



Bois de Sioux
Watershed District

Calendar Year 2021 Annual Activity Report



This report is provided pursuant to MN Statute § 103D.351

**BOIS DE SIOUX WATERSHED DISTRICT
ANNUAL REPORT
CALENDAR YEAR 2021**

BOARD OF MANAGERS

NAME	COUNTY	PHONE	TERM EXPIRES	OFFICERS
<i>Linda Vavra</i>	Stevens	320-677-2586	2022	President
<i>Allen Wold</i>	Traverse	320-563-8743	2023	Secretary
<i>John Kapphahn</i>	Grant	218-685-4604	2023	Treasurer
<i>Scott Gillespie</i>	Big Stone	320-748-7149	2024	
<i>Jerome Deal</i>	Traverse	320-563-8377	2022	
<i>Doug Dahlen</i>	Grant	320-766-5794	2022	
<i>Benjamin Brutlag</i>	Otter Tail	218-731-2117	2023	
<i>Jason Beyer</i>	Wilkin	218-651-0135	2024	Vice President
<i>Steven Schmidt</i>	Traverse	320-563-8104	2024	

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Jamie Beyer, Administrator

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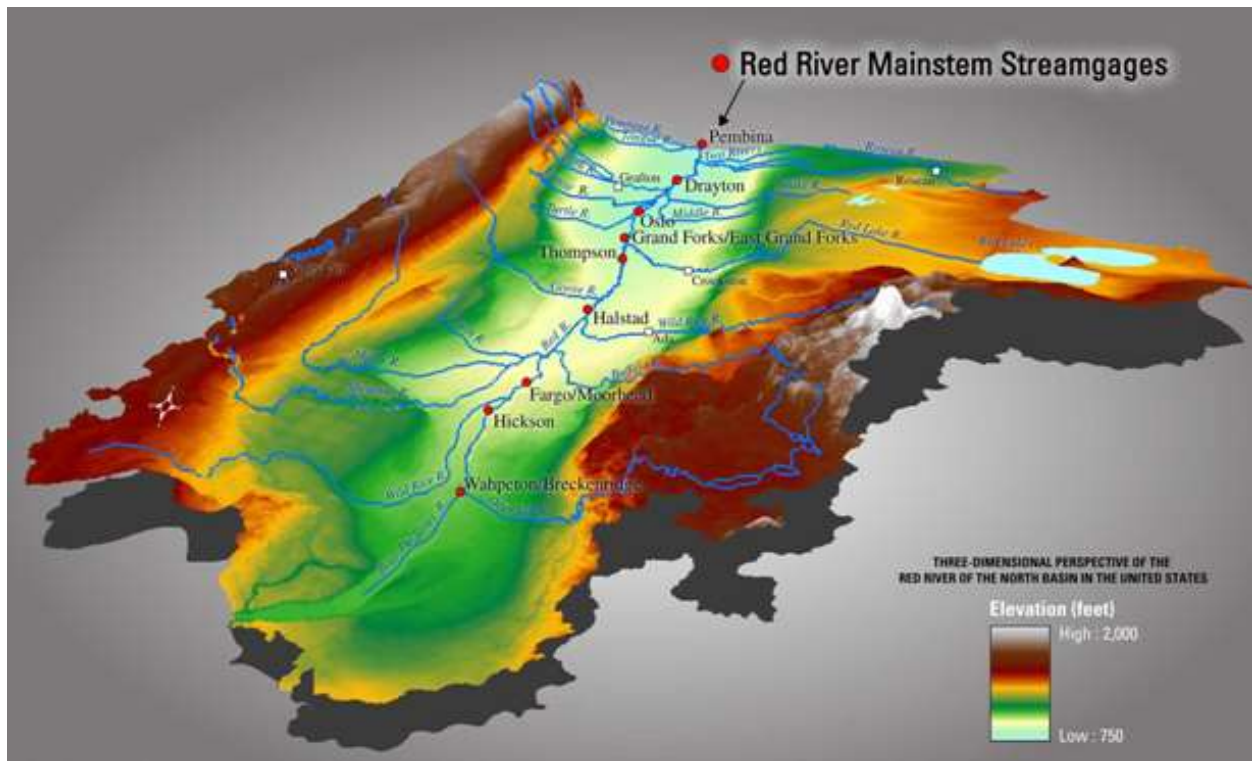
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SECTION ONE - GENERAL FUND

Project Status and Business Transacted

2021 Board Meetings

January 15, 2021	July 13, 2021
January 21, 2021	July 15, 2021
February 18, 2021	August 19, 2021
March 18, 2021	September 16, 2021
April 15, 2021	October 21, 2021
May 20, 2021	November 18, 2021
June 17, 2021	December 16, 2021

The Bois de Sioux Watershed District Board of Managers meet regularly on the third Thursday of each month starting at 8:00 a.m., April through October, and at 9:00 a.m., November through March.

Background

The Bois de Sioux Watershed District (the “District”) was established on May 11, 1988, by order of the Minnesota Board of Water and Soil Resources (BWSR). The District represents an area of about 1,420 square miles and includes Traverse County (38%), Grant County (27%), Wilkin County (14%), Stevens County (10%), Big Stone County (7%) and Otter Tail County (4%).

The District includes the drainage basins of Lake Traverse and the Bois de Sioux River within the State of Minnesota. The major tributaries are the Mustinka River and numerous creeks in the south and east and the Rabbit River to the north.

Mission Statement

To provide coordinated water resource management over the entire hydrologic basin of the Bois de Sioux River lying within the State of Minnesota.

Board Activity

The board held twelve regular monthly and two special meetings in 2021. Staff meetings were also conducted for purposes of reviewing issues identified at the board meetings and to meet with landowner groups in an informal setting, pursuant to Minn. Stat. § 103E.043, to discuss legal ditch repairs, permit activity, and other surface water related problems.

Red River Retention Authority

In 2010, the Red River Retention Authority (RRRA) was formed through a joint powers agreement between the Red River Watershed Management Board (RRWMB) in Minnesota and Red River Joint Water Resource District (RRJWRD) in North Dakota.

The RRRA is comprised of members of the RRWMB, a Minnesota political subdivision and the RRJWRD, a North Dakota political subdivision. The primary objective of the RRRA is to ensure joint, comprehensive, and strategic coordination of retention projects in the Red River of the North watershed and facilitate implementation and construction of retention in the Red River Valley. The RRRA and its members aggressively pursue federal dollars to off-set local costs for retention projects, and serve as an advocate for local projects in the federal regulatory process. The RRRA Directors seek basin-wide solutions to realize effective flood protection and flood damage

reduction, accomplished on a strategic project-by-project basis.

Red River Basin Flood Damage Reduction Work Group

The Flood Damage Reduction Work Group (FDRWG or Work Group) was originally formed in 1998 to address issues related to the development of flood damage reduction projects in that portion of the Red River of the North Basin lying in Minnesota.

While recognizing that the ultimate solutions to the flood damage and natural resource problems in the Red River Basin will take a concerted effort from people throughout the Basin, the Work Group was formed to address issues that are unique to Minnesota. However, the Work Group maintains extensive communications and coordination with jurisdictions and organizations throughout the Basin. For example, in 2005, two members of the Flood Damage Reduction Work Group also served as chairpersons for other Basin-wide organizations.

The Work Group is not a legally constituted body and has no regulatory or funding authority. It is an ad hoc group of individuals representing federal, state, and local governments, and non-governmental organizations that meet voluntarily under a set of mutually agreed upon ground rules. The Work Group meets for the purpose of coordinating the implementation of the 1998 Mediation Agreement and making recommendations to other authorities and jurisdictions within the Red River Basin to that effect.

Linda Vavra serves as a member to the FDRWG representing the RRWMB.

Minnesota Association of Watershed Districts

The Minnesota Association of Watershed Districts (MAWD) provides educational opportunities, information, and training for watershed district managers and staff through yearly tours, meetings, and regular communication.

MAWD represents 45 watershed districts in the state. The watershed districts are partners in water protection and management.

Linda Vavra continued to serve as a member representing Region I for the Minnesota Association of Watershed Districts Board of Directors.

BdSWD Advisory Committee

Chair Ron Staples	Tom Monson
Jay Backer	Mark Summers
Scott Bauer	Vernell Wagner
Duane Duin	John Walkup
Dean Frisch	
Doug Jahnke	
Eric Klindt	

The Advisory Committee met on March 17, 2021. Committee members met virtually and in-person with Engineers Chad Engels and James Guler, Engineer Technician Troy Fridgen, President Linda Vavra, and Administrator Beyer. The Committee received information on permitting, ditch projects, watershed projects, buffers, and the One Watershed One Plan. The committee also discussed the District's new education policy.

Other General Fund Activities

Billable Rates for 2021 set as follows. Billable Rates were also set for engineering and legal staff (06/17/21).

	District Administrator	District Office Manager	District Engineer Tech
Salary + Benefits	\$ 40.00	\$ 21.97	\$ 47.98
Salary + Benefits + Facilities	\$ 67.04	\$ 49.00	\$ 75.02
Salary + Benefits + Facilities + Administration	\$ 74.49	\$ 56.45	\$ 82.46

- **Alternative Public Hearing Measures:** Due to the COVID-19 pandemic, a resolution was passed in 2020 to facilitate remote (telephone and/or online) meeting participation. Hybrid meetings (in-person and on-line option) continued through June 17, 2021.
- **Education Policy:** An Education Policy was approved (01/21/21).
- **Vender Account Policy:** A policy to verify the authenticity of requests to change vendor bank account information was approved (06/17/21).
- **Conflict of Interest Policy:** A detailed Conflict of Interest Policy, required by the Lessard Sams Outdoor Heritage Grant Program, was approved (09/16/21).
- **Data Practices Policy:** An updated policy was approved (12/16/21).
- **Comprehensive Watershed Management Plan:** was adopted by resolution (01/21/21).
- **2021 Audit:** A letter of engagement with CliftonLarsonAllen was approved; the cost for the 2021 audit and financial statements (11/18/21).
- **2022 Staff Wages:** Staff increases were set at 5%. Engineering and legal billing rates were increased \$10/hour; administrator billing rates were increased \$5/hour (12/16/21).
- **Laptop Returned:** The Wheaton Police Department recovered the laptop missing since 2016 (07/15/21).
- **Final FEMA Payment:** The final FEMA payment for Flood 2019 was received, compensating the District for administrative costs, Category Z (03/18/21).
- **Financial Activities:** xxx grants closed and fully disbursed. Xxx grants in progress. Xxx grant applications submitted.
- **Annual Audit:** The financial statements and results of the 2020 annual audit were presented (03/18/21).
- **2021 Resolutions:** Resolution Officially Adopting the Bois de Sioux – Mustinka Comprehensive Watershed Management Plan (01/21/21); Local Government Resolution for Flood Hazard Mitigation Grant Assistance (02/18/21 & Revised 04/15/21); Resolution Rescinding Emergency Public Hearing Alternatives (06/17/21); Annual Resolution (06/17/21); Resolution of Support for Flood Hazard Mitigation Project Funding for Red River Watershed Management Projects (07/15/21); Resolution Supporting Change of Boundary with Upper Minnesota River Watershed District (07/15/21); Resolution of the Bois de Sioux Watershed District Ad Valorem Levy (08/19/21); Resolution of Support to Delay Land Acquisition to Promote Acquisition of Permanent Drainage Easements (08/19/21); Resolution Budgeting Annual Redpath Impoundment Project Funds (09/16/21); Resolution of Ad Valorem Tax (12/16/21); Resolution for Ditch Assessment Levies (12/16/21).

SECTION TWO - RRWMB FUND

Project Status and Business Transacted

The Red River Watershed Management Board's jurisdiction and authority encompasses the area managed by the individual watershed districts that have membership on the Board. The Bois de Sioux Watershed District continued with its membership to the Red River Watershed Management Board.

Seven watershed districts within the Red River Valley form the RRWMB including the Joe River, Two Rivers, Roseau River, Middle-Snake-Tamarac Rivers, Red Lake, Wild Rice, and Bois de Sioux.

The RRWMB was created by an act of the Minnesota Legislature in 1976 to provide an organization with a basin-wide perspective concerning flooding. Historically, the activities of the RRWMB have centered on flood control. Previous efforts in dealing with the flooding problem within the Red River Basin consisted of single projects within a localized area, planned with primary regard to local benefits. The RRWMB actively promotes a basin-wide perspective for water management.

Linda Vavra was elected to represent the District beginning 2019, with Allen Wold serving as alternate. Both terms expired 12/31/21. Linda Vavra was elected to represent the District beginning 2021, with Jason Beyer serving as alternate. Both terms will expire 12/31/23 (11/18/21).

Red River Watershed Management Board Levy

Per a notice from RRWMB Board Meeting dated July 20, 2021 – effective for the 2022 certified tax levy:

Upon the roll-call vote to set the Levy at 75 percent or 0.0003627 times the taxable market value on all taxable property within RRWMB member watershed districts via Resolution 2021R-21, the motion Carried, 7-0.

Other RRWMB Fund Activities

- **RRWMB August Board Meeting & Bus Tour:** The Bois de Sioux Watershed District Office hosted the RRWMB's regular August Board meeting, and the same day, also showcased the Lake Traverse Water Quality Improvement Project, Lake Traverse, Reservation Dam, Mud Lake, and White Rock Dam during a bus tour coordinated by the RRWMB.



SECTION THREE – CONSTRUCTION FUND

Project Status and Business Transacted

Project Teams

The Bois de Sioux Watershed District is a subwatershed of the Red River of the North Basin. In December 1998, many agencies and organizations signed the Red River Basin Mediation Agreement which outlined how projects will be developed in the Red River Valley in Minnesota. That agreement states that the districts within the basin will attempt to balance each project design with Flood Damage Reduction (FDR) benefits and Natural Resource Enhancements (NRE). Part of that process requires that each district establish a project team for each project containing members from local, regional, state, and federal agencies along with environmental organizations and local landowners.

The Bois de Sioux Watershed District has administered eight (8) project teams, and employs them when, or if needed, for planning projects: North Ottawa (project complete), Redpath (project permitted), East Branch Twelve Mile Creek, West Branch Twelve Mile Creek, Moonshine, Rabbit River, Bois de Sioux Direct (project complete), TCD #52 (project in progress). A great deal of information has historically been gathered from these teams, and the information gathered is considered in subsequent project design and permitting tasks.

Bylaws and Regulations

The Bois de Sioux Watershed District has adopted rules to control watershed activities as required by Minn. Stat. § 103D.341. Bois de Sioux Watershed District rules lay out a permit process that landowners must follow. Permits are required for any type of work related to subsurface drainage tile; new ditching; improved ditching; bridge and culvert installations; drainage from one sub-watershed to the other; construction, alteration, or removal of any dike; reservoir work; land forming; wetland drainage; and work within natural drainage ways, lakes, wetlands, and other abutting land and drainage structures. Landowners should contact the Bois de Sioux Watershed District Office for assistance and direction in filing permits.

