



Grant Work Plan

Watershed Based Implementation Phase II 2020

Grant Title: 2020/2021 Yellow Medicine River Watershed Based Funding Phase II

Grant Award (\$): \$814,603.00

Grant Execution Date: 05/14/2020

II

Grant ID: C20-1003

Required Match (%): 10

Grant End Date: 12/31/2023

Grantee: Yellow Medicine River WD

Required Match (\$): \$81,460.30

Fiscal Agent: Yellow Medicine River WD

Grant Day-to-Day Contact: Michelle Overholser

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$814,603.00	\$814,603.00	\$0.00
Match Funds	\$81,460.30	\$135,547.64	(\$54,087.34)
Other Funds	\$226,420.72	\$226,420.72	\$0.00
Total	\$1,122,484.02	\$1,176,571.36	(\$54,087.34)

*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
Admin	Administration/Coordination	Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$23,858.76	\$23,858.76	\$0.00	N
Priority BMP Implementation	Agricultural Practices	Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$679,082.31	\$679,082.31	\$0.00	N

<i>Activity Name</i>	<i>Category</i>	<i>Source Type</i>	<i>Source Description</i>	<i>Budgeted</i>	<i>Spent</i>	<i>Balance Remaining</i>	<i>Match Fund?</i>
2023-031 Eidem Cover Crops	Agricultural Practices	Other Funds	2022/2023 Yellow Medicine River Watershed Based Funding Phase II	\$113,210.36	\$113,210.36	\$0.00	N
2023-031 Eidem Cover Crops	Agricultural Practices	Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phase II	\$31,329.64	\$31,329.64	\$0.00	N
Priority BMP Implementation	Agricultural Practices	Federal Funds	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$81,460.30	\$135,547.64	(\$54,087.34)	Y
Equipment	Supplies/Equipment	Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$0.00		\$0.00	N
Technical Services	Technical/Engineering Assistance	Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$80,332.29	\$80,332.29	\$0.00	N

Indicator Summary

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Stormwater Management	Volume Reduced (Acre-Feet/Year)	100	Acre-Feet/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	300	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	800	Lbs/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Nitrogen	623.06	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	346.718	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	268.521	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	613.19	Tons/Yr
Water Pollution (Reduction Estimates)	Nitrogen	984	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	67	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	51.1	Tons/Yr

Grant Activities

Activity Name: 2023-031 Eidem Cover Crops

Activity Category: Agricultural Practices **Staff time?:** No

Description: 438 Acres of Cover Crops. \$31,329.64 is paid from the 20/21 Grant and \$113,210.36 is paid from the 22/23 Grant.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2022/2023 Yellow Medicine River Watershed Based Funding Phase II	\$113,210.36	\$113,210.36	\$0.00	12/18/2023	N
Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phase II	\$31,329.64	\$31,329.64	\$0.00	12/18/2023	N

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Sediment (Tss)	51.1	Tons/Yr
Nitrogen	984	Lbs/Yr
Phosphorus (Est. Reduction)	67	Lbs/Yr

Activity Action Name: 2023-031 Mitch Eidem	Activity Count: 1
Practice Type: 340 - Cover Crop	Size/Units: 438 - Acres
TA Provider/JAA: SWCD	Lifespan: 3 Years
Practice Description: 438 Acres of Cover Crops	Install Date: 12/18/2023
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	30.5	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	31.2	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	799.4	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-031 Mitch Eidem	Activity Count: 1
Practice Type:	329 - Residue & Tillage Management (no/strip-till)	Size/Units: 438 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	438 Acres of Reduced Tillage	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	35.8	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	184.6	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	20.6	Simple Method (MPCA)	Yellow Medicine River

Activity Name: Admin

Activity Category: Administration/Coordination

Staff time?: Yes

Description: The Yellow Medicine River Watershed District will act as the fiscal agent for this grant. Activities include, tracking expenses, grant management, tracking plan progress, contract management, and e-link reporting. Its is the responsibility of the Yellow Medicine Watershed District to ensure that all of the State of MN grant tracking a reporting requirements are met, including but not limited to eLINK progress report, fiscal year end Comprehensive Annual Financial Report (CAFR), and all requirements identified in the BWSR Grants Administration Manual. In addition to the track grant activities, the Watershed District will also track and communicate to its partners, progress made towards the goals and objectives cited in the Yellow Medicine Comprehensive Watershed Management Plan.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$23,858.76	\$23,858.76	\$0.00	12/31/2022	N

