-Fluve to evaluate previous recommendations to stabilize this area. In 2021, the LMRWD received BWSR funding once it became clear that more than slope stabilization is necessary to prevent future failure of the area. The LMRWD will work with the city of Eden Prairie to develop a comprehensive plan for this area, and the partnership will complete a request for financial assistance from the state of Minnesota.
- **Downtown Shakopee BMP Study**—This project analyzed existing stormwater systems in downtown Shakopee to identify opportunities to implement BMPs before stormwater is discharged into the Minnesota River. This project will receive funding from the BWSR.
- **East Chaska Creek**—The LMRWD worked with the city of Chaska to stabilize East Chaska Creek between Crosstown Boulevard and CSAH 61/Chaska Boulevard to mitigate sediment transport to the Minnesota River. This project received funding from the BWSR's Metro Area Watershed-Based Funding Pilot Program. The LMRWD also included \$200,000 from its 2016 annual budget.
- **Fens Gap Assessment**—In the LMRWD, fens are high-value resource areas that require special consideration and protection. Six calcareous fens have been identified within the LMRWD. The District completed an assessment to identify gaps in existing fen information while recommending the need for better data collection and information and outlining a long-term comprehensive plan.
- **Gully Report**—Students from a hydrology and water quality fields methods class at the University of Minnesota participated in a field data collection opportunity as part of a class assignment with the LMRWD. The students identified potential gully locations using GIS software and then assessed potential gully areas and conditions in the field. As part of Phase II, Young Environmental Consulting Group LLC employed two interns who completed a summer project on gully inventory and assessment. The interns found 257 new gullies, which were broken down into low, moderate, and high priority corresponding to the erosion potential of each site. This program began in the summer of 2020.
- **Minnesota River Corridor Management Plan (MRCMP)**—The MRCMP began in 2020 and will bring together the LMRWD and key stakeholders to examine issues facing the river's complex natural system, which is a shared resource and place where varied interests and other systems converge. A draft management plan will ultimately be developed to (1) enhance understanding of the Lower Minnesota River Corridor and its landscape, (2) demonstrate a desired future for the river and how change in the surrounding landscape can help attain this future, (3) suggest a structure or framework by which the vision can be implemented, and (4) identify shared community and public values that form the basis of the project.
- **Prior Lake Outlet Channel Realignment**—This project includes a feasibility study to determine potential water quality benefits to Dean Lake that would result from restoration of the Prior Lake Outlet Channel, including altering the alignment (creating meanders) and constructing a flow-through wetland complex to slow water flow. Funds will also be targeted toward the construction of identified

activities/BMPs that will benefit water quality in Dean Lake and, subsequently, the Minnesota River downstream. This project will receive BWSR funding.

- **Schroeder's Acres Park**—The Schroeder's Acres Park project, located in the city of Savage, will look at the potential impact that stormwater ponds in the park have on the nearby trout stream Eagle Creek. Trout streams can be extremely temperature-sensitive. The City of Savage identified this project for funding under the 2018 Metro Area Watershed-Based Funding Pilot Program. The city received the funding as reimbursement after the project was complete. \$60,000 was authorized to Savage, with the 10% match paid by the city.
- **Spring Creek Project**—The LMRWD has been investigating erosion along Spring Creek in the City of Carver. Residents in the area reached out to the LMRWD because of impacts to private property. The Carver Soil & Water Conservation District and LMRWD prepared plans for two properties to stabilize the creek bank. The properties could be eligible for LMRWD cost-share projects; however, the cost of stabilizing the properties would exceed the limits of the cost-share program. The City of Carver has expressed interest in assessing the hydrology of Spring Creek and impacts of land-use changes within the Spring Creek watershed. The LMRWD Board of Managers authorized staff to prepare a more in-depth study of the Spring Creek watershed.
- **Willow Creek Stabilization**—Willow Creek is a drainageway in the City of Burnsville—located outside the LMRWD boundary—that ultimately drains into the Lower Minnesota River. The LMRWD authorized \$75,000 to the city of Burnsville to support the Willow Creek ravine stabilization project, which will annually prevent 25,000 pounds of phosphorous and 45,000 pounds of sediment from entering the Minnesota River.

### **Partner-Led Capital Improvement Projects**

The LMRWD continued to support partners in their efforts to further the goals of the LMRWD. In 2021, the LMRWD provided the following support:

- **Amazon Fulfillment Center**—Stormwater from the Amazon distribution site in Shakopee flowed into a culturally sensitive area within Murphy's Landing. The city of Shakopee planned a project to divert the water and stabilized a ravine to accept the additional water at a cost of \$35,000. The LMRWD authorized reimbursement to the city of Shakopee for costs incurred during ravine stabilization.
- **City of Carver's Levee**—The City of Carver's levee is no longer certified by the US Army Corps of Engineers or the Federal Emergency Management Agency. The levee is not guaranteed protection from flooding. The LMRWD contributed \$75,000 to the City of Carver for a project to help them achieve a 1:1 match for a \$150,000 Flood Hazard Mitigation grant from the Minnesota Department of Natural Resources. Preliminary work will prepare the levee for construction and includes geotechnical investigations, surveys, and easement acquisitions.

### **Nine-Foot Channel Dredge Management**

The LMRWD is the local sponsor for the nine-foot navigation channel (the channel), which extends from the confluence of the Minnesota River and Mississippi upstream to the River Mile Post (RMP) 14.7. As the local sponsor, the LMRWD must provide locations for the storage and disposal of material dredged from the river to maintain navigation. The LMRWD owns and operates a dredge material placement site at RMP 14.2 (12020 Vernon Avenue South) in the City of Savage.

In 2015, the LMRWD adopted Resolution 15-12, initiating proceedings to permanently modify the

channel through the acquisition of a disposal site and development of a project. This resolution made management of dredge material a permanent CIP project of the LMRWD.

In 2017, the LMRWD was successful in obtaining state funding to assist with its role as local sponsor in managing dredge material. The LMRWD received an appropriation through BWSR of \$480,000 for the biennium.

In 2019, the LMRWD developed plans and acquired permits to bring the dredge material placement site up to industry standards for storage of dredge materials. The project was constructed in the fall of 2020, with final vegetation scheduled for spring 2021. The project established two storage areas, one for storage of dredge from the main channel and another for containment, allowing for the placement of dredge material from private barge terminals.

License agreements with private terminal operators remained in effect in 2022. The following activities occurred regarding the LMRWD Dredge Site:

- The US Army Corps of Engineers dredged Peterson’s Bar in July and placed 24,505 cubic yards of new material from the nine-foot navigation channel on the site; and
- 29,036 cubic yards of private dredge material were placed on the site in 2021.

### **Local Plan Adoption**

All municipalities were required to update local plans before December 31, 2018, in response to changes to Minnesota Rule 8410. The LMRWD reviews plans as it receives them. The following table is filled in as plans are adopted. The table is updated as plan updates and revisions are received, reviewed, and approved by the LMRWD for each municipality. In addition, the board authorized staff to begin work updating the rules to address certain types of projects, such as semi-impervious surfaces. The board also authorized staff to begin work on a minor plan amendment updating the LMRWD’s implementation program.

<b>Municipality</b>	<b>Date of Current Plan</b>	<b>Comments</b>
Mendota	April 2010	Water management is contained in the City of Mendota’s Comprehensive Plan under the chapter titled Plan for Public Facilities. The plan refers to Section 809 of City Code.
Savage	June 2011	The City of Savage is in the process of updating its Local Surface Water Management Plan.
Lilydale	December 2013	On October 24, 2018, the LMRWD adopted Resolution 18-17, conditionally approving the Local Surface Water Management Plan for the City of Lilydale.
MSP Airport, Flying Cloud Airport	SWPPP Revised May 2015	The MSP Airport and Flying Cloud Airport are both within the boundaries of the LMRWD. They are permitted MS4s and are required to have a stormwater pollution prevention plan (SWPPP).
Burnsville	November 2017	On September 20, 2017, the LMRWD adopted Resolution 17-10, approving the Burnsville Local Surface Water Management Plan.

Municipality	Date of Current Plan	Comments
Chanhassen	January 2018	On April 18, 2018, the LMRWD adopted Resolution 18-03, conditionally approving the Local Surface Water Management Plan for the City of Chanhassen.
Bloomington	June 2018	On April 18, 2018, the LMRWD adopted Resolution 18-04, conditionally approving the Local Surface Water Management Plan for the City of Bloomington.
Mendota Heights	July 2018	On September 17, 2018, the LMRWD adopted Resolution 18-12, approving the Mendota Heights Local Surface Water Management Plan.
Chaska	November 2018	On April 18, 2018, the LMRWD adopted Resolution 18-02, conditionally approving the Local Surface Water Management Plan for the City of Chaska.
Carver	December 2018	On November 19, 2018, the LMRWD adopted Resolution 19-02, conditionally approving the Local Surface Water Management Plan for the City of Carver.
Eagan	January 2019	On October 24, 2018, the LMRWD adopted Resolution 18-15, conditionally approving the Storm Water Management Plan for the City of Eagan.
Shakopee	November 2019	On December 18, 2019, the LMRWD adopted Resolution 19-03, conditionally approving the Local Surface Water Management Plan for the City of Shakopee.
Eden Prairie	December 2020	On September 21, 2016, the LMRWD adopted Resolution 16-07, approving the Local Surface Water Management Plan for the City of Eden Prairie.

## **Administrative Items**

**Resolutions**—The LMRWD passed thirteen resolutions in 2021. Copies of the resolutions are included in Appendix B.

**Legislative Action**—Frenette Legislative Advisors continues to represent the LMRWD at the Minnesota Legislature. There were several highlights at the legislature in 2021. The first was the passage of HF 1621/SF 1841 to continue language from 2019 regarding an appropriation to manage dredge material on the Minnesota River. This modification allowed the LMRWD to use money appropriated for dredge for the Seminary Fen ravine stabilization project. This passed, and the state transferred \$111,000 of BWSR funds to the project. The second, HF 1799/SF 1288, will continue to appropriate money to the LMRWD for dredge material management. This will provide \$2,400,000 of funding per year to the Dredge Maintenance Funding account.

**Coalition for a Cleaner Minnesota River**—In 2019, the LMRWD agreed to provide matching funds of \$10,000 over two years (\$5,000 per year) to help pass legislation for water storage projects in the Upper Minnesota River Basin. This will reduce sediment and nutrients from erosion in the Minnesota River from contributing to the anoxic zone in the Gulf of Mexico. In 2021, the state appropriated \$2 million to establish a new program to fund the development and demonstration of a water storage program, beginning with the Minnesota River Watershed. The LMRWD agreed to provide matching funds for another two years (up to \$5,000 per year) to get federal funding for the program.



## Impaired Waters and Total Maximum Daily Loads (TMDL) Studies

The following waterbodies in the LMRWD are listed in the Minnesota Pollution Control Agency's (MPCA) 2020 Impaired Waters List (List). The inventory includes listings of (1) impaired waters that require the development of a TMDL study, (2) impaired waters that have an approved TMDL study but are not yet meeting water quality standards, and (3) waters impaired from natural causes that do not require a TMDL study. The inventory is available at the [MPCA's Impaired Waters website](#). There were no changes to the listings of impaired waters in the LMRWD between the 2018 list and the 2020 list.

The following waterbodies have been delisted by the MPCA for the respective impairments: Nine Mile Creek, headwaters to Minnesota River, turbidity (2010); Minnesota River RM 22 to Mississippi River, fecal coliform (2012); Credit River, headwaters to Minnesota River, turbidity (2012).

<b>Waterbody (Lake/River ID#)</b>	<b>Pollutant or Stressor (Year of Listing)/TMDL Status</b>
<b>Assumption Creek</b> —Headwaters to MN River (07020012-582)	Fish bioassessments (2018)/TMDL target completion year 2028
<b>Bluff Creek</b> —Headwaters to Rice Lake (07020012-710)	Fish bioassessments (2004)/TMDL-approved 2013 Turbidity (2002)/TMDL-approved 2013
<b>Carver Creek</b> —MN Hwy 284 to MN River (07020012-806)	Benthic macroinvertebrate bioassessments (2018)/TMDL target completion year 2028 Fish bioassessments (2018)/TMDL target completion year 2028 Nutrients (2016)/TMDL-approved 2020 Turbidity (2002)/TMDL-approved 2012 Fecal coliform (2002)/TMDL-approved 2007
<b>Chaska Creek</b> —Creek Rd to MN River (07020012-804)	Fecal coliform (2006)/TMDL-approved 2020
<b>Credit River</b> —93.3526, 44.7059 to MN River (07020012-811)	Benthic macroinvertebrate bioassessments (2018)/TMDL target completion year 2028 Chloride (2018)/TMDL-approved 2020 Fish bioassessments (2018)/TMDL target completion year 2028 Escherichia coli (2018)/TMDL-approved 2020
<b>Eagle Creek</b> —Headwaters to MN River (07020012-519)	Escherichia coli (2018)/TMDL-approved 2020
<b>East Chaska Creek</b> —Unnamed creek to MN River (07020012-581)	Benthic macroinvertebrate bioassessments (2018)/TMDL target completion year 2028 Fish bioassessments (2004)/TMDL target completion year 2028 Turbidity (2008)/TMDL-approved 2020 Fecal coliform (2006)/TMDL-approved 2020
<b>Minnesota River:</b> Segment 1; High Island Cr to Carver Cr (07020012-800) Segment 2; Carver Creek to RM 22 (07020012-506) Segment 3; RM 22 to Mississippi River (07020012-505)	<b>Segments 1, 2, and 3</b> Mercury in fish tissue (1998) <sup>1</sup> /TMDL-approved 2008 Mercury in water column (1998) <sup>1</sup> /TMDL-approved 2008 PCB in fish tissue (1998) <sup>2</sup> /TMDL target completion year 2033 Nutrients (2016)/TMDL target completion year 2028

Waterbody (Lake/River ID#)	Pollutant or Stressor (Year of Listing)/TMDL Status
	Turbidity (1996)/TMDL-approved 2020 <b>Segment 1</b> Fecal coliform (2002)/TMDL-approved 2019 <b>Segment 3</b> Dissolved oxygen (1998)/TMDL-approved 2004
<b>Nine Nile Creek</b> —Unnamed wetland to MN River (07020012-809)	Benthic macroinvertebrate bioassessments (2018)/TMDL target completion year 2028 Chloride (2004)/TMDL-approved 2010 Fish bioassessments (2018)/TMDL target completion year 2028 Escherichia coli (2018)/TMDL-approved 2020
<b>Prior Lake Outlet Channel</b> —Dean Lake to Blue Lake (07020012-728)	Benthic macroinvertebrates bioassessments (2018)/TMDL target completion year 2028 Fish bioassessments (2018)/TMDL target completion year 2028
<b>Purgatory Creek</b> —Staring Lake to MN River (07020012-828)	Benthic macroinvertebrate bioassessments (2018)/TMDL target completion year 2028 Escherichia coli (2018)/TMDL-approved 2020
<b>Riley Creek</b> —Riley Lake to MN River (07020012-511)	Benthic macroinvertebrate bioassessments (2018)/TMDL target completion year 2028 Fish bioassessments (2018)/TMDL target completion year 2028 Turbidity (2002)/TMDL-approved 2020 Escherichia coli (2018)/TMDL-approved 2020
<b>Snelling Lake</b> (27-0001-00)	Mercury in fish tissue (1998)/TMDL-approved 2007
<b>Spring Creek</b> —Headwaters to MN River (07020012-528)	Fecal coliform (2006)/TMDL-approved 2020

<sup>1</sup> The MPCA completed a statewide mercury TMDL that was approved in 2008. Permit limits and monitoring requirements are required to be in accordance with the mercury permit.

<sup>2</sup> Polychlorinated biphenyls (PCBs) are regulated by the Toxic Substance Control Act that includes, among others, prohibitions on the manufacture, processing, and distribution in commerce of PCBs, which led to “cradle-to-grave” management of PCBs.

- **Bluff Creek, Carver Creek, Chaska Creek, Credit River, East Chaska Creek, Nine Mile Creek, Prior Lake Outlet Channel, and Riley Creek**—The majority of the watersheds of each of these waterbodies lie outside the boundaries of the LMRWD. Only the final reach, before it reaches the Minnesota River, lies within the LMRWD.
- **Assumption Creek, Eagle Creek, and Spring Creek**—Each of these waterbodies fully lies within the boundaries of the LMRWD.
- **Minnesota River**—The lower twenty-two miles of the Minnesota River is impaired due to dissolved oxygen. The river is impaired due to fecal coliform bacteria from High Island Creek to Carver Creek. The entire reach from High Island Creek to the Mississippi River is impaired due to turbidity, PCBs in fish

tissue, mercury in fish tissues, and mercury in the water column. In 2016, an impairment was added for nutrients/eutrophication biological indicators from High Island Creek to the Mississippi River.

The Minnesota River is a major source of phosphorus and sediment in the Mississippi River, which contributes to degradation of water quality downstream, especially Pool 2 in St. Paul and Lake Pepin. In 2021, the Environmental Protection Agency (EPA) approved the Lake Pepin and Mississippi River Eutrophication TMDL Report. The EPA prepared and approved the South Metro Mississippi River Total Suspended Solids TMDL Report in 2016. Both documents cite the Minnesota River as a source of impairments.

The Lower Minnesota River Watershed TMDL Report (Parts I, II, and III) was approved by the EPA in 2020.

The Lower Minnesota River Dissolved Oxygen TMDL Report was prepared and approved by the EPA in September 2004. The Minnesota River Basin General Phosphorus Permit was developed to address the reductions necessary from point sources identified in the TMDL.

- **Snelling Lake**—Snelling Lake is a floodplain lake within Fort Snelling State Park.
- **Lower Minnesota River Watershed Restoration and Protection Strategy (WRAPS)**—In 2014, the MPCA began developing a WRAPS report for the Hydrologic Unit Code 8 (HUC 8), identified as the Lower Minnesota River Watershed. This WRAPS has been split into two unique tracks based on land use within the HUC 8: one for the urban/suburban Twin Cities metropolitan area and one for the predominantly agricultural area of the HUC 8. The MPCA approved this report in 2020.