Policy changes were made (04/15/21).

For a copy of the Policies and Procedures Manual of the Bois de Sioux Watershed District, please contact the Bois de Sioux Watershed District Office or go to www.bdswd.com.

Any land owner that proceeds to do work without a permit, when the project requires one, is subject to a minimum \$250 After-The Fact Permit Fee plus any Engineering/Attorney Fees incurred in processing of said permit.

There were a total of 167 permit applications received in 2021.

2021 Projects and Programs

Distributed Storage Strategy

In 2012, the BdSWD completed a 20% Flow Reduction Strategy for the watershed. This study focused on placing storage within the Bois de Sioux Watershed District. A total of 26 sites or potential projects were identified within the District. The storage was placed in the Lake Traverse and Rabbit River basins. Site selection was based primarily on the need for local flood control as flooding problems are widespread in the Bois de Sioux Watershed District.

The Bois de Sioux Watershed District prioritizes development of specific impoundment projects based on need, local support, budget, and importance of other watershed projects and programs that require the time of district staff.

Southern Boundary

The Upper Minnesota River Watershed District and the BdSWD jointly initiated proceedings to reevaluate the southern border west of State Highway 75 (03/18/21). A landowner meeting was held June 25, 2021, and several changes were made in response to landowner comments. BdSWD and Upper Minnesota River Watershed District finalized the proposed boundary and both signed petitions requesting a boundary revision(07/15/21). The Northwest Region of the Board of Soil and Water Resources held a required landowner hearing on November 22, 2021. The boundary adjustment was approved by the Board of Water and Soil Resources Board on January 26, 2022.

North Ottawa Impoundment Project

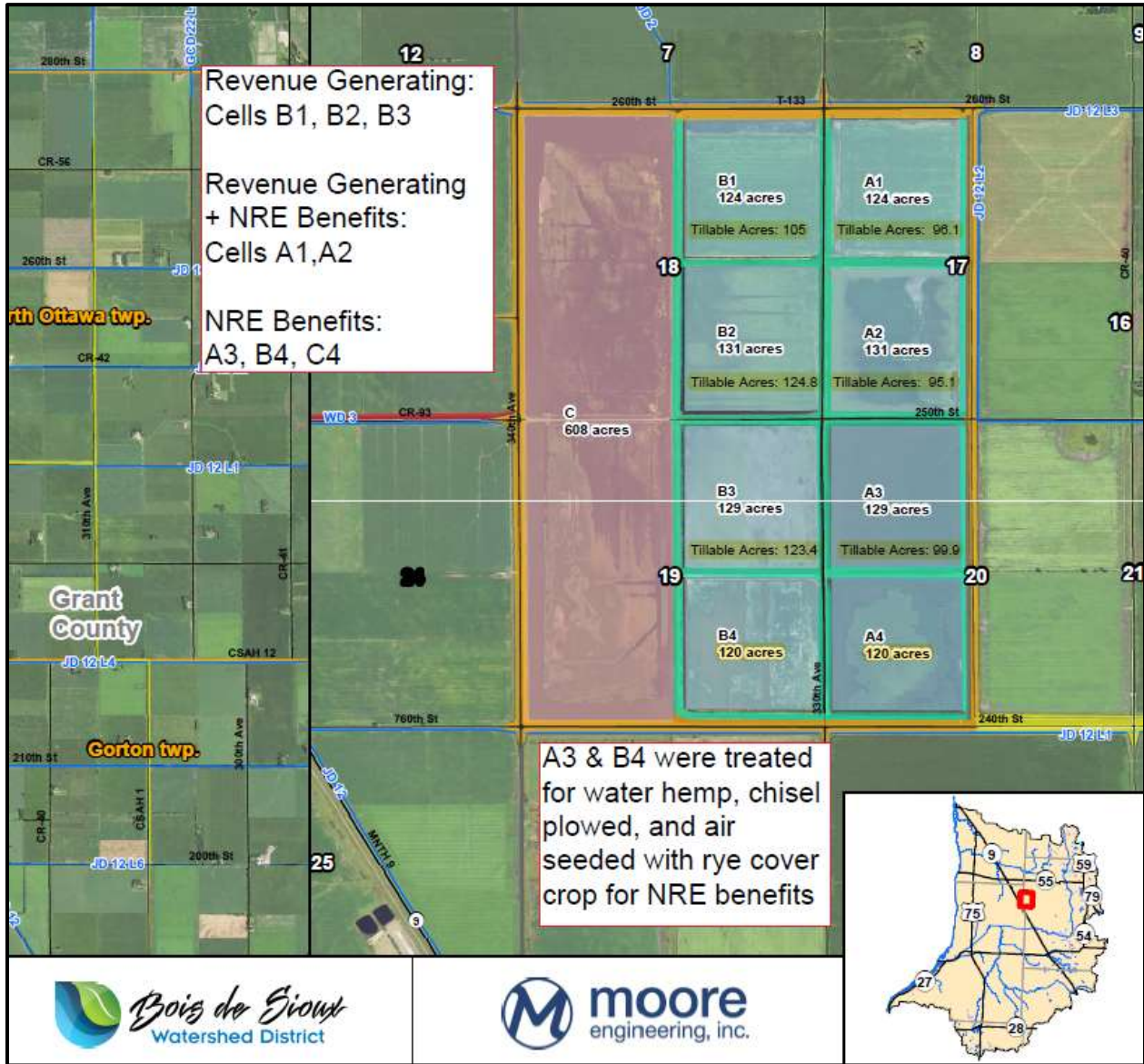
The Bois de Sioux / North Ottawa Joint Powers Agreement between the Department of Natural Resources and the Bois de Sioux Watershed District Office expired December 31, 2017. Professionals from EOR presented a technical memo detailing opportunities for NRE-enhancing, revenue-generating activities (06/08/20). No new joint powers agreement was implemented in 2018, 2019, or 2020, but a draft Memorandum of Agreement was presented to both Board Managers and the Department of Natural Resources (12/17/20).

Meetings with DNR representatives and legal counsel continued throughout 2021. In April 2021, Morrie Lanning Consulting facilitated a meeting between BdSWD and DNR representatives, to come to a clear understanding on remaining contested terms. The meeting was highly successful. Draft agreements were reviewed (02/18/21 & 05/20/21), and subsequently approved (12/16/21). The agreement was executed by the District on December 28, 2021, and by the DNR on March 14, 2022.

Three cells were bid without a crop restriction, and two cells were bid with a corn silage/small grain restriction. Cells A1, A2, and A3 were rented without a restriction; Cells B1 and B2 produced corn silage. Soil testing in 7 sites was conducted. A producer was awarded a bid to hay portions of the collection channel and dikes that needed to be mowed (05/20/21). The thick cattail growth in A3 was treated by three passes of chisel plowing in the Fall of 2020. Weed growth was sprayed in A3 & A4. Forty-two aluminum stop logs were purchased, along with a specialty tool for gate operations. Interior roads were bladed following damage during a rain event (06/17/21). A rye cover crop was established in A3 & B4 to suppress weed and cattail growth (220 acres at a cost of \$43.75/acre to prepare seed bed, purchase seed and plant). Portions of the project were mowed/hayed for weed control through a lease agreement. Forty-two stop logs were welded for experimental use to replace a portion of the facility's deteriorating wooden stop logs. Repairs were made to several approaches and the collection channel.

On 2021, a request was made to the Flood Damage Reduction Workgroup to utilize shared project team funds to reimburse member watershed districts for 50% of meeting costs incurred for project teams continued after impoundment construction (which would include the North Ottawa Project Team). Each watershed district is currently capped at \$15,000 for project team expense reimbursement. The proposal was approved by the RRWMB November 2021, but has not yet been approved/incorporated by the Flood Damage Reduction Work Group.

NORTH OTTAWA 2021 OPERATIONS



- Collection System Grasslands - 169 acres
 - Exterior Impoundment Levee Grasslands - 141 acres
 - Interior Impoundment Levee Grasslands - 180 acres
 - Watershed Ditch #3 Grasslands - 14 acres
 - Impoundment Gravel Roads - 40 acres
- Impoundment Cells
- A/B Cells - 1,008 acres
 - C Cell - 608 acres
- Total Grasslands Area = 494 acres
Total Area of North Ottawa Cells = 1,616 acres

River Watch Program

The River Watch (RW) program provides hands-on watershed science education, promotes water resources stewardship, and introduces high school participants to career opportunities in watershed science. The program focuses on education through water quality monitoring, macroinvertebrate and mussel sampling, snow and frost depth studies, and river geomorphology. The District supports the RW program and valuable water quality data is obtained within the watershed as a result of this project.

Due to the pandemic, students were enrolled in online learning, and did not give presentations at the International Water Institute conference or at a District Board meeting.

The District provides support for the program by covering costs of substitute teachers, transportation, and students' lunches on sampling days and when students attend the RW Forum and the water quality training/certification session. Laboratory analyses of water samples have also been covered if a special research project is undertaken by a RW team or student. Financial support is also provided by the Red River Watershed Management Board (RRWMB) and the Minnesota Clean Water Legacy Fund. Coordination and implementation support is provided by the International Water Institute.

This partnership with the watershed district and area schools contributes to the education of the students, promotes good stewardship of our water resources, and provides valuable data to area water resource managers and agencies.

Minn. Stat. § 103F.048 Buffers

The Buffer Committee met in 2021 to continue to determine the best courses of action to reduce soil erosion and to set budgets for the use of annual riparian aid. Projects in 2021 included: continuation of a 3-year, \$25,000/year Multi-County Cover Crop Cost-Share Program with District SWCD's (4/16/20 – 09/17/20); TCD #1W & TCD #23 Lined Waterways Cost Share Program (09/16/21) with Traverse SWCD; 2021 Lined Waterways Cost Share Program (09/16/21) with Traverse SWCD; JD #6 Buffer Acquisition finished through redetermination and seeding finished through Cost Share Programs with Wilkin County SWCD and Traverse County SWCD; seeding continued on Wilkin County Buffer Seeding Cost Share Program (05/16/19); mowing of buffers through Wilkin SWCD; TCD #35 redetermination and improvement initiation and hearings held (12/16/21); buffer right-of-way signage purchased, staking and installation; hydroseeding of buffers in difficult to establish areas; leveling of spoils to aid in buffer establishment.

Landowners with non-compliant parcels were contacted, and in some cases, met with the Buffer Committee members to discuss soil erosion prevention practices.

Land Acquisition and Sales

Right-of-way was acquired for the Lake Traverse Water Quality Improvement Project and JD #6 Retrofit.

Moonshine Lakebed Restoration Project

No action was taken on this project in 2021.

Moonshine 24/13

No action was taken on this project in 2021. In 2020, the Board did approve cost share of \$25,000 to install an 18" dual wall tile main in Section 24, in cooperation with neighboring landowners who are designing a community drainage project. The project will increase soil stability for the District's property. This tile was installed in 2021.

Lake Traverse Water Quality Improvement Project

Phase One: Construction by Wagner Company, started November 2020, continued and was declared complete (08/19/21). A Minn. Stat. § 103E.555 project hearing was held (09/16/21), and the project was closed.

Phase Two: A Finding of No Significant Impact was issued by the District (05/20/21). Appraisals for Phase 2 easements were based on the August 24, 2020 project appraisal and were acquired (08/19/21). The required project hearing was held, during which funding partners were specified: Red River Water Management Board Water Quality Grant (\$367,765); BWSR Clean Water Project and Practices Grant through the Minnesota Legacy Amendment (\$418,235); BdSWD Construction Fund (\$100,000).. The 103D.605 Project Hearing was held (07/15/21). Purchase agreements for easements were approved (08/19/21). A portion of the BWSR Clean Water Grant awarded to this phase was used to cover costs completed under the Phase 1 contract (\$220,000, 09/16/21). A construction contract was awarded to Wagner Company (09/16/21). Construction continued throughout the fall, and is nearly complete, with the exception of seeding.

Phase Three: Drone footage was collected of the channel, and the District allocated \$100,000 from the Construction Fund toward preliminary design and project development (05/20/21). The project was awarded an \$800,000 grant from the Minnesota State Legacy Amendment Clean Water Fund through BWSR (12/16/21).



Phase 2 Rock Riffle Installation



Phase 2 Looking West



Phase 2 Looking East

Big Lake Flood Control Outlet

The Bois de Sioux Watershed District developed plans to install a water control structure on the west end of Big Lake to manage water levels and provide flood risk reduction for the City of Herman, while potentially enhancing natural resources within Big Lake. The purpose of the project is to provide additional flood storage, resulting in downstream flow reduction and flood risk reduction for the City of Herman, agricultural lands, farmsteads, and roads. A draft operation and maintenance plan has been developed that outlines how the project will be operated to accomplish project goals: to provide additional flood storage, resulting in downstream flow reduction.

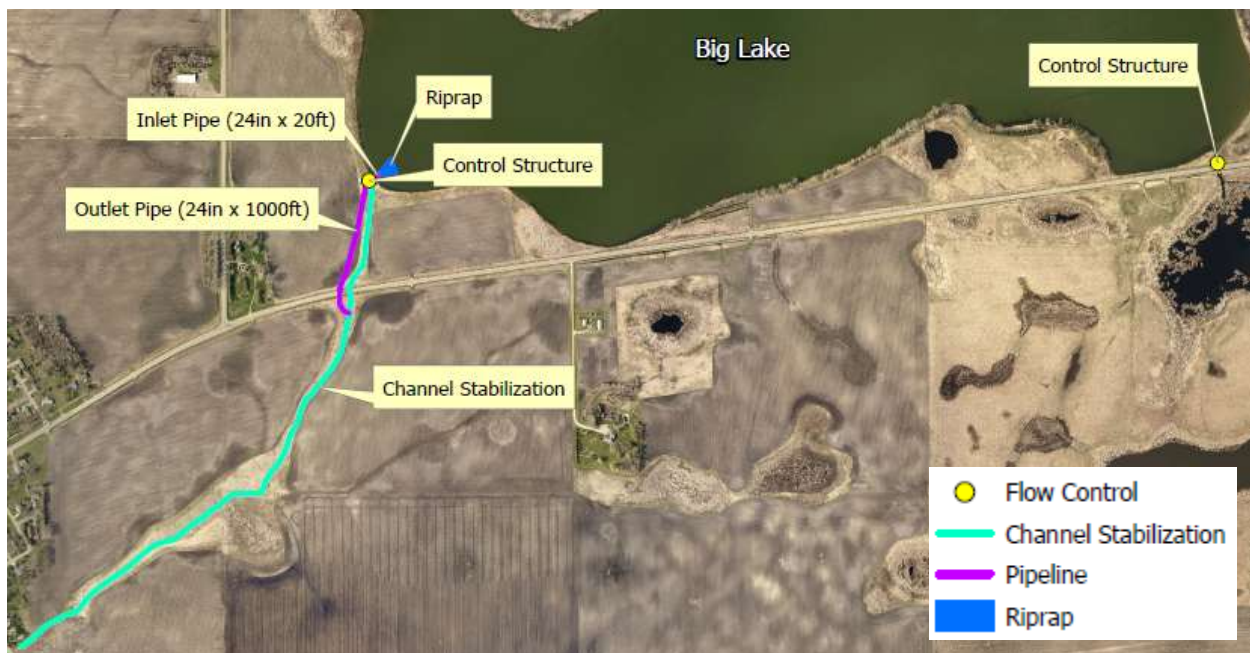
The proposed project will install two water control structures on Big Lake: one on the western side near the natural outlet, and one on the southeastern side near the natural inlet. The western control structure will allow water levels in the lake to be temporarily lowered to increase flood water storage (Figure 3). This control structure will include an inlet pipe with a grate that extends far enough into the lake to get past the shoreline fringe cattails. A lake basin inlet channel will convey flows to the inlet pipe. Within the structure there will be a weir wall that includes flashboards and a gated orifice. There will also be an outlet pipe extending from the control structure through State Highway 27 to an existing downstream channel. The existing channel will be graded and shaped from Big Lake to the City of Herman. Riprap will be used where necessary to stabilize areas of high velocity and steep slopes. The southeastern control structure will control flows into Big Lake and manage water levels in the Art Hawkins Waterfowl Production Area (WPA). The purpose of the southeastern control structure is to prevent the Big Lake outlet structure from impacting wetlands associated with the WPA.

