



Grant Work Plan

Projects and Practices 2021

Grant Title: 2021 Priority Implementation Targeting Lawrence Creek, Dry Creek, and Direct Drainage to the St. Croix River

Grant Award (\$): \$250,000.00

Grant Execution Date: 03/05/2021

Grant ID: C21-7520

Required Match (%): 25

Grant End Date: 12/31/2023

Grantee: Chisago SWCD

Required Match (\$): \$62,500.00

Fiscal Agent: Chisago SWCD

Grant Day-to-Day Contact: Craig Mell

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$250,000.00	\$250,000.00	\$0.00
Match Funds	\$62,500.00	\$88,425.21	(\$25,925.21)
Other Funds	\$109,140.00	\$117,550.40	(\$8,410.40)
Total	\$421,640.00	\$455,975.61	(\$34,335.61)

*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?
Education/Outreach	Education/Information	Local Fund	Local Match	\$500.00		\$500.00	Y
Administration	Administration/Coordination	Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$20,000.00	\$21,772.00	(\$1,772.00)	N
Construction	Agricultural Practices	Other Funds	2019 St. Croix River Escarpment Gully	\$70,000.00	\$65,944.00	\$4,056.00	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>
			Stabilization				
Construction	Agricultural Practices	Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$0.00	\$1,202.16	(\$1,202.16)	N
Construction	Agricultural Practices	Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$140,000.00	\$138,425.29	\$1,574.71	N
DDStC 23-01 Tim Devick	Agricultural Practices	Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry Creek, and Direct Drainage to the St. Croix River	\$10,000.00	\$10,000.00	\$0.00	N
DDStC 23-01 Tim Devick	Agricultural Practices	Other Funds	2023 Priority BMP Implementation Targeting Lawrence Creek, Dry Creek, and Direct Drainage to the St. Croix River Phase II	\$9,635.50	\$9,635.50	\$0.00	N
Engineering/Technical Assistance	Technical/Engineering Assistance	Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$80,000.00	\$78,600.55	\$1,399.45	N
Construction	Agricultural Practices	Federal Funds	Landowner - Federal Funds	\$11,000.00	\$34,966.40	(\$23,966.40)	Y
Construction	Agricultural Practices	Landowner Fund	Landowner Fund	\$11,500.00		\$11,500.00	Y
Construction	Agricultural Practices	Landowner Fund	Landowner Match	\$62,000.00	\$88,425.21	(\$26,425.21)	Y
DDStC 23-01 Tim Devick	Agricultural Practices	Landowner Fund	Match	\$7,004.50	\$7,004.50	\$0.00	Y

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	140	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	140	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	716.51	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	712.66	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	2344.9	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	571.4	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	281.29	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	889.19	Tons/Yr
Water Pollution (Reduction Estimates)	Total Suspended Solids (TSS)	246.3	Mg/L
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	215.44	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	215.44	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Estimates)			
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	1255.03	Tons/Yr

Grant Activities

Activity Name: Administration

Activity Category: Administration/Coordination

Staff time?: Yes

Description: Carry out administrative duties associated with executing the grant agreement, fulfilling reporting requirements, preparing contracts, tracking activities and hours, etc. Craig Mell, District Administrator will be responsible for activities including grant agreements, contracts, time tracking, and reporting to the SWCD Board. Jacquelynn Kelzenberg, Conservation Technician will be responsible for grant reporting activities, including reporting in eLink.

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	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$20,000.00	\$21,772.00	(\$1,772.00)	07/10/2023	N

Actual Results

As of April 1st, 2021

Admin work on program development and project contracting

As of Jan 1, 2022

Admin work on contracting five projects, completing vouchers, budgeting and reporting project updates to the SWCD board

As of April 4, 2022

Admin work on contracting 2-3 projects, preparing them for the board

As of July 1, 2022

Admin work contracting and getting bids for 4 projects.