## G. 2021 Rules Implementation

### Municipal Permits

It is the District’s policy that project review and permitting by the LMRWD is redundant, and regulation is more appropriately performed by local units of government with land use authority. With the adoption of the Plan, the LMRWD developed rules and a permitting program whereby the LMRWD would issue municipal permits to cities with land use authority. Municipalities had until May 1, 2020, to bring their local controls into conformance with the LMRWD Plan and apply for a municipal permit through the LMRWD. This deadline was extended to September 1, 2020, in part because of the stay-at-home Minnesota order issued by the governor in March of 2020.

Cities may apply for a municipal permit from the LMRWD. When an application is received for a municipal permit, the LMRWD will review official controls to ensure conformance with the LMRWD Plan. If official controls are in order, a municipal permit will be issued. Municipal permits have been issued to the cities of Carver (February 2021), Shakopee (November 2021) Mendota Heights (December 2020), Eagan (December 2020), and Bloomington (December 2020). The focus in 2022 will be to permit the cities of Burnsville, Chanhassen, and Savage. The cities of Chaska and Eden Prairie have asked the LMRWD to continue to administer permits within their boundaries.

Project Name	Date Received	City/Agency	Project Type
City of Carver Municipal Permit	11/17/2020	City of Carver	Application for Municipal Permit

Project Name	Date Received	City/Agency	Project Type
City of Shakopee Municipal Permit	10/29/2021	City of Shakopee	Application for Municipal Permit

### **Individual Permits**

In 2021, the LMRWD reviewed and commented, as LMRWD staff deemed appropriate, on the following development/redevelopment projects within the LMRWD:

Project Name	Date Received	City/Agency	Project Type
10029 Trails End Road	1/4/2020	City of Chanhassen	Residential home construction
Shakopee Flats	8/31/2020	City of Shakopee	Amendment to existing permit to allow for foundation work
Mallard Farms, 16535 Flying Cloud Drive	1/30/2021	City of Eden Prairie	Construct barn and tool shed on private property
Southwest Logistics Center	2/11/2021	City of Shakopee	Industrial warehouse, parking lot, utility improvements, and stormwater management
CSAH 61 Drainage Improvements	2/21/2021	Chanhassen	Floodplain and drainage alterations
HCRRA Assignment of Maintenance Responsibility	2/22/2021	City of Chanhassen/ Carver County	Transfer of trail segment and maintenance responsibility
Burnsville Cemetery	3/19/2021	Burnsville	Cemetery expansion
2021 Utility Reconstruction	3/30/2021	Shakopee	Full-depth street and utility reconstruction
Canterbury Park	4/2/2021	Shakopee	Parking lot reconstruction
Summerland Place	4/8/2021	Shakopee	96-acre residential subdivision
Quarry Lake Outlet	4/9/2021	Shakopee	Construct outlet for Quarry Lake
Stagecoach Road Improvement	4/12/2021	Shakopee	Local transportation improvements
Whispering Waters	4/14/2021	Shakopee	Site grading, utilities, and street construction
Capstone 35	4/20/2021	Burnsville	Grading and utilities for office/warehouse construction
Jefferson Court	4/22/2021	Shakopee	2.5-acre residential subdivision
Cretex Site After-the-Fact Permit	4/26/2021	Shakopee	Interim grading for future construction
Spirit of Truth Church	5/12/2021	Burnsville	New construction of church
2021 Safety and Security Center Phase I	5/18/2021	MSP Airport	Construction of new fire station
West 106th Street Improvements	5/25/2021	Bloomington	Transportation improvements

Project Name	Date Received	City/Agency	Project Type
Hansen Avenue Watermain	6/10/2021	City of Shakopee	Public utilities
Trunk Highway 13	6/11/2021	MnDOT/Savage	Transportation improvements
Core Crossing Apartments	6/14/2021	City of Shakopee	Apartment building construction
Trunk Highway 55 (Bloomington Road to US 52)	6/30/2021	MnDOT	Transportation improvements
Trunk Highway 169 Pedestrian Bridge	6/29/2021	City of Shakopee	Wetland delineation
Caribou Coffee	7/9/2021	City of Savage	Redevelopment of existing building
Burnsville Park Jeep	7/9/2021	City of Burnsville	Building expansion and parking lot improvements
Burnsville Sanitary Landfill	7/14/2021	Burnsville	Environmental Impact Statement
Fort Snelling Upper Post Redevelopment Extension Request	7/17/2021	Fort Snelling/ Unincorporated Hennepin County	Rehabilitation of historic buildings for reuse as low-income housing
River Bluffs Improvement	7/23/2021	City of Shakopee	Construction of mixed-use development
Circle K/Holiday Station	7/26/2021	City of Savage	Construction of convenience store and fuel station
Canterbury Senior Living	8/12/2021	City of Shakopee	Construction of senior apartments
Minnesota River Greenway	8/17/2021	Dakota County/City of Eagan	Trail construction
Trunk Highway 41 & CSAH 61	8/19/2021	City of Chaska	Wetland delineation
Trunk Highway 13 & Lone Oak Road Signal Improvements	8/27/2021	MnDOT/City of Eagan	Installation of traffic signal, ADA, and drainage improvements
Junction35W &13, LLC	9/2/2021	City of Burnsville	Construction of concrete slab on existing parking lot surface
Xcel Energy Line 0832	9/7/2021	City of Burnsville	Replacement of existing transmission line
Triple Crown Residences Phase III	9/22/2021	City of Shakopee	24-acre 600-unit apartment development
Dakota LP (CenterPoint Energy)	9/27/2021	CenterPoint Energy/ City of Burnsville	Construction of natural gas pipeline
Stump Road Maintenance	10/21/2021	City of Bloomington	Maintenance of trail/emergency response
Spring Valley Circle & Wentworth Avenue South	10/27/2021	CenterPoint Energy/ City of Bloomington	Natural gas pipeline installation
Blue Lake Siphon	10/28/2021	Metropolitan Council Environmental Services	MCES interceptor site restoration

Project Name	Date Received	City/Agency	Project Type
		(MCES)/City of Eden Prairie	
Shakopee Dental Office	11/5/2021	City of Shakopee	Construction of dental office
MN Mash	11/12/2021	City of Savage	Construction of indoor training facility and outdoor athletic fields
Kraemer Quarry DNR application permit	12/5/2021	City of Burnsville	DNR Water Appropriation Permit—review and comment
Overlook Twin	12/7/2021	City of Bloomington	Construction of new two-family home
I-35W Ramps Realignment at Cliff Road	12/14/2021	City of Burnsville	Transportation improvement
Burnsville I-35W Trails	12/15/2021	City of Burnsville	Trail construction
2022 Perimeter Gate Security Improvements	12/16/2021	MSP Airport	Security improvements at MSP Airport

## H. 2021 Water Quality Monitoring Data and Studies

The following water quality monitoring and water quality studies were performed:

- Stream Monitoring at the Eagle Creek Monitoring Station**—Stream monitoring was performed in cooperation with the Metropolitan Council Environmental Services (MCES) as part of the Comprehensive Water Quality Assessment of Select Metropolitan Area Streams. The Scott Soil & Water Conservation District (SSWCD) performs monitoring activities at this station on behalf of the LMRWD. The 2021 annual report from SSWCD (including all data collected by the SSWCD on behalf of the LMRWD) can be found on the LMRWD website using this [link](#).

The Comprehensive Water Quality Assessment of Select Metropolitan Area Streams conducted by the Metropolitan Council, including monitoring results for Eagle Creek, can be found at this [link](#).

- Thermal Monitoring of Eagle Creek**—Eagle Creek is a designated trout stream. The LMRWD contracts the SSWCD to conduct thermal monitoring of Eagle Creek at multiple locations to ensure the creek can continue to support a healthy trout population. In 2021, the Metropolitan Council added equipment to the Eagle Creek monitoring station to monitor stream temperature. Data gaps in the 2021 temperature record occurred because one logger was reset, and the logger at another location failed. Thermal monitoring data for 2021 can be found in the report from the SSWCD to the LMRWD using this [link](#).
- Chlorides**—The LMRWD continues to monitor chloride ion concentrations at most sites when samples are collected.
- Water Level Monitoring in Savage Fen**—The LMRWD contracts with SSWCD to monitor nineteen wells within the LMRWD. Thirteen wells are within Savage Fen, four wells are across TH 13 from Savage Fen in the Eagle Creek area, and two deep wells are installed on the bluff above Savage Fen. There are two flowing wells located in Savage Fen that are part of the MN DNR’s observation well program. The data is used to assess groundwater resources, determine long-term trends, and allow for the interpretation of impacts to groundwater levels due to pumping and climate. All well data are entered into the MN



DNR's groundwater level database and can be accessed at: <https://www.dnr.state.mn.us/waters/cgm/index.html>.

- **Water Quality and Flow Monitoring at Dean Lake**—Dean Lake is connected to Prior Lake by way of the outlet channel that connects Prior Lake to the Minnesota River. The LMRWD contracts with SSWCD to monitor the channel as it enters Dean Lake for flow and water quality. Dean Lake was on the 303(d) impaired waters list. In 2016, the LMRWD requested that Dean Lake be reclassified from a shallow lake to a wetland. Dean Lake was removed from the 2018 303(d) impaired waters list and is now classified as a wetland. The LMRWD has continued monitoring water quality at the inlet because of the Prior Lake Outlet Channel's contribution to the Minnesota River.
- **Water Quality Monitoring of Courthouse and Brickyard Lakes**—These lakes are remnants of clay mining operations in the City of Chaska to manufacture Chaska Brick. They have small watersheds and relatively good water quality. Carver County Watershed Management Organization (CCWMO) monitors these lakes on behalf of the LMRWD for water quality. Monitoring information collected can be viewed on the CCWMO Water Quality website using this [link](#).
- **Water Quality and Flow Monitoring of Assumption Creek, Chaska Creek, and East Chaska Creek**—The LMRWD contracts with CCWMO to monitor these creeks for water quality and flow. Assumption Creek runs through Seminary Fen and is monitored as part of the fen complex. Assumption Creek is designated as a trout stream, and thermal monitoring is conducted downstream of the fen. Data from monitoring of Chaska Creek and East Chaska Creek can be found on the Carver County WMO website using this [link](#).
- **Water Level Monitoring in Seminary Fen**—Five nested shallow wells, four deep wells, and three stream sites are monitored by the CCWMO on behalf of the LMRWD. Groundwater elevation records consistently show the upward flow of fen-sustaining groundwater. All data can be found on the [DNR Cooperative Groundwater Monitoring website](#).
- **Water Level Monitoring Nichols, Black Dog, Fort Snelling, Quarry Island Fens**—These fens are all located in Dakota County and are predominantly within Fort Snelling State Park. Groundwater elevations in wells installed in and near these fens are monitored by the Dakota Soil and Water Conservation District and the Minnesota DNR. The MCES also monitors groundwater elevations near Nicols Meadow Fen, associated with its operation of the Seneca wastewater treatment plant. Groundwater elevation records for each of these fen complexes appear to be reliable indicators of the overall health of the fen vegetation. Two wells are located in Quarry Island Fen, thirteen in Fort Snelling Fen, and thirteen in Nichols Fen, for a total of twenty-eight wells. Data from this monitoring can be found on the LMRWD [website](#).
- **Sediment Monitoring of the Minnesota River**—Since 2011, the LMRWD has worked with the US Army Corps of Engineers and US Geological Survey (USGS) to conduct suspended sediment concentrations and bedload monitoring of the Minnesota River. In 2019, flooding washed away the pier at Fort Snelling, where doppler units were mounted to monitor sediment. The pier was constructed and owned by Metropolitan Council Environmental Services, which determined that the cost to replace the pier was too expensive. Partners were not willing to share the expense, so monitoring of sediment at this location was discontinued. A report was issued in February 2021 by USGS: "Estimation of suspended sediment at a discontinued stream gage on the lower Minnesota River at Fort Snelling State Park, Minnesota." There was an accompanying data release published in April 2021: "Suspended-sediment and sand concentrations, streamflow, acoustic data, linear regression models, and loads for the Lower Minnesota River, 2012–2019." The data release includes all the data used to build the

models and loads. Users can download the free software described in the data release, use the files in the data release, and compute loads for different time periods than the report.

- **Ike's Creek**—The LMRWD and US Fish & Wildlife Service began collecting chloride data for Ike's Creek in December 2017. A graduate student from the University of Minnesota collected samples. Samples were sent for analysis, which was funded by the LMRWD. In 2020, the LMRWD and US Fish & Wildlife Service asked the Metropolitan Council Environmental Services (MCES) to begin collecting samples and testing for chloride. The LMRWD entered into an agreement with MCES. The LMRWD entered into a cooperative agreement with the Friends of the Minnesota Valley Refuge (Friends) to fund the monitoring. Friends received a grant from Cargill that helped pay for the LMRWD expenses. Chloride levels appeared high, and in 2021, the LMRWD, MCES, and Friends began to test additional water quality parameters. Future efforts will focus on determining why chloride levels are high.
- **Minnesota River Study Area #3**—In 2010, the LMRWD installed inclinometers at RMP 19.6, near the intersection of Riverview Road and Mooer Lane in Eden Prairie to monitor the meander movement of the river channel. Prior to installation of the inclinometers, Wenck prepared a study of the meander movement of the river channel and various factors influencing erosion of the bluff for the City of Eden Prairie and the LMRWD. Inclinometers are checked annually, and the readings are shared with the City of Eden Prairie. In 2021, the LMRWD began work to stabilize the riverbank in this area.

## I. Watershed Communication/Public Education

In accordance with Minnesota Rules, Chapter 8410.0100, Subpart 4, the LMRWD utilized the following information sources for providing information to the general public:

- **Education and Outreach Staff**—In 2021, the LMRWD retained Young Environmental Consulting Group LLC (Young Environmental) to administer the 2020–2022 public education and outreach plan.
- **Website**—The look, functionality, and presentation of the LMRWD website was reviewed in 2021. Outside partners and the CAC provided comments that will be incorporated over time. View the current website at <http://lowermnriverwd.org/>.
- **LMRWD Meeting Packet**—Each month in 2021, the LMRWD emailed a link to the meeting agendas, minutes, and packet materials for each meeting to approximately seventy-three individuals.
- **Publications**—In 2021, the LMRWD published all public hearing notices in the *Minneapolis Star Tribune*.
- **Cost–Share Incentive and Water Quality Restoration Grant Program**—The LMRWD provides a program for residents, businesses, neighborhoods, and communities to apply for matching funds for projects intended to improve water quality and provide public education. This program requires a 50% match and will accept sweat equity and other in-kind costs as a match. The deadline for applications is May 15, and funding awards are given at the June LMRWD Board of Managers meeting. The LMRWD will continue to accept applications for the Cost–Share Grant Program throughout the year if funds are available. All projects approved under this program must be completed by November 1. In 2021, LMRWD included \$50,000 in its budget for this program. The LMRWD received applications for a total of \$17,000. All applications were approved. The 2021 projects are listed below:

Applicant	Address	Amount (50% of total)	Date Approved/Link
Jefferson High School Earth Corps	4001 W 102nd St, Bloomington	\$3,200	<a href="#">March 2021 Board Meeting</a>
Sarazine	11451 Landing Rd, Eden Prairie	\$2,500	<a href="#">April 2021 Board Meeting</a>
Appletree Condominiums	8212 Quinn Rd, Bloomington	\$7,500	<a href="#">September 2021 Board Meeting</a>
MN River Chloride Project	WBIF	\$3,300	<a href="#">April 2021 Board Meeting</a>

- **Technical Assistance Cost–Share**—As part of the annual contract, the LMRWD and SSCWD provide a technical assistance cost–share program to residents within the LMRWD. As part of that program, the following projects were completed in 2021:

Landowner	Address	Local Governmental Unit	Issue/Interest
Ahlers	7297 Oak Ridge Trail	City of Shakopee	Natural Landscaping/Pollinator Habitat
Chermak	1792 Eagle Creek Boulevard	City of Shakopee	Natural Landscaping/Invasive Species Control
Cornelius	1216 Limestone Drive South	City of Shakopee	Natural Landscaping/Trees Shrub Establishment
Graf	5310 Eagle Creek Boulevard	City of Shakopee	Natural Landscaping/Pollinator Habitat
Haemmerle	13221 Pennsylvania Avenue	City of Savage	Bluff Erosion/Natural Landscaping/Rain Garden
Houdek	535 3rd Avenue West	City of Shakopee	Natural Landscaping/Rain Garden
Koke	7217 Taylor Drive	City of Savage	Natural Landscaping/Rain Garden
Larson	8785 Boiling Springs Lane E	City of Shakopee	Natural Landscaping/Pollinator Habitat
Neuenfeldt	8800 McColl Drive	City of Savage	Bluff Erosion/Sedimentation
Thomas		City of Shakopee	Natural Landscaping/Pollinator Habitat
Wilbert	2225 Jeffery Allen Drive	City of Shakopee	Natural Landscaping/Pollinator Habitat
Zauhar	1808 Granite Drive	City of Shakopee	Natural Landscaping/Pollinator Habitat

- **Social Media**—The LMRWD entered the world of social media in 2021. The LMRWD maintains a presence on Facebook, Instagram, and Twitter with weekly posts about LMRWD projects, clean water tips, and educational opportunities. Facebook had an average reach of 13.9 users. The reach is the estimated number of people who saw content from a Facebook page. Instagram performed better with an average reach of 37.6 users. Twitter uses impressions to measure how many times a tweet has been seen. The average number of impressions on Twitter for 2021 was 130 users. Social media analytics are presented in Appendix D.
- **Minnesota River Congress (MRC)**—The Minnesota River Congress did not meet in 2021, most likely due to the COVID-19 health emergency. But the LMRWD plans to continue sponsorship of the

semiannual congress meetings and attend the congress meetings and on occasion those of the MRC Action Committee.