The project will provide up to approximately 730 acre-feet (1.3 inches of runoff) of gated flood storage between the natural runout elevation of 1,075.7 feet and the proposed maximum drawdown of 1,072.7 feet. The project will also allow for better vegetation management, potential wildlife habitat, and water quality benefits.

In 2021, there were significant project developments:

- An EAW was posted (02/18/21).
- A Finding of No Significant Impact was issued (06/17/21).
- Landowner Meeting held (09/24/21).

In order for the project to be successfully permitted, landowner signatures are required by the DNR.

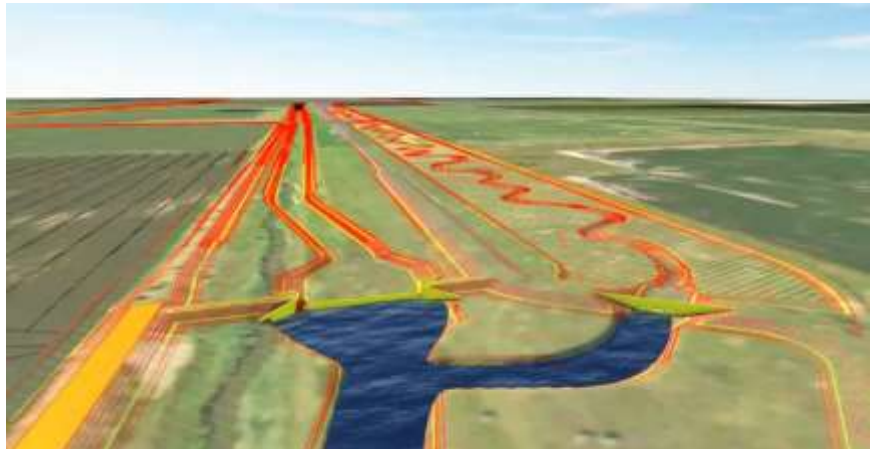


Proposed Big Lake Flood Control Outlet Project Design

Redpath Flood Impoundment & Mustinka River Fish and Wildlife Habitat Corridor Project

In 2008, the Board of Managers established the Redpath Project Team and charged them with the task of identifying the problems in the area and reviewing alternative solutions. The team did their work in the first 8 months of the year and recommended a project solution to the Board in August 2008. In 2021, there were significant project developments:

- The two projects were more clearly separated, in order to determine funding eligibility – grant sources were found to focus on habitat or flood hazard mitigation. Phases were then described, along with a timeline (02/18/21).
- \$800,000 was awarded through the State of Minnesota Flood Hazard Mitigation Program, administered by the Department of Natural Resources (02/18/21).
- A grant application was submitted to the Legislative-Citizen Commission on Minnesota Resources on behalf of the Mustinka River Rehabilitation Project. Awards will be made in 2022.
- A determination was made that the 2014 EAW will suffice for the current project (04/15/21).
- The Mustinka River Rehabilitation project was awarded an \$800,000 grant from the Minnesota State Legacy Amendment Clean Water Fund through BWSR (12/16/21).
- Phase 1/TCD #35 utility relocation project was awarded a \$320,000 grant from the Minnesota State Legacy Amendment Clean Water Fund through BWSR (12/16/21).
- The Lessard Sams Outdoor Heritage Council grant (LSOHC), for the Mustinka River Fish and Wildlife Habitat Corridor, was extended for three years, expiring June 30, 2022 (October 19, 2017).
- The Minnesota Department of Natural Resources Dam Safety & Public Waters Work Permit (2021-1388) was issued 11/8/2021 with an expiration date of 11/7/2026 by Jason Boyle, DNR State Dam Safety Engineer.



Modeling of the Redpath Flood Impoundment Inlet Structure and Mustinka River Rehabilitation

Grant County Mustinka River Corridor Project

The Grant County Highway Department is coordinating a joint highway and culvert replacement project with MnDOT, Grant County Highway Department, the State Bridge Bonding Program, and the Bois de Sioux Watershed District. This project will elevate State Highway 55, Grant County Road 42, and Grant County State Aid Highway 1 (three major transportation corridors) above the 100-yr Mustinka River floodplain, adding safety and security for surrounding citizens. In addition to these transportation benefits, downstream communities and lands will also benefit from the temporary flood storage created when these roadways no longer overtop. Specifically, resizing and replacement of three related culverts provide the Bois de Sioux Watershed a low-cost alternative to a traditional impoundment. The District also benefits from reduced permitting costs and timelines. The Bois de Sioux Watershed District has already funded \$7,087.04 toward the cost of the project's EAW and \$30,400 towards project modeling. The District committed \$400,000 toward the project



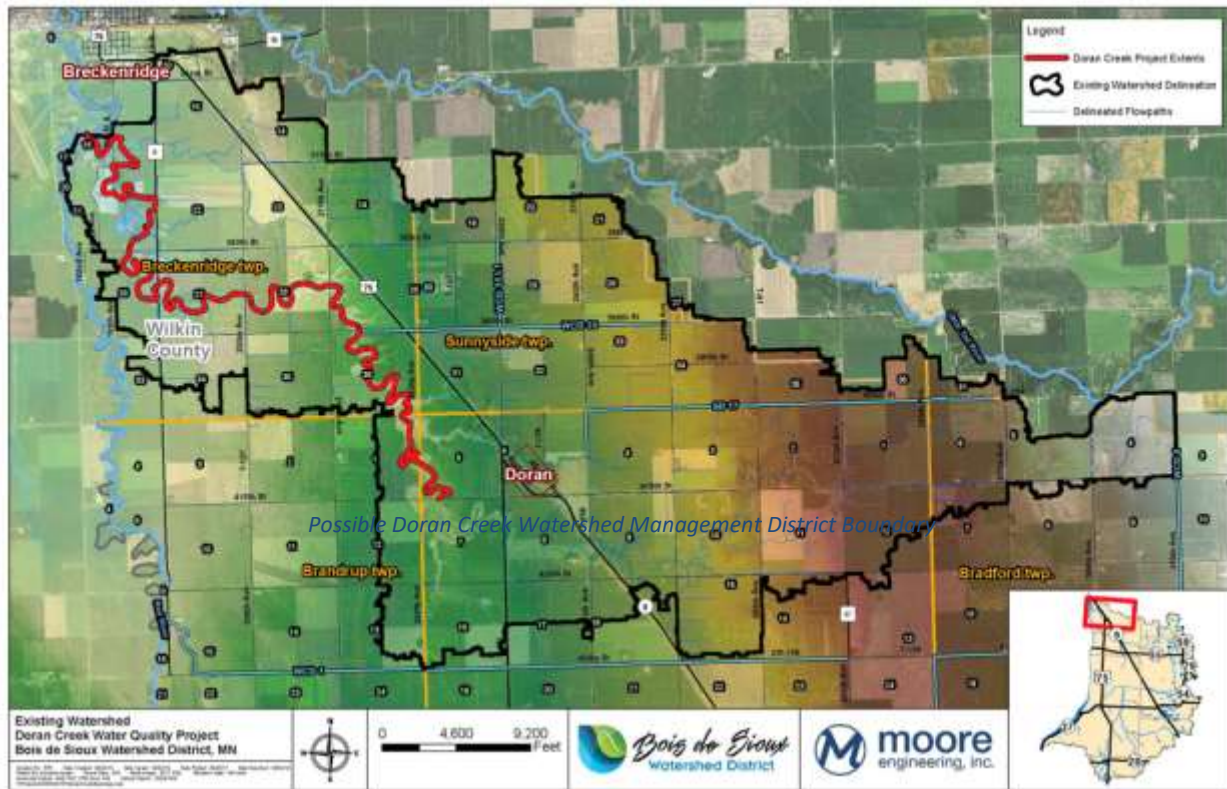
The District's contribution will be used for culvert replacement.

itself, but to date has only paid \$9,530.95 of this obligation (11/2/17). Construction is expected to begin in 2021 under the direction of the Grant County Highway Department.

Doran Creek Enhancement/Restoration

The Bois de Sioux Watershed District and community members have invested a great deal of time and effort into understanding the hydrologic conditions, economic impact, and project alternatives associated with alleviating frequent floods in the Doran Creek area. The project team’s primary purpose has been to identify the most feasible and acceptable project to provide protection from a 10-Year, 24-hour flood event for agricultural lands, and provide protection from a 100-Year flood event for the City of Doran. The project team reviewed twenty different project alternatives and evaluated the effectiveness of each to meet the team’s primary purpose. Ultimately two project alternatives were supported: an urban levy surrounding the City of Doran and the restoration of Doran Creek.

Design of the Doran Creek Restoration has been supported by a grant from the Red River Watershed Management Board (\$100,000, 04/15/21) and grant money through the BWSR’s Legacy Amendment Clean Watershed Based Implementation Funds (\$115,000). Several meetings were held with WCD #35 landowners and Wilkin SWCD, as WCD #35 has been identified as a source of sediment, and a public hearing to order the reestablishment of drainage system records was ordered for WCD #35 (see references 02/18/21, 03/26/21, 04/15/21). Three groundwater stations were installed by engineering staff (04/15/21). A Minn. Stat. § 103E.101, Subd. 4a reestablishment of records hearing was held, and a need to install side inlet culverts was discussed. In response to an offer from Wilkin SWCD, the District requested that an application be submitted to utilize unused BWSR Legacy Amendment Clean Water Funds to install WCD #35 side inlet culverts (11/18/21).



Doran Creek Subwatershed

East Branch Twelve Mile Creek Project/Eldorado Township Flooding

In December 2005, the East Branch Twelve Mile Creek Project Team made a recommendation to the BdSWD Board

for the implementation of 3,300 acre feet of storage in the sub-watershed, but to-date site suitable land has not been offered for sale by landowners.

Following the spring 2019 flood, residents voiced a need and support for flood mitigation efforts in this area. Drainage issues continue on the Traverse County-Stevens County line.

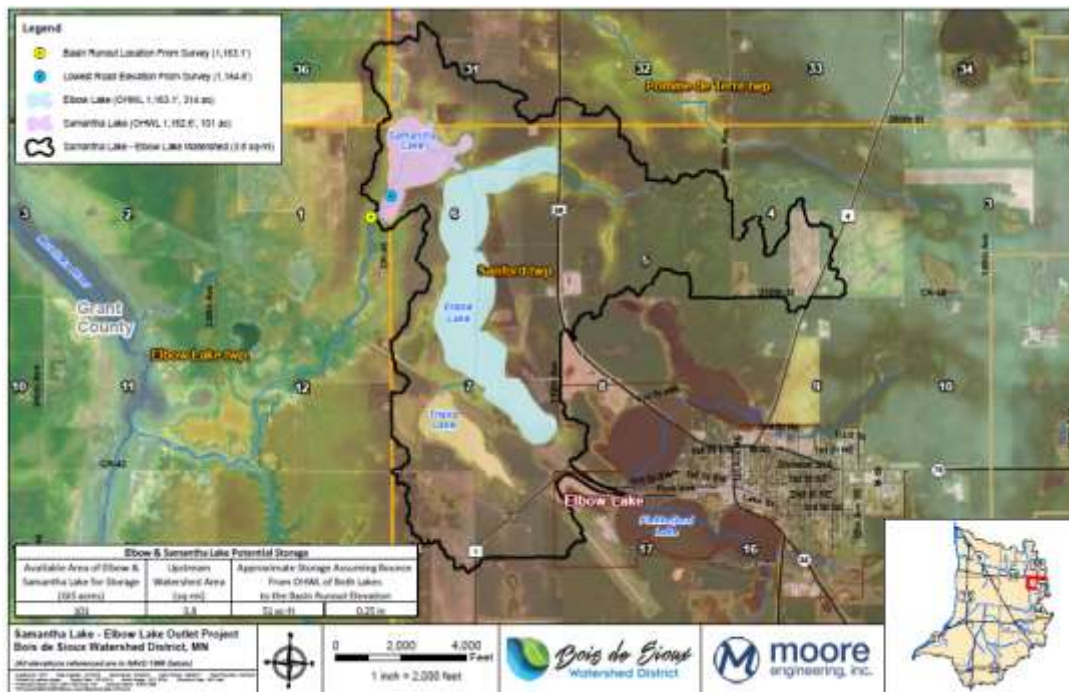
Landowner and township official meetings were held in 2020 and 2021. Several project alternatives were presented and discussed, each offering varying levels of flood protection and associated costs (01/15/21, 01/21/21, 02/18/21, 05/20/21, 06/17/21, 07/15/21, 08/19/21, 09/16/21, 11/18/21). Permit Applications #20-164 and #21-114 describe project details. Eldorado Township was notified Spring 2021 that their request for a MNDOT road raise grant was denied.

Drainage issues in the area were divided into those north of Stevens County Highway 20/Traverse County Highway 6 and those south of Stevens County Highway 20/Traverse County Highway 6. In general, landowners and township officials support project plans that correctly separate and control overland flow between the TCD #37 and TCD #8 drainage areas. A 640th Road Raise Project was identified in Dollymount Township and a new drainage system (that be added as a benefitting party to the existing TCD #37 benefit list) was identified for Eldorado Township.

In August, a blank drainage system petition was offered to Eldorado Township officials for their use. A draft agreement between BdSWD and Dollymount Township for the 640th Road Raise Project was approved for Dollymount Township's consideration (11/18/21).