Actual Results

Admin of grant by YMRWD 109 hours at \$84.56 from 7/1/21to 12/31/21. Time spent attending and planning meetings, ranking and tracking projects and managing grant funds. A Total of 8371.44. \$1691.77 is charged to the 18/19 grant. \$6679.67 will be charged to the 20/21 grant

Admin of grant by YMRWD of 101 hours at \$73.73 from 1/1/2022 to 06/30/2022 for a total of \$7446.73.

Admin of Grant by YMRWD of 132 hours at \$73.73 from 7/1/2022 to 12/31/2022 for a total of \$9732.36

Activity Name: Equipment

Activity Category: Supplies/Equipment

Staff time?: No

Description: To purchase any equipment that may be needed to implement and achieve the goals and objectives identified in the Yellow Medicine Comprehensive Watershed Management Plan. This may include, but is not limited to: design software, GIS software, survey equipment, motor vehicle, drone equipment, computer and other software. All equipment purchases will help in the implementation of the priorities identified in the Yellow Medicine Comprehensive Watershed Management Plan.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$0.00		\$0.00		N

Actual Results

Activity Name: Priority BMP Implementation

Activity Category: Agricultural Practices

Staff time?: No

Description: Implementing priority BMPs as identified in the plan implementation table for the 7 priority sub-watersheds in order to make progress towards the mitigation of altered hydrology goal and water quality goals outlined in section 4 of the plan. Specifically reducing sediment by 300 tons, reducing phosphorus by 800 lbs, and adding 100 acre-feet of water storage. Non-structural practices will have a 3-year lifespan, structural practices will have a 10-year lifespan and capital improvement projects will have a 25-year lifespan. ACPF and HSPF-SAMs will be used to target outreach and practices at a field scale level in the priority subwatershed. A local scoring and ranking process will be used for all projects funded by this grant. Projects that don't meet the local scoring threshold will not receive funding or will go the policy committee for additional consideration. The Yellow Medicine Watershed District will hold the cost share contracts and has adopted a cost share policy that has the approval of all the partners.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Federal Funds	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$81,460.30	\$135,547.64	(\$54,087.34)	09/19/2022	Y
Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$679,082.31	\$679,082.31	\$0.00	12/18/2023	N

Actual Results

As of 12/31/2020, funds in the amount of \$64,124.96 were spent on the construction of waterways and sediment control basins. 1 grass waterway 5040 feet long, and 2 sediment basins treating 100,8 ac were constructed and paid for with these grant fund.

Between 1/01/2021 and 12/31/2021 \$174,426.97 was spent on the construction of waterways and sediment control basins. Total of 5 grass waterways and 17 basins were constructed with this grant.

These projects were reported to provide reductions in the amount of; 83.84 lbs/yer of Phosphorus, 283.87 tons/yr of Soil and 83.84 lbs/yr of Sediment were reported.

The projects constructed under this grant met approximately 1/3 of our reduction goals outlined in the Milestones. Most of the projects completed in 2021 were completed under the 2018/2019 grant and there were projects completed outside any grant funds, which puts us on target to exceed our milestone regarding reductions in the priority sub-watersheds and the watershed district as a whole.

All other milestone goals in 2021 were meet.

\$244,405.73 was spent on the construction of waterways and sediment control basins. Total of 8,802 linear feet of grass waterways and 19 basins were constructed with this grant, and 16 open tile intakes were removed and replaced with alternative intakes.