- **Metro Children’s Water Festival**—The Metro Children’s Water Festival went virtual in 2021. Students learn about water resources and ways to wisely manage and protect them. The LMRWD will continue to financially support local elementary school students from the watershed area to attend the festival when it is back in person.
- **LMRWD Tour**—In June 2021, the LMRWD Board approved an LMRWD tour for managers and the CAC. This tour explored Boiling Springs (a Savage cost–share project adjacent to Eagle Creek) and the East Chaska Creek restoration project (a cost–share project with the City of Shakopee [see Amazon Fulfillment Center]) and visited the dredge site. Thirteen people, including staff from Naiad Consulting and Young Environmental, attended this event, which ended with lunch at The Landing in Shakopee.
- **LMRWD Signage**—In 2021, LMRWD investigated the placement of river and stream crossing signage and interpretive signs at LMRWD projects and unique natural features. It approved two interpretive signs for locations within the LMRWD in 2021, and in November, a signage contractor and local partners began working on signs for the East Chaska Creek restoration project and the unique resources of Savage Fen and Eagle Creek.
- **Schools and Nongovernmental Organizations**—The LMRWD began outreach to local schools and organizations that may benefit from watershed education and outreach materials. It contacted eighteen schools. This outreach yielded a partnership with the City of Burnsville and Dakota County Soil and Water Conservation to bring programming to Burnsville High School. In addition, the LMRWD contacted local cities and watershed management organizations regarding in-person, public outreach events that the LMRWD might participate in. A nature bingo card and scavenger hunt game were developed for at-home activities and shared through the LMRWD’s social media channels.

## **J. Professional Services Proposal**

The LMRWD solicited proposals for legal and engineering/technical consultant services in April 2020. As per the Minnesota Statutes, the LMRWD will solicit proposals again in 2022.

## **K. Assessment of Changes in Fund Balance**

The LMRWD’s annual financial audit report in Appendix A includes a discussion about its fund balance. The report is also available on the LMRWD website at <http://lowermnriverwd.org/>.



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## II. 2022 Projected Work Activities



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

## Capital Improvement Program and Prioritization

The LMRWD annually reviews, updates, and implements its CIP as necessary (see Appendix C). The LMRWD will also evaluate its water resources prioritization annually. Additional project and program descriptions can be found in the approved [2022 budget](#) and within the approved [Plan](#). Following is a list of tasks to be completed during 2022:

- **Cost–Share Program**—The LMRWD will continue to allocate funds to the cost–share program, which provides funding for public and private projects that improve water and natural resources within the LMRWD boundary.
- **Eden Prairie Area 3 Bank Stabilization Project**—To address riverbank erosion, we will analyze the design and construction of the Minnesota River at Study Area 3 project in Eden Prairie.
- **Downtown Shakopee Stormwater BMPs**—A feasibility study will be done in downtown Shakopee to identify opportunities for implementing the targeted BMPs.
- **Fen Stewardship Program**—This project is a partnership between the LMRWD, the Minnesota DNR, and the Metropolitan Council. The effort will develop a management plan to protect, preserve, and possibly restore calcareous fens within the LMRWD.
- **Local Water Management Plan Review**—The LMRWD will continue to work with cities whose Local Water Management Plans continue to be updated to conform to the LMRWD rules.
- **Monitoring**—The LMRWD will continue to perform resource monitoring within the boundaries of the LMRWD.
- **Public Education/Citizens Advisory Committee/Outreach Program**—The 2022 education and outreach program budget will include the Citizen Advisory Committee, Minnesota Water Steward Program, school and nongovernmental organization engagement, LMRWD signage, website and social media, rain garden and landscaping for clean water workshops, the Freshwater “Ice Out/Loon In” program, the Minnesota River boat tour, and sponsorship of the Minnesota Salt Symposium and Water Summit.
- **Prior Lake Outlet Channel Realignment/Wetland Restoration**—This project will place additional capacity and control structures in the channel to handle increased runoff draining into the channel because of developments.
- **Sustainable Lakes Management Plan (Trout Lakes)**—This project will study the trout lakes within the LMRWD and develop a management plan for the lakes. This project has started and has been waiting for responses from the cities.



- **Water Resource Restoration Fund**—This program will fund projects sponsored by local governmental units not identified at the time the watershed plan was adopted. Since the preliminary approval of the 2022 budget in August, the board accepted a request from the City of Burnsville to partner on the stabilization of a ravine along Willow Creek. Currently, \$75,000 of this line will be set aside for that project. A request has been received from Scott County to partner in the collaborative LIDAR collection project. Scott County requested \$5,000 from the LMRWD for this project.
- **Project Review**—This item includes costs incurred by the LMRWD to review non-LMRWD projects in cities that have either opted to have the LMRWD review projects or have not yet received a municipal permit.
- **Nine-Foot Channel**—The LMRWD will continue to explore opportunities for beneficial reuse of material dredged from the main channel of the Minnesota River to maintain navigation and will work with local industry to temporarily store material dredged from private barge slips.

The LMRWD will continue to work with the US Army Corps of Engineers on maintenance of the navigation channel by following the US Army Corps of Engineers Dredged Material Management Plan for reaches of the Minnesota River upstream of the I-35W Bridge. It will work cooperatively in developing a comprehensive plan for the dredged reaches in the Minnesota River downstream of the I-35W Bridge.

- **Municipal Plan Review**—The LMRWD will review local water management plans and plan amendments of cities within its boundaries, and it will review adjacent watershed district/water management organization plans and amendments as they are received.
- **Annual Report**—The LMRWD will prepare an annual report; submit the report to BWSR, cities, and counties within the LMRWD; and post it on the LMRWD’s website.



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## III. Annual Financial Report

The LMRWD 2021 fiscal year commenced on January 1, 2021, and ended on December 31, 2021.

## **A. 2021 Approved Budget**

The approved operating budget for the fiscal year 2021 was \$1,065,000. The annual budget is funded through an ad valorem tax across all properties within the boundaries of the LMRWD. In 2021, the total value of this tax was \$725,000. The tax was apportioned to each county within the LMRWD based on the taxable value of property in each county. A copy of the 2021 budget is located in Appendix A.

## **B. Report of Revenues**

See the Financial Audit Report in Appendix A.

## **C. Report of Expenditures**

See the Financial Audit Report in Appendix A.

## **D. Financial Audit Report**

The annual audit report for the year ending on December 31, 2021, was performed by Global Portfolio Consulting LLC. A copy of the annual audit report was not yet available at the time of this report's publication. It will be added when it is available, and the report will be revised to reflect the inclusion of the 2021 audit.



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## Appendix A

### Financial Information

**FY 2021 Communication with Those Charged with Governance  
FY 2021 Financial Audit  
FY 2021 Budget**

**Proposed Levy 2021**

General Fund	250,000.00
Planning and Implementation Fund	475,000.00
One time levy to balance channel fund	<u>-</u>
<b>Apportioned Payable 2020 Levy</b>	<b>725,000.00</b>

<u>County</u>	<u>Net Tax Capacity % Distribution</u>	<u>Apportioned Payable 2021 Levy</u>
Carver	5.9133%	42,871.43
Dakota	10.0634%	72,959.65
Hennepin	43.9025%	318,293.13
Scott	40.1208%	290,875.80
<b>Watershed Total</b>	<b>100.0000%</b>	<b>725,000.00</b>

2021 Proposed Total Budget  
2019 Adopted Budget/Actuals - 2020 Adopted Budget/YTD/Projected - 2021 adopted

	Account	2019 Adopted	2019 Actual	2020 Adopted	2020 YTD	Projected 2020	Adopted 2021
	<b>Revenues:</b>						
	General Property Tax						
1	Carver County	\$ 48,442.33	\$ 49,664.89	\$ 42,833.00	\$ 25,448.53	\$ 42,833.00	\$ 42,871.43
2	Dakota County	\$ 76,001.75	\$ 74,820.97	\$ 70,735.35	\$ 66,210.46	\$ 70,735.35	\$ 72,959.65
3	Hennepin County	\$ 276,570.10	\$ 274,817.86	\$ 321,491.83	\$ 159,459.85	\$ 321,491.83	\$ 318,293.13
4	Scott County	\$ 323,985.83	\$ 620,708.63	\$ 289,939.83	\$ 38,636.05	\$ 289,939.83	\$ 290,875.80
	<b>Total Levy:</b>	<b>\$ 725,000.01</b>	<b>\$ 1,020,012.35</b>	<b>\$ 725,000.01</b>	<b>\$ 289,754.89</b>	<b>\$ 725,000.01</b>	<b>\$ 725,000.00</b>
5	Interest Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6	MCES WOMP Grant	\$ 5,500.00	\$ 4,500.00	\$ 5,500.00	\$ 7,000.00	\$ 5,500.00	\$ 5,000.00
7	State of MN Grant for Dredge Material Management	\$ 240,000.00	\$ -	\$ 240,000.00	\$ 240,000.00	\$ 240,000.00	\$ 240,000.00
8	Metro-Area Watershed Based funding grants	\$ 182,042.00	\$ 91,021.00	\$ 91,021.00	\$ -	\$ 91,021.00	\$ -
9	License Revenue from placement of dredge	\$ 25,000.00	\$ -	\$ 25,000.00	\$ -	\$ 25,000.00	\$ 25,000.00
10	Revenues from sale of dredge material	\$ 5,000.00	\$ -	\$ 5,000.00	\$ -	\$ 5,000.00	\$ 5,000.00
11	Permit Fees	\$ -	\$ -	\$ -	\$ 4,000.00	\$ 1,000.00	\$ -
12	Miscellaneous Income	\$ -	\$ 4,585.49	\$ -	\$ 5.00	\$ -	\$ -
	<b>Total Revenues:</b>	<b>\$ 1,182,542.01</b>	<b>\$1,120,118.84</b>	<b>\$1,091,521.01</b>	<b>\$540,759.89</b>	<b>\$ 1,092,521.01</b>	<b>\$ 1,000,000.00</b>
	<b>Expenses:</b>						
13	<b>Administration</b> (from Administrative Budget Page)	\$ 250,000.00	\$ 243,541.53	\$ 250,000.00	\$ 161,759.87	\$ 250,000.00	\$ 250,000.00
	<b>Cooperative Projects</b>						
14	Eden Prairie Bank Stabilization -Area #3	\$ -	\$ 4,026.80	\$ 35,000.00	\$ 14,321.67	\$ 35,000.00	\$ 100,000.00
15	Eagle Creek	\$ -	\$ -	\$ -	\$ 66,315.94	\$ -	\$ -
16	Gully Erosion Contingency	\$ -	\$ -	\$ -	\$ 51,714.34	\$ 120,000.00	\$ -
17	USGS	\$ 19,700.00	\$ 19,788.00	\$ 19,700.00	\$ 10,091.50	\$ 19,700.00	\$ -
18	Ravine Stabilization at Seminary Fen in Chaska	\$ -	\$ 110,400.00	\$ 55,200.00	\$ -	\$ -	\$ -
19	Riley Creek Cooperative Project with RPBCWD	\$ -	\$ -	\$ 74,565.67	\$ -	\$ 150,000.00	\$ -
	Seminary Fen Ravine Restoration site A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000.00
20	Seminary Fen Ravine C-2	\$ -	\$ 313.50	\$ 20,000.00	\$ 97.50	\$ 20,000.00	\$ -
	<b>509 Plan Budget</b>						
	Resource Plan Implementation						
21	Gully Inventory	\$ -	\$ -	\$ 80,000.00	\$ -	\$ 80,000.00	\$ -
22	Minnesota River Corridor Management Project	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000.00
23	TH 101 Ravine/Shakopee	\$ -	\$ 402.97	\$ 35,000.00	\$ -	\$ 350.00	\$ -
24	Assumption Creek Hydrology Restoration Project	\$ 30,000.00	\$ -	\$ -	\$ -	\$ 30,000.00	\$ -
25	Carver Creek restoration Project	\$ 80,000.00	\$ -	\$ 15,000.00	\$ -	\$ -	\$ -
26	Groundwater Screening Tool Model	\$ 50,000.00	\$ -	\$ 50,000.00	\$ -	\$ 50,000.00	\$ -
27	Eagle Creek (East Branch) Project	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
28	Minnesota River Floodplain Model Feasibility Study	\$ 30,000.00	\$ -	\$ -	\$ -	\$ 30,000.00	\$ -
29	Schroeder's Acres Park/Savage Fen Stormwater Management P	\$ 39,555.00	\$ -	\$ 181,055.00	\$ -	\$ 181,055.00	\$ -
30	PLOC Realignment/Wetland Restoration	\$ 71,727.00	\$ -	\$ -	\$ -	\$ -	\$ 70,000.00
31	Spring Creek Project	\$ 45,000.00	\$ 4,543.78	\$ -	\$ -	\$ 45,000.00	\$ 75,000.00
32	West Chaska Creek Project	\$ 50,000.00	\$ -	\$ -	\$ 162.50	\$ 50,000.00	\$ -
33	Sustainable Lakes Management Plan (Trout Lakes)	\$ -	\$ 33,599.90	\$ 50,000.00	\$ 1,223.62	\$ 50,000.00	\$ -
34	Geomorphc Assessments (Trout Streams)	\$ -	\$ 88,771.08	\$ 50,000.00	\$ 16,228.96	\$ 50,000.00	\$ -
35	Fen Stewardship Program	\$ 25,000.00	\$ 68,183.20	\$ 25,000.00	\$ 78,714.21	\$ -	\$ 25,000.00
36	District Boundary Modification Project	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
37	East Chaska Creek Bank Stabilization Project	\$ 50,000.00	\$ 34,809.45	\$ -	\$ 38,711.75	\$ 50,000.00	\$ -
38	East Chaska Creek Water Quality Treatment Project	\$ 50,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
39	Minnesota River Sediment Reduction Strategy	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
40	Riley Creek Bank Stabilization below CSAH 61	\$ -	\$ 74,724.49	\$ -	\$ -	\$ -	\$ -
41	Local Water Management Plan reviews	\$ 12,000.00	\$ 2,410.70	\$ 8,000.00	\$ 16,289.96	\$ 8,000.00	\$ 15,000.00
42	Project Reviews	\$ 20,000.00	\$ 55,889.43	\$ 20,000.00	\$ 90,078.78	\$ 60,000.00	\$ 50,000.00
43	Monitoring	\$ 65,000.00	\$ 50,030.70	\$ 65,000.00	\$ 16,279.80	\$ 65,000.00	\$ 75,000.00
44	Watershed Management Plan						
45	Next Generation Watershed Management Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
46	Plan Clarification and proposed rules/Rule implementation	\$ 25,000.00	\$ 23,622.62	\$ 56,000.00	\$ 24,935.89	\$ 25,000.00	\$ -
47	Plan Amendment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000.00
48	Vegetation Management Standard/Plan	\$ 50,000.00	\$ 6,456.10	\$ -	\$ -	\$ 50,000.00	\$ -
49	Public Education/Citizen Advisory Committee/Outreach Program	\$ 30,000.00	\$ 4,533.55	\$ 30,000.00	\$ 25,295.00	\$ 30,000.00	\$ 30,000.00
50	Cost Share Program	\$ 20,000.00	\$ -	\$ 20,000.00	\$ 7,025.64	\$ 20,000.00	\$ 50,000.00
	<b>Nine Foot Channel</b>						
51	Transfer from General Fund	\$ 80,000.00	\$ 80,000.00	\$ -	\$ -	\$ -	\$ -
52	Dredge Site Restoration	\$ 240,000.00	\$ 60,794.39	\$ 315,000.00	\$ 20,366.96	\$ 315,000.00	\$ 240,000.00
53	<b>Total Non-administrative Expenses:</b>	<b>\$ 1,117,982.00</b>	<b>\$ 723,300.66</b>	<b>\$ 1,204,520.67</b>	<b>\$ 477,854.02</b>	<b>\$ 1,534,105.00</b>	<b>\$ 890,000.00</b>
54	<b>Total Administrative Expenses (from line 13)</b>	<b>\$ 250,000.00</b>	<b>\$ 243,541.53</b>	<b>\$ 250,000.00</b>	<b>\$ 161,759.87</b>	<b>\$ 250,000.00</b>	<b>\$ 250,000.00</b>
55	<b>Total Expenses</b>	<b>\$ 1,367,982.00</b>	<b>\$ 966,842.19</b>	<b>\$ 1,454,520.67</b>	<b>\$ 639,613.89</b>	<b>\$ 1,784,105.00</b>	<b>\$ 1,140,000.00</b>
56	Revenue less Expenses	\$ (185,439.99)	\$ 153,276.65	\$ (362,999.66)	\$ (98,854.00)	\$ (691,583.99)	\$ (140,000.00)
57	Beginning Fund Balance - January 1		\$ 1,968,596.14	\$ 2,121,872.79	\$ 2,121,872.79		\$ 1,758,873.13
58	Total Revenue		\$ 1,120,118.84	\$ 1,091,521.01	\$ 540,759.89		\$ 1,000,000.00
59	Total Expenses		\$ (966,842.19)	\$ (1,454,520.67)	\$ (639,613.89)		\$ (1,140,000.00)
60	Ending Fund Balance - December 31 (bold figures are projected)		\$ 2,121,872.79	<b>\$ 1,758,873.13</b>	\$ 2,023,018.79		<b>\$ 1,618,873.13</b>



2021 proposed LMRWD Budget for Administration Operations  
 2019 Adopted Budget/Actuals - 2020 Adopted Budget/YTD/Projected - 2021 Adopted