Samantha Lake Flood Outlet Control Project

An 18" dual wall tile and control structure was installed to manage discharges from Samantha Lake and Elbow Lake. Grant County completed construction of the project, which was operational Spring 2021 (06/17/21). Grant County officials have requested a structure modification that would provide approximately 4' of separation between the water level and adjacent roads – in the interest of public health, safety, and welfare. BdSWD staff and managers, and Grant County staff and commissioners continue to meet with DNR representatives. The BdSWD will accept ownership, maintenance, and operation of the project upon completion.

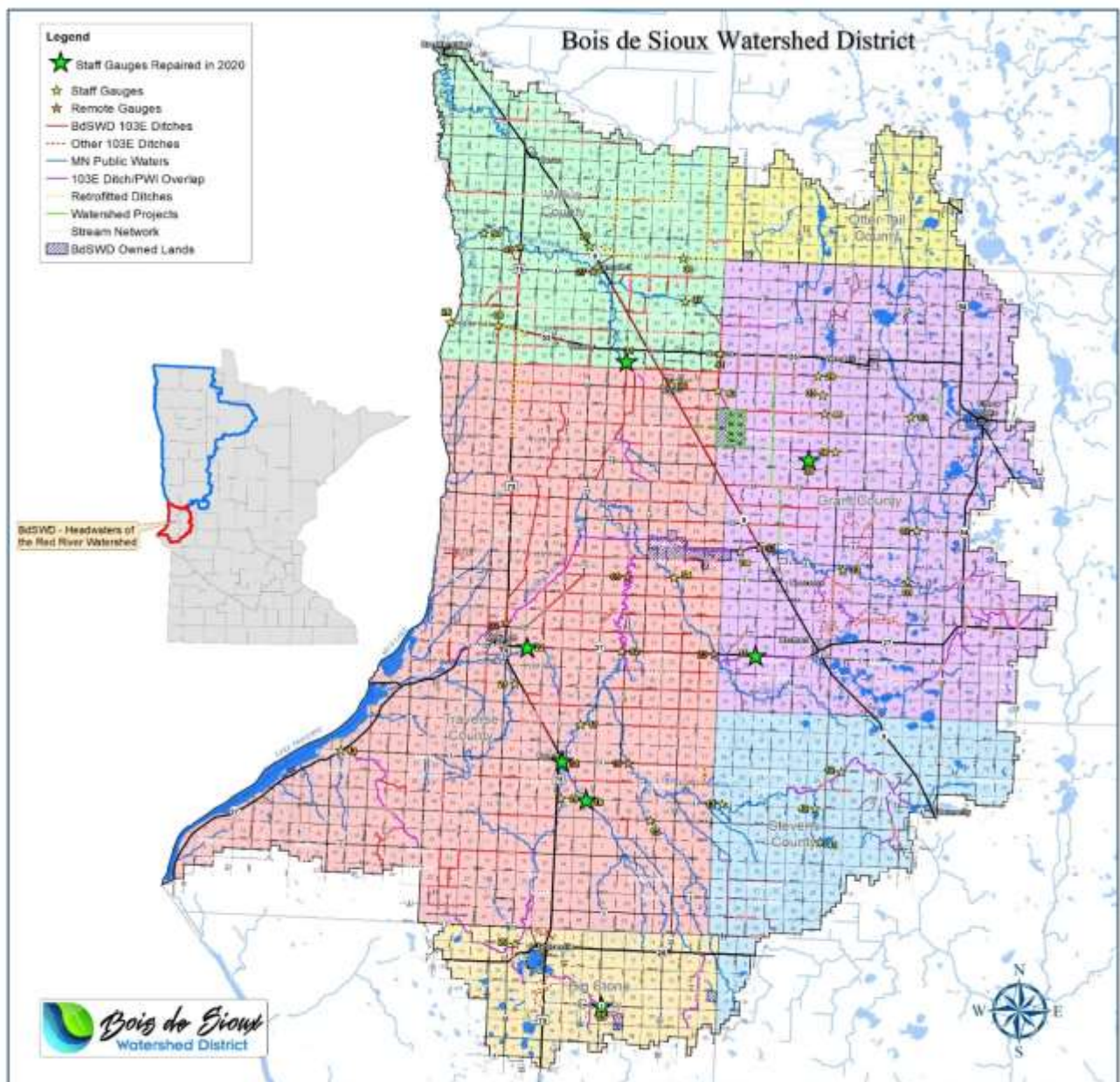


Samantha Lake Flood Outlet Control Project Design

Stream Gaging & Locations

In 2021, there were forty-two (42) gauging sites in the Stream Gauge Monitor Program. Twenty (20) of those sites are considered active in which data was collected in 2020 and/or 2021. Volunteers that live within the vicinity of each gauge conduct the actual day-to-day monitoring of the stream gauge. The program is coordinated through the administrative office. Volunteer readers are compensated at a rate of seventy-five dollars (\$75.00) per gauge, per year, to help offset costs for accessing the gauge. Stream Gauge Data for 2021 has been entered into the BdSWD computer database.

Each year, gauge readers are asked about the condition of their gauging site via a questionnaire sent by mail. If the gauge needs work or there is a request to modify the gauge, it is reviewed by the administration and assigned to an engineering technician to investigate, repair, or modify as the case may require.



Other Construction Fund Activities

- **FEMA Flood Reimbursements:** One payment remained from the 2019 flood, as a partial reimbursement of the staff time incurred coordinating the required grant documents. The final FEMA payment for Flood 2019 was received, compensating the District for administrative costs, Category Z (03/18/21).
- **Cover Crop Cost Share:** The District continued the second annual payment (of three) in the amount of \$5,000 to Wilkin SWCD for their cover crop program. Stevens SWCD was unable to use their funds in 2020 and a carryover into 2021 was approved (02/18/21). Stevens SWCD may receive one more annual disbursement.
- **75% Grant Fund Equalization & Clean Water Retrofit Cost Share Policy:** Minnesota Legacy Act Clean Water BWSR Grant Funds have been applied to the District's recent multipurpose drainage management projects (for grant eligible features such as side inlet culverts, berms, and seeding). Up to 75% of costs are eligible for grant funding from BWSR, but due to the competitive nature of the grant program and early application, project applications have been submitted by BdSWD seeking varying levels of funding in order to secure an award (50 – 75%). In addition, BdSWD's grant requests are based on project estimates, which inevitably vary from the actual amount of grant eligible costs realized at the close of a project. Board managers approved using the Construction Fund, Buffer Fund, and/or Watershed Based Implementation Funds to equalize the percentage of grant funding to cover 75% of eligible items for recent WCD #8, WCD #9, and JD #11 projects. They also implemented a goal to fund future projects at 75%, dependent upon funding levels and availability (09/16/21).
- **Lined Waterways Program (12/17/20):** The Lined Waterways Cost-Share with Traverse County SWCD was used to install concrete mats for field outlets on TCD #1E (5), TCD #1W (3), TCD #23 (9). Board managers approved an additional \$20,000 for use in 2022, in locations determined jointly by District and SWCD staff (09/16/21).
- **Land Leases for 2021:** Changes were implemented for the farmland bid for 2021 leases: terms shall be for 3-years (10/15/20), except for North Ottawa lands, which will have a 2-year term (11/19/20).

SECTION FOUR - DITCH FUND

Project Status and Business Transacted

Since 1992, sixty (60) ditch systems have been under the jurisdiction of the Bois de Sioux Watershed District, with JD #3 added in 1995; in total, this amounts to approximately 414.9 lineal miles of ditch. Ditch funds are managed by the District office. Annual ditch inspections are completed on a three-year rotation, or as deemed necessary by the District. A copy of the inspection reports are kept on-file at the District office.

The District administers an annual spray program to remove, as needed, heavy vegetation, trees, cattails, and brush in legal ditch systems. This work is also conducted on a three-year rotation, or as deemed necessary by the District.

Legal Drainage Ditch Work

General Activities

- **Equipment Purchased:** No substantial equipment purchased.
- **Equipment Sold:** No substantial equipment sold.
- **Interest Rate:** The interest rate was set in 2021 as an annual index, based on the Long Term Federal Interest Rate for December. For negative ditch funds, the amount used for 2021 was 1.9% (12/16/21).
- **Contractors Hired:** LM Road Services was contracted to spray cattails and remove trees and brush for Inspection Area 1 (03/18/21). Ditch maintenance contractors included: Beyer Tree Service, Braun Intertec, Hormann Works, J & K Riverside Trucking, Kev's Tree Service, Olson Tile & Excavating, Riley Brothers, Wagner Company, and Whaley Excavating.
- **2021 Ditch Assessments (including bond payments):** \$944,883.00
- **2022 Ditch Assessments (including bond payments):** \$858,647.00
- **GIS Tool:** A web-based GIS tool was developed by Moore Engineering and Technician Troy Fridgen to more efficiently and effectively store annual drainage ditch inspection information. Ditch Area 2 inspections were ordered for 2021 (02/18/21).

Specific Activities by Ditch

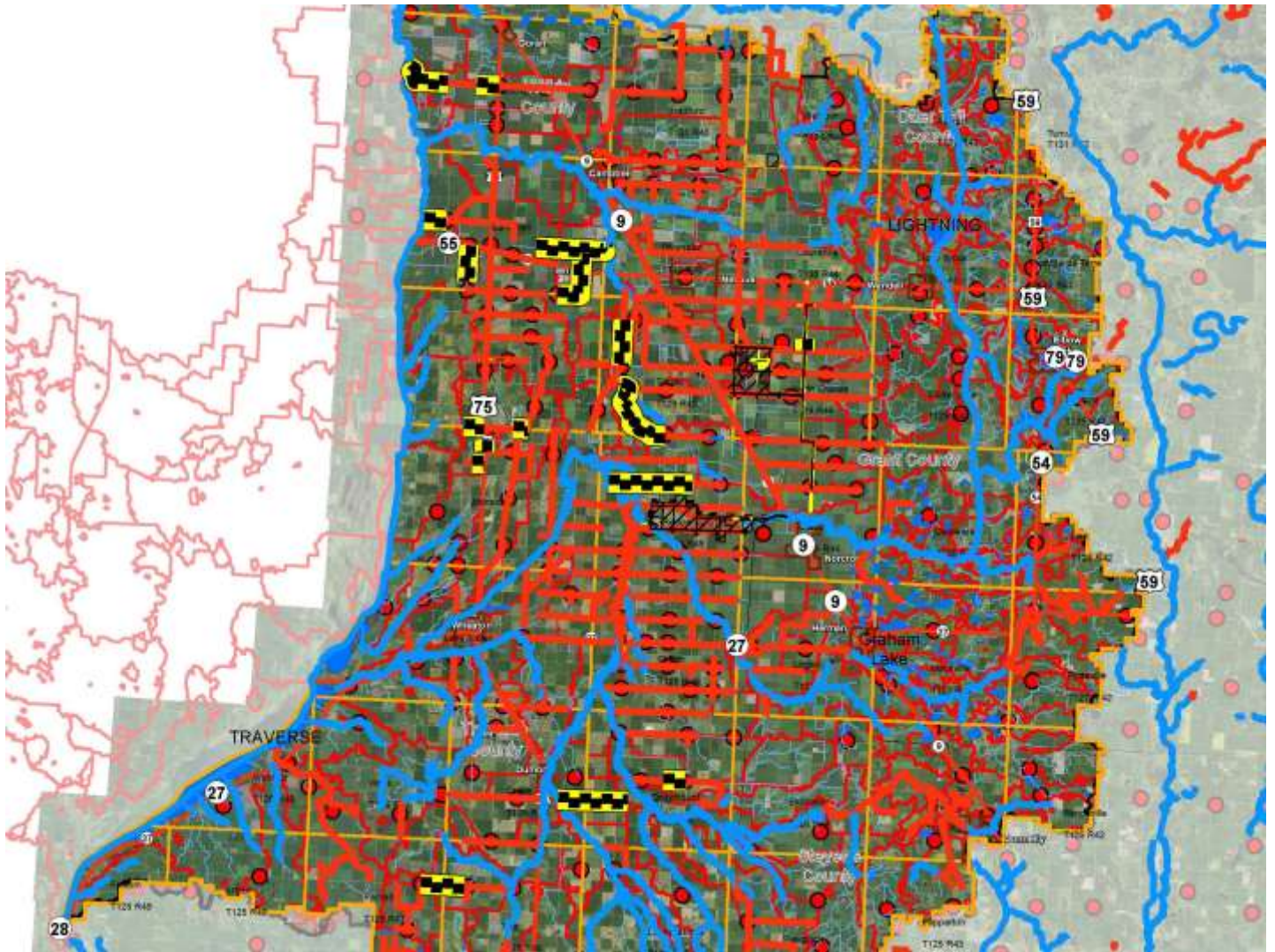
- **JD 2:** Rip rap placed
- **JD 3:** Rip rap and fabric placed
- **JD 6:** Repair/retrofit in progress
- **JD 11:** Outlet repair and improvement in progress
- **JD #12:** Culvert cost shares
- **JD #14:** Rip rap placed
- **TCD #1E:** Tree removal and culvert replaced
- **TCD #9:** Clean-out and spoils leveled
- **TCD #11:** Clean-out
- **TCD #27:** Tree removal, clean-out and spoils leveled
- **TCD #37:** Culvert reset and spoils leveled
- **TCD #38:** Clean-out and spoils leveled
- **TCD #44:** Clean-out, outlets repaired, and spoils leveled

