



Grant Progress Report

Projects and Practices Drinking Water 2021

Grant Title: Watonwan Watershed Drinking Water Protection

Grant Award (\$): \$54,900.00

Grant Execution Date: 03/25/2021

Grant ID: C21-8921

Required Match (%): 25

Grant End Date: 12/31/2023

Grantee: Greater Blue Earth River Basin Alliance

Required Match (\$): \$13,725.00

Fiscal Agent:

Grant Day-to-Day Contact: Kay Gross

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$54,900.00	\$54,900.00	\$0.00
Match Funds	\$15,638.11	\$21,582.96	(\$5,944.85)
Other Funds	\$0.00	\$0.00	\$0.00
Total	\$70,538.11	\$76,482.96	(\$5,944.85)

*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?
Administration and Coordination	Administration/Coordination	Current State Grant	Watonwan Watershed Drinking Water Protection	\$9,150.00	\$10,807.50	(\$1,657.50)	N
Outreach/Education	Education/Information	Current State Grant	Watonwan Watershed Drinking Water Protection	\$1,597.75	\$1,117.75	\$480.00	N
Urban Tree Planting	Forestry Practices	Current State Grant	Watonwan Watershed Drinking Water	\$29,030.82	\$29,780.82	(\$750.00)	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>
Cost-Share			Protection				
Urban Tree Planting Cost-Share	Forestry Practices	Landowner Fund	Urban Tree planting landowner match	\$7,763.01	\$14,744.98	(\$6,981.97)	Y
Well Sealing	Groundwater	Current State Grant	Watowwan Watershed Drinking Water Protection	\$1,952.00	\$1,202.00	\$750.00	N
Well Sealing	Groundwater	Landowner Fund	Landowner cash match - well sealing	\$1,051.08	\$648.00	\$403.08	Y
Cover Crop Cost-Share	Non-Structural Management Practices	Current State Grant	Watowwan Watershed Drinking Water Protection	\$12,000.00	\$10,822.50	\$1,177.50	N
Cover Crop Cost-Share	Non-Structural Management Practices	Landowner Fund	Cover crop cash match	\$6,461.54	\$5,827.50	\$634.04	Y
Urban Stormwater Practices	Urban Stormwater Management Practices	Current State Grant	Watowwan Watershed Drinking Water Protection	\$1,169.43	\$1,169.43	\$0.00	N
Urban Stormwater Practices	Urban Stormwater Management Practices	Landowner Fund	Urban Stormwater practices landowner match	\$362.48	\$362.48	\$0.00	Y

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	150	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	310	Lbs/Yr
Water Pollution (Reduction Estimates)	Nitrogen	1870	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	150	Tons/Yr
Pollution Prevention	Prevention	10	Count

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Nitrogen	0.7576	Lbs/Yr
Water Pollution (Reduction Estimates)	Nutrients (Nitrate)	2.6	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	0.5764	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.179	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	0.007	Tons/Yr
Water Pollution (Reduction Estimates)	Total Suspended Solids (TSS)	0.76	Mg/L
Pollution Prevention	Prevention	2	Count
Water Pollution (Reduction Estimates)	Nitrogen	990	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	1.49	Lbs/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.55	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	7.5	Tons/Yr
Stormwater Management	Volume Reduced (Acre- Feet/Year)	0.0788	Acre-Feet/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	0.063	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.0057	Tons/Yr

Grant Activities

Activity Name: Administration and Coordination

Activity Category: Administration/Coordination **Staff time?:** Yes

Description: Administration and Coordination of this project will be provided by the GBERBA Coordinators (Administrative, Technical and Financial). Administrative Coordinator will administer the FY21 CWF Grant with duties to include E-link reporting, website updating, and reporting documents as required by BWSR. Financial reporting will be completed by the Financial Coordinator using QuickBooks. Technical Coordinator will oversee the pollution reduction estimates needed for associated projects grant policy by which projects will be targeted and prioritized for funding. GBERBA staff are contracted employees and will be paid by their calculated billable hourly rates. Grant policies will be created for each project category.

Work Plan revision 2/15/2023: No change to this activity category.

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	Watowwan Watershed Drinking Water Protection	\$9,150.00	\$10,807.50	(\$1,657.50)	11/30/2023	N

APRIL - DECEMBER 2021:

Administration of grant workplan and encumbered contracts by GBERBA staff.

Employee wages based on billable hourly rate.

GBERBA Admin Coordinator: 33 hrs @ \$80.08/hr = \$2,642.64

GBERBA Tech Coordinator: 62.50 hrs @ \$65.60/hr = \$4,100.00

GBERBA Financial Coordinator: 9 hrs @ \$51.52/hr = \$463.68

TOTAL: \$7,206.32

JANUARY - AUGUST 2022:

Administration of grant provided. Employee wages based on billable hourly rate.