Account	Adopted 2019	2019 Actual	Adopted 2020	YTD 2020 (Through 11/30/20)	Projected 2020	Adopted 2021
Expenses:						
61	Wages-General	\$ -	\$ -	\$ -	\$ -	\$ -
62	Severance Allowance	\$ -	\$ -	\$ -	\$ -	\$ -
63	Benefits	\$ -	\$ -	\$ -	\$ -	\$ -
64	PERA Expense	\$ -	\$ -	\$ -	\$ -	\$ -
65	Payroll Tax (FICA/Medicare)	\$ -	\$ -	\$ -	\$ -	\$ -
66	Unemployment compensation	\$ -	\$ -	\$ -	\$ -	\$ -
67	Manager Per Diem	\$ 9,000.00	\$ 3,075.00	\$ 11,250.00	\$ 750.00	\$ 11,250.00
68	Manager Expense (mileage/food/registrations)	\$ 4,000.00	\$ 1,089.78	\$ 3,000.00	\$ 12.65	\$ 3,000.00
69	Telecommunications-Cell-Internet/Phone	\$ -	\$ -	\$ 1,000.00	\$ -	\$ 1,000.00
70	Office Supplies	\$ 300.00	\$ 150.42	\$ 300.00	\$ 76.54	\$ 300.00
71	Meeting Supplies/Expense	\$ 100.00	\$ 136.57	\$ 100.00	\$ -	\$ 100.00
72	Rent	\$ 8,000.00	\$ 7,800.00	\$ 7,800.00	\$ 6,500.00	\$ 7,800.00
73	Dues	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00
74	Miscellaneous-General	\$ 3,000.00	\$ 1,585.00	\$ 3,000.00	\$ 1,651.50	\$ 3,000.00
75	Training & Education	\$ 1,500.00	\$ 455.56	\$ 1,500.00	\$ -	\$ 1,500.00
76	Insurance & Bonds	\$ 10,000.00	\$ 9,293.00	\$ 10,000.00	\$ 9,399.00	\$ 10,000.00
77	Postage	\$ 500.00	\$ -	\$ 500.00	\$ 60.95	\$ 500.00
78	Photocopying	\$ 2,000.00	\$ 29.26	\$ 1,000.00	\$ 23.11	\$ 1,000.00
79	Legal Notices-General	\$ 1,500.00	\$ 660.80	\$ 1,500.00	\$ 2,707.20	\$ 1,500.00
80	Subscriptions & License Fees	\$ -	\$ -	\$ -	\$ 282.00	\$ 222.00
81	Mileage	\$ 6,000.00	\$ 4,017.57	\$ 5,000.00	\$ 1,160.49	\$ 4,778.00
82	Taxable meal reimbursement	\$ 500.00	\$ 233.43	\$ 500.00	\$ 52.86	\$ 500.00
83	Lodging/ Staff Travel	\$ 1,500.00	\$ 344.67	\$ 1,500.00	\$ -	\$ 1,500.00
84	Accounting/Payroll Fees	\$ 5,000.00	\$ 5,034.32	\$ 5,500.00	\$ 3,917.90	\$ 5,500.00
85	Audit Fees	\$ 14,000.00	\$ 14,110.00	\$ 15,000.00	\$ 14,525.00	\$ 15,000.00
86	Professional Services-General	\$ 121,100.00	\$ 131,118.75	\$ 121,050.00	\$ 53,343.75	\$ 121,050.00
87	Legal Fees-General	\$ 11,000.00	\$ 5,771.50	\$ 10,000.00	\$ 5,265.50	\$ 10,000.00
88	Engineering-General	\$ 20,000.00	\$ 27,227.73	\$ 20,000.00	\$ 36,743.30	\$ 20,000.00
89	Equipment-General	\$ -	\$ 1,610.63	\$ -	\$ 79.50	\$ -
90	Equipment-Maintenance	\$ 500.00	\$ 414.79	\$ 500.00	\$ 187.09	\$ 500.00
91	Equipment-Lease	\$ 3,000.00	\$ 1,882.72	\$ 2,500.00	\$ 2,521.50	\$ 2,500.00
92	Newsletter Expense(Web Articles)	\$ -	\$ -	\$ -	\$ -	\$ -
93	Lobbying	\$ 20,000.00	\$ 20,000.03	\$ 20,000.00	\$ 15,000.03	\$ 20,000.00
94	<b>Total Expense for Administration:</b>	<b>\$ 250,000.00</b>	<b>\$ 243,541.53</b>	<b>\$ 250,000.00</b>	<b>\$ 161,759.87</b>	<b>\$ 250,000.00</b>

2021 Budget Explanation of line items

Project funding proposed in the 2021 Budget is taken from Table 4-1 of the LMRWD Watershed Management Plan. Additional projects have been added and will fall under the Water Resources Restoration Fund	
<b>Line #</b>	<b>Cooperative Projects</b>
	<i>Cooperative Projects are those projects that are intended to be completed by the LMRWD with other partners</i>
14	<p><b>Eden Prairie Bank Stabilization - Area #3</b></p> <p>The LMRWD applied for an Opportunity Grant from Hennepin to conduct the work necessary to stabilize this area. Money will be used to update the report prepared by Wenck in 2010, conduct site investigations, prepare design of chosen stabilization option and construct the project. The LMRWD was notified that the Opportunity Grant from Hennepin County was not approved because the County felt additional funding required to see the project through to completion was uncertain. The County felt the project was a good project, but felt the LMRWD should reapply next year. In the meantime, the County suggested the LMRWD firm up other sources of funding.</p>
16	<p><b>Gully Erosion Contingency</b></p> <p>This line item was established in the LMRWD Budget to address restoration and stabilization of Gullies, inventoried by the LMRWD in 2007. Money was set aside for cities to use for projects. No cities have applied to use these funds since 2013. The LMRWD has built up \$150,000 in this fund. The current re-assessment of the Gully Inventory is being charged to the line.</p>
17	<p><b>USGS</b></p> <p>No money is identified for this item. In 2019 floods destroyed the pier that was being used to house equipment that measured the river flow and sediment loads. The Metropolitan Council which owned the pier determined that replacement of the pier was too expensive. Therefore the project with the LMRWD, US Geological Survey and the Corps of Engineers to measure sediment loads has been terminated.</p>
18	<p><b>Ravine Stabilization at Seminary Fen in Chaska</b></p> <p>BWSR then denied payment of the second half of the grant that was meant to be used for this project. The LMRWD reimbursed the City of Chaska \$110,400 for the cost of construction of this project. LMRWD has been working with the MN Legislature to allow the LMRWD to use a portion of the money the District receives for dredge management to reimburse the District for the grant that was lost.</p>
19	<p><b>Riley Creek Cooperative Project with RPBCWD</b></p> <p>This project is outside the boundaries of the LMRWD. It is a partnership with Riley/Purgatory/Bluff Creek Watershed District and the City of Eden Prairie. The goals of this project are to reduce the amount of sediment contributed to the Minnesota River by Riley Creek. The project will reconnect a reach of Riley Creek with its floodplain in order to reduce the amount of erosion coming from near channel sources of Lower Riley Creek. It is expected that the project will be complete in 2020. The LMRWD committed to contribution \$150,000 toward the cost of the project. The LMRWD has levied for this project in several increments since 2016. \$74565.67 was the final amount needed to fund this project.</p>
20	<p><b>Seminary Fen Ravine C2</b></p> <p>The LMRWD Board agreed to participate with the City of Chaska in a feasibility study of this ravine. The project was contained in Table 4.1 but was scheduled for budget year 2024. The City was ready to move ahead with the project now. LMRWD staff is recommending a mid-year budget adjustment to add this item to the 2020 budget year. Funds for this project would come from the Water Resources Restoration Fund (WRRF). Table 4.1 identifies \$100,000 in the 2020 budget year for this fund. The 2020 budget added 2 projects not identified in Table 4.1 (which was the purpose of adding the WRRF): 1) \$35,000 for Study Area #3 and 2) \$35,000 for the TH 101 Ravine Stabilization (to address erosion from the</p>

2021 Budget Explanation of line items

	Amazon Fulfillment Center). This leaves \$30,000 from the WRRF that was unused. This additional amount would come from LMRWD fund balance, since the total \$100,000 for the WRRF was not identified in the adopted 2020 budget
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<b>509 Plan Budget</b>	
21	<p><b>Gully Inventory</b></p> <p>In the reassessment of the 2007 Gully Inventory, LMRWD staff noticed that the original study did not inventory gullies in Dakota and Scott Counties on the south side of the Minnesota River. Staff is recommending that the LMRWD adjust the 2020 budget to re-allocate the \$80,000 indentified as a transfer from the General Fund to the 9 foot Channel Fund to this project. Staff is preparing a work plan for the Board to consider for this project. This recommendation is budget neutral.</p>
24	<p><b>Assumption Creek Hydrology Restoration Project</b></p> <p>Staff is currently preparing a work plan for this project for the Board to consider, which was included in the 2019 budget.</p>
26	<p><b>Groundwater Screening Tool Model</b></p> <p>Staff is currently preparing a work plan for this project for the Board to consider. \$50,000 was included in the 2019 budget and \$50,000 was included in the 2020 budget for this project.</p>
28	<p><b>Minnesota River Floodplain Model Feasibility Study</b></p> <p>Staff will prepare a work plan for this project for the Board to consider. This project will review the current Minnesota River Floodplain Model to determine is updates are needed. The original model was developed in 2004. This project was included in the 2019 budget.</p>
38	<p><b>East Chaska Creek Water Quality Treatment Project</b></p> <p>\$50,000 was included in the 2019 Budget for this project. Table 4.1 also shows the project in the 2020 Budget for \$25,000. The project was not included in the 2020 budget because the project was to be constructed on vacant land owned by the City of Chaska. The City has sold the land, which was then developed.</p>
41	<p><b>Local Water Management Plan Reviews</b></p> <p>The LMRWD has not yet approved the Local Water Management Plans for Savage and Mendota. Several Cities are in the process of updating plans such as Carver. Plans may also need to be updated due to LMRWD rules, which required cities to amend their official controls to conform to the rules.</p>
42	<p><b>Project Reviews</b></p> <p>This item includes costs incurred by the LMRWD to review non-LMRWD projects. Many of the cities waited until the LMRWD rules were adopted to begin changes to their official controls. The LMRWD has not issued any Municipal Permits under the rules, so staff has been reviewing all projects. This is the reason that the YTD expenses for this line item are so high.</p> <p>Once the general permits are approved for the cities, the LMRWD will only review projects proposed in unincorporated areas of the LMRWD and by MNDoT. Since the LMRWD cannot charge permit fees to the State, it is unlikely the LMRWD will be able to cover the cost of project reviews through fees for permit review.</p>
47	<p><b>Watershed Management Plan Amendment</b></p> <p>\$10,000 has been included in the budget for amending the Plan. Any amendment to the Plan in 2021 would likely be caused by updates to the CIP.</p>

2021 Budget Explanation of line items

49	<p><b>Public Education/CAC/Outreach Program</b>                  The 2020 projected costs the LMRWD will spend on public education include:</p> <ul style="list-style-type: none"> <li>• Master Water Steward Program.....\$2,500.00</li> <li>• LMRWD website update/maintenance.....\$8,000.00</li> <li>• 2021 Metro Children's Water Festival.....\$1,650.00</li> <li>• Rain Garden Workshops.....\$2,250.00</li> <li>• Freshwater Society "Ice Out/Loon In".....\$800.00</li> <li>• Support for Minnesota River Congress.....\$300.00</li> <li>• MN River Boat Tour.....\$8,000.00</li> <li>• Sponsorship of Salt Symposium and Water Summit.....\$1,500.00</li> <li>• Project with MN River Congress.....\$5,000.00</li> </ul> <p><b>TOTAL:.....\$30,000.00</b></p>
Line #	<b>Nine Foot Channel</b>
51	<p><b>Transfer from General Fund</b>                  A transfer of \$80,000 from the General Fund to the 9 foot Channel Fund to reduce the amount of deficit in the Channel Fund. The 2019 Audit reported that the Channel Fund no longer has a deficit. Staff is therefore recommending the Board adopt a mid-year budget adjustment to re-allocate this \$80,000 to the Gully Inventory.</p>
Line #	<b>Administrative Budget</b>
67	<p><b>Manager Per Diem</b>                  This figure is calculated for 5 Managers, using a per diem of \$125/meeting and 1.5 meetings per month per manager.</p>
73	<p><b>Dues</b>                  MAWD dues were included at \$7,500. There has not been any indication that the dues will be increased for 2021.</p>
77	<p><b>Postage</b>                  The amount budgeted for postage has been reduced based on actual expenses.</p>
78	<p><b>Photocopying</b>                  The amount budgeted for photocopies has been reduced based on actual expenses. The new copier has substantially reduced the need for using outside photocopying services.</p>
80	<p><b>Subscription and License Fees</b>                  This line has been added to the budget to reflect the way that Microsoft, Adobe and WebEx offer software. It is now all subscription based.</p>
84	<p><b>Accounting /Payroll Fees</b>                  The change to this line item is based on the actual cost identified in the agreement between the LMRWD and Carver County.</p>



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## Appendix A

### Financial Information

**FY 2021 Communication with Those Charged with Governance  
FY 2021 Financial Audit  
FY 2021 Budget**

The 2021 Financial Audit has not been received. The annual report will be revised once the audit has been received to include the audit.



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## Appendix B

### 2021 Resolutions



RESOLUTION 21-01

**RESOLUTION OF THE LOWER MINNESOTA RIVER WATERSHED DISTRICT BOARD OF MANAGERS**

**DESIGNATION OF THE 2021 OFFICIAL DISTRICT NEWSPAPER**

President Hartmann offered the following Resolution and moved its adoption, seconded by Manager Frey:

WHEREAS, Minnesota Statutes 103B and 103D require the publication of various official notices in a newspaper of general circulation within the District; and

WHEREAS, there are several local newspapers with circulation within the Lower Minnesota River Watershed District (LMRWD), these have local or limited circulation throughout the LMRWD; and


WHEREAS, the only newspaper of general circulation throughout the entire District is the Minneapolis Star Tribune.

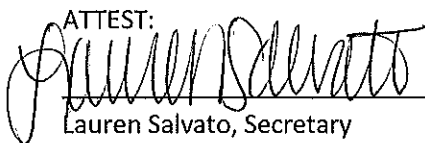
NOW, THEREFORE, BE IT RESOLVED that the Lower Minnesota River Watershed District Board of Managers hereby names the Minneapolis Star Tribune as the official newspaper of the District for 2021.

The question was on the adoption of the Resolution and there were 4 yeas and 0 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
FREY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HARTMANN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RABY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SALVATO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

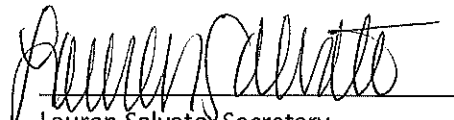
Upon vote, the President declared the Resolution adopted.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:  
  
\_\_\_\_\_  
Lauren Salvato, Secretary

I, Lauren Salvato, Secretary of the Lower Minnesota River Watershed District, do hereby certify that I have compared the above Resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 20 day of January 2021.

  
Lauren Salvato, Secretary

RESOLUTION 21-02

**RESOLUTION OF THE LOWER MINNESOTA RIVER WATERSHED DISTRICT BOARD OF MANAGERS**

**DESIGNATION OF 2021 OFFICIAL DEPOSITORIES**

President Hartmann offered the following Resolution and moved its adoption, seconded by Manager Frey:

WHEREAS, Minnesota Statutes set procedures and require the Board of Managers to account for, manage and safeguard Lower Minnesota River Watershed District (the "LMRWD") funds; and

WHEREAS, Minnesota Statutes, Section 471.59 provides that two or more governmental units may by agreement jointly exercise any power common to the governmental units; and

WHEREAS, the LMRWD has entered in to a Joint Powers Agreement with Carver County, Minnesota (the "County"), to provide accounting and fund management services; and

WHEREAS, LMRWD funds are in custody of the County and are managed according to the County's Investment Policy.

NOW, THEREFORE, BE IT RESOLVED that the Lower Minnesota River Watershed District Board of Managers, in lieu of designating a depository institution, shall, consistent with its Joint Powers Agreement, authorize the County to deposit and manage the funds of the LMRWD as provided in the Laws of the State of Minnesota, including the furnishing of collateral for funds on deposit.

BE IT FURTHER RESOLVED that the County shall be authorized to make investments of LMRWD funds and shall be authorized to deposit the principal of said investments as necessary and beneficial to the Lower Minnesota River Watershed District.

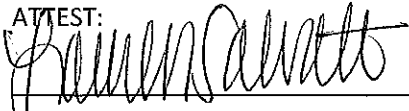
The question was on the adoption of the Resolution and there were 4 yeas and 0 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
FREY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HARTMANN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RABY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SALVATO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Upon vote, the President declared the Resolution adopted.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:

  
\_\_\_\_\_  
Lauren Salvato, Secretary

I, Lauren Salvato, Secretary of the Lower Minnesota River Watershed District, do hereby certify that I have compared the above Resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 20th day of January 2021.

  
\_\_\_\_\_  
Lauren Salvato, Secretary

RESOLUTION 21-03

**RESOLUTION OF THE LOWER MINNESOTA RIVER WATERSHED DISTRICT BOARD OF MANAGERS  
APPOINTING 2021 DATA PRACTICES RESPONSIBLE AUTHORITY**

President Hartmann offered the following Resolution and moved its adoption, seconded by Manager Frey:

WHEREAS, the Minnesota Government Data Practices Act (the "Act"), requires that the Lower Minnesota River Watershed District (the "LMRWD") prepare a written data access policy; and

WHEREAS, the Act and the LMRWD Data Practices Procedures adopted September 17, 2014 require that the LMRWD Board of Managers appoint a Responsible Authority, that is the individual responsible for the collection, use, and dissemination of any set of data on individuals, government data, or summary data, unless otherwise provided by state law; and

WHEREAS, the LMRWD Board of Managers shares this concern regarding the responsible use of all LMRWD data and wishes to satisfy this concern by immediately appointing an administratively qualified Responsible Authority as required under statute.

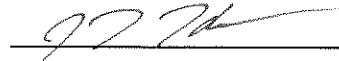
NOW, THEREFORE, BE IT RESOLVED that the Lower Minnesota River Watershed District Board of Managers, appoints District Administrator, Linda Loomis, as the Responsible Authority for the purposes of meeting all requirements of Minnesota Statutes, chapter 13 as amended, and with rules as lawfully promulgated by the commissioner of Administration.

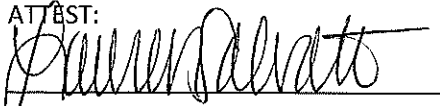
BE IT FURTHER RESOLVED, the Responsible Authority shall require the requesting party to pay the actual cost of making, certifying, and compiling copies and of preparing summary data, as allowed by Minnesota Statutes, chapter 13 and by Minnesota Rules, chapter 1205, as amended.

The question was on the adoption of the Resolution and there were 4 yeas and 0 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
FREY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HARTMANN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RABY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SALVATO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Upon vote, the President declared the Resolution adopted.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:  
  
\_\_\_\_\_  
Lauren Salvato, Secretary

I, Lauren Salvato, Secretary of the Lower Minnesota River Watershed District, do hereby certify that I have compared the above Resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 20th day of January 2021.