As of Jan. 1, 2023

Admin work contracting and reporting projects to board and in eLink.

As of April 6, 2023

Admin work was completed on eLink reporting, project contracting, budget tracking and reporting to SWCD board.

As of July 11, 2023 Admin work was completed on project contracting, budget tracking and reporting to SWCD board

No new funds spent from this activity in Q4

Activity Name: Construction

Activity Category: Agricultural Practices

Staff time?: No

Description: Cost share funds for implementation of designed BMPs. In 2018, Chisago SWCD staff completed topographic surveys and preliminary designs for several projects along the St. Croix River escarpment. Landowner projects include Rochel, Olson, Peterson, Oswald, Waletzko's, and City of Taylors Falls. Practices on the preliminary design list include (638) water and sediment control basins, (362) diversions, (468) lined waterway and outlet, and (410) grade stabilization structure. NRCS Standards will be followed for all practices listed above.

These projects will reduce the phosphorus loading by at least 50 pounds per year and sediment loading by at least 50 tons per year.

The landowner is responsible for soliciting bids for the project and for hiring a contractor. In some cases, the landowner signs a document that allows the Chisago SWCD to solicit bids on the landowners' behalf. When bids are received, the Chisago SWCD reviews them to ensure that the costs are reasonable and within the budget allotted for the project. The SWCD has a list of contractors that we have worked with on prior projects that the landowner can use if they choose. The landowner is also free to solicit bids from companies not on the list. Once the SWCD has approved bids as being acceptable and within the budget limits (or the landowner has agreed to pay any costs above and beyond the SWCD's project), the landowner makes the final decision on which bid to accept.

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	2019 St. Croix River Escarpment Gully Stabilization	\$70,000.00	\$65,944.00	\$4,056.00	10/11/2022	N
Federal Funds	Landowner - Federal Funds	\$11,000.00	\$34,966.40	(\$23,966.40)	01/11/2022	Y
Landowner Fund	Landowner Fund	\$11,500.00		\$11,500.00		Y
Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$0.00	\$1,202.16	(\$1,202.16)	09/15/2022	N

Actual Results

As of December 31, 2019

Kevin Rochel Home and Gerald Olson's projects were installed.

As of Jan. 1, 2022

Jason Quist and Mallery Jersey's projects were completed in the fall and certified by NRCS engineering staff.

As of October 21, 2022

Allen Peltier's erosion project finalized this grant.

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	716.51	Lbs/Yr
Soil (Est. Savings)	2344.9	Tons/Yr
Sediment (Tss)	712.66	Tons/Yr

Activity Action Name:	Kevin Rochel Home WASCObS	Activity Count: 3
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 1467 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Grassed berms less than 4' tall	Install Date: 07/09/2019
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	38.25	Bwsr Calc (Gully Stabilization)	St.Croix River
Sediment (Tss)	Tons/Yr	38.25	Bwsr Calc (Gully Stabilization)	St.CRoix River
Phosphorus (Est. Reduction)	Lbs/Yr	38.25	Bwsr Calc (Gully Stabilization)	St.Croix River
Soil (Est. Savings)	Tons/Yr	1.4	Rusle2 (Updated)	St.Croix River