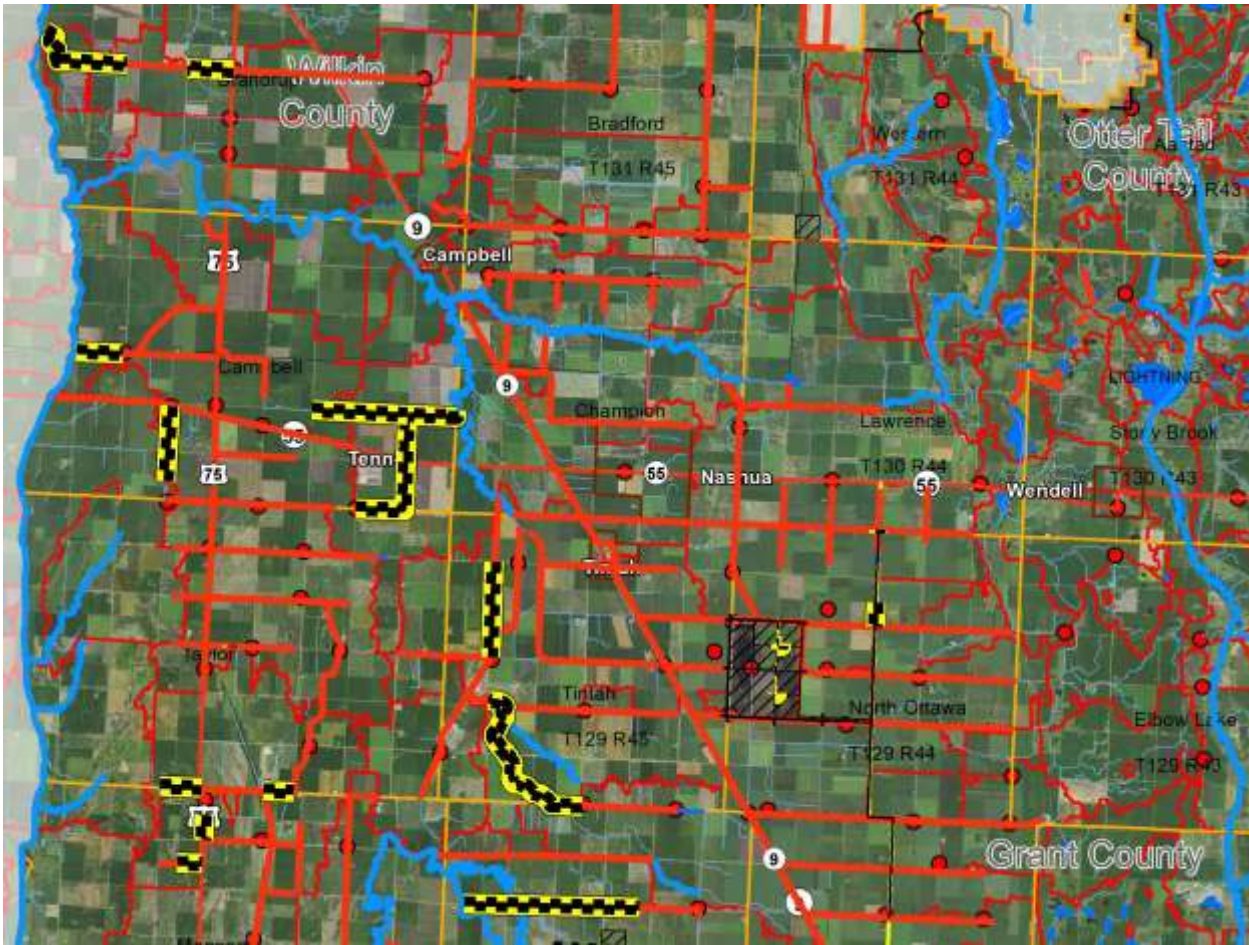
- **TCD #52:** Culvert replacement
- **WCD #Sub-1:** Tree removal and clean-out
- **WCD #9:** Improvement project closed
- **WCD #39:** Clean-out

Ditch Petitions

- Petition approved for Gerald Coleman to use JD #12 to outlet Parcel #11-0088-500: NE 1/4 (less farm site 11-0088-000) of Section 25, Range 44, North Ottawa Township (129), Grant County
- Petition approved for Kelly Berger to use TCD #9 to outlet Parcel #10-0042000: SE1/4 of Section 9, Range 45, Redpath Township (128), Traverse County
- Petition approved for Trent Conroy to use TCD #9 to outlet Parcel #10-0059000: SW1/4 of Section 14, Range 45, Redpath Township (128), Traverse County
- Petition approved for Dominic Blume to use TCD #23 to outlet Parcel #05-0121-000: SE1/4 of Section 32, Range 44, Gorton Township (128), Grant County
- Petition approved for Timothy Bates to use TCD #23 to outlet a portion of Parcel #05-0120-000: S1/2 NE1/4 of Section 32, Range 44, Gorton Township (128), Grant County
- Petition approved for Timothy Bates to use TCD #23 to outlet a portion of Parcel #05-0119-000: NE1/4 NE1/4 of Section 32, Range 44, Gorton Township (128), Grant County
- Petition approved for Timothy Bates to use TCD #23 to outlet a portion of Parcel #05-0119-500: NW1/4 NE1/4 of Section 32, Range 44, Gorton Township (128), Grant County
- Petition approved for Gerald & Julie Murphy to outlet a portion of Parcel #09-0085000: SE1/4 of the NE1/4, Section 19, Range 47, Parnell Township (125), Traverse County
- Petition approved for Don Stueve to use TCD #28 to outlet a portion of Parcel #03-0154000: NW1/4 of the SW1/4, Section 32, Range 46, Croke Township (126) Traverse County
- Petition approved for Don Stueve to use TCD #31 to outlet a portion of Parcel #03-0154000: SE1/4 and the E1/2 of the NE1/4 of the SW1/4, Section 32, Range 46, Croke Township (126), Traverse County
- Petition approved for Don Stueve to use TCD #31 to outlet a portion of Parcel #03-0155000: SE1/4 and the NE1/4 of the SE1/4 of the SW1/4, Section 32, Range 46, Croke Township (126), Traverse County

Legal Drainage Repair Maps





SECTION FIVE – JOINT COMPREHENSIVE WATERSHED MANAGEMENT PLAN GOALS

Process: One Watershed One Plan (1W1Plan)

Product: Joint Comprehensive Watershed Management Plan (JCWMP)

Effective January 27, 2001 – January 31, 2031

Funding: Watershed-Based Implementation Funds (WBIF)

The District continued contract work with Houston Engineering, Inc. and finished development of a Joint Comprehensive Watershed Management Plan on behalf of the District and 12 partners (Big Stone County & SWCD, Grant County & SWCD, Otter Tail County & SWCD, Stevens County & SWCD, Traverse County & SWCD, and Wilkin County & SWCD). The Board of Water and Soils Resources subsequently approved the plan by order (01/27/21).



BdSWD volunteered to serve as the Fiscal Agent for the future grant agreement, and approved the Joint Implementation Agreement (02/18/21). The One Watershed One Plan planning grant was closed-out, and a formal Reimbursement Policy was enacted for the future watershed based implementation fund grant (04/15/21); the Clean Water BWSR Watershed Based Implementation Fund grant provides \$1,064,522 to sponsor portions of eligible activities described in the Joint Comprehensive Watershed Management Plan; funds must be used on or before 12/31/2023.

For the current Watershed Based Implementation Funds grant cycle, the BdSWD was budgeted to receive: \$148,000 for JD #6 BMP Construction; \$115,000 for Doran Creek Project Development; \$325,000 for Lake Traverse Water Quality Improvement Project Construction; and \$25,000 for Plan Administration/Coordination.

Staff from the participating members meet monthly, serving on the Steering Committee. Appointed/elected officials from the participating members meet periodically, as needed. The Bois de Sioux Watershed District currently serves as Grant Fiscal Agent.

The following pages detail the Bois de Sioux & Mustinka Joint Comprehensive Watershed Management Goals and related 2021 BdSWD activity progress. Short-term measurable goals describe the interim conditions to accomplish during the 10-year timeframe of this plan. Long-term measurable goals describe the desired future condition to accomplish, regardless of timeframe.



Joint Comprehensive Watershed Management Plan Activities by Expense

Capital Improvement Projects	\$0	Fivemile Creek
	\$51,690	Big Lake
	\$209,200	Doran Creek
	\$2,775,565	Drainage Systems & Right of Way Easements Eldorado / 640 th Ave Road Raise / Dollymount Twp / East Branch Twelve Mile Creek
	\$690,300	Lake Traverse Water Quality Improvement Project
	\$92,750	North Ottawa Flood Impoundment
	\$493,680	Redpath Flood Imp. & Mustinka River Rehab.
	\$0	Ring Dikes
Data Collection	\$841	River Watch
	\$1,500	Stream Gaging
	\$0	WRAPS
Education & Outreach	\$2,590	Annual Report
	\$1,200	Website
	\$7,190	Advertising & Notices
Projects and Practices	\$310,276	Joint Comp. Watershed Management Plan
	\$834,060	Red River Watershed Management Plan Projects
	\$360,480	Clean Water Cost Share
	\$0	Culvert Sizing Cost Share
	\$392,880	Routine Drainage System Repairs
	\$5,000	Payments to SWCD for Programs
Regulatory	\$104,100	Buffer Program
	\$0	Floods/FEMA
	\$36,720	Drainage System Staff Time & Inspections
	\$244,700	Permitting
	\$7,600	Boundary Revisions

2021 Progress for Measurable Goal: Sediment

Measurable Goals



Long-Term Goal: Long-term goal sediment load reductions are met, as defined in the Planning Region Focus table below.



Short-Term Goal: Short-term load reduction goals are met, as defined in the Planning Region Focus table below.

Planning Region Focus



Bois de Sioux Watershed		Mustinka Watershed		
Lake Traverse & Bois de Sioux River	Rabbit River	Upper Mustinka River	Lower Mustinka and Twelvemile Creek	Fivemile & Twelvemile Creek Headwaters
Reduce by 50% or 26,800 tons/yr	Reduce by 34% or 6,000 tons/yr	Reduce by 14% or 4,400 tons/yr	Reduce by 58% or 28,400 tons/yr	Reduce by 10% or 4,300 tons/yr
Reduce by 1,125 tons/yr	Reduce by 225 tons/yr	Reduce by 345 tons/yr	Reduce by 1,175 tons/yr	Reduce by 900 tons/yr

Metric: % load reduction or mass load reduction at the end of 10-year plan. Load reduction estimates established at planning region outlets using PTMApp

CAPITAL IMPROVEMENT PROJECTS	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	TONS/YR UPON COMPLETION
Judicial Ditch #11 Main Retrofit	LT&BDS	Bois de Sioux River	Completed Construction; Waiting for Seeding	420
Wilkin County Ditch #35 Retrofit	LT&BDS		Reestablishment of Records	260
Lake Traverse Water Quality Imp. Project #1	LT&BDS	Lake Traverse	Phase 1 Complete Phase 2 Complete, Waiting for seeding Phase 3 Permitting	Phase 1 = 750 Phase 2 = 450 Phase 3 = 1,050
Doran Creek Rehabilitation	LT&BDS		Design	890
Judicial Ditch #6 Retrofit	RR	Rabbit River	Completed Construction; Waiting for Seeding	417
Western 32 Flood Impoundment	RR		Complaint Investigations	UNKNOWN PROJECT DESIGN
Traverse County Ditch #35 Retrofit	LM&TMC	Twelvemile Creek and Mustinka River	Design	230

Redpath Flood Impoundment & Mustinka River Rehab.	LM&TMC	Mustinka River	Permitting & Funding Strategy	VERY SIGNIFICANT, NOT CALC. YET
E. Branch Twelvemile Creek/Eldor. Flood Impoundment	LM&TMC	Twelvemile Creek and Mustinka River	Complaint Investigations	UNKNOWN PROJECT DESIGN
EDUCATION & OUTREACH PROGRAM	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	TONS/YR
River Watch Program	All	NA	Program continued	NA
REGULATORY PROGRAM	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	TONS/YR
Ordinances & Permitting	All	NA	Program continued	NA
Buffer Law Requirements	All	NA	Program continued	NA
DATA COLLECTION PROGRAM	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	TONS/YR
Assess Rivers and Stream Channel Banks	All	NA	Program continued	NA
MDM Plan Development	All	NA	Data collection system initiated	NA

2021 Progress for Measurable Goal: Soil Health

Measurable Goals



Long-Term Goal: Soil health practices are implemented on 25% of all farmed soils within the plan area, as defined in the Planning Region Focus table below.



Short-Term Goal: Soil health practices are implemented on 2,321 farmed acres to protect critical soil loss areas, as defined in the Planning Region Focus table below.

Planning Region Focus



Bois de Sioux Watershed		Mustinka Watershed		
Lake Traverse & Bois de Sioux River	Rabbit River	Upper Mustinka River	Lower Mustinka and Twelvemile Creek	Fivemile & Twelvemile Creek Headwaters
30,800 acres	45,800 acres	21,800 acres	39,800 acres	55,000 acres
343 acres	698 acres	665 acres	238 acres	377 acres

Metric: Acres of soil health practices implemented

COUNTY, TOWNSHIP, SECTION	PLANNING REGION	PROGRESS	ACRES
Available to all District SWCD' s	Reported by SWCD	Funded Cover Crop Program	Reported by SWCD

2021 Progress for Measurable Goal: Altered Hydrology

Measurable Goals



Long-Term Goal: A total of **78,903 acre-feet** of additional water storage is achieved, broken out by planning region, as indicated in the Planning Region Focus table below.



Short-Term Goal: Achieve progress towards long-term goal through implementation of Redpath Controlled Flood Impoundment Project and small-scale storage to mitigate impacts of altered hydrology.

Planning Region Focus



Bois de Sioux Watershed		Mustinka Watershed		
Lake Traverse & Bois de Sioux River	Rabbit River	Upper Mustinka River	Lower Mustinka and Twelvemile Creek	Fivemile & Twelvemile Creek Headwaters
1,915 acre-feet	15,422 acre-feet	917 acre-feet*	24,367 acre-feet**	36,282 acre-feet
1,237 acre-feet*	2,545 acre-feet	917 acre-feet*	24,367 acre-feet**	5,442 acre-feet

Metric: Acre-feet of storage
 Goal source: * 0.1 inches additional storage across planning region; ** Redpath Controlled Flood Impoundment Project

PROJECTS & PRACTICES	PLANNING REGION	PROGRESS	ACRE-FEET
Ring Dike Program	All	Revising Cost Share Policies	NA
CAPITAL IMPROVEMENT PROJECTS	PLANNING REGION	PROGRESS	ACRE-FEET
Doran Creek Rehabilitation	LT&BDS	Design	SIGNIFICANT, NOT CALCULATED YET
Samantha & Elbow Lake Project	UM	Samantha Outlet Installed 2020; Permitting of additional drawdown in progress	51
Big Lake Project	TMC	Designment & Permitting	350 (Varies depending on permitted drawdown level)
Western 32 Flood Impoundment	RR	Complaint Investigations	UNKNOWN PROJECT DESIGN
Redpath Flood Impoundment & Mustinka River Rehab.	LM&TMC	Permitting & Funding Strategy	22,000
E. Branch Twelvemile Creek/Eldor. Flood Impoundment	LM&TMC	Complaint Investigations	UNKNOWN PROJECT DESIGN
EDUCATION & OUTREACH PROGRAM	PLANNING REGION	PROGRESS	ACRE-FEET
Publish Article	All	1 Redpath article published	NA

REGULATORY PROGRAM	PLANNING REGION	PROGRESS	TONS/YR
Ordinances & Permitting	All	Program continued	NA
Buffer Law Requirements	All	Program continued	NA
DATA COLLECTION PROGRAM	PLANNING REGION	PROGRESS	ACRE- FEET
Assess Rivers and Stream Channel Banks	All	Program continued	NA
MDM Plan Development	All	Data collection system initiated	NA
Maintain up-to-date culvert inventory	All	Ongoing	NA
Annual Dam Operation Process	All	Annual meeting requested	NA

2021 Progress for Measurable Goal: Public Flooding

Measurable Goals



Long-Term Goal: Flood risk reduction is provided against the Atlas 14 100-year, 24-hour event for all communities and against the Atlas 14 10-year, 24-hour event for all rural public infrastructure.