  
\_\_\_\_\_  
Lauren Salvato, Secretary

**RESOLUTION # 21-04**

**RESOLUTION OF THE LOWER MINNESOTA RIVER WATERSHED DISTRICT BOARD OF MANAGERS**

**Expressing Intent to Participate in One Watershed Planning and Supporting a Planning Grant Application**

President Hartmann offered the following Resolution and moved its adoption, seconded by Manager Frey:

**WHEREAS**, the Lower Minnesota River Watershed District (LMRWD) exists in a portion of One Watershed Planning Area 56 as established by the Board of Water and Soil Resources (BWSR); and

**WHEREAS**, other watershed districts, watershed management organizations, counties and county soil and water conservations districts in Planning Area 56 have expressed an interest in initiating One Watershed Planning and in applying for a Planning Grant from the BWSR; and

**WHEREAS**, all of the interested entities, including the LMRWD, are required by statutes chapters 103B, 103C or 103D to prepare an adopt a water management plan for their organization or entity; and

**WHEREAS**, One Watershed Planning facilitates coordination of water management priorities, goals and actions across the Planning Area and between entities; and

**WHEREAS**, One Watershed Planning results in a One Watershed One Plan (watershed management plan) that may be adopted by the participating entities to replace their individually required plans under statutes chapters 103B, 103C and 103D; and

**WHEREAS**, notwithstanding the recent adoption of the LMRWD's Comprehensive Watershed Management Plan (2018) and the significant time and resources involved in developing that plan, the Board of Managers finds merit in coordinating with its neighboring entities in a One Watershed Planning effort and in seeking a Planning Grant to facilitate coordination and development of a One Watershed One Plan for Planning Area 56.

**THEREFORE, BE IT RESOLVED**, that the LMRWD Board of Managers intends to participate in One Watershed Planning for Planning Area 56 should the process move forward; and

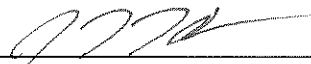
**FURTHER**, the Board supports the efforts of other entities within Planning Area 56 to seek a Planning Grant from the BWSR for the planning effort; and

**FURTHER**, given the recent adoption of the LMRWD Comprehensive Watershed Management Plan, the Board reserves any decision on whether to adopt a subsequent One Watershed One Plan to replace its current plan. Rather, the Board, by intending to participate fully the planning process, seeks to coordinate its existing priority, goals and actions with any subsequent One Watershed One Plan.

The question was on the adoption of the Resolution and there were 4 yeas and 0 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
FREY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HARTMANN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RABY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SALVATO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Upon vote, the President declared the Resolution adopted.

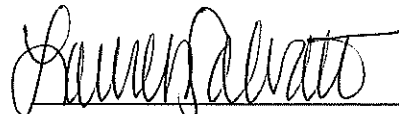
  
 \_\_\_\_\_  
 Jesse Hartmann, President

ATTEST:

  
 \_\_\_\_\_  
 Lauren Salvato, Secretary

I, Lauren Salvato, Secretary of the Lower Minnesota River Watershed District, do hereby certify that I have compared the above Resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 20th day of January 2021.

  
 \_\_\_\_\_  
 Lauren Salvato, Secretary



RESOLUTION 21-05

**RESOLUTION OF THE LOWER MINNESOTA RIVER WATERSHED DISTRICT BOARD OF MANAGERS**

**2021 Citizen Advisory Committee Appointments**

Manager Raby offered the following Resolution and moved its adoption, seconded by Manager Salvato:

WHEREAS, pursuant to Minnesota Statute 103D.331, the Lower Minnesota River Watershed District (LMRWD) Board of Managers must annually appoint a Citizen Advisory Committee (CAC); and

WHEREAS, the CAC is being organized to assist the LMRWD Board of Managers on matters affecting the interests of the watershed district; and

WHEREAS, statute requires the committee consist of at least five (5) members; and

WHEREAS, the District advertised openings for new CAC membership on the LMRWD website, and distributed the notice through a press release to all LMRWD partners and stakeholders; and

WHEREAS, three applications were received for new 2020 membership; and

WHEREAS, LMRWD staff have reviewed all applications based on background and experience, community service and geographic representation across the watershed.

NOW, THEREFORE, BE IT RESOLVED NOW, THEREFORE, BE IT RESOLVED that the Lower Minnesota River Watershed District Board of Managers hereby appoints the following individuals to the 2021 Citizen Advisory Committee:

Judy Berglund

Craig Deiderichs

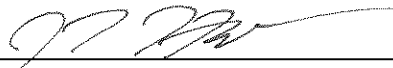
Greg Genz

Jenny Karkowski

The question was on the adoption of the Resolution and there were 4 yeas and 0 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
FREY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HARTMANN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RABY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SALVATO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


Upon vote, the President declared the Resolution adopted.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:  
  
\_\_\_\_\_  
Lauren Salvato, Secretary

I, Lauren Salvato, Secretary of the Lower Minnesota River Watershed District, do hereby certify that I have compared the above Resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_ 2021.

  
\_\_\_\_\_  
Lauren Salvato, Secretary

RESOLUTION 21-06

**RESOLUTION OF THE LOWER MINNESOTA RIVER WATERSHED DISTRICT BOARD OF MANAGERS**

**2021 Citizen Advisory Committee Appointment**

President Hartmann offered the following Resolution and moved its adoption, seconded by Manager Salvato:

WHEREAS, pursuant to Minnesota Statute 103D.331, the Lower Minnesota River Watershed District (LMRWD) Board of Managers must annually appoint a Citizen Advisory Committee (CAC); and

WHEREAS, the CAC is being organized to assist the LMRWD Board of Managers on matters affecting the interests of the watershed district; and

WHEREAS, statute requires the committee consist of at least five (5) members; and

WHEREAS, the District advertised openings for new CAC membership on the LMRWD website, and distributed the notice through a press release to all LMRWD partners and stakeholders; and

WHEREAS, at the February 2021 Board of Manager meeting four individuals were appointed to the CAC; and

WHEREAS, the LMRWD received an application for the CAC since the February meeting; and

WHEREAS, LMRWD staff has reviewed the applicant's background, experience, community service and geographic representation within the watershed and recommends the appointment.

NOW, THEREFORE, BE IT RESOLVED NOW, THEREFORE, BE IT RESOLVED that the Lower Minnesota River Watershed District Board of Managers hereby appoint the following individual to the 2021 Citizen Advisory Committee:

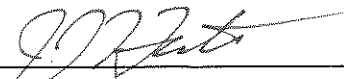
Theresa Kuplic

The question was on the adoption of the Resolution and there were 3 yeas and 0 nays as follows:

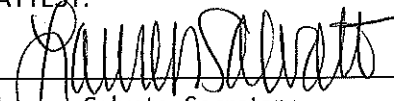
	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
HARTMANN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RABY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SALVATO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Upon vote, the President declared the Resolution adopted.

*(signature on following page)*

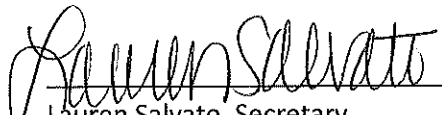
  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:

  
\_\_\_\_\_  
Lauren Salvato, Secretary

I, Lauren Salvato, Secretary of the Lower Minnesota River Watershed District, do hereby certify that I have compared the above Resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 24 day of April 2021.

  
\_\_\_\_\_  
Lauren Salvato, Secretary

RESOLUTION # 21-07

RESOLUTION OF THE LOWER MINNESOTA RIVER WATERSHED DISTRICT BOARD OF MANAGERS

Rescinding Resolution 20-03 Adopting Interim Meeting Schedule and Format

Manager Raby offered the following Resolution and moved its adoption, seconded by President Hartmann:

**WHEREAS**, in March 2020, the Board of Managers determined that it was neither feasible nor prudent to hold in-person meetings during the State of Emergency related to the COVID-19 pandemic; and

**WHEREAS**, the Board adopted resolution 20-03 on March 18, 2020 in accordance with statutes section 13D.021, which allows the Board to hold its meetings by alternative means during the emergency and now desires to rescind that resolution; and

**WHEREAS**, pursuant to statutes section 13D.04 the Board had adopted a regular meeting schedule which is on file with the District; and

**WHEREAS**, the Board desires to keeping the same schedule of meetings but resume meeting in-person.

**THEREFORE, BE IT RESOLVED**, that, the Board of Managers has determined, based on current state guidance, immunization rates and local conditions related to the COVID-19 pandemic, that in-person meetings of the Board of Managers may resume with full attendance of the Board and public; and

**FURTHER**, the Board will continue to implement prudent safety and health precautions for in-person meetings at its regular meeting location according to the previously adopted and filed regular meeting schedule.


The question was on the adoption of the Resolution and there were 4 yeas and 0 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
HARTMANN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MRAZ	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RABY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SALVATO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Upon vote, the President declared the Resolution adopted this 16th day of June, 2021.

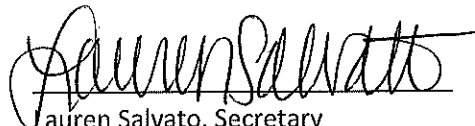
  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:

  
Lauren Salvato, Secretary

I, Lauren Salvato, Secretary of the Lower Minnesota River Watershed District, do hereby certify that I have compared the above Resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 21 day of July, 2021.

  
Lauren Salvato, Secretary

Manager Raby introduced the following resolution and moved its adoption:

RESOLUTION 21-08

LOWER MINNESOTA RIVER WATERSHED DISTRICT

PRELIMINARY CERTIFICATION OF PROPERTY TAX LEVIES FOR CARVER COUNTY

FOR TAXES PAYABLE 2022

AND APPROVAL OF 2022 PROPOSED BUDGET

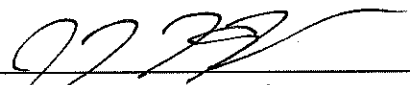
WHEREAS, the Board of Managers of the Lower Minnesota River Watershed District ("LMRWD") has proposed a total budget of One Million Thirty Five Thousand and 00/100 Dollars (\$1,035,000.00) for the fiscal year commencing January 1, 2022; and

WHEREAS, the proposed budget requires Seven Hundred Twenty Five Thousand Dollars (\$725,000) to be raised from an ad valorem tax levy on taxable property in the LMRWD, apportioned according to the attached Schedule A, for the purpose of paying administrative expenses (Minnesota Statutes § 103D.905 Subd. 3) of Two Hundred Fifty Thousand Dollars (\$250,000) and providing for a planning and implementation fund (Minnesota Statutes § 103B.241) of Four Hundred Seventy Five Thousand Dollars (\$475,000).

NOW, THEREFORE, BE IT RESOLVED, that the Secretary, in accordance with Minnesota Statutes, shall certify to the Auditors of Carver County, the following sum to be raised by levy on all taxable property in the Lower Minnesota River Watershed District payable in the year 2022 for the purposes noted above: Forty One Thousand Seven Hundred Sixty Two and 18/100 Dollars (\$41,762.18), as provided in Minnesota Statutes, Sections 103D.911 and 103D.915; and

BE IT FURTHER RESOLVED by the Board of Managers of the LMRWD that the 2022 Preliminary Budget as proposed is hereby approved.

Adopted by the Board of Managers of the Lower Minnesota River Watershed District this 18th day of August, 2021.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:

  
\_\_\_\_\_  
Lauren Salvato, Secretary/Treasurer

The motion for the adoption of the foregoing resolution was seconded by Manager Mraz and upon a vote being taken thereon, the following voted in favor thereof: Amundson, Hartmann, Mraz, Raby and Salvato; and the following voted against the same: None. Whereupon said resolution was declared passed and adopted, this 18th day of August, 2021, signed by the President and his signature attested by the Secretary/Treasurer.

**SCHEDULE A**

District 060 - Lower MN River Watershed

The following table was presented for the Managers' consideration with regard to the proposed amounts to be levied in each separate county, based upon the net tax capacities available:

**Preliminary Certification of Apportioned Levies**

**Payable 2022**

1)	General Fund (M.S. 103D.905, Subd.3)		\$250,000.00
2)	Planning and Implementation Fund (M.S. 103B.241)		\$475,000.00
3)	Payable 2022 Property Tax Levy		\$725,000.00
<u>County</u>	(4) Payable 2021 Taxable Net Tax Capacity	(5) Net Tax Capacity Percent Distribution	(6) Apportioned Payable 2022 Levy \$725,000 x column (5)
Carver	\$7,450,063	5.7603%	\$41,762.18
Dakota	\$12,872,721	9.9522%	\$72,153.45
Hennepin	\$54,760,464	42.3399%	\$306,964.28
Scott	\$54,253,089	41.9476%	\$304,120.10
<b>TOTAL</b>	<b>\$129,335,337</b>	<b>100.00%</b>	<b>\$725,000.00</b>



Manager Raby introduced the following resolution and moved its adoption:

RESOLUTION 21-09

LOWER MINNESOTA RIVER WATERSHED DISTRICT

PRELIMINARY CERTIFICATION OF PROPERTY TAX LEVIES FOR DAKOTA COUNTY

FOR TAXES PAYABLE 2022

AND APPROVAL OF 2022 PROPOSED BUDGET

WHEREAS, the Board of Managers of the Lower Minnesota River Watershed District ("LMRWD") has proposed a total budget of One Million Thirty Five Thousand and 00/100 Dollars (\$1,035,000.00) for the fiscal year commencing January 1, 2022; and

WHEREAS, the proposed budget requires Seven Hundred Twenty Five Thousand Dollars (\$725,000) to be raised from an ad valorem tax levy on taxable property in the LMRWD, apportioned according to the attached Schedule A, for the purpose of paying administrative expenses (Minnesota Statutes § 103D.905 Subd. 3) of Two Hundred Fifty Thousand Dollars (\$250,000) and providing for a planning and implementation fund (Minnesota Statutes § 103B.241) of Four Hundred Seventy Five Thousand Dollars (\$475,000).


NOW, THEREFORE, BE IT RESOLVED, that the Secretary, in accordance with Minnesota Statutes, shall certify to the Auditors of Dakota County, the following sum to be raised by levy on all taxable property in the Lower Minnesota River Watershed District payable in the year 2022 for the purposes noted above: Seventy Two Thousand One Hundred Fifty Three and 45/100 Dollars (\$72,153.45), as provided in Minnesota Statutes, Sections 103D.911 and 103D.915; and

BE IT FURTHER RESOLVED by the Board of Managers of the LMRWD that the 2022 Preliminary Budget as proposed is hereby approved.

Adopted by the Board of Managers of the Lower Minnesota River Watershed District this 18th day of August, 2021.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:

  
\_\_\_\_\_  
Lauren Salvato, Secretary/Treasurer

The motion for the adoption of the foregoing resolution was seconded by Manager Mraz and upon a vote being taken thereon, the following voted in favor thereof: Amundson, Hartmann, Mraz, Raby and Salvato; and the following voted against the same: None. Whereupon said resolution was declared passed and adopted, this 18th day of August, 2021, signed by the President and his signature attested by the Secretary/Treasurer.

**SCHEDULE A**

District 060 - Lower MN River Watershed

The following table was presented for the Managers' consideration with regard to the proposed amounts to be levied in each separate county, based upon the net tax capacities available:

**Preliminary Certification of Apportioned Levies**

**Payable 2022**

1)	General Fund (M.S. 103D.905, Subd.3)		\$250,000.00	
2)	Planning and Implementation Fund (M.S. 103B.241)		\$475,000.00	
3)	Payable 2022 Property Tax Levy		\$725,000.00	
	<u>County</u>	(4) Payable 2021 Taxable Net Tax Capacity	(5) Net Tax Capacity Percent Distribution	(6) Apportioned Payable 2022 Levy \$725,000 x column (5)
	Carver	\$7,450,063	5.7603%	\$41,762.18
	Dakota	\$12,872,721	9.9522%	\$72,153.45
	Hennepin	\$54,760,464	42.3399%	\$306,964.28
	Scott	\$54,253,089	41.9476%	\$304,120.10
	<b>TOTAL</b>	<b>\$129,335,337</b>	<b>100.00%</b>	<b>\$725,000.00</b>

Manager Raby introduced the following resolution and moved its adoption:

RESOLUTION 21-10

LOWER MINNESOTA RIVER WATERSHED DISTRICT

PRELIMINARY CERTIFICATION OF PROPERTY TAX LEVIES FOR HENNEPIN COUNTY

FOR TAXES PAYABLE 2022

AND APPROVAL OF 2022 PROPOSED BUDGET

WHEREAS, the Board of Managers of the Lower Minnesota River Watershed District ("LMRWD") has proposed a total budget of One Million Thirty Five Thousand and 00/100 Dollars (\$1,035,000.00) for the fiscal year commencing January 1, 2022; and

WHEREAS, the proposed budget requires Seven Hundred Twenty Five Thousand Dollars (\$725,000) to be raised from an ad valorem tax levy on taxable property in the LMRWD, apportioned according to the attached Schedule A, for the purpose of paying administrative expenses (Minnesota Statutes § 103D.905 Subd. 3) of Two Hundred Fifty Thousand Dollars (\$250,000) and providing for a planning and implementation fund (Minnesota Statutes § 103B.241) of Four Hundred Seventy Five Thousand Dollars (\$475,000).


NOW, THEREFORE, BE IT RESOLVED, that the Secretary, in accordance with Minnesota Statutes, shall certify to the Auditors of Hennepin County, the following sum to be raised by levy on all taxable property in the Lower Minnesota River Watershed District payable in the year 2022 for the purposes noted above: Three Hundred Six Thousand Nine Hundred Sixty Four and 28/100 Dollars (\$306,964.28), as provided in Minnesota Statutes, Sections 103D.911 and 103D.915; and

BE IT FURTHER RESOLVED by the Board of Managers of the LMRWD that the 2022 Preliminary Budget as proposed is hereby approved.

Adopted by the Board of Managers of the Lower Minnesota River Watershed District this 18th day of August, 2021.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:

  
\_\_\_\_\_  
Lauren Salvato, Secretary/Treasurer

The motion for the adoption of the foregoing resolution was seconded by Manager Mraz and upon a vote being taken thereon, the following voted in favor thereof: Amundson, Hartmann, Mraz, Raby and Salvato; and the following voted against the same: None. Whereupon said resolution was declared passed and adopted, this 18th day of August, 2021, signed by the President and his signature attested by the Secretary/Treasurer.