Activity Action Name:	Kevin Rochel (Gerald Olson)	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 300 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	WASCOB 165' grassed 4-6' tall, 135' farmed	Install Date: 07/09/2019
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	8.5	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	8.5	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	Tons/Yr	1.4	Rusle2 (Updated)	St. Croix River
Soil (Est. Savings)	Tons/Yr	8.5	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	Mallery Jerseys	Activity Count: 1
Practice Type:	410 - Grade Stabilization Structure	Size/Units: 1 - Count
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Embankment Dam- drainage area 70-100acres	Install Date: 12/14/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	382.5	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	110.73	Bwsr Calc (Gully Stabilization)	St. Croix River
Sediment (Tss)	Tons/Yr	110.73	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	Jason Quist N. WASCOB	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 308 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Berm less than 4' tall, grassed	Install Date: 12/13/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	1843.01	Bwsr Calc (Gully Stabilization)	St. Croix River
Sediment (Tss)	Tons/Yr	533.53	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	533.53	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	Allen Peltier	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 226 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	WASCOB to control field erosion	Install Date: 09/15/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0.68	Bwsr Calc (Gully Stabilization)	St.Croix River
Soil (Est. Savings)	Tons/Yr	1.33	Bwsr Calc (Sheet And Rill)	St.Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	3.4	Bwsr Calc (Gully Stabilization)	St.Croix River
Sediment (Tss)	Tons/Yr	1.33	Bwsr Calc (Sheet And Rill)	St.Croix River
Sediment (Tss)	Tons/Yr	0.68	Bwsr Calc (Gully Stabilization)	St.Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	2.46	Bwsr Calc (Sheet And Rill)	St.Croix River

Activity Action Name:	Jason Quist S. WASCOB	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 246 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Berm between 6' and 8' tall, grassed	Install Date: 12/13/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	19.64	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	Tons/Yr	67.83	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	19.64	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Name: Construction

Activity Category: Agricultural Practices

Staff time?: No

Description: Cost share funds for implementation of designed BMPs. In 2018, Chisago SWCD staff completed topographic surveys and preliminary designs for several projects along the St. Croix River escarpment. Landowner projects include Rochel, Olson, Peterson, Oswald, Waletzko's, and City of Taylors Falls. Practices on the preliminary design list include (638) water and sediment control basins, (362) diversions, (468) lined waterway and outlet, and (410) grade stabilization structure. NRCS Standards will be followed for all practices listed above.

These projects will reduce the phosphorus loading by at least 50 pounds per year and sediment loading by at least 50 tons per year.

The landowner is responsible for soliciting bids for the project and for hiring a contractor. In some cases, the landowner signs a document that allows the Chisago SWCD to solicit bids on the landowners' behalf. When bids are received, the Chisago SWCD reviews them to ensure that the costs are reasonable and within the budget allotted for the project. The SWCD has a list of contractors that we have worked with on prior projects that the landowner can use if they choose. The landowner is also free to solicit bids from companies not on the list. Once the SWCD has approved bids as being acceptable and within the budget limits (or the landowner has agreed to pay any costs above and beyond the SWCD's project), the landowner makes the final decision on which bid to accept.

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	2019 St. Croix River Escarpment Gully Stabilization	\$70,000.00	\$65,944.00	\$4,056.00	10/11/2022	N
Federal Funds	Landowner - Federal Funds	\$11,000.00	\$34,966.40	(\$23,966.40)	01/11/2022	Y
Landowner Fund	Landowner Fund	\$11,500.00		\$11,500.00		Y
Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$0.00	\$1,202.16	(\$1,202.16)	09/15/2022	N

Actual Results

As of December 31, 2019

Kevin Rochel Home and Gerald Olson's projects were installed.

As of Jan. 1, 2022

Jason Quist and Mallery Jersey's projects were completed in the fall and certified by NRCS engineering staff.

As of October 21, 2022

Allen Peltier's erosion project finalized this grant.

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	716.51	Lbs/Yr
Soil (Est. Savings)	2344.9	Tons/Yr
Sediment (Tss)	712.66	Tons/Yr

Activity Action Name:	Kevin Rochel Home WASCObS	Activity Count: 3
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 1467 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Grassed berms less than 4' tall	Install Date: 07/09/2019
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	38.25	Bwsr Calc (Gully Stabilization)	St.Croix River
Sediment (Tss)	Tons/Yr	38.25	Bwsr Calc (Gully Stabilization)	St.CRoix River
Phosphorus (Est. Reduction)	Lbs/Yr	38.25	Bwsr Calc (Gully Stabilization)	St.Croix River
Soil (Est. Savings)	Tons/Yr	1.4	Rusle2 (Updated)	St.Croix River