Short-Term Goal: The level of flood risk for unevaluated priority communities is defined and flood risk reduction against 100-year event is provided for 50% of those at-risk priority communities.

Metric: % communities, rural public infrastructure "protected" with flood risk reduction

PROJECTS & PRACTICES	PLANNING REGION	PRIORITY COMMUNITY	PROGRESS
Flood Risk and Flood Risk Reduction Evaluations for 100-Year Events			Rough cost estimates collected: Dumont (\$30,000), Campbell (\$20,000) and Herman (\$10,000) (11/16/21).
CAPITAL IMPROVEMENT PROJECT	PLANNING REGION	PRIORITY COMMUNITY	PROGRESS
Judicial Ditch #11 Main Retrofit	LT&BDS	MNDOT, Traverse County Highway, Wilkin County Highway, Township Roads	Completed Construction; Waiting for Seeding
Wilkin County Ditch #35 Retrofit	LT&BDS	MNDOT, Wilkin County Roads, Township Roads	Reestablishment of Records
Judicial Ditch #6 Retrofit	RR	MNDOT, Wilkin County Highways, Township Roads	Completed Construction; Waiting for Seeding
Western 32 Flood Impoundment	RR	Wilkin County Highways, Township Roads	Complaint Investigations
Mustinka Corridor	UM	MNDOT, Grant County Highway, Township Roads	Grant County Design and Permitting
Samantha & Elbow Lake Project	UM	Grant County Highway, Township Roads	Samantha Outlet Installed 2020; Additional Drawdown depth in permit stage
Big Lake Project	TMC	Herman, MNDOT, Grant County Highway	Designment & Permitting
Redpath Flood Impoundment & Mustinka River Rehab.	LM&TMC	Traverse County Highway, Wilkin County Highway,	Permitting & Funding Strategy

		MNDOT, Township Roads, Breckenridge	
E. Branch Twelvemile Creek/Eldor. Flood Impoundment	LM&TMC	MNDOT, Grant County Highway, Traverse County Highway, Township Roads	Complaint Investigations
DATA COLLECTION PROGRAM	PLANNING REGION	PROGRESS	
Identify and prioritize communities to determine risk	All	No work yet; goal is 50% protection of at-risk communities	
Hold annual meeting with road authorities to define roads are high priority based on risk of overtopping	All	Not needed 2020 – no flood threat	
MDM Plan Development	All	Data collection system initiated	
Maintain up-to-date culvert inventory	All	Done	

2021 Progress for Measurable Goal: Private Flooding

Measurable Goals



Long-Term Goal: Flood risk reduction is provided against the Atlas 14 100-year, 24-hour event for all rural homesteads and against the Atlas 14 10-year, 24-hour event for other private infrastructure.



Short-Term Goal: Farmsteads and private infrastructure most at risk are identified and prioritized, with 50% protected with ring dikes as needed.

Metric: Percent of homesteads and farmlands, rural infrastructure "protected" with flood risk reduction

PROJECTS & PRACTICES	PLANNING REGION	PRIORITY COMMUNITY	PROGRESS
Ring Dike Program	All	NA	Farmsteads and private infrastructure most at risk identified. Revising Cost Share Program
CAPITAL IMPROVEMENT PROJECT	PLANNING REGION	PRIORITY COMMUNITY	PROGRESS
Judicial Ditch #11 Main Retrofit	LT&BDS	Benefiting Landowners (Assessment District)	Completed Construction; Waiting for Seeding
Wilkin County Ditch #35 Retrofit	LT&BDS	Benefiting Landowners (Assessment District)	Reestablishment of Records
Judicial Ditch #6 Retrofit	RR	Benefiting Landowners (Assessment District)	Completed Construction; Waiting for Seeding
Western 32 Flood Impoundment	RR	Downstream landowners	Complaint Investigations
Mustinka Corridor	UM	Benefiting Landowners (Assessment District)	Grant County Design and Permitting
Samantha & Elbow Lake Project	UM	Elbow/Samantha Lake Landowners	Samantha Outlet Installed 2020; Elbow Lake Design
Big Lake Project	TMC	Adjacent and Downstream landowners	Designment & Permitting
Redpath Flood Impoundment & Mustinka River Rehab.	LM&TMC	Downstream Landowners in Mustinka and	Permitting & Funding Strategy

		Rabbit River. Wheaton	
E. Branch Twelvemile Creek/Eldor. Flood Impoundment	LM&TMC	Landowners along TCD 8 and Twelvemile Creek	Complaint Investigations
DATA COLLECTION PROGRAM	PLANNING REGION	PROGRESS	
Identify and prioritize farmsteads and private infrastructure to determine risk	All	Farmsteads and private infrastructure most at risk were identified and prioritized through a Ring Dike Policy that was approved October 21, 2021. A landowner contract template was approved November 18, 2021.	
Hold annual meeting with road authorities to define roads are high priority based on risk of overtopping	All	Not needed 2020 – no flood threat	
Maintain up-to-date culvert inventory	All	Done and ongoing	
MDM Plan Development	All	Initiated data collection system	

2021 Progress for Measurable Goal: Public Ditch System Instability

Measurable Goals



Long-Term Goal: All **581 miles** of public ditch systems are stable.



Short-Term Goal: **75 miles** of public, unstable ditches that are eroding and silting are stabilized.

Metric: Miles of ditch stabilized

DITCH AUTHORITY	DRAINAGE DITCH SYSTEM	PLANNING REGION	RESOURCE PRIORITY	MILES
BdSWD	Traverse County Ditch #37 L1 (2017)*	TMC		3
BdSWD	Wilkin County Ditch #8 (2018)*	RR		7.5
BdSWD	Wilkin County Ditch #9 (2019)*	RR		13.5
BdSWD	Judicial Ditch #11 (2020)	LT&BD	Yes	9
BdSWD	Judicial Ditch #6 (2021)	RR	Yes	8
BdSWD	Traverse County Ditch #52 Design	LT&BD	Yes	1
BdSWD	Traverse County Ditch #35 Design	LM&TC		5
BdSWD	Judicial Ditch #14 (Mustinka River Rehab)	LM&TC		6
LGU	DATA COLLECTION PROGRAM	PLANNING REGION	PROGRESS	MILES
BdSWD	Administer ordinances and permitting	All	Ongoing	NA
All	Administer Buffer Law Requirements	All	Ongoing	NA
BdSWD	Inventory and classify unstable and inadequate portions of public ditches and prioritize repairs	All	Ongoing, updated annually	NA
BdSWD	MDM Plan Development	All	Initiated data collection system	NA
BdSWD	Maintain up-to-date permits and records	All	Ongoing	NA

***included because the long term goal asserts that no miles have been stabilized**

2021 Progress for Measurable Goal: Nutrient Loading

Measurable Goals



Long-Term Goal: Planning region long-term goal total phosphorus load reductions are met, as defined in the Planning Region Focus table below.



Short-Term Goal: Planning region short-term goal total phosphorus load reductions are met, as defined in the Planning Region Focus table below.



Bois de Sioux Watershed		Mustinka Watershed		
Lake Traverse & Bois de Sioux River	Rabbit River	Upper Mustinka River	Lower Mustinka and Twelvemile Creek	Fivemile & Twelvemile Creek Headwaters
Reduce by 64% or 91,900 lbs/yr	Reduce by 44% or 19,700 lbs/yr	Reduce by 57% or 10,800 lbs/yr	Reduce by 41% or 39,100 lbs/yr	Reduce by 72% or 38,400 lbs/yr
Reduce by 320 lbs/yr	Reduce by 190 lbs/yr	Reduce by 110 lbs/yr	Reduce by 375 lbs/yr	Reduce by 260 lbs/yr

Metric: Percent of load reduction/mass load reduction at the end of the 10-year plan. Load reduction estimates established at planning region outlets using PTMApp.

CAPITAL IMPROVEMENT PROJECTS	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	LBS/YR
Judicial Ditch #11 Main Retrofit	LT&BDS	Bois de Sioux River	Completed Construction; Waiting for Seeding	117
Wilkin County Ditch #35 Retrofit	LT&BDS		Reestablishment of Records	250
Lake Traverse Water Quality Imp. Project #1	LT&BDS	Lake Traverse	Phase 1 Complete Phase 2 Construction Phase 3 Permitting	7129
Doran Creek Rehabilitation	LT&BDS		Design	170
Judicial Ditch #6 Retrofit	RR	Rabbit River	Completed Construction; Waiting for Seeding	384
Western 32 Flood Impoundment	RR		Complaint Investigations	UNKNOWN PROJECT DESIGN
Traverse County Ditch #35 Retrofit	LM&TMC	Twelvemile Creek and Mustinka River	Design	65
Redpath Flood Impoundment & Mustinka River Rehab.	LM&TMC	Mustinka River	Permitting & Funding Strategy	SIGNIFICANT, NOT CALCULATED YET

E. Branch Twelvemile Creek/Eldor. Flood Impoundment	LM&TMC	Twelvemile Creek and Mustinka River	Complaint Investigations	UNKNOWN PROJECT DESIGN
EDUCATION & OUTREACH PROGRAM	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	LBS/YR
River Watch Program	All	NA	Program continued	NA
REGULATORY PROGRAM	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	LBS/YR
Ordinances & Permitting	All	NA	Program continued	NA
Buffer Law Requirements	All	NA	Program continued	NA
DATA COLLECTION PROGRAM	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	LBS/YR
Assess Rivers and Stream Channel Banks	All	NA	Program continued	NA
MDM Plan Development	All	NA	Data collection system initiated	NA

2021 Progress for Measurable Goal: Unstable Channels

Measurable Goals



Long-Term Goal: All **465 miles** of rivers and streams channel banks within the plan area are assessed and stabilized.



Short-Term Goal: **23 miles** of priority river or stream channels are assessed and stabilized (where needed) through stream stabilization practices to decrease excessive erosion and channel sediment accumulation.

Metric: Miles of river or stream stabilized

CAPITAL IMPROVEMENT PROJECTS	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	MILES
Doran Creek Rehabilitation	LT&BDS	Doran Creek	Design	20
Lake Traverse Water Quality Imp. Project #1	LT&BDS		Phase 1 Complete Phase 2 Construction Phase 3 Permitting	Phase 1 = 0.6 Phase 2 = 0.3 Phase 3 = 1
Western 32 Flood Impoundment	RR		Complaint Investigations	UNKNOWN PROJECT DESIGN
Redpath Flood Impoundment & Mustinka River Rehab.	LM&TMC	Mustinka River	Permitting & Funding Strategy	8
E. Branch Twelvemile Creek/Eldor. Flood Impoundment	LM&TMC	Twelvemile Creek and Mustinka River	Complaint Investigations	UNKNOWN PROJECT DESIGN
REGULATORY PROGRAM	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	TONS/YR
Ordinances & Permitting	All	NA	Program continued	NA
Buffer Law Requirements	All	NA	Program continued	NA
DATA COLLECTION PROGRAM	PLANNING REGION	PRIORITY RESOURCES	PROGRESS	ACRE-FEET
Assess Rivers and Stream Channel Banks	All	NA	Program continued	NA

2021 Progress for Measurable Goal: Bacteria Loading

Measurable Goals



Long-Term Goal: Planning region bacteria long-term goal is achieved, as defined in the Planning Region Focus table below.



Short-Term Goal: Implement projects, specifically focused on reducing bacterial loading to nearly or barely impaired priority resources, as defined in the Planning Region Focus table below.

Planning Region Focus

Bois de Sioux Watershed		Mustinka Watershed		
Lake Traverse & Bois de Sioux River	Rabbit River	Upper Mustinka River	Lower Mustinka and Twelvemile Creek	Fivemile & Twelvemile Creek Headwaters
Delist all (2)	Protection	Protection	Delist all (5)	Delist all (2)
3.4 miles fencing to restrict livestock access to riparian areas and shorelines	N/A	1,400-foot fencing to restrict livestock access to riparian areas and shorelines	N/A	N/A

Metric: Long-term: number of impaired reaches; Short-term: number of projects

EDUCATION & OUTREACH PROGRAM	PLANNING REGION	PRIORITY RESOURCE	PROGRESS	FEET
River Watch Program	All	NA	Program continued	NA

SECTION SIX - PLANS FOR THE SUCCEEDING YEAR

- The BdSWD anticipates continued development of the following for 2022:

	<u>103E Ditches</u>	<u>103D Watershed Projects</u>
2021 Construction Carryover	JD #6 Repairs JD #11 Repairs	LTWQIP Phase No. 2
2022 Active Development & Construction	TCD #35 WCD #Sub-1 Improv.	LTWQIP Phase No. 3 Big Lake Outlet Redpath Impoundment & Mustinka River Rehab. Doran Creek Enhancement
2022 Prelim. Development	WCD #35	Moonshine Lakebed
2022 Minor Repairs	WCD #20 WCD #25 JD #12 Field Approaches	
Identified for Future	JD #12 TCD #8 TCD #52	Fivemile Creek Rehabilitation Western 32 Impoundment

- The Bois de Sioux Watershed District will conduct the necessary procedures to maintain the 414.9 lineal miles of legal ditch systems under their jurisdiction. This includes inspections, vegetation control, repairs, accounting, reports, etc.
- The BdSWD will continue to work towards acquisition of funding partners for the purpose of finalizing the needs for the Redpath Project & Mustinka River Fish & Wildlife Habitat Corridor.
- The BdSWD Board and staff will continue to serve on the many boards, committees, and commissions that they are currently a part of. They will also consider serving any new capacities they are asked to participate in to further the goals of the district and Red River Basin.
- The BdSWD will continue to meet with the Rabbit River, Bois de Sioux, Five Mile Creek, Moonshine, and TCD #52 Project Teams as necessary to continue development of the necessary summary reports and recommendations as directed by the Board of Managers.
- The BdSWD will continue the support for the River Watch Program and encourage new schools to participate.
- The BdSWD will continue to promote education through the distribution of social media updates and periodic public informational meetings.
- The BdSWD will continue to facilitate additional project teams, as needed, to work towards resolving water problems in the watershed.
- The BdSWD will continue implementation of the District’s responsibilities within the Joint Comprehensive Watershed Management Plan in the 2022 calendar year.
- The BdSWD will continue to use a diverse set of programs and policies to reduce soil erosion through establishment of riparian buffers and/or alternative equivalent conservation practices.