GBERBA Admin Coord: 3 hrs @ \$72.77/hr = \$218.31

GBERBA Results
GBERBA Admin Coord: 1 hr @ \$74.71/hr = \$74.71

GBERBA Tech Coord: 23 hrs @ \$58.95/hr = \$1,355.85

GBERBA Tech Coord: 2 hrs @ \$60.032/hr = \$120.64

Total: \$1,769.51

Grant expenditures: \$1,769.51

SEPTEMBER - DECEMBER 2022:

No funds expended.

JANUARY - AUGUST 2023: No funds expended

SEPTEMBER-OCTOBER 2023:

Administration of grant provided. Funds were moved from Non-Structural Land Management activity, well sealing, and Education/Outreach activity categories to Administration/Coordination.

Total funds moved: \$1,657.50

GBERBA Financial Coordinator: 8 hrs @ \$51.48/hr = \$411.84

GBERBA Admin Coord: 15 hrs @ \$75.81/hr = \$1,137.15

GBERBA Tech Coord: 5 hrs @ \$58.51/hr = \$292.55

Grant Expenditures: \$1,831.67

Grant Match (unaccounted in eLink): \$9.87

Total: \$1,841.54

NOVEMBER - DECEMBER 2023: No funds expended

Activity Name: Cover Crop Cost-Share

Activity Category: Non-Structural Management Practices

Staff time?: No

Description: Funds will be used to cost-share 123 acres of cover crops located with the project's planned areas (Comfrey, Darfur, La Salle, Madelia, Mankato, Mountain Lake, St. James, Truman, Windom, and Red Rock Rural Water fields located within the Watonwan Watershed) in highly or very highly vulnerable areas of the DWSMAs.

Cover crop contracts will be for 3 years with a cost-share rate of 65% not to exceed \$32.50/acre. Installation of the cover crops will follow NRCS Field Office Technical Guidance standard 340. Individual contracts will be run through the respective county's SWCD that the land is located in and approved by their SWCD board, the GBERBA Technical Committee, and finally the GBERBA Policy/Executive Board.

Technical approval authority for the cover crop practice will be through the individual office's staff where the contract originates from with appropriate JAA. Staff credentials or JAA can be viewed at their respective offices.

GRANT FUNDS BUDGETED: \$12,000.00

MATCH FUNDS BUDGETED: \$6,461.54

TOTAL: \$18,461.54

Work Plan revision 2/15/2023: No change requested in this activity line.

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	Cover crop cash match	\$6,461.54	\$5,827.50	\$634.04	12/15/2023	Y
Current State Grant	Watonwan Watershed Drinking Water Protection	\$12,000.00	\$10,822.50	\$1,177.50	12/15/2023	N

Actual Results

APRIL - DECEMBER 2021:

One landowner contract for 150 acres of cover crops (NRCS practice standard 340) encumbered for a 3 year contract (CWF-WWDW-21-07-01) located in Vernon Center Township, Blue Earth County. Cover crops will be paid out 65% of the total cost each year after planting verification is completed.

Total estimated cost (3 years): \$18,500.00

Cost-share encumbered (3 years): \$12,000.00

JANUARY - DECEMBER 2022:

Landowner completed first year of planting September 2021, cost-share paid out January 2022. 2nd year of planting completed August 2022, cost-share paid out November 2022.

January 2022:

1st year cost: \$4,950.00

1st year partial CS payment: \$3,217.50

1st year landowner match: \$1,732.50

November 2022:

2nd year cost: \$6,075.00

2nd year partial CS payment: \$3,948.75

2nd year landowner match: \$2,126.25

JANUARY - DECEMBER 2023:

Final payment for cover crop contract.

Cost: \$5,625.00

Final C-S payment: \$3,656.25

Landowner match: \$1,968.75

Remaining funds moved under grantee's discretion to admin/coordination activity: \$1,177.50

Final Indicators		
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Nitrogen	990	Lbs/Yr
Sediment (Tss)	0.55	Tons/Yr
Soil (Est. Savings)	7.5	Tons/Yr
Phosphorus (Est. Reduction)	1.49	Lbs/Yr

Activity Action Name: CWF-WWDW-21-07-01 Cover Crops	Activity Count: 1
Practice Type: 340 - Cover Crop	Size/Units: 150 - Acres
TA Provider/JAA: SWCD	Lifespan: 3 Years
Practice Description: Landowner will receive an annual cost-share payment for 3 years (percent based contract) for 150 acres each year for cover crops implemented	Install Date: 09/01/2021
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	7.5	Bwsr Calc (Sheet And Rill)	Watowan
Nitrogen	Lbs/Yr	990	Other	Watowan
Sediment (Tss)	Tons/Yr	0.55	Bwsr Calc (Sheet And Rill)	Watowan
Phosphorus (Est. Reduction)	Lbs/Yr	1.49	Bwsr Calc (Sheet And Rill)	Watowan

Activity Name: Other Urban Stormwater Practices

Activity Category: Urban Stormwater Management Practices

Staff time?: No

Description: As every DWSMA or Wellhead Protection Plan is different based on the needs of the community and other underlying factors such as vulnerability, landscape, hydrology, etc. there are often other urban stormwater practices listed within those plans. We acknowledge that these practices could extend beyond sod conversion to natives or tree plantings activities we have outlined. Such practices could include, but are not limited to: storm water retention basins, sediment basins, grade stabilization structure, etc as allowed under eLink practices for Urban Stormwater Management Practices.