Activity Action Name:	Kevin Rochel (Gerald Olson)	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 300 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	WASCOB 165' grassed 4-6' tall, 135' farmed	Install Date: 07/09/2019
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	8.5	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	8.5	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	Tons/Yr	1.4	Rusle2 (Updated)	St. Croix River
Soil (Est. Savings)	Tons/Yr	8.5	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	Mallery Jerseys	Activity Count: 1
Practice Type:	410 - Grade Stabilization Structure	Size/Units: 1 - Count
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Embankment Dam- drainage area 70-100acres	Install Date: 12/14/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	382.5	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	110.73	Bwsr Calc (Gully Stabilization)	St. Croix River
Sediment (Tss)	Tons/Yr	110.73	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	Jason Quist N. WASCOB	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 308 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Berm less than 4' tall, grassed	Install Date: 12/13/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	1843.01	Bwsr Calc (Gully Stabilization)	St. Croix River
Sediment (Tss)	Tons/Yr	533.53	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	533.53	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	Allen Peltier	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 226 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	WASCOB to control field erosion	Install Date: 09/15/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0.68	Bwsr Calc (Gully Stabilization)	St.Croix River
Soil (Est. Savings)	Tons/Yr	1.33	Bwsr Calc (Sheet And Rill)	St.Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	3.4	Bwsr Calc (Gully Stabilization)	St.Croix River
Sediment (Tss)	Tons/Yr	1.33	Bwsr Calc (Sheet And Rill)	St.Croix River
Sediment (Tss)	Tons/Yr	0.68	Bwsr Calc (Gully Stabilization)	St.Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	2.46	Bwsr Calc (Sheet And Rill)	St.Croix River

Activity Action Name: Jason Quist S. WASCOB	Activity Count: 1
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 246 - Linear Feet
TA Provider/JAA: NRCS	Lifespan: 10 Years
Practice Description: Berm between 6' and 8' tall, grassed	Install Date: 12/13/2021
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	19.64	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	Tons/Yr	67.83	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	19.64	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Name: Construction

Activity Category: Agricultural Practices

Staff time?: No

Description: Cost share funds for project implementation, including construction and materials. A Stormwater Retrofit Assessment will help to identify the best locations for stormwater projects, including, but not limited to gully stabilizations, waterways, WASCObS, diversions and other non-structural practices to reduce erosion. The minimum of 20 conservation projects implemented with this grant will reduce the total phosphorus loading by 140 pounds per year and sediment loading by 140 tons per year to the St. Croix River and Lake St. Croix. Landowners who implement projects on their property will agree to and sign an operation and maintenance plan which tells them how best to care for the project for its effective life.

The landowner is responsible for soliciting bids for the project and for hiring a contractor. In some cases, the landowner signs a document that allows the Chisago SWCD to solicit bids on the landowners' behalf. When bids are received, the Chisago SWCD reviews them to ensure that the costs are reasonable and within the budget allotted for the project. The SWCD has a list of contractors that we have worked with on prior projects that the landowner can use if they choose. The landowner is also free to solicit bids from companies not on the list. Once the SWCD has approved bids as being acceptable and within the budget limits or the landowner has agreed to pay any costs above and beyond the SWCD's project, the landowner makes the final decision on which bid to accept.

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	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$140,000.00	\$138,425.29	\$1,574.71	12/14/2023	N
Landowner Fund	Landowner Match	\$62,000.00	\$88,425.21	(\$26,425.21)	12/14/2023	Y

Actual Results

As of Jan 1, 2022

Five projects were installed to control erosion going into the St. Croix watershed. Mattson, Sontag, Ewert, Olson and Hawkinson.

As on Sept. 13, 2022

Gloria Borck's erosion control project was installed in August.

As of July 11, 2023 The Boucher and Waletzko projects were installed

Two more gully stabilization projects were installed in fall 2023.