103E DRAINAGE SYSTEM PROJECTS

Identified Need for Future Improvements & Major Repairs (Retrofits)	Preliminary/Feasibility & Landowner Meetings	Active Development	In Construction	Active Minor Repairs	Completed 2017 - 2021	
Judicial Ditch #12	Wilkin County Ditch #35	Traverse County Ditch #35	Judicial Ditch #6 Repair 384 LBS/YR TP 417 TONS/YR SEDIMENT Rabbit River	Wilkin County Ditch #20 Outlet Repairs Rabbit River	Traverse County Ditch #37 Improvement Completed 2017 Whaley Excavating 340 TONS/YR SEDIMENT Twelve Mile Creek	Wilkin County Ditch #9 Improvement Riley's Construction 595 TONS/YR SEDIMENT Rabbit River
Traverse County Ditch #8	Wilkin County #Sub-1		Judicial Ditch #11 Repair Hormann Works 117 LBS/YR TP 3765 LBS/YR NITROGEN 420 TONS/YR SEDIMENT Bois de Sioux River	Wilkin County Ditch #25 Outlet Repairs Rabbit River	Wilkin County Ditch #8 Repair Completed 2019 569 TONS/YR SEDIMENT Rabbit River	
				Judicial Ditch #12 Field Approach Project Rabbit River	Traverse County Ditch #23 Field Approach Project Wagner's Excavating Completed 2018 Twelve Mile Creek	
					Wilkin County Ditch #18 Grade Stabilization Cost Share Program Completed 2020 Wilkin SWCD Rabbit River	

103D WATERSHED PROJECTS					
Identified Need for Future Project	Preliminary/Feasibility & Landowner Meetings	Active Development	In Construction	Active Minor Projects	Completed 2017 – 2021
Fivemile Creek Rehabilitation	Moonshine Lakebed Project	Big Lake Flood Control Outlet	Lake Traverse Water Quality Improvement Project Phase 2 450 TONS/YR Lake Traverse	Lined Waterways Project Traverse County & Traverse SWCD	TCD #31 Lined Waterways Completed 2020 Traverse County & Traverse SWCD Twelvemile Creek
Western 32 Impoundment		Lake Traverse Water Quality Improvement Project Phase 3	SWCD Cover Crop Program 2020 – 2022	North Ottawa Impoundment Collection channel repairs Stop logs for bays	Grade Stabilization Cost Share Program Completed 2020 Wilkin SWCD
		Grant County Mustinka River Corridor Project			Buffer Seeding Cost Share Program Completed 2020 Wilkin & Traverse SWCDs
		Redpath Flood Impoundment & Mustinka River Fish & Wildlife Habitat Corridor			TCD #23 Lined Waterways Completed 2021 Traverse County & Traverse SWCD Fivemile Creek
		Doran Creek Enhancement			Lake Traverse Water Quality Improvement Project Phase 1 7129 LBS/YR TP 750 TONS/YR SEDIMENT Lake Traverse
		Grant County Elbow Lake Flood Control Outlet			Grant County Lake Samantha Flood Control Outlet Olson Construction Elbow Lake

PROJECT GRANT FUNDING SOURCES				
PROJECT	SOURCE	EXPIRATION	ORIG. AMOUNT	AMOUNT RECEIVED
WCD #9/#10	BdSWD Project Development/Clean Water Cost Share	GRANT CLOSED	\$309,812	FULL FUNDING RECEIVED
	BdSWD Culvert Sizing Cost Share	GRANT CLOSED	\$332,000	FULL FUNDING RECEIVED
	BdSWD 75% Equalization Policy	GRANT CLOSED	\$197,244	FULL FUNDING RECEIVED
	RRWMB Base Funding Grant	GRANT CLOSED	\$100,000	FULL FUNDING RECEIVED
	BWSR Legacy Amendment Clean Water MDM Grant	GRANT CLOSED	\$114,120	FULL FUNDING RECEIVED
JD #11	BdSWD Project Development/Clean Water Cost Share	GRANT CLOSED	\$327,000	FULL FUNDING RECEIVED
	BdSWD 75% Equalization Policy	GRANT CLOSED	\$114,641	FULL FUNDING RECEIVED
	MN-DOT Road Crossing Cost Share	NA	TBD	TBD
	BWSR Legacy Amendment Clean Water MDM Grant	12/31/22	\$327,000	\$294,300
	Traverse SWCD Buffer Cost Share	GRANT CLOSED	\$13,521	FULL FUNDING RECEIVED
	Wilkin SWCD Buffer Cost Share	GRANT CLOSED	\$2,038	FULL FUNDING RECEIVED
JD #6	BWSR Legacy Amendment Clean Water MDM Grant	12/31/23	\$356,359	\$320,724
	BWSR Legacy Amendment Clean Water WBIF Grant	12/31/23	\$148,000	FULL FUNDING RECEIVED
TCD #35	BWSR Legacy Amendment Clean Water MDM Grant	12/31/24	\$320,000	\$0
1W1PLAN/JCWMP/WBIF	BWSR Legacy Amendment Clean Water WBIF Grant (to disburse for eligible projects to 13 LGU's)	12/31/23	\$1,064,522	\$532,261
DORAN CREEK	BdSWD Project Development/Clean Water Cost Share	GRANT CLOSED	\$100,000	FULL FUNDING RECEIVED
	RRWMB Base Funding Grant	GRANT CLOSED	\$100,000	FULL FUNDING RECEIVED
	BWSR Legacy Amendment Clean Water WBIF Grant	12/31/23	\$115,000	\$89,876.87
LTWQIP #1 PHASE #1	BdSWD Project Development/Clean Water Cost Share	GRANT CLOSED	\$300,000	FULL FUNDING RECEIVED
	RRWMB Water Quality Grant	GRANT CLOSED	\$283,000	FULL FUNDING RECEIVED
	BWSR Legacy Amendment Clean Water Project Grant	GRANT CLOSED	\$336,775	FULL FUNDING RECEIVED

LTWQIP #1 PHASE #2	BdSWD Project Development/Clean Water Cost Share	GRANT CLOSED	\$100,000	FULL FUNDING RECEIVED
	RRWMB Water Quality Grant	12/31/22	\$367,765	\$0
	BWSR Legacy Amendment Clean Water Project Grant	12/31/23	\$418,235	\$376,412
	BWSR Legacy Amendment Clean Water WBIF Grant	12/31/23	\$279,431	\$0
LTWQIP #1 PHASE #3	BdSWD Project Development/Clean Water Cost Share	GRANT CLOSED	\$100,000	FULL FUNDING RECEIVED
	BWSR Legacy Amendment Clean Water Project Grant	12/31/24	\$800,000	\$0
MUSTINKA RIVER RHB.	Lessard Sams Outdoor Heritage Grant	06/30/24	\$2,440,000	\$0
	BWSR Legacy Amendment Clean Water Project Grant	12/31/24	\$800,000	\$0
REDPATH IMPNDMNT	Flood Hazard Mitigation Grant	07/26/25	\$800,000	\$0

Bois de Sioux Watershed District

WEALTH ADVISORY | OUTSOURCING | AUDIT, TAX, AND CONSULTING

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Audit Results
Year Ended December 31, 2021



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Governance Communications

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Governance Communications

Our responsibility under Generally Accepted Auditing Standards

- **Express an opinion** on the financial statements in accordance with basis of reporting as permitted by the MN Office of the State Auditor
- Plan and perform the audit to **obtain reasonable, not absolute, assurance**
- **Evaluate internal controls** over financial reporting – no opinion on internal controls
- Utilize a **risk based** audit approach

Planned scope and timing of the audit

- Performed the audit according to the **planned scope** previously communicated during planning discussions



Governance Communications

Other information in documents containing audited financial statements

- Financial statements may only be **used in their entirety**
- **Our approval** is required in order to use our audit reports in any client prepared documents

Significant accounting policies

- **Management is responsible** for the accounting policies
- Outlined in **Note 1** to the financial statements
- No changes in accounting standards for 2021

Management representation letter

- Management provided a management representation letter in conjunction with the **approval of the audited financial statements**



Governance Communications

We experienced

- **No Delays** in issuing the audit
- **No issues** discussed prior to retention as independent auditors
- **No disagreements** with management regarding accounting, reporting, or auditing matters
- **No consultations** with other independent accountants

Adjusting, proposed, and passed adjusting journal entries

- **Adjusting journal entries** – To properly state receipts, disbursements, transfers in and out for current year activity moved between classes.
- **“Passed” adjusting journal entries** – none





Financial Statement Highlights

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Financial Statement Highlights

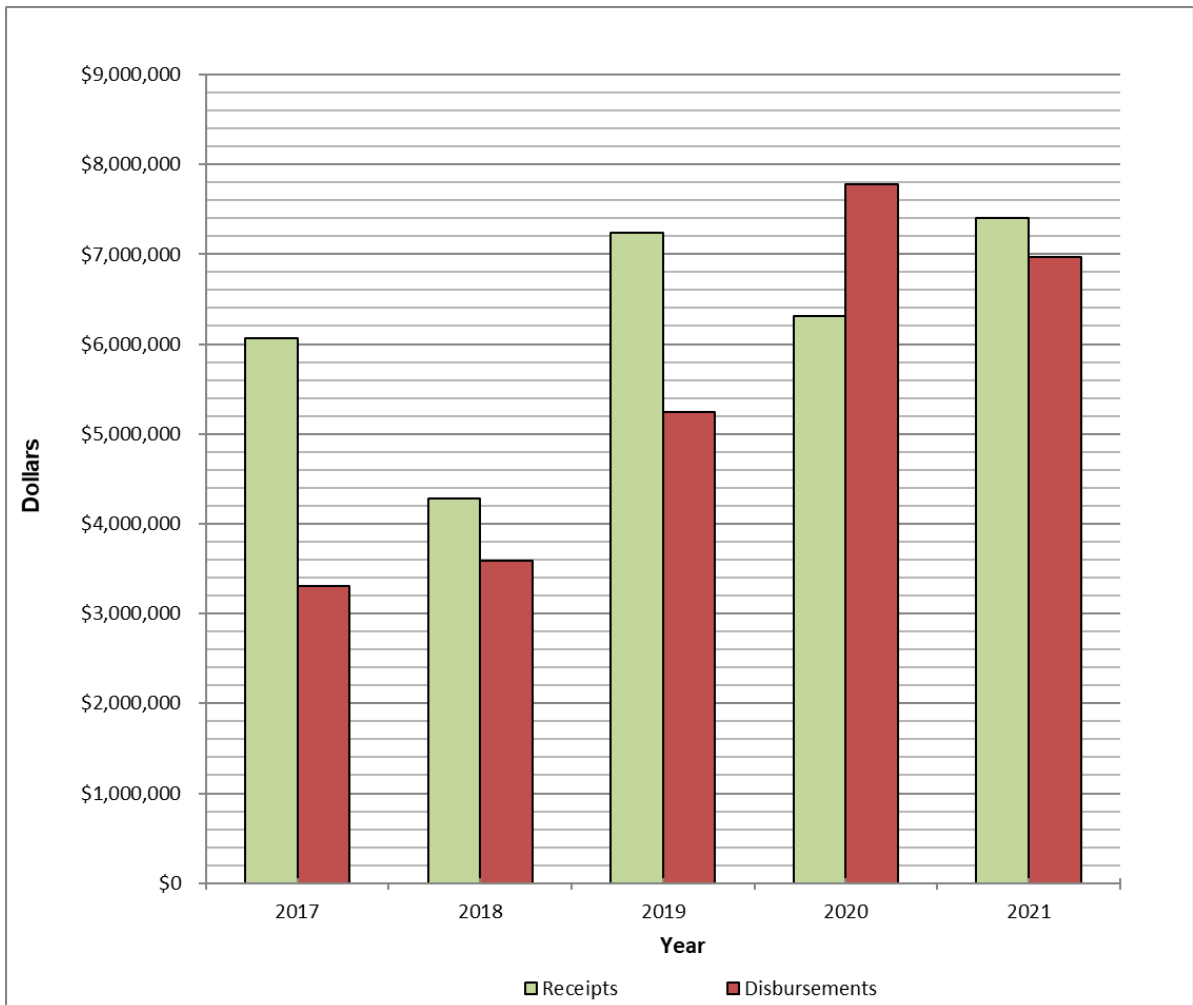
Introduction	<ul style="list-style-type: none">• Organization• Independent Auditors' Report
Basic Financial Statements	<ul style="list-style-type: none">• Statement of Balances Arising from Cash Transactions• Statement of Cash Receipts, Disbursements, and Changes in Cash Fund Balance• Notes to the Financial Statements
Supplementary and Other Information	<ul style="list-style-type: none">• General Fund Budgetary Comparison Schedules• Combining Statement of Cash Receipts, Disbursements, and Changes in Cash Fund Balance – Ditch Fund• Schedule of Accounts Receivable• Schedule of Accounts Payable
Compliance and Management Section	<ul style="list-style-type: none">• Report on Internal Controls• Independent Auditors' Report on Minnesota Legal Compliance• Schedule of Findings and Responses



Financial Statement Highlights

Total Receipts and Disbursements

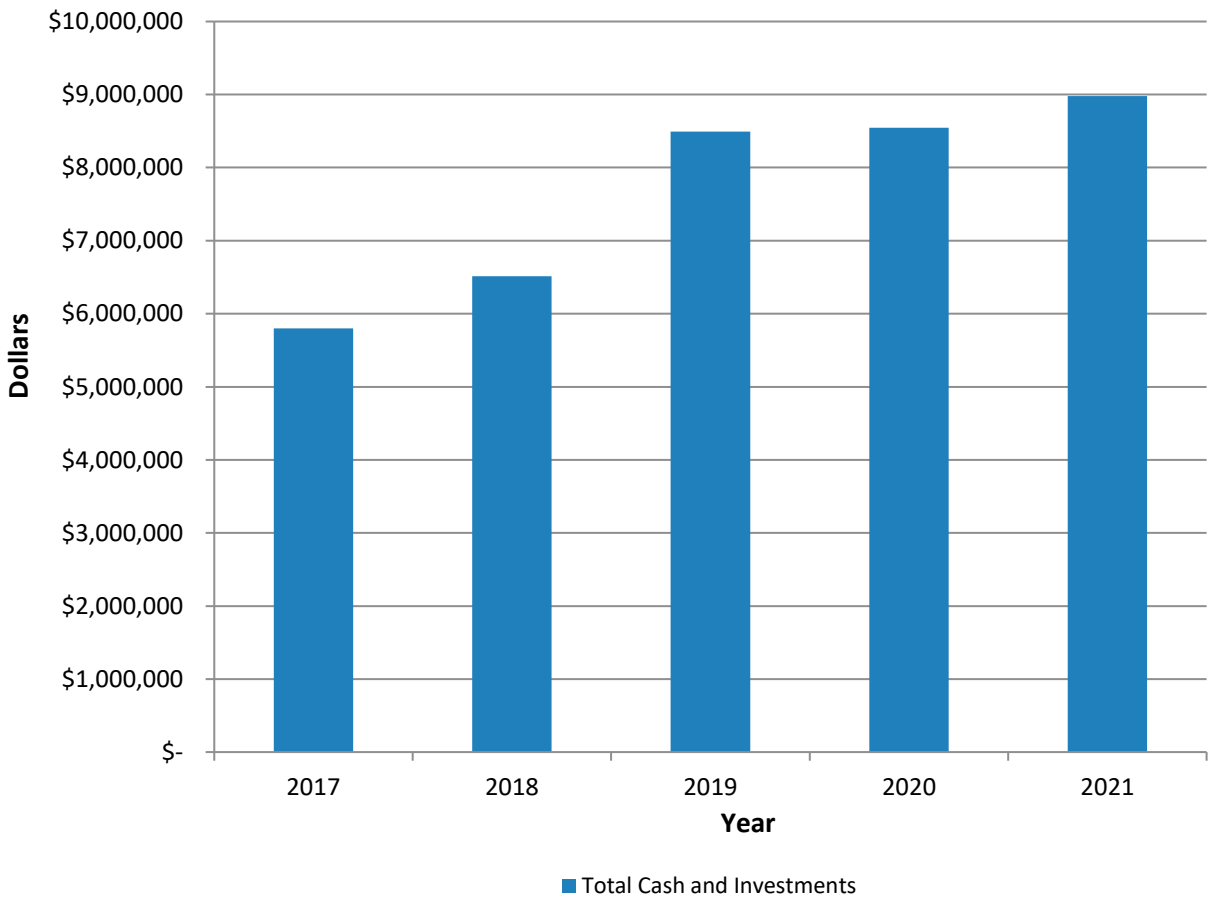
	2017	2018	2019	2020	2021
Receipts	\$ 6,066,119	\$ 4,283,604	\$ 7,237,444	\$ 6,306,683	\$ 7,404,976
Disbursements	3,303,026	3,584,948	5,243,446	7,783,695	6,968,768