**SCHEDULE A**

District 060 - Lower MN River Watershed

The following table was presented for the Managers' consideration with regard to the proposed amounts to be levied in each separate county, based upon the net tax capacities available:

**Preliminary Certification of Apportioned Levies**

**Payable 2022**

1)	General Fund (M.S. 103D.905, Subd.3)		\$250,000.00
2)	Planning and Implementation Fund (M.S. 103B.241)		\$475,000.00
3)	Payable 2022 Property Tax Levy		\$725,000.00
<u>County</u>	(4) Payable 2021 Taxable Net Tax Capacity	(5) Net Tax Capacity Percent Distribution	(6) Apportioned Payable 2022 Levy \$725,000 x column (5)
Carver	\$7,450,063	5.7603%	\$41,762.18
Dakota	\$12,872,721	9.9522%	\$72,153.45
Hennepin	\$54,760,464	42.3399%	\$306,964.28
Scott	\$54,253,089	41.9476%	\$304,120.10
<b>TOTAL</b>	<b>\$129,335,337</b>	<b>100.00%</b>	<b>\$725,000.00</b>

Manager Raby introduced the following resolution and moved its adoption:

RESOLUTION 21-11

LOWER MINNESOTA RIVER WATERSHED DISTRICT

PRELIMINARY CERTIFICATION OF PROPERTY TAX LEVIES FOR SCOTT COUNTY

FOR TAXES PAYABLE 2022

AND APPROVAL OF 2022 PROPOSED BUDGET

WHEREAS, the Board of Managers of the Lower Minnesota River Watershed District ("LMRWD") has proposed a total budget of One Million Thirty Five Thousand and 00/100 Dollars (\$1,035,000.00) for the fiscal year commencing January 1, 2022; and

WHEREAS, the proposed budget requires Seven Hundred Twenty Five Thousand Dollars (\$725,000) to be raised from an ad valorem tax levy on taxable property in the LMRWD, apportioned according to the attached Schedule A, for the purpose of paying administrative expenses (Minnesota Statutes § 103D.905 Subd. 3) of Two Hundred Fifty Thousand Dollars (\$250,000) and providing for a planning and implementation fund (Minnesota Statutes § 103B.241) of Four Hundred Seventy Five Thousand Dollars (\$475,000).

NOW, THEREFORE, BE IT RESOLVED, that the Secretary, in accordance with Minnesota Statutes, shall certify to the Auditors of Scott County, the following sum to be raised by levy on all taxable property in the Lower Minnesota River Watershed District payable in the year 2022 for the purposes noted above: Three Hundred Four Thousand One Hundred Twenty and 10/100 Dollars (\$304,120.10), as provided in Minnesota Statutes, Sections 103D.911 and 103D.915; and

BE IT FURTHER RESOLVED by the Board of Managers of the LMRWD that the 2022 Preliminary Budget as proposed is hereby approved.

Adopted by the Board of Managers of the Lower Minnesota River Watershed District this 18th day of August, 2021.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:

  
\_\_\_\_\_  
Lauren Salvato, Secretary/Treasurer

The motion for the adoption of the foregoing resolution was seconded by Manager Mraz and upon a vote being taken thereon, the following voted in favor thereof: Amundson, Hartmann, Mraz, Raby and Salvato; and the following voted against the same: None. Whereupon said resolution was declared passed and adopted, this 19th day of August, 2020, signed by the President and his signature attested by the Secretary/Treasurer.

**SCHEDULE A**

District 060 - Lower MN River Watershed

The following table was presented for the Managers' consideration with regard to the proposed amounts to be levied in each separate county, based upon the net tax capacities available:

**Preliminary Certification of Apportioned Levies**

**Payable 2022**

1)	General Fund (M.S. 103D.905, Subd.3)	\$250,000.00	
2)	Planning and Implementation Fund (M.S. 103B.241)	\$475,000.00	
3)	Payable 2022 Property Tax Levy	\$725,000.00	
	(4)	(5)	(6)
<u>County</u>	Payable 2021 Taxable Net Tax Capacity	Net Tax Capacity Percent Distribution	Apportioned Payable 2022 Levy \$725,000 x column (5)
Carver	\$7,450,063	5.7603%	\$41,762.18
Dakota	\$12,872,721	9.9522%	\$72,153.45
Hennepin	\$54,760,464	42.3399%	\$306,964.28
Scott	\$54,253,089	41.9476%	\$304,120.10
<b>TOTAL</b>	<b>\$129,335,337</b>	<b>100.00%</b>	<b>\$725,000.00</b>

Manager Hartmann introduced the following resolution and moved its adoption:

LOWER MINNESOTA RIVER WATERSHED DISTRICT

RESOLUTION 21-12

ADOPTING 202~~1~~<sup>2</sup> BUDGET AND CERTIFICATION OF  
PROPERTY TAX LEVY FOR TAXES PAYABLE 202~~1~~<sup>2</sup>

WHEREAS, in August 2021, the Board of Managers of the Lower Minnesota River Watershed District ("LMRWD") gave preliminary approval of a proposed total budget of One Million One Hundred Fifteen Thousand and 00/100 Dollars (\$1,115,000.00) for the fiscal year commencing January 1, 2022; and

WHEREAS the 2021 budget requires Seven Hundred Twenty-Five Thousand Dollars and 00/100 (\$725,000) to be raised from an ad valorem tax levy on taxable property located in the LMRWD, for the purpose of paying administrative expenses (Minnesota Statutes § 103D.905 Subd. 3) of Two Hundred Fifty Thousand Dollars (\$250,000) and providing for a planning and implementation fund (Minnesota Statutes § 103B.241) of Four Hundred Seventy-Five Thousand Dollars (\$475,000).


NOW, THEREFORE, BE IT RESOLVED, that the Secretary, in accordance with Minnesota Statutes, shall certify an ad valorem tax of Seven Hundred Twenty Five Thousand Dollars and 00/100 (\$725,000) to the Auditors of the following Counties: Carver, Dakota, Hennepin and Scott apportioned according to the attached Schedule A, which sum to be raised by a levy on all taxable property in the Lower Minnesota River Watershed District payable in the year 2022 and for the purposes noted above as provided in Minnesota Statutes, Sections 103D.911 and 103D.915;

BE IT FURTHER RESOLVED by the Board of Managers of the LMRWD that the proposed 2022 Budget is hereby approved and adopted as the final budget for 2022.

Adopted by the Board of Managers of the Lower Minnesota River Watershed District this 15th day of December 2021.

  
\_\_\_\_\_  
Jesse Hartmann, President

ATTEST:

  
\_\_\_\_\_  
Lauren Salvato, Secretary

The motion for the adoption of the foregoing resolution was seconded by *Salvato* and upon a vote being taken thereon, the following voted in favor thereof: Amundson, Hartmann, Mraz, Raby and Salvato; and the following voted against the same: None. Whereupon said resolution was declared passed and adopted, this 15th day of December 2021, signed by the President and his signature attested by the Secretary.

**SCHEDULE A**

District 060 - Lower MN River Watershed

The following table was presented for the Managers' consideration with regard to the proposed amounts to be levied in each separate county, based upon the net tax capacities available:

**Preliminary Certification of Apportioned Levies**

**Payable 2022**

1)	General Fund (M.S. 103D.905, Subd.3)	\$250,000.00	
2)	Planning and Implementation Fund (M.S. 103B.241)	\$475,000.00	
3)	Payable 2022 Property Tax Levy	\$725,000.00	
	(4)	(5)	(6)
<u>County</u>	Payable 2021 Taxable Net Tax Capacity	Net Tax Capacity Percent Distribution	Apportioned Payable 2022 Levy \$725,000 x column (5)
Carver	\$7,450,063	5.7603%	\$41,762.18
Dakota	\$12,872,721	9.9522%	\$72,153.45
Hennepin	\$54,760,464	42.3399%	\$306,964.28
Scott	\$54,253,089	41.9476%	\$304,120.10
<b>TOTAL</b>	<b>\$129,335,337</b>	<b>100.00%</b>	<b>\$725,000.00</b>



Manager Hartmann introduced the following resolution and moved its adoption,

RESOLUTION 21-13

LOWER MINNESOTA RIVER WATERSHED DISTRICT  
BOARD OF MANAGERS

A RESOLUTION OF APPRECIATION FOR SERVICE AND CONTRIBUTION OF DAVID RABY TO  
THE LOWER MINNESOTA RIVER WATERSHED DISTRICT

WHEREAS, the Lower Minnesota River Watershed District (the "District") is a special purpose unit of government established in accordance with Minnesota State Statute 103D; and

WHEREAS, under said Statute, the District is charged with the responsibility for the management of storm water, to protect persons and property from flooding, to protect and preserve the water quality of lakes, streams, rivers and wetlands within the boundaries of the District and downstream receiving waters. In addition to the duties, for which the District was created, of Local Sponsor for the IJS Army Corps of Engineers maintenance of the Nine Foot Navigation Channel; and

WHEREAS, David Raby has served as a Manager, representing Hennepin County, on the Board of Managers for the District from 2015 to the present, serving as Treasurer from 2015 to 2017, and 2020 to 2021 Secretary/Treasurer 2017 to 2020 and Assistant Treasurer 2021 until his departure from the Board; and

WHEREAS, David has freely and generously given his time and knowledge, expertise and talent to serve the public and protect the environment; and


WHEREAS, David has provided his professional expertise, leadership and guidance to the District with vision, integrity, an open mind and a conscientious dedication to the mission of the District; and

WHEREAS, David provided leadership to the District, during the development of the District's dredge management operations; the Plan clarification in 2016 and the most recent Plan Amendment/Update; development of rules; and many other activities and projects, as well as an overarching concern for the Minnesota River; and


WHEREAS, David has always treated the public, staff and fellow commissioners with respect and courtesy, and offered advice and counsel to the District with fairness and common sense.

NOW THEREFORE BE IT RESOLVED that the Lower Minnesota River Watershed District Board of Managers hereby expresses its sincere and grateful appreciation to David Raby for his many years of distinguished service to the Lower Minnesota River Watershed District and the public.

Adopted by the Board of Managers of the Lower Minnesota River Watershed District this 15th day of December 2021.

  
\_\_\_\_\_  
Jesse Hartmann, President

Attested:

  
\_\_\_\_\_  
Lauren Salvato, Secretary

The motion for the adoption of the foregoing resolution was seconded by Manager Mraz and upon a vote being taken thereon, the following voted in favor thereof: Amundson, Hartmann, Mraz and Salvato; and the following voted against the same: None. Manager Raby abstained. Whereupon said resolution was declared passed and adopted this 15<sup>th</sup> day of December 2021, signed by the President and his signature attested by the Secretary.



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## Appendix C

### **Watershed Plan Implementation Program**

## **4 IMPLEMENTATION PROGRAM**

This section presents the Implementation Program (Program) for the Plan. The District's Program addresses water resources and programmatic issues discussed in Section 2 and applies the goals, policies, and strategies address in Section 3. The District's Program consists of administrative and managerial efforts, coordination, studies, programs, capital improvement projects (CIP), and funding mechanisms to successfully execute the Plan. Each element is described below. The Program schedule and budget are presented in Table 4-1. Since this Plan was not completed in time for the 2017 budgeting cycle, this Program begins in 2018 and ends in 2027. The Program's estimated impacts on residents and local government are presented in the next section. The District will review the implementation program every two years, at minimum.

### **4.1 ADMINISTRATIVE AND MANAGERIAL**

Administrative and managerial efforts will be carried out by the District's administrator. The administrator, and consultants will perform the District's day-to-day operations and implement other elements of the Program, as discussed below. Administrative services also include legal, audit, bookkeeping services, office space, office equipment, office rent, information management systems (e.g. computers, copiers, website, etc.), training, and general engineering services. The District's general levy finances these efforts.

**Table 4-1: Lower Minnesota River Watershed District - Implementation Program Budget for 2018 -2027**

ACTION	Year									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
<b>EXPENDITURE</b>										
<b>Administrative/Managerial</b>										
General Administrative Services, Conferences, Coordination with LGUs, Stakeholders and other Project Partners, LGU Program Reviews, 9-Foot Channel, and Advisory Committees (Technical and Citizen)	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
<b>Administrative/Managerial Budget Total</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>
<b>Studies and Programs</b>										
Cost Share Incentive and Water Quality Restoration Program	\$20,000	\$20,000	\$20,000	\$50,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Education and Outreach Program	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$40,000
Fen Stewardship Program	\$75,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Geomorphic Assessments (Trout Streams)	\$50,000		\$50,000				\$50,000	\$50,000		
Monitoring Program	\$65,000	\$65,000	\$65,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$100,000	\$100,000
Paleo-limnology Study (Floodplain Lakes)	\$50,000						\$50,000			
Sustainable Lake Management Plans (Trout Lakes)	\$50,000		\$50,000		\$50,000		\$50,000	\$50,000		\$50,000
Vegetation Management Plan		\$50,000							\$65,000	
Water Resources Restoration Fund			\$100,000	\$100,000	\$120,000	\$125,000	\$100,000	\$100,000	\$160,000	\$150,000
<b>Studies and Programs Budget Total</b>	<b>\$340,000</b>	<b>\$190,000</b>	<b>\$340,000</b>	<b>\$280,000</b>	<b>\$320,000</b>	<b>\$275,000</b>	<b>\$400,000</b>	<b>\$350,000</b>	<b>\$410,000</b>	<b>\$385,000</b>
<b>Capital Improvements</b>										
Assumption Creek Hydrology Restoration Project		\$30,000								
Carver Creek Restoration Project		\$80,000	\$15,000							
Minnesota River Corridor Management Project			\$25,000	\$75,000						
Groundwater Screening Tool Model	\$50,000	\$50,000	\$50,000							
District Boundary Modification Project	\$10,000									
Downtown Shakopee Targeted BMP Feasibility Study					\$50,000					
Dredge Site Restoration Project	\$240,000	\$240,000								
Eagle Creek (East Branch) Project	\$10,000	\$10,000								
East Creek Bank Stabilization Project		\$50,000								
East Creek Water Quality Treatment Project		\$50,000	\$25,000							
Minnesota River Assessment of Ecological and Economic Impacts of Sedimentation							\$25,000	\$30,000	\$45,000	\$50,000
Minnesota River Assessment of Water Storage Benefits and Opportunities.							\$30,000	\$25,000	\$45,000	\$50,000
Minnesota River Floodplain Model Feasibility Study		\$30,000								
Minnesota River Sediment Reduction Strategy	\$15,000	\$25,000								
Minnesota River Study Area 3 – Bluff Stabilization Project					\$100,000	\$250,000				
Realignment of the Prior Lake Spring Lake Outlet Channel				\$70,000	\$30,000					
Riley Creek Project – Downstream of Flying Cloud Drive	\$50,000	\$75,000								
Schroeder's Acres Park/Savage Fen Stormwater Management Project		\$39,555	\$181,055							
Seminary Fen Restoration Site A				\$75,000						
Seminary Fen Restoration Site B							\$50,000	\$25,000		
Seminary Fen Ravines Site C-2 and C-3 Studies							\$20,000	\$40,000		
Seminary Fen Ravines Site C-2 and C-3 Design and Construction								\$55,000	\$50,000	\$65,000
Spring Creek Project		\$45,000								
West Chaska Creek Project		\$50,000								

ACTION	Year									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Capital Improvements Budget	\$375,000	\$774,555	\$296,055	\$220,000	\$180,000	\$250,000	\$125,000	\$175,000	\$140,000	\$165,000
<b>TOTAL EXPENDITURES</b>	<b>\$965,000</b>	<b>\$1,214,555</b>	<b>\$886,055</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$775,000</b>	<b>\$775,000</b>	<b>\$775,000</b>	<b>\$800,000</b>	<b>\$800,000</b>
<b>REVENUE</b>										
General Levy	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Planning and Implementation Levy	\$475,000	\$588,500	\$500,000	\$500,000	\$500,000	\$525,000	\$525,000	\$525,000	\$550,000	\$550,000
WBF - Pilot Funding (Scott)		\$73,275	\$73,275							
WBF - Pilot Funding (Carver)		\$12,736	\$12,736							
WBF - Pilot Funding (Dakota)		\$32,725	\$32,725							
WBF - Pilot Funding (Hennepin)		\$17,319	\$17,319							
Special Channel Maintenance Funding										
Grants	\$240,000	\$240,000								
<b>TOTAL REVENUE</b>	<b>\$965,000</b>	<b>\$1,214,555</b>	<b>\$886,055</b>	<b>\$750,000</b>	<b>\$750,000</b>	<b>\$775,000</b>	<b>\$775,000</b>	<b>\$775,000</b>	<b>\$800,000</b>	<b>\$800,000</b>

## 4.2 COORDINATION WITH LOCAL, STATE, AND FEDERAL GOVERNMENTS AND NON-GOVERNMENT ORGANIZATIONS

This sub-section implements the District’s role as a facilitator. It involves staff coordination with local, state, and federal government and non-government organizations, participation in issues discussed during the State of Minnesota Legislative session, and collaboration with the COE to secure federal funds for the Minnesota River 9-foot channel.

**Table 4-2: Coordination Strategies with District Partners**

Strategy	Coordination Partner(s)	Schedule
Strategy 1.1.1, 1.2.1, 2.3.1, 2.3.4	LGUs, BWSR, MPCA, Metropolitan Council, SWCDs and neighboring WDs and WMO	Quarterly at a minimum
Strategy 1.3.3, 2.2.1, 6.1.1-2	LGUs	Annually
Strategy 2.2.3, 2.2.4	LGUs and SWCDs	Annually
Strategy 2.3.1-3, 3.2.1, 4.2.1-3	LGUs, BWSR, MPCA, Metropolitan Council, SWCDs, and neighboring WDs and WMO	Annually
Strategy 3.3.1	DOH	Annually
Strategy 5.1.2 - 3	LGUs and BWSR	Annually
Strategy 7.1.1	MPCA, LGUs	Annually
Strategy 7.4.1	LGUs, SWCDs and shoreland property owners	Annually
Strategies 8.2.1, 8.2.2, 8.3.1	COE, LGUs	On-going
Strategies 9.1.1-4 and 9.2.1-3	LGUs, TAC, CAC, and SWCDs	On-going, Quarterly

## 4.3 STUDIES AND PROGRAMS

Studies and programs include:

- Cost share Incentive and Water Quality Restoration Program (All strategies)
- Periodic Assessments and Program Reviews (Strategy 1.3.1)
- Detailed Data Assessments (Strategy 2.3.2)
- Monitoring Program (Strategies 2.3.1-2 and 3.3.1)
- Vegetation Management Standard/Plan (Strategy 7.2.1)
- Dredge Material Beneficial Use Plan (Strategy 8.2.2)
- 9-Foot Channel Strategic Funding Plan (Strategy 8.3.1)
- Education and Outreach Program (Strategies 1.2.1, 4.2.3, 8.1.1, 9.1.1-4 and 9.2.1-3)

These studies and programs were introduced and described in Section 3. Budgets for each study and program, with expenses beyond staff time, are shown in Table 4-1. These preliminary budgets are

reviewed and approved annually. Revenue for the operation and management of the District is primarily through the District's planning and implementation levy.