Final Indicators		
Indicator	Total Value	Unit
Sediment (Tss)	281.29	Tons/Yr
Soil (Est. Savings)	889.19	Tons/Yr
Phosphorus (Est. Reduction)	571.4	Lbs/Yr
Total Suspended Solids (TSS)	246.3	Mg/L

Activity Action Name: DDstC 21-01 Joe Mattson	Activity Count: 1
Practice Type: 412 - Grassed Waterway and Swales	Size/Units: 1200 - Linear Feet
TA Provider/JAA: NRCS	Lifespan: 10 Years
Practice Description: Grassed waterway with checks	Install Date: 05/14/2021
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	1.7	Bwsr Calc (Gully Stabilization)	St.Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	1.7	Bwsr Calc (Gully Stabilization)	St.Croix River

Activity Action Name: DDstC 21-02 Steve & Lisa Sontag	Activity Count: 2
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 381 - Linear Feet
TA Provider/JAA: NRCS	Lifespan: 10 Years
Practice Description: Berm less than 4ft tall, farmed and berm more than 4ft tall, grassed	Install Date: 05/28/2021
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	4.3	Bwsr Calc (Gully Stabilization)	St.Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	4.3	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	DDstC 21-05 Carol Hawkinson	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 120 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Berm less than 4ft tall, farmed	Install Date: 05/21/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	0.5	Bwsr Calc (Gully Stabilization)	St.Croix River
Sediment (Tss)	Tons/Yr	0.5	Bwsr Calc (Gully Stabilization)	St.Coix River

Activity Action Name:	DDstC 21-04 Greg Olson	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 439 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Berm less than 4ft tall, grassed	Install Date: 05/27/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	77.08	Bwsr Calc (Gully Stabilization)	St.Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	71.31	Bwsr Calc (Gully Stabilization)	St.Croix River
Soil (Est. Savings)	Tons/Yr	205	Bwsr Calc (Gully Stabilization)	St.Croix River

Activity Action Name:	DDstC 21-07 Gloria Borck	Activity Count: 1
Practice Type:	468 - Lined Waterway or Outlet	Size/Units: 626 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Lined waterway to control water flow through field and prevent erosion	Install Date: 08/17/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	3.9	Rusle2 (Updated)	St. Croix River

Activity Action Name:	DDstC 21-03 Beth Ewert	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 79 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Grassed waterway off the south edge of field to control erosion	Install Date: 10/14/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.11	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	0.13	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	Tons/Yr	0.65	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	DDstC 21-08 Carol Hawkinson	Activity Count: 3
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 746 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Three WASCObS installed to control cropland drainage and stabilize erosion of historic gullies.	Install Date: 11/07/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	110.71	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	127.32	Bwsr Calc (Gully Stabilization)	St. Croix River
Sediment (Tss)	Tons/Yr	5.5	Rusle2 (Updated)	St. Croix River
Soil (Est. Savings)	Tons/Yr	314.58	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	DDStC 21-09 Mark Waletzko	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 599 - Count
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Two WASCObS and supporting practices installed	Install Date: 06/01/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	81.7	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	32.4	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	DDStC 21-10 John Boucher	Activity Count: 1
Practice Type:	350 - Sediment Basin	Size/Units: 283 - Count
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Diversion installed with supporting practices	Install Date: 06/01/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Total Suspended Solids (TSS)	Mg/L	246.3	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	246.3	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	DDStC 21-11 Casey McCormick	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 1 - Count
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	WASCOB and supporting practices installed to stabilize gully erosion.	Install Date: 11/30/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	41.14	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	Tons/Yr	41.14	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	41.14	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name:	DDStC 21-03 Beth Ewert	Activity Count: 3
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 535 - Linear Feet
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Two berms 4-6' grassed, the other 6-8' grassed	Install Date: 10/14/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	46.3	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	Tons/Yr	242.22	Bwsr Calc (Gully Stabilization)	St. Coix River
Sediment (Tss)	Tons/Yr	40.25	Bwsr Calc (Gully Stabilization)	St.Croix River

Activity Name: DDStC 23-01 Tim Devick

Activity Category: Agricultural Practices

Staff time?: No

Description: WASCOB and supporting practices implemented to reduce gully erosion contributing to Lower St. Croix Watershed via Direct Drainage subwatershed.