These projects were reported to provide reductions in the amount of; 168.6 lbs/yer of Phosphorus, 300.35 tons/yr of Soil and 148.5lbs/yr of Sediment were reported.

the projects constructed in 2022 under this grant work towards our Sediment reduction goals outlined in the Milestones. There were projects completed outside any grant funds by other state, federal and private parties, which puts us on target to exceed our milestone regarding reductions in the priority sub-watersheds and the watershed district as a whole. The total reductions estimates for the grant as of the end of 2022 are: Nitrogen-55.9 lbs/yr., TSS-229.53 Tons/yr. (77% of milestone goal), Phosphorus-243.77 lbs/yr. (31% of milestone goal), Soil-535.21 Tons/yr. The Grant has not paid for projects that work towards the acre-feet water storage goal.

All other milestone goals in 2022 were meet.

Final Indicators		
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Soil (Est. Savings)	613.19	Tons/Yr
Phosphorus (Est. Reduction)	346.718	Lbs/Yr
Sediment (Tss)	268.521	Tons/Yr
Nitrogen	623.06	Lbs/Yr

Activity Action Name: 2020-013 Randy Hauschild	Activity Count: 4
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 48 - Acres
TA Provider/JAA: TSA	Lifespan: 10 Years
Practice Description: Four basins completed.	Install Date: 11/06/2021
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	7.38	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	3.69	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	3.69	Bwsr Calc (Gully Stabilization)	Yellow Medicine River

Activity Action Name: 2020-008 Dybsetter Farms	Activity Count: 4
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 21.6 - Acres
TA Provider/JAA: TSA	Lifespan: 10 Years
Practice Description: Four basins installed and seeded.	Install Date: 11/22/2021
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	5.82	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Soil (Est. Savings)	Tons/Yr	5.82	Bwsr Calc (Gully Stabilization)	Yellow Medicine river
Phosphorus (Est. Reduction)	Lbs/Yr	5.82	Bwsr Calc (Gully Stabilization)	Yellow Medicine River

Activity Action Name:	2020-007 Gerald Lasnetski	Activity Count: 7
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 58.9 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Installed 7 basins for gully erosion control.	Install Date: 11/30/2020
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	8.5	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Soil (Est. Savings)	Tons/Yr	17	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Sediment (Tss)	Tons/Yr	8.5	Bwsr Calc (Gully Stabilization)	Yellow Med. River

Activity Action Name:	2020-006 Randy Janiszkeski	Activity Count: 6
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 41.9 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	6 basins installed for gully erosion control.	Install Date: 10/02/2020
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	7.88	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Phosphorus (Est. Reduction)	Lbs/Yr	9.06	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Soil (Est. Savings)	Tons/Yr	15.75	Bwsr Calc (Gully Stabilization)	Yellow Med. River

Activity Action Name:	2020-021 Carr Farms Partnership	Activity Count: 2
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 4389 - Cfu
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	2 grassed waterways with underground outlet to control gully erosion	Install Date: 07/06/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	41.86	Bwsr Calc (Gully Stabilization)	070200040305
Sediment (Tss)	Tons/Yr	14.65	Bwsr Calc (Gully Stabilization)	070200040305
Phosphorus (Est. Reduction)	Lbs/Yr	14.65	Bwsr Calc (Gully Stabilization)	070200040305

Activity Action Name:	2020-021 Carr Farms Partnership	Activity Count: 5
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 38.1 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	5 water and sediment control basins and underground outlets to combat gully erosion	Install Date: 07/06/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	105.19	Bwsr Calc (Gully Stabilization)	070200040305
Sediment (Tss)	Tons/Yr	36.82	Bwsr Calc (Gully Stabilization)	070200040305
Phosphorus (Est. Reduction)	Lbs/Yr	36.82	Bwsr Calc (Gully Stabilization)	070200040305

Activity Action Name:	2020-022 John DeSmet	Activity Count: 3
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 3638 - Cfu
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	3 grassed waterways and subsurface drains to combat gully erosion.	Install Date: 11/21/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	20.97	Bwsr Calc (Gully Stabilization)	070200040305
Sediment (Tss)	Tons/Yr	20.97	Bwsr Calc (Gully Stabilization)	070200040305
Soil (Est. Savings)	Tons/Yr	119.85	Bwsr Calc (Gully Stabilization)	070200040305