#### **4.3.1 Sustainable Lake Management Plans**

Sustainable lake management plans (SLMPs) will be developed for trout lakes in the District. These SLMPs will assess the following:

- Aquatic plant coverage and management
- Exotic species issues and management
- Shoreline condition and management
- Nutrient and temperature dynamics and management
- Stormwater runoff and groundwater contributions and management
- Roles and responsibilities for management
- Implementation schedule and plan
- Recreational opportunities (pier, public access, etc...)

#### **4.3.2 Geomorphic Assessments**

The geomorphic assessments will consider changes in trout stream alignment, confluence point(s), or geometry, and stream reaches upstream and downstream of confluence point(s). Stream width-to-depth ratios, stream bed slope, meander pattern, and other bed features shall be modeled according to a stable reference reach. Reference reaches are nearby, hydrologically, and geomorphically-stable stream segments. A reference reach could be upstream or downstream, or in a nearby watershed. Assessment of the current and future discharge and sediment regimes shall be based on watershed conditions that are above stream or as close as possible to the stream.

#### **4.3.3 Paleo-limnology Study**

The District is home to several floodplain lakes. These lakes are inundated with water and sediment from the Minnesota River. Through this project, the District will analyze sediment cores in two (2) lakes to understand their quality and rate deposition over time.

#### **4.3.4 Fen Stewardship Program**

The District, in partnership with the DNR and Metropolitan Council, will develop a fen stewardship program for the District's fens. The effort will review historical data, assess current conditions, and develop a road map for restoration, preservation, and protection of the District's fens.

#### **4.3.5 Water Resources Restoration Fund**

This broad-based fund implements Goal 2 and 3, which are to protect, improve, and restore surface water and groundwater quality within the District. This program will fund projects sponsored by LGUs that reduce urban nonpoint source pollution, improve, and protect groundwater quality, and promote surveys and studies of wetlands' (fen) health and management. Program effectiveness will



be measured in two ways: 1) by comparing water quality trends before and after projects are implemented, and 2) by how many projects are funded through the program.

#### **4.4 CAPITAL IMPROVEMENT PROJECTS**

Water management organizations that have adopted a watershed management plan, in accordance with M.S. 103B.231, may certify for payment by the counties all or any part of the cost of capital improvement projects (CIP) contained in the capital improvement program of the Plan. A copy of the Plan shall be forwarded to the county boards.

The District is required to hold a public hearing on the proposed CIP. The public hearing details must be published in a legal newspaper once a week for two successive weeks in counties that have affected waters and lands. The last publication shall occur not more than 30 days, or less than ten (10) days before the hearing. The notice shall state the hearing's time and place, the general nature of the proposed improvement, the estimated cost, and the cost improvement's payment method, including the cost allocated to each county. At least ten (10) days before the hearing, the District shall send notices by mail to the counties, each home rule charter, or statutory city or town located wholly or partly within the District's territory. The District recognizes that failure to mail a notice (or have defects in the notice) shall not invalidate the proceedings. After the proceedings and assessment statements have been filed with the auditor, each affected county shall pay its apportioned share of the project's total cost based on the engineer's reports or Managers' order.

Table 4-3 contains descriptions and planning level cost estimates for the CIP identified for the period between adoption of this Plan and the biennial Plan review.

**Table 4-3: Lower Minnesota River Watershed District – Capital Improvement Projects**

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
<i>Capital Improvement Projects</i>				
Assumption Creek Hydrology Restoration Project	Assumption Creek is a trout stream, so it is important to maintain the temperature of groundwater discharge. According to the City of Chaska, portions of the creek dry out periodically. It is unknown exactly what has reduced the hydrology of the creek. It may have been the U.S. Army Corps of Engineers' historic creek rerouting for the brick factory, road construction, or other development effects. The project described here will evaluate the opportunities available to resupply the groundwater hydrology to the creek.	City of Chaska and DNR	\$30,000	2019
Carver Creek Restoration Project	This will include stabilizing the outer bends with toe protection, grading banks to a more stable slope, and stabilizing the gully.	City of Carver, Carver WMO, Carver County SWCD and USFWS	\$95,000	2019 - 2020
Minnesota River Corridor Management Project	Using the Minnesota River as a focal point, this project will examine issues facing the river's complex natural system, a shared resource and a place where varied interests and other systems converge. We seek to (1) create greater understanding of the Lower Minnesota River Corridor and its landscape, (2) demonstrate a desired future for the river and how change in the surrounding landscape can help attain this future, (3) suggest a structure or framework by which the vision can be implemented, and (4) identify shared community and public values that form the basis of the project. (This design is modeled after the Vermillion River Corridor Plan.)	All District LGUs	\$100,000	2020 - 2021
Groundwater Screening Tool Model	The District will develop a district-specific groundwater model that can be used as a preliminary screening tool for the evaluation of groundwater appropriation requests related to four fens within the district (Black Dog, Fort Snelling, Nicols, and Quarry Island). The goal of the model is to define the approximate extent of the recharge zones for the fens and provide a method for evaluating whether the proposed groundwater withdrawals may cause significant decline in head at one or more of the referenced fens.	DNR	\$150,000	2018 - 2020
District Boundary Modification Project	District staff will work with BWSR and the neighboring watershed districts and water management organizations to review and possibly modify the district's jurisdictional boundary.	BWSR, Carver County WMO, and Riley – Purgatory Bluff Creek WD	\$10,000	2018
Downtown Shakopee Targeted BMP Feasibility Study	A feasibility study will be done in downtown Shakopee to identify opportunities for implementing the targeted best management practices.	City of Shakopee	\$50,000	2022

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
Dredge Site Restoration Project	This project consists of implementing the site restoration project identified in the February 15, 2017, <i>Estimate of Probable Cost, Cargill East River (MN-14.2 RMP) Dredge Material Site</i> technical memorandum prepared by Burns & McDonnell, Young Environmental Consulting Group, LLC, and Berrini & Associates, LLC, for the Cargill East River (MN – 14.2 RMP) Dredge Material Site located on the Minnesota River in Savage, Minnesota.	BWSR	\$480,000	2018 - 2019
Eagle Creek (East Branch) Project	This project will restore approximately 2,400 feet of stream and repair erosion under the 128th Street Bridge. The goals of the project are to reduce erosion and improve fish habitat. Due to beaver dams, the stream cuts into three valley walls, contributing to significant deposits of sediment.	DNR, MN Trout Unlimited and City of Savage.	\$20,000	2018 - 2019
East Creek Bank Stabilization Project	Identified in the East Chaska Creek Restoration feasibility study, the scour hole downstream of Crosstown Boulevard Bridge will be repaired, bank armoring installed, toe protection and grade control structures added behind Cuzzy’s Brickhouse Restaurant, and bank armoring and toe protection installed on the right bank of East Oak Street.	City of Chaska, MPCA and BWSR	\$50,000	2019
East Creek Water Quality Treatment Project	This feasibility study reports that the ideal site to construct a treatment wetland was south of the creek in two vacant lots along Chaska Boulevard. Most lots there are paved right up to the edge of the creek bank. The flow could be diverted from the creek channel into a stormwater treatment system to provide for sediment removal, flood storage, and bacteria treatment.	City of Chaska and MPCA	\$75,000	2019 - 2020
Minnesota River Assessment of Ecological and Economic Impacts of Sedimentation	This project will examine sedimentation in the Lower Minnesota River Watershed including monitoring, modeling, and analyzing sediment sources, sinks, and pathways in the watershed; summarizing how sources, sinks, and pathways may have changed; and estimating the economic and ecological effects of sedimentation. The project team will look at how sedimentation (1) changes the stage-discharge relationships that may cause flooding, (2) generates costs to maintain a commercial navigation channel on the Minnesota River, and (3) affects the watershed with its ecological conditions. Through these analyses, a new baseline can be established, and an understanding created of how changes in land use will alter the watershed baseline and create a new condition.	BWSR and Army Corps of Engineers	\$150,000	2024 - 2027

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
Minnesota River Assessment of Water Storage Benefits and Opportunities.	Using the Agricultural Conservation Planning Framework (ACPF) and the Prioritize, Target, and Measure Application (PTMApp), we will determine if a flow reduction would benefit from the placement of storage measures in key locations throughout the basin. This analysis will help us understand if the threshold for meaningful change can be realized to recommend specific levels of storage in the basin. The analysis is needed to accomplish the desired outcomes: (1) hydro-correct DEMs for the lower watershed where storage impacts are desired, (2) run ACPF on priority sub-basins to determine where storage opportunities exist, (3) develop a detailed hydrologic model if one does not exist, (4) run existing and storage scenarios to determine if the amount of the discharges could be lowered for hypothetical rainfall events ranging from 10-year to 100-year events, and (5) summarize the saturation of storage and the maximum change anticipated in the specific agro-ecoregion.	MPCA and BWSR	\$150,000	2025 - 2027
Minnesota River Floodplain Model Feasibility Study	We will review the existing Minnesota River floodplain model to determine if updates are required.	DNR, Army Corps of Engineers, and all LGUs within the District	\$30,000	2019
Minnesota River Sediment Reduction Strategy	This project team will collaborate with the MPCA in developing strategies for evaluating and mitigating sediment loads going into the Minnesota River.	MPCA and BWSR	\$40,000	2018 - 2019
Minnesota River Study Area 3 – Bluff Stabilization Project	To address river bank erosion, we will analyze the design and construction of the Minnesota River at Study Area 3 project in Eden Prairie. A study was completed in October 2008 for the City of Eden Prairie in cooperation with the district. Our project will expand the 2008 study by collecting and analyzing additional data that will extend to the final design, permitting, and construction.	City of Eden Prairie	\$350,000	2022 - 2023
Realignment of the Prior Lake Spring Lake Outlet Channel	This project will place additional capacity and control structures in the channel to handle increased runoff that is draining into the channel because of developments.	City of Shakopee	\$100,000	2021 - 2022
Riley Creek Project – Downstream of Flying Cloud Drive	The project will provide an energy dissipation below the County Road 61/ Flying Cloud Drive bridge and redirect flows away from outside the creek meanders.	Hennepin County	\$75,000	2018 - 2019
Schroeder's Acres Park/Savage Fen Stormwater Management Project	This project will evaluate options for incorporating storm-water wetland and irrigation reuse systems on the site and address phosphorous, temperature, metals, E. coli and runoff volume in Eagle Creek.	City of Savage and DNR	\$220,000	2019 - 2020
Seminary Fen Restoration Site A	At the intersection of Engler and Audubon in Chaska, Minnesota, 3.61 acres of wetland will be purchased and restored. This site is dominated by reed canary grass and offers the greatest threat to the rare plants of the Seminary Fen Wetland Community. The site is next to a 6-acre wetland that was restored by the City of Chaska in partnership with the DNR.	City of Chaska and DNR	\$75,000	2021

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
Seminary Fen Restoration Site B	A partially drained 17-acre wetland from Falls Curve Road to Old Highway 12, that is predominantly growing reed canary grass, will be restored. The restoration involves disabling the drainage system and restoring vegetation.	City of Chaska and DNR	\$75,000	2024 - 2025
Seminary Fen Ravines Site C-2 and C-3 Studies	Seminary Fen Ravine Sites C-2 and C-3 are actively discharging sediment into the Seminary Fen Wetland Complex. This project will conduct a ravine study to estimate sediment contribution to the Seminary Fen from sites C-2 and C-3 and provide approaches and cost estimates for correcting the erosion problems.	City of Chaska and DNR	\$60,000	2024 - 2025
Seminary Fen Ravines Site C-2 and C-3 Design and Construction	The final design and construction will be done for the Ravine Sites C-2 and C-3, which are discharging sediment into the Seminary Fen Wetland Complex.	City of Chaska and DNR	\$170,000	2025 - 2027
Spring Creek Project	This project consists of retrofitting two catch basins into the structural treatment devices in the Lenzen first and second additions. In addition, the project will treat untreated discharge that comes from upstream into Spring Creek at 6th Street.	City of Carver	\$45,000	2019
West Chaska Creek Project	The project will re-meander approximately 1,100 linear feet of a ditched segment of West Chaska Creek. Lengthening the channel will reduce water velocity, lower sheer stress on the banks, reconnect the creek to its floodplain, and reduce the amount of sediment transported downstream to the Minnesota River. Based on upstream reference reaches and changes observed since the creek was straightened, the re-meander project will reduce total suspended solids by an estimated 4,400 pounds per year for 30 years.	Carver County, City of Chaska and Carver County WMO	\$50,000	2019
<b>Potential Projects - Unfunded</b>				
Trout Stream #4 Restoration	The DNR and MN Trout Unlimited are considering rehabilitating a trout stream near the Cedar Bridge area. These efforts are to keep the stream listed as a trout stream by the DNR. The City of Burnsville may need to make storm sewer and drainage improvements in the existing system to help the stream become a viable trout habitat.	DNR, MN Trout Unlimited, City of Burnsville	\$10,000	2018
Resiliency Assessment of Major Drainage Systems and Improvements	This assessment includes a review of the City of Burnsville's major drainage systems to identify areas where failure of major drainage systems would necessitate expensive repairs in a short time and/or cause significant damage to private buildings. These high-risk areas will be identified to aid staff in planning future improvements.	City of Burnsville	\$390,000	2018 - 19
Keller Lake to Minnesota River Hydrologic and Hydraulic Analysis and Report	This analysis of the chain of water bodies that starts at Keller Lake and ends at the Minnesota River will identify adjustments that could be made to optimize water levels in the system. Changing rainfall frequencies and amounts are the reasons for this reevaluation.	City of Burnsville	\$75,000	2019
Minnesota River Quadrant (MQR) Stormwater and Floodplain Study and Report	This analysis of the MRQ's overall stormwater management system needs will accommodate future development. The report will guide the review of future developments in the MRQ to optimize the location of future stormwater management facilities.	City of Burnsville	\$50,000	2022

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
Bluff Area Risk Analysis	This analysis of the bluffs within the city will identify areas where the risk of failure is high or where failure would lead to a public safety risk or create a significant expense in a short time. This study will aid in the planning of related improvements in future capital improvement plans and future maintenance operations to proactively prevent slope failure.	City of Burnsville	\$50,000	2018
Ravine Restoration	This analysis of ravines will target those most in need of maintenance and then fund their repair to prevent loss of soils, retaining property values and reducing off-site deposit of these soils.	City of Burnsville	\$1,000,000	2019-2021
Transportation Capital Improvement Plan	This plan includes storm sewer system repair in Dakota County and the cities within it. Transportation infrastructure should be more environmentally sensitive.	Dakota County, Applicable LGUs	\$2,500,000	2018-2022
Parks and Greenways Capital Improvement Plan	This plan advances natural resource protection and restoration of the park and greenway system. In addition to managing 2,280 acres of land that have been restored or are undergoing restoration, the 2018–2022 CIP will restore an additional 956 acres. No specific projects are named, but \$1.023 million dollars is set aside annually for “Natural Resources Management: Base Program Funding.”	Dakota County	\$1,023,000	2018-2022
Land Conservation Capital Improvement Plan	This program works with willing landowners and partners to permanently protect and manage shoreland along rivers, streams, and undeveloped lakeshore; high-quality natural areas; wetlands; and associated agricultural land throughout Dakota County. Easements are a main component of this plan, mainly on agricultural lands, but on other private lands as well. Monitoring of the easements will also take place to ensure compliance with legal and stewardship plans and NRMP (natural resources management systems plan) requirements.	Dakota County, State of MN, Environmental Legacy Fund	\$11,335,000	2018-2022
Salisbury Hill (CR 51) Ravines	This is a high-priority project for the WMO. It’s willing to lead, finance, or provide incentives for this project. Unstable ravines are contributing large amounts of sediment to the Minnesota River and affecting county road maintenance. This project was included as a CIP in the previous plan but has been delayed because of changing priorities from the 2014 disaster and the need to wait for decisions about the future of roads in the area. The schedule is currently unknown because we are waiting for decisions about roads in the area.	Scott County WMO	\$750,000-\$1,500,000	2019-2026
Blaha Ravine	These ravine stabilization projects have been discussed with the City of Belle Plaine in the past; they have now included it as an official request in the letter of issues submitted to the Scott WMO at the start of the plan update process. The Scott WMO acknowledges that this will have some pollutant-loading reduction to the Minnesota River, but the reduction is small compared to the whole basin; thus, it is listed as a Tier 2 project. The City of Belle Plaine will lead the project.	Scott County, Belle Plaine, Scott WMO	\$234,000	2019-2026
Chestnut Ravine		Scott County, Belle Plaine, Scott WMO	\$102,000	2019-2026
SSTS Direct Discharge Incentives	In 2007, the county board established a cost-share program to accelerate the elimination of direct discharge SSTS. The approved TMDLs for Carver and Bevens Creeks identified that some of the	Carver County, CCWMO	\$150,000	