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>
Landowner Fund	Match	\$7,004.50	\$7,004.50	\$0.00	01/09/2024	Y
Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry Creek, and Direct Drainage to the St. Croix River	\$10,000.00	\$10,000.00	\$0.00	01/09/2024	N
Current State Grant	2023 Priority BMP Implementation Targeting Lawrence Creek, Dry Creek, and Direct Drainage to the St. Croix River Phase II	\$9,635.50	\$9,635.50	\$0.00	01/09/2024	N

Actual Results

Project was installed in the fall of 2023 to stabilize a historic gully created by cropland erosion.

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Sediment (Tss)	215.44	Tons/Yr
Soil (Est. Savings)	1255.03	Tons/Yr
Phosphorus (Est. Reduction)	215.44	Lbs/Yr

Activity Action Name: DDstC 23-01 Tim Devick	Activity Count: 1
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 1 - Count
TA Provider/JAA: NRCS	Lifespan: 10 Years
Practice Description: WASCOB and supporting practices installed to stabilize and reduce gully erosion.	Install Date: 12/20/2023
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	215.44	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	Lbs/Yr	215.44	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	Tons/Yr	1255.03	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Name: Education/Outreach

Activity Category: Education/Information

Staff time?: No

Description: The Chisago SWCD hosts local farmer meetings and events, tours of best management practices, and puts on demonstrations about pertinent topics, such as soil health. As part of this grant, the Chisago SWCD will host one such event. The goal of the event will be to engage the local farmers and landowners, to educate participants on the project(s) and why they are needed, and to answer questions that participants may have.

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>
Local Fund	Local Match	\$500.00		\$500.00		Y
Actual Results						

Activity Name: Engineering/Technical Assistance

Activity Category: Technical/Engineering Assistance **Staff time?:** Yes

Description: Staff time for plan development and drafting, surveying, construction meetings, and certification/check-out of projects. Technical and engineering staff will complete designs and check out for practices they have appropriate Job Approval Authority. For a complete list of JAA, contact the SWCD.
 The primary local technical and engineering assistance support will be provided by Chisago SWCD staff Shane Hultman and Mary Jo Youngbauer, and USDA NRCS SCT Jason Rehn. Engineering and project certification will be provided by PE Rebecca Nestingen (Washington CD) and NRCS Engineer Technician Marvin Kunkel.

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	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$80,000.00	\$78,600.55	\$1,399.45	12/28/2023	N

Actual Results

As of April 1st, 2021

Technical assistance working on project designs for spring install.

As of July 1, 2021

Technical assistance and engineering onsite for project installs

As of Jan 1, 2022

Technical assistance and engineering onsite for site visits, project installs, completing as-builts, surveying and design work for future projects

As of April 4, 2022

Technical assistance meeting with landowners, reviewing designs for approval to move forward with contract

As of July 12, 2022

Technical assistance meeting with landowners, reviewing designs for approval to move forward with contract. Working with contractors on the bidding process.

As of Jan. 1, 2023

Technical assistance checking projects during construction, surveying and completing project follow up with landowners. Two projects were installed this fall. Three more slated for 2023.

As of April 6, 2023

Technical assistance spent on conservation planning for erosion projects to be installed in 2023.

As of July 11, 2023 Technical assistance spent on conservation planning, site visits and engineering assistance

As of December 28th, 2023 Technical staff time was spent managing projects, conducting site visits, coordinating with contractors and working with NRCS engineering staff on project closeout.