Activity Action Name:	2022-012 Van Hyfte	Activity Count: 3
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 30.5 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	3 basins in mud creek sub watershed	Install Date: 11/30/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	27.37	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	13.69	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	13.69	Bwsr Calc (Gully Stabilization)	Yellow Medicine River

Activity Action Name:	2022-022 Tmm	Activity Count: 10
Practice Type:	164M - Sediment Removal	Size/Units: 10 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	Removed 10 open tile intakes and replaces with sub surface blind intakes	Install Date: 05/05/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	3.6	Other	Yellow Medicine River
Sediment (Tss)	Tons/Yr	0.8	Other	Yellow Medicine River
Nitrogen	Lbs/Yr	11.2	Other	Yellow Medicine River

Activity Action Name:	2022-027 Schreiber	Activity Count: 6
Practice Type:	164M - Sediment Removal	Size/Units: 6 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	6 alternative intake structures to control sediment and nutrients leaving the field.	Install Date: 10/13/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	1.041	Other	Yellow Medicine River - HUC 8 Outlet
Nitrogen	Lbs/Yr	22.6	Other	Yellow Medicine River - HUC 8 Outlet
Phosphorus (Est. Reduction)	Lbs/Yr	6.298	Other	Yellow Medicine River - HUC 8 Outlet

Activity Action Name:	2020-028 Don Gorecki	Activity Count: 5
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 87.3 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	5 basins completed	Install Date: 09/01/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	13.04	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Soil (Est. Savings)	Tons/Yr	26.08	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Sediment (Tss)	Tons/Yr	13.04	Bwsr Calc (Gully Stabilization)	Yellow Med. River

Activity Action Name:	2022-016 Charles Reiss	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 749 - Cfu
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	749 foot waterway completed. No tile needed.	Install Date: 08/15/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	6.38	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Phosphorus (Est. Reduction)	Lbs/Yr	3.19	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Sediment (Tss)	Tons/Yr	3.19	Bwsr Calc (Gully Stabilization)	Yellow Med. River

Activity Action Name:	2022-017 Jeff Paluch	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 3.9 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	One basin completed	Install Date: 11/07/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	1.15	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Phosphorus (Est. Reduction)	Lbs/Yr	1.15	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Soil (Est. Savings)	Tons/Yr	2.3	Bwsr Calc (Gully Stabilization)	Yellow Med. River

Activity Action Name:	2022-005 Ben Jerzak	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 4.2 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	One basin completed.	Install Date: 10/29/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	2	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Soil (Est. Savings)	Tons/Yr	4	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Sediment (Tss)	Tons/Yr	2	Bwsr Calc (Gully Stabilization)	Yellow Med. River

Activity Action Name:	2020-032 Jeff Jerzak	Activity Count: 4
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 31.9 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Four basins completed	Install Date: 12/02/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	3.8	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Soil (Est. Savings)	Tons/Yr	7.61	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Sediment (Tss)	Tons/Yr	3.8	Bwsr Calc (Gully Stabilization)	Yellow Med. River

Activity Action Name:	2022-006 Luke Gorecki	Activity Count: 3
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 10.7 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	3 basins completed	Install Date: 11/16/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	7.29	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Sediment (Tss)	Tons/Yr	3.64	Bwsr Calc (Gully Stabilization)	Yellow Med River
Phosphorus (Est. Reduction)	Lbs/Yr	3.64	Bwsr Calc (Gully Stabilization)	Yellow Med River

Activity Action Name:	2022-007 Randy Kamrath	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 2750 - Cfu
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	One waterway completed.	Install Date: 08/27/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	18.58	Bwsr Calc (Gully Stabilization)	Yellow Med River
Phosphorus (Est. Reduction)	Lbs/Yr	18.58	Bwsr Calc (Gully Stabilization)	Yellow Med River
Sediment (Tss)	Tons/Yr	18.58	Bwsr Calc (Gully Stabilization)	Yellow Med. River