Financial Statement Highlights

Total Cash Levels at Year-End

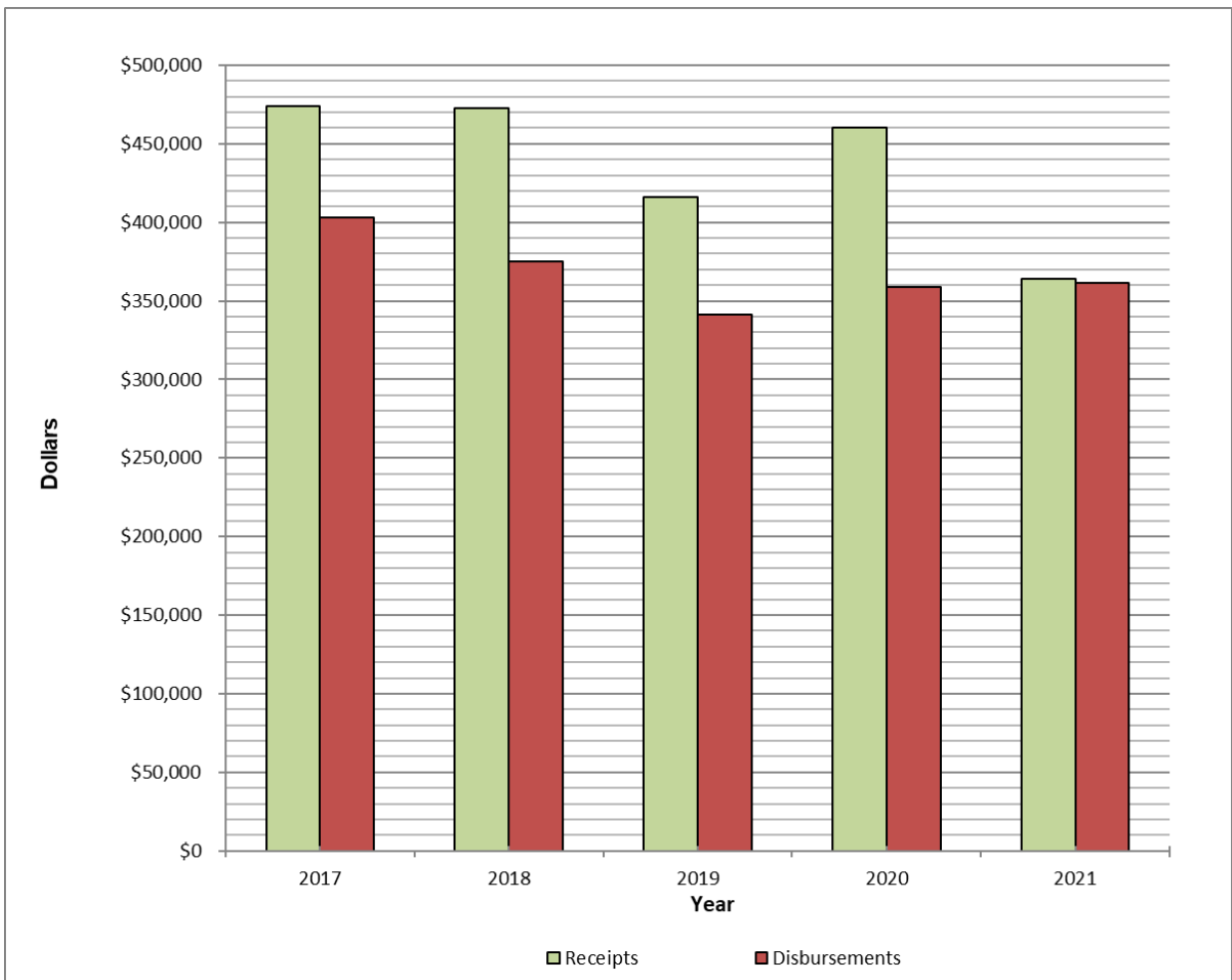
	2017	2018	2019	2020	2021
Total Cash and Investments	\$ 5,797,961	\$ 6,511,089	\$ 8,490,615	\$ 8,543,603	\$ 8,979,811



Financial Statement Highlights

General Fund Receipts and Disbursements

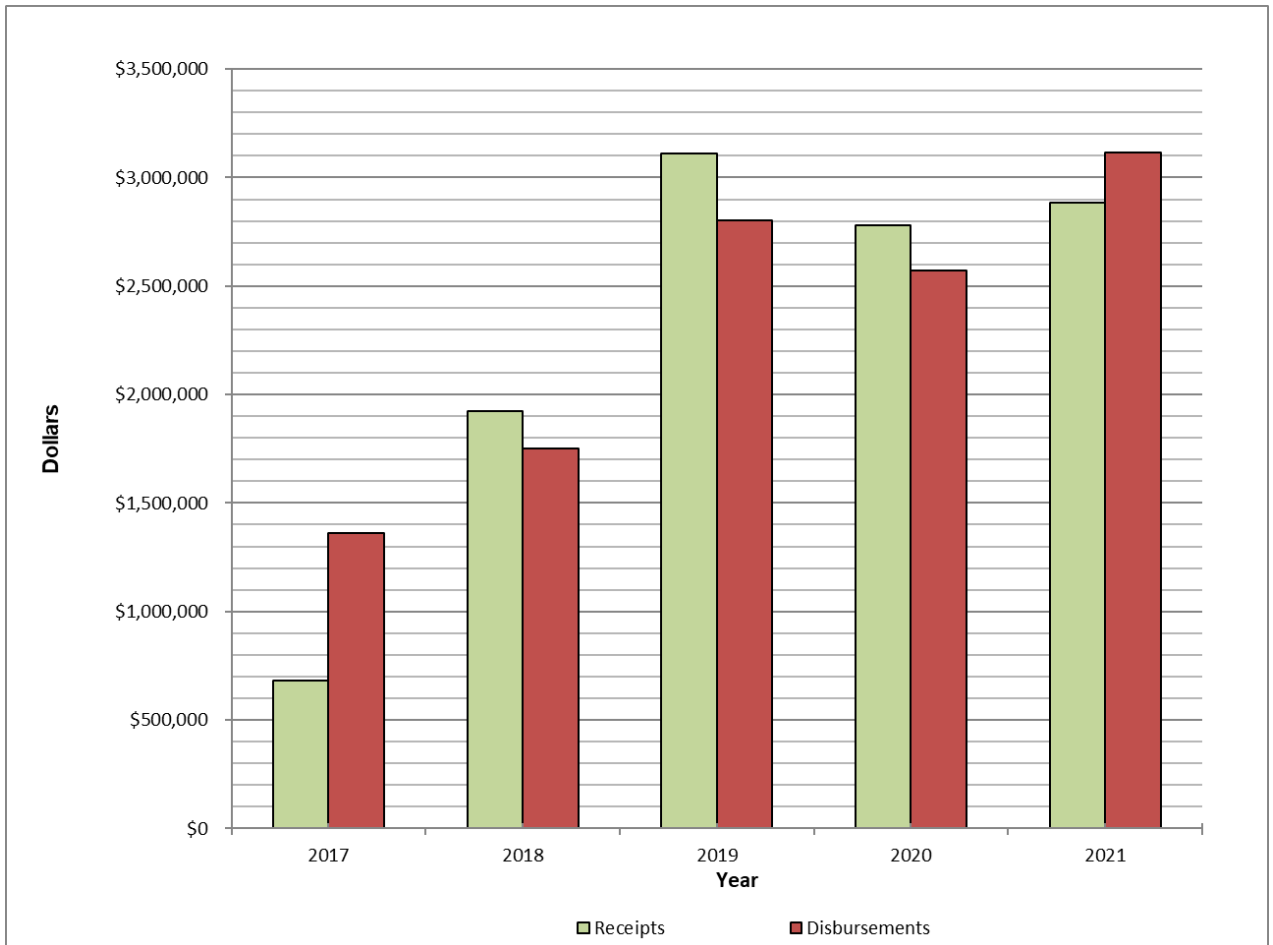
	2017	2018	2019	2020	2021
Receipts	\$ 473,887	\$ 472,479	\$ 416,290	\$ 460,582	\$ 363,853
Disbursements	403,006	374,760	341,360	358,566	361,263



Financial Statement Highlights

Ditch Fund Receipts and Disbursements

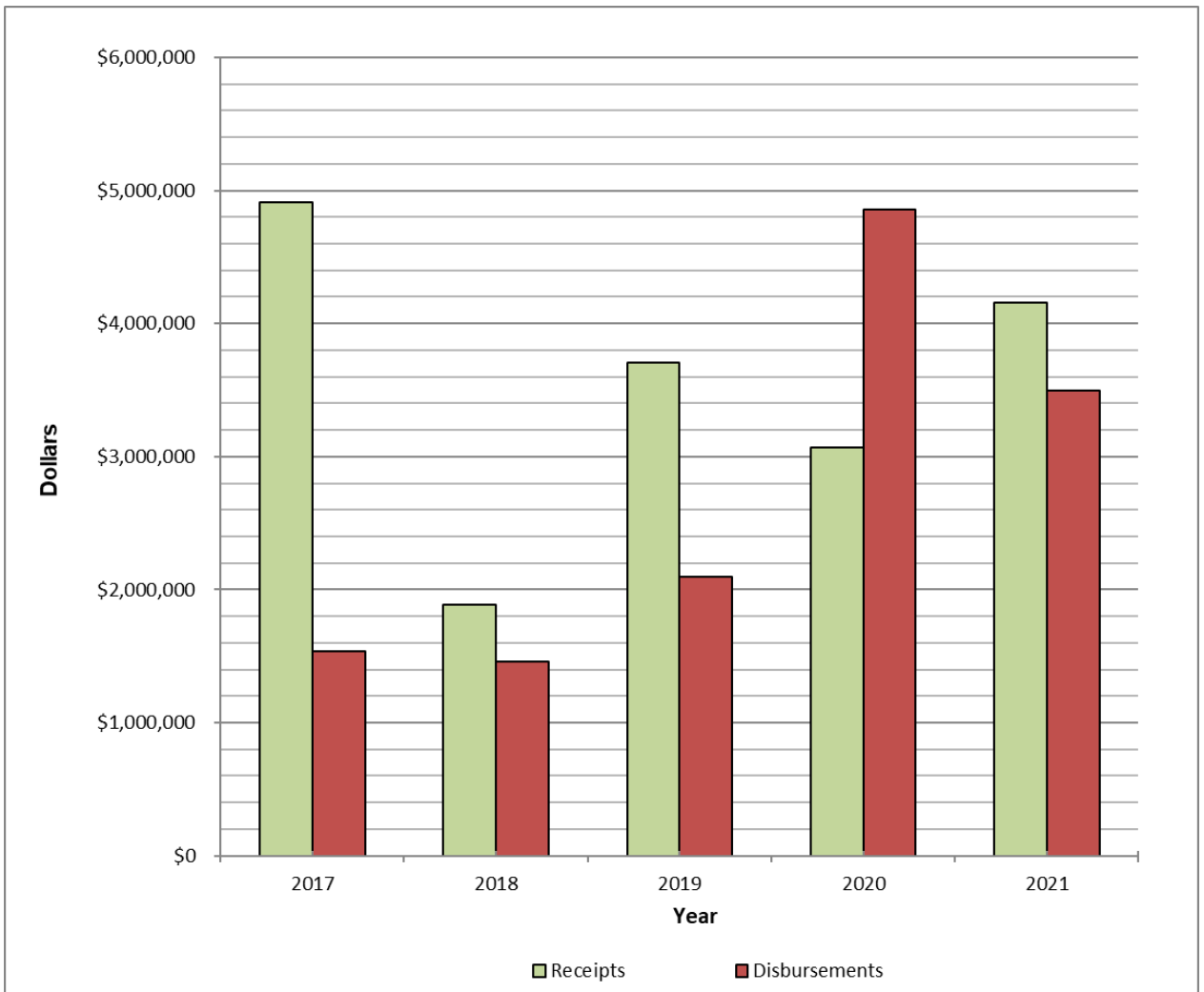
	2017	2018	2019	2020	2021
Receipts	\$ 683,794	\$ 1,923,807	\$ 3,111,816	\$ 2,779,535	\$ 2,886,453
Disbursements	1,362,780	1,749,355	2,802,549	2,572,354	3,114,591



Financial Statement Highlights

Construction Fund Receipts and Disbursements

	2017	2018	2019	2020	2021
Receipts	\$ 4,908,438	\$ 1,887,318	\$ 3,709,338	\$ 3,066,566	\$ 4,154,670
Disbursements	1,537,240	1,460,833	2,099,267	4,852,775	3,492,914





Financial Statement Internal Control and Compliance

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Financial Statement Internal Control and Compliance

Material Weaknesses

- 2021-001: Financial Reporting Process
- 2021-002: Limited Segregation of Duties
- 2021-003: Material Audit Adjustment

Significant Deficiency

- None reported





Minnesota Legal Compliance

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Minnesota Legal Compliance

Compliance Findings

- None in current year





Thank you!

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