Project Name	Project Descriptions	Project Partner	Estimated Cost	Estimated Timeline
Blakeley Bluffs Ravine Stabilization, Phase 1	<p>fecal coliform entering those water bodies was from direct discharge and (failing) septic systems. The program offers direct incentives and low-interest loans to landowners to fix these systems, which are mainly concentrated in rural and agricultural areas in the county. The program is responsible for the entire county, except the City of Chanhasen, which has its own program.</p> <p>Phase 1 calls for assessment of ravine erosion on three county parcels within the future Blakeley Bluffs Park Reserve. Active erosion is occurring in several ravines. It appears the current rate of erosion is causing sedimentation and pollution of the dry creek bed leading to the Minnesota River. Further erosion has the potential to cut further into the bluff top areas, potentially encroaching on areas designated for future park use. Further understanding of the issue is needed to determine an appropriate response. Stabilization measures are likely needed to slow down the erosion currently taking place.</p>	Scott County, Clean Water	\$100,000	2019-2020
Wetland Mitigation Bank	<p>Wetland credits are needed for projects that are not eligible for the BWSR Local Road Wetland Replacement Program. The program does not provide mitigation for impacts due to trails or capacity-only construction projects. These types of improvements require the purchase of wetland banking credits on the open market or on-site mitigation. This project will work with several sites and potential property owners where wetland restoration is feasible and cost-effective to develop a wetland restoration project. If easements on suitable sites can be secured, construction could occur in the same year, and some credits could be released for use by the county as soon as as-built plans are prepared and certified.</p>	Scott County, State of MN	\$795,000	2019-2023
CH 51 & CH 53 Culvert Replacement	<p>Culverts will be replaced to address continuing erosion stabilization problems along the right-of-way. These culverts are larger in size and cannot be replaced by county maintenance forces. CH 51: between CH 1 and gravel portion. CH 53: ~ 1/2 mile south of TH 169</p>	Scott County	\$668,000	2018



# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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## Appendix D

### 2021 Social Media Analytics



Twitter

**2021 Q1 Post**

	<b>Impressions</b>	<b>Engagements</b>	<b>Likes</b>	<b>Link Clicks</b>	<b>Retweets</b>
60th Anniversary Video	155	5	0	0	0
World Wildlife Day	179	8	1	0	0
Tree Trimming	182	3	1	0	1
Pick up poop	223	3	0	0	2
Join the CAC	864	21	1	0	1
Board meeting	137	0	0	0	0
Household leaks	149	1	1	0	0
Rain barrel	131	4	1	0	0
International Day of Forests	170	1	0	0	1

**2021 Q2 Post**

	<b>Impressions</b>	<b>Engagements</b>	<b>Likes</b>	<b>Link Clicks</b>	<b>Retweets</b>
Bass Pond project	90	0	0	0	0
Clean-up for clean water	171	5	1	0	1
Board meeting	86	0	0	0	0
Trout stream fishing opener	656	22	5	0	2
Lower Riley Creek project	90	3	1	0	0
Earth Day	347	12	4	0	1
Cost share	137	6	1	0	0
Arbor Day	76	0	0	0	0
Where your water comes from	77	0	0	0	0
American Wetlands Month	78	4	1	0	0
Goldfish	81	0	0	0	0
Board meeting	79	0	0	0	0
Fishing Opener	88	1	0	0	0
Rain barrel	417	12	3	0	2
Pet waste	222	2	1	0	1
Memorial Day	76	0	0	0	0
Downspout redirect	80	4	0	0	0
Storm drains	79	1	0	0	0
Board meeting	84	0	0	0	0
Composting	119	1	0	0	1
Amazon Fulfillment Center	354	11	1	0	0
Summer	311	3	1	0	1
Eagle Creek project	87	1	1	0	0

Twitter

**2021 Q3 Post**

	<b>Impressions</b>	<b>Engagements</b>	<b>Likes</b>	<b>Link Clicks</b>	<b>Retweets</b>
4th of July	142	6	2	0	1
Construction permits	63	0	0	0	0
Trail closures	92	0	0	0	0
Sprinkler spruce up	57	1	1	0	0
Adopt a Drain	55	1	1	0	0
Blue Green Algae	253	16	3	0	3
Cost share	47	4	2	0	0
Lawn mower	316	16	6	0	3
Nat'l Water Quality Month	42	0	0	0	0
Water smart landscaping	36	0	0	0	0
Native landscaping	42	3	1	0	0
Lawn clippings	43	0	0	0	0
Interns at Board meeting	40	3	0	0	0

**2021 Q4 Post**

	<b>Impressions</b>	<b>Engagements</b>	<b>Likes</b>	<b>Link Clicks</b>	<b>Retweets</b>
Leaf raking	44	1	1		0
Interns work experience	45	0	0		0
Pelicans	85	3	1		0
Fall yard care	153	3	1		1
Raindrop map	54	1	0		0
Metro Childrens Water Festival	65	5	0		1
Trout streams	26	1	1		0
Rain barrel	176	20	3		4
Adopt A Drain	88	9	2		1
Construction permits	13	0	0		0
Daylight saving	45	0	0		0
America Recycles Day	19	0	0		0
Take a Hike Day	23	0	0		0
Feeding deer in winter	24	0	0		0
Follow the LMRWD	26	1	0		0
Pick up pet poop	28	4	0		1

\*as of Dec 1, 2021

Facebook

<b>2021 Q1 Post</b>	<b>Reach</b>	<b>Likes</b>	<b>Comments</b>
60th Anniversary Video	31	3	1
World Wildlife Day	21	3	0
Tree Trimming	19	2	0
Pick up poop	19	3	0
Join the CAC	15	2	0
Board meeting	13	2	0
Scott SWCD webinar	19	2	0
Household leaks	15	2	0
East Chaska Creek project	18	3	0
Rain barrel	14	0	0
International Day of Forests	15	2	0

\* post shared by others

Facebook

**2021 Q2 Post**

**Reach Likes Comments**

Bass Pond project	18	5	0
Adopt a Drain video	13	1	0
Clean-up for clean water	15	2	0
Board meeting	13	0	0
Trout stream fishing opener	17	3	0
Lower Riley Creek project	15	3	0
Earth Day	15	2	0
Cost share*	33	4	0
Arbor Day	15	1	0
Where your water comes from	18	1	0
American Wetlands Month	15	1	0
Goldfish*	35	3	0
Scott SWCD stabilize your shore	16	0	0
Board meeting	13	0	0
Fishing Opener	13	1	0
Rain barrel	16	2	0
Interns	21	3	0
Prior Lake Outlet Channel project	21	2	3
Pet waste	12	1	0
Memorial Day	11	0	0
Free Parks Day	10	0	0
Downspout redirect	9	2	0
Storm drains*	21	2	0
Scott SWCD stabilize your shore	5	0	0
Invasive species ID	10	0	0
Board meeting	10	0	0
Take a kid fishing	13	2	0
Salt Symposium	7	0	0
Composting	11	3	0
Amazon Fulfillment Center	19	4	0
Trace a raindrop	4	0	0
Summer	17	4	0
Apply for the Board	13	2	0
Eagle Creek project	19	3	0
Join the CAC	18	4	0

Facebook

**2021 Q3 Post**

	<b>Reach</b>	<b>Likes</b>	<b>Comments</b>
Gully Inventory	13	2	0
4th of July	16	2	0
Jefferson HS rain garden	26	4	0
Construction permits	12	1	0
Jumping worms	9	0	0
Starry Trek	9	0	0
KSTP goldfish	7	0	0
Judy Berglund	15	0	0
Trail closures	12	1	0
Scott SWCD Plant native prairie*	10	2	0
Board meeting	10	1	0
Sprinkler spruce up	10	1	0
Adopt a Drain	8	0	0
Bingo card	12	2	0
Blue Green Algae	6	0	0
Drought	9	1	0
Cost share	8	1	0
Lawn mower	13	2	0
Nat'l Water Quality Month	8	2	0
Craig Diederichs	8	0	0
Native landscaping	11	2	0
Board meeting	9	0	0
Lawn clippings	11	1	0
Interns at Board meeting	13	1	0
Scavenger hunt	13	1	0
Join the CAC	11	1	0
Invasive species	11	2	0
Greg Genz	21	2	0
Plan review meeting	12	1	0
Fens assessment	28	4	1
Labor Day	15	2	0
Board meeting	9	0	0
Interns	24	4	0
Jenny Karkowski	20	2	0
9-11	13	1	0
Fall fertilizing	11	0	0
Frist day of fall	17	1	0
National Parks Day	16	2	0
World Rivers Day	13	2	0
Theresa Kuplic	16	0	0

Facebook

**2021 Q4 Post**

	<b>Reach</b>	<b>Likes</b>	<b>Comments</b>
Leaf raking	14	1	0
Interns work experience	12	1	0
Pelicans	11	1	0
Fall yard care	10	1	0
Board meeting	10	0	0
Raindrop map	14	0	0
Metro Childrens Water Festival	8	0	0
Trout streams	17	1	0
Rain barrel	13	1	0
Adopt A Drain	6	1	0
Construction permits	12	1	0
Daylight saving	19	2	0
Board meeting	9	0	0
America Recycles Day	13	2	0
Take a Hike Day	13	2	0
Feeding deer in winter	15	3	0
Follow the LMRWD	13	0	0
Pick up pet poop	12	2	0

\*as of Dec 1, 2021

Instagram

<b>2021 Q1 Post</b>	<b>Reach</b>	<b>Likes</b>	<b>Comments</b>
60th Anniversary	30	10	3
Join the CAC	40	4	0
Board meeting	34	3	0
Household leaks	34	5	0
East Chaska Creek project	43	3	0
Rain barrel	41	4	0
International Day of Forests	36	1	0

<b>2021 Q2 Post</b>	<b>Reach</b>	<b>Likes</b>	<b>Comments</b>
Board meeting	36	3	0
Trout fishing opener	35	2	0
Lower Riley Creek project	37	2	0
Earth Day	32	3	0
Arbor Day	37	3	0
Nat'l Drinking Water Week	45	1	0
Goldfish	35	4	0
Rain barrel	53	5	0
Interns	44	4	0
Pet waste	46	2	1
Memorial Day	24	0	0
Downspout redirect	42	7	0
Storm drains	34	5	1
Composting	37	3	0
Amazon Fulfillment Center	47	2	0
Summer	44	4	0

\*post shared by others

Instagram

<b>2021 Q3 Post</b>	<b>Reach</b>	<b>Likes</b>	<b>Comments</b>
Gully inventory	46	3	0
4th of July	32	0	0
Jefferson HS rain garden	55	10	0
Judy Berglund	41	3	0
Lawn mower	39	1	0
Craig Diederichs	39	2	0
Native plants	49	8	0
Grass clippings	45	4	0
Interns at Board meeting	43	2	0
Join the CAC	68	15	0
Greg Genz	43	2	0
Fens assessment	43	4	0
Labor Day	35	3	0
Interns	58	6	0
Jenny Karkowski	32	1	0
9-11	29	1	0
Fall fertilizer	34	3	0
First day of fall	24	2	0
National Parks Day	23	1	0
World Rivers Day	40	3	0
Theresa Kuplic	36	4	0

<b>2021 Q4 Post</b>	<b>Reach</b>	<b>Likes</b>	<b>Comments</b>
Leaf raking	37	4	0
Interns work experience	29	0	0
Pelicans*	33	4	2
Fall yard care	32	4	0
Raindrop map	27	2	1
Metro Childrens Water Festival	23	1	0
Trout streams	54	9	1
Rain barrel	38	3	0
Adopt A Drain	40	3	0
Construction permits	31	4	0
Daylight saving	34	3	0
America Recycles Day	42	1	0
Take a Hike Day	27	3	0
Feeding deer in winter	42	3	0
Follow the LMRWD	35	1	1
Pick up pet poop	30	3	0

\*as of Dec 1, 2021





# LOWER MINNESOTA RIVER WATERSHED DISTRICT

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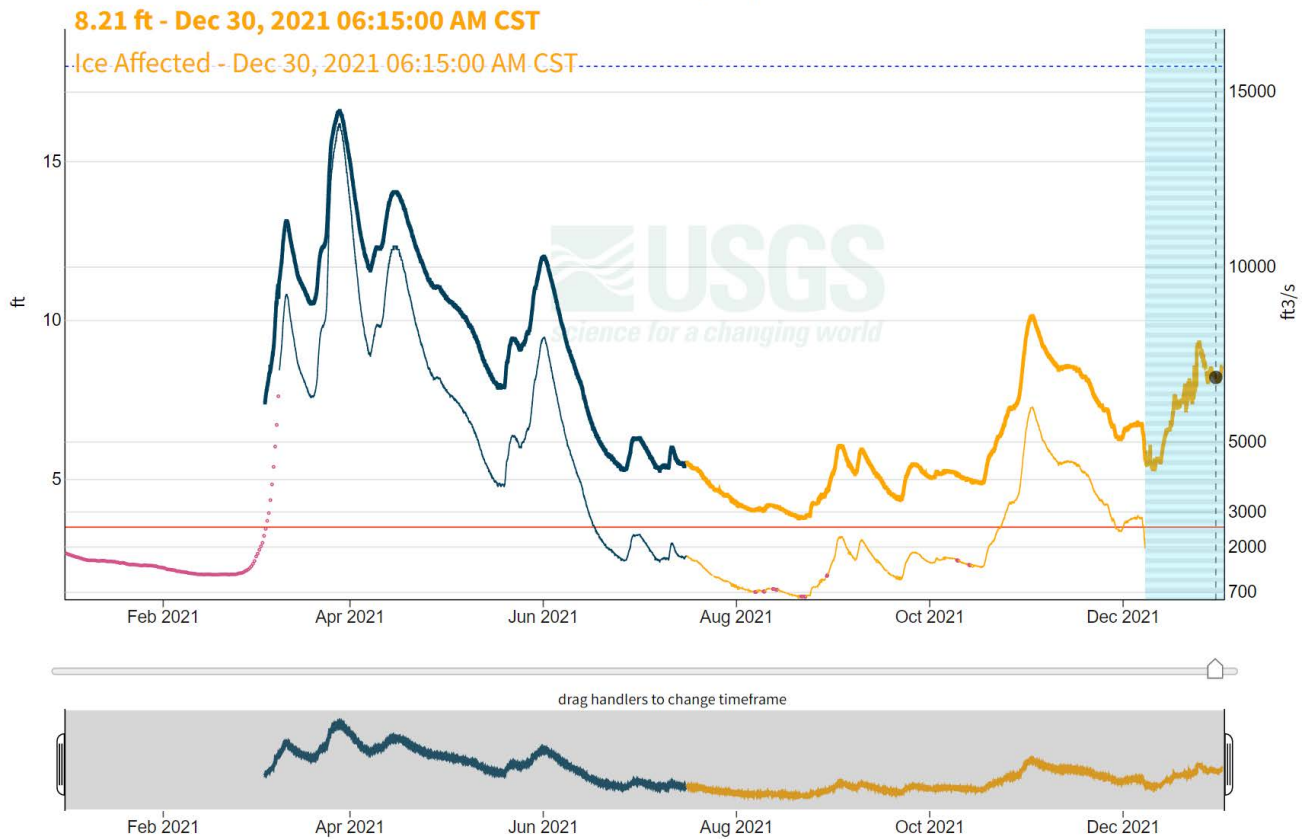
## Appendix E

### **Minnesota River 2021 Elevations**

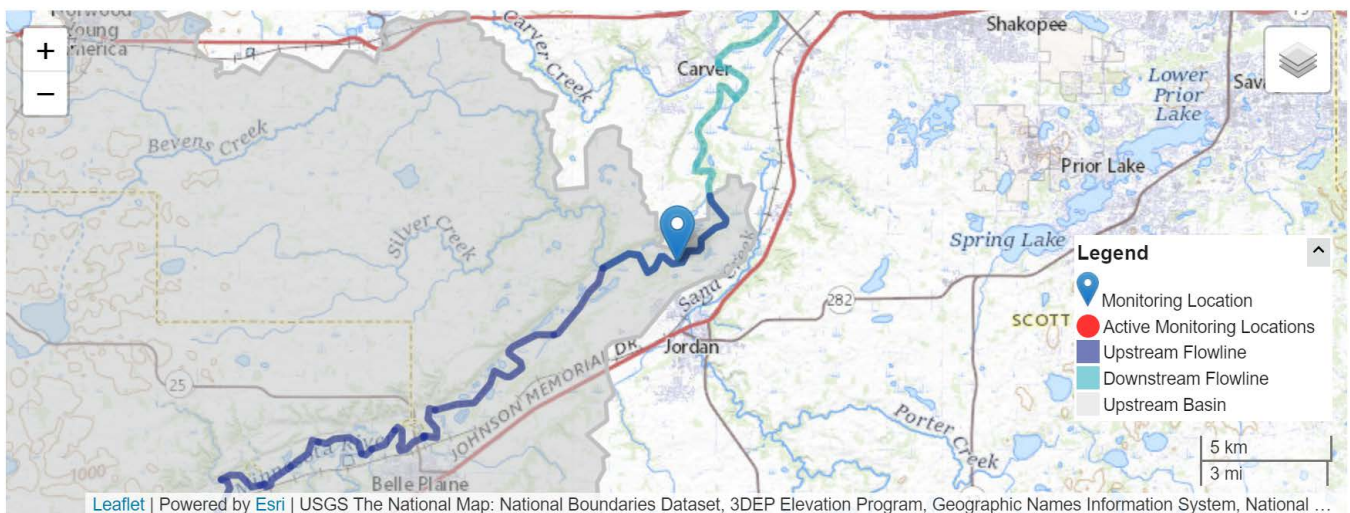
# MINNESOTA RIVER NEAR JORDAN, MN

IMPORTANT [Legacy real-time page](#)

Monitoring location 05330000 is associated with a STREAM in CARVER COUNTY, MINNESOTA. Current conditions of DISCHARGE, GAGE HEIGHT, PRECIPITATION, and MORE are available. Water data back to 1934 are available online.



- Current: — Approved — Provisional
- Secondary: — Estimated — Approved — Provisional — Ice Affected
- Action stage - - - 18 ft
- Minor flood stage — 25 ft
- Moderate flood stage — 28 ft
- Major flood stage — 34 ft
- Minimum operating limit — 3.5 ft



## Minnesota River Elevations

### **Provisional data**

Data are provisional and subject to revision until they have been thoroughly reviewed and received final approval. Current condition data relayed by satellite or other telemetry are automatically screened to not display improbable values until they can be verified.

Provisional data may be inaccurate due to instrument malfunctions or physical changes at the measurement site. Subsequent review based on field inspections and measurements may result in significant revisions to the data.

Data users are cautioned to consider carefully the provisional nature of the information before using it for decisions that concern personal or public safety or the conduct of business that involves substantial monetary or operational consequences. Information concerning the accuracy and appropriate uses of these data or concerning other hydrologic data may be obtained from the USGS.