Activity Action Name:	2020-023 Dwight Buller	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 1484 - Cfu
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	One waterway completed	Install Date: 05/25/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	3.15	Bwsr Calc (Gully Stabilization)	Yellow Med River
Soil (Est. Savings)	Tons/Yr	6.31	Bwsr Calc (Gully Stabilization)	Yellow Med River
Sediment (Tss)	Tons/Yr	3.15	Bwsr Calc (Gully Stabilization)	Yellow Med River

Activity Action Name:	2020-023 Dwight Buller	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 38.2 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	2 basins completed	Install Date: 10/18/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	5.84	Bwsr Calc (Gully Stabilization)	Yellow Med River
Phosphorus (Est. Reduction)	Lbs/Yr	2.92	Bwsr Calc (Gully Stabilization)	Yellow Med River
Sediment (Tss)	Tons/Yr	2.92	Bwsr Calc (Gully Stabilization)	Yellow Med River

Activity Action Name:	2022-004 Fran Fier	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 2298 - Cfu
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	One waterway completed	Install Date: 08/26/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	9.78	Bwsr Calc (Gully Stabilization)	Yellow Med River
Phosphorus (Est. Reduction)	Lbs/Yr	9.78	Bwsr Calc (Gully Stabilization)	Yellow Med River
Sediment (Tss)	Tons/Yr	9.78	Bwsr Calc (Gully Stabilization)	Yellow Med River

Activity Action Name:	2022-003 Paula Sterzinger	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 21 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	One basin completed	Install Date: 11/03/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	2.55	Bwsr Calc (Gully Stabilization)	Yellow Med River
Soil (Est. Savings)	Tons/Yr	5.1	Bwsr Calc (Gully Stabilization)	Yellow Med River
Phosphorus (Est. Reduction)	Lbs/Yr	2.55	Bwsr Calc (Gully Stabilization)	Yellow Med River

Activity Action Name:	2020-006 Randy Janiszkeski	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 3040 - Cfu
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Installed 1 new waterways for gully erosion control. 106.6 acre watershed.	Install Date: 08/29/2020
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	22.75	Bwsr Calc (Gully Stabilization)	Yellow Med. River
Sediment (Tss)	Tons/Yr	11.38	Bwsr Calc (Gully Stabilization)	Yellow Med River
Phosphorus (Est. Reduction)	Lbs/Yr	13.08	Bwsr Calc (Gully Stabilization)	Yellow Med. river

Activity Action Name:	2020-005 John Jerzak	Activity Count: 4
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 46.5 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	4 Basins in stalled	Install Date: 12/08/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	13.86	Bwsr Calc (Gully Stabilization)	Yellow Med River
Soil (Est. Savings)	Tons/Yr	13.86	Bwsr Calc (Sheet And Rill)	Yellow Med River
Sediment (Tss)	Tons/Yr	13.86	Bwsr Calc (Gully Stabilization)	Yellow Med River

Activity Action Name:	2020-015 Dale Fier	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 8.9 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	1 Basin treating 8.9 ac	Install Date: 07/29/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	1.8	Other	Yellow Medicine River
Nitrogen	Lbs/Yr	14.6	Other	Yellow Medicine River
Soil (Est. Savings)	Tons/Yr	0.02	Other	Yellow Medicine River

Activity Action Name:	2023-014 Bill Otto	Activity Count: 4
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 91.7 - Acre-Feet/Yr
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	4 water and sediment control basins	Install Date: 12/14/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	226	Other	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	23.5	Other	Yellow Medicine River
Sediment (Tss)	Tons/Yr	2.7	Other	Yellow Medicine River

Activity Action Name:	2023-010 Brad Miller	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 240 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	412 Grassed Waterway	Install Date: 12/14/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	33.2	Other	Yellow Medicine
Sediment (Tss)	Tons/Yr	5.1	Other	Yellow Medicine
Nitrogen	Lbs/Yr	182.9	Other	Yellow Medicine

Activity Action Name:	2022-014 Cole	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 0.8 - Acre-Feet/Yr
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	638 Water and Sediment Control Basin	Install Date: 11/17/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	0.2	Other	Yellow Medicine
Sediment (Tss)	Tons/Yr	0	Other	Yellow Medicine
Nitrogen	Lbs/Yr	1.9	Other	Yellow Medicine

Activity Action Name:	2023-016 Todd Merritt	Activity Count: 3
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 59.4 - Acre-Feet/Yr
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	3 basins installed	Install Date: 10/10/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	73.5	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	1.69	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	9.68	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2022-008 Zimmerman	Activity Count: 2
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 142.5 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	2 grass waterways treating 142.5 ac	Install Date: 11/02/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	11.14	Bwsr Calc (Gully Stabilization)	Yellow Med River
Soil (Est. Savings)	Tons/Yr	22.27	Bwsr Calc (Gully Stabilization)	Yellow Med River
Sediment (Tss)	Tons/Yr	11.14	Bwsr Calc (Gully Stabilization)	Yellow Med River

Activity Action Name:	2020-020 Dybsetter	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 15.9 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	1 basin in the Mud Creek priority sub watershed	Install Date: 11/10/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	5.44	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Soil (Est. Savings)	Tons/Yr	10.88	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	5.44	Bwsr Calc (Gully Stabilization)	Yellow Medicine River

Activity Action Name:	2022-015 Luke Gorecki	Activity Count: 4
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 4 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	4 water and sediment control basins	Install Date: 11/15/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	28.56	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	28.56	Bwsr Calc (Gully Stabilization)	Yellow Medicine River
Soil (Est. Savings)	Tons/Yr	81.6	Bwsr Calc (Gully Stabilization)	Yellow Medicine River

Activity Action Name:	2020-025 Dale Fier	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	638 Wascob	Install Date: 01/17/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.03	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	4.8	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	0.5	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2020-012 Dale Fier - YM Basins	Activity Count: 3
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 23.2 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	3 water and sediment control basins and underground outlets to combat gully erosion.	Install Date: 10/09/2020
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	7.76	Bwsr Calc (Gully Stabilization)	070200040307
Phosphorus (Est. Reduction)	Lbs/Yr	7.76	Bwsr Calc (Gully Stabilization)	070200040307
Soil (Est. Savings)	Tons/Yr	22.17	Bwsr Calc (Gully Stabilization)	070200040307

Activity Action Name:	2020-031 Torke	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 56 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	412 Grassed Waterway	Install Date: 12/31/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	6	Other	Yellow Medicine
Sediment (Tss)	Tons/Yr	2.1	Other	Yellow Medicine
Nitrogen	Lbs/Yr	27.4	Other	Yellow Medicine

Activity Action Name:	2020-031 Torke	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	638 Water and Sediment Control Basin	Install Date: 12/31/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	4.3	Other	Yellow Medicine
Nitrogen	Lbs/Yr	34.8	Other	Yellow Medicine
Sediment (Tss)	Tons/Yr	1.1	Other	Yellow Medicine

Activity Action Name:	2022-013 Heartland	Activity Count: 5
Practice Type:	350 - Sediment Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	657 Wetland Restoration	Install Date: 08/17/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0.15	Bwsr Calc (Filter Strip)	Yellow Medicine
Nitrogen	Lbs/Yr	23.36	Bwsr Calc (Filter Strip)	Yellow Medicine
Phosphorus (Est. Reduction)	Lbs/Yr	0.8	Bwsr Calc (Filter Strip)	Yellow Medicine

Activity Name: Technical Services

Activity Category: Technical/Engineering Assistance

Staff time?: No

Description: These funds will be used for technical services and/or staff time. The technical assistance provider(s) must have appropriate credentials for practice investigation, design, and construction. This will ensure that practices implemented with these funds will meet the FOTG technical standards, MN Stormwater Manual, or be a professionally accepted engineering or ecological practice and ensures that the requirements for the Technical Quality Assurances are met.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phas..	\$80,332.29	\$80,332.29	\$0.00	10/12/2022	N

Actual Results

In 2021, \$33,430.26 of funds from this grant were used to reimburse the 4 local SWCDs for engineering services that were provided by TSA.

In 2022, \$46,902.06 of funds from this grant were used to reimburse the 4 local SWCDs for engineering services that were provided by TSA.