Individual contracts will be run through the respective county's SWCD that the land is located in and approved by their SWCD board, the GBERBA Technical Committee, and finally the GBERBA Policy/Executive Board.

Technical approval authority for the other urban practice will be through the individual office's staff where the contract originates from with appropriate JAA. Staff credentials or JAA can be viewed at their respective offices.

GRANT FUNDS: \$5,000.00

MATCH FUNDS: \$882.35

TOTAL: \$5,882.35

Actual Results

Activity Name: Outreach/Education

Activity Category: Education/Information

Staff time?: No

Description: An intense education/information effort will be made throughout the project area. Our focus will be on Drinking Water Awareness and feature the following: - 10 Drinking Water Promotional Signs \$500 - 50 Drinking Water Protection Public Service Announcements (multi-media venues) - \$1,000 -10 Drinking Water public education events - \$500 includes written materials.

TOTAL GRANT DOLLARS: \$2,000.00

Work Plan Revision 2/15/2023 BC approved: Overall reduction of \$402.25 from Education/Outreach budget activity line. Promotional signage (\$343.75 spent) and Public Service Announcements (\$504.00 spent) required less funds than anticipated. Increased the Drinking Water Event from \$500 to \$750 total. Remainder from original \$2000 moved to Urban Tree Planting activity budget item.

Amended total grant funds (spent and will spend): \$1,597.75.

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	Watowan Watershed Drinking Water Protection	\$1,597.75	\$1,117.75	\$480.00	12/15/2023	N

Actual Results

APRIL - DECEMBER 2021:

No activity associated with this activity line.

JANUARY - DECEMBER 2022:

46 - 60 Second Spots 4/8/2022 through 4/30/2022

\$504.00

25 - 12X18 Drinking Water Protection Area Signs that were put up in Mt Lake, Windom & Watonwan County

\$343.75

TOTALS DISPERSED FROM THIS GRANT IN 2022: \$847.75

JANUARY - DECEMBER 2023:

Well water testing ad in the local newspapers.

TOTAL: \$270.00

Remaining funds moved to admin/coordination under grantee's discretion as allowed by GAM: \$480.00

Activity Name: Urban Cost-Share Projects

Activity Category: Urban Stormwater Management Practices

Staff time?: No

Description: Funds will be used to cost-share a variety of urban projects to protect groundwater with two main focuses of urban tree plantings and conversion of turf sod to native grasses and wildflowers. We acknowledge that every DWMSA is unique and has different protection strategies and could incorporate other urban projects besides tree plantings and native conversions, therefore we are allowing for this flexibility in our workplan.

The eligible project work areas include the highly or very highly vulnerable areas of the following DWMSAs: Comfrey, Darfur, La Salle, Madelia, Mankato, Mountain Lake, St. James, Truman, Windom, and Red Rock Rural Water fields located within the Watonwan Watershed.

Urban turf grass native conversion contracts will be for 10 year life expectancy with a cost-share rate of 85% not to exceed \$255/acre. Installation of the native grasses will follow NRCS Field Office Technical Guidance standard for 327 Conservation Cover.

Urban tree planting projects will be cost-shared at a rate of 85% not to exceed \$85 per tree. Installation of the urban tree plantings will follow NRCS Field Office Technical Guidance standard 612 (Tree and Shrub Establishment) or be a professionally accepted ecological practice.

Individual contracts will be run through the respective county's SWCD that the land is located in and approved by their SWCD board, the GBERBA Technical Committee, and finally the GBERBA Policy/Executive Board.

Technical approval authority any practice will be through the individual office's staff where the contract originates from with appropriate JAA. Staff credentials or JAA can be viewed at their respective offices.

GRANT FUNDS: \$23,800.00

MATCH FUNDS: \$4,200.00

TOTAL: \$28,000.00

Actual Results

Activity Name: Urban Native Plantings Cost Share

Activity Category: Urban Stormwater Management Practices

Staff time?: No

Description: Funds will be used to cost-share converting turf sod to native grasses and wildflowers.

The eligible project work areas include the highly or very highly vulnerable areas of the following DWSMAs: Comfrey, Darfur, La Salle, Madelia, Mankato, Mountain Lake, St. James, Truman, Windom, and Red Rock Rural Water fields located within the Watonwan Watershed.

Urban turf grass native conversion contracts will be for 10 year life expectancy with a cost-share rate of 85% not to exceed \$255/acre. Installation of the native grasses will follow NRCS Field Office Technical Guidance standard for 327 Conservation Cover.

Individual contracts will be run through the respective county's SWCD that the land is located in and approved by their SWCD board, the GBERBA Technical Committee, and finally the GBERBA Policy/Executive Board.

Technical approval authority any practice will be through the individual office's staff where the contract originates from with appropriate JAA. Staff credentials or JAA can be viewed at their respective offices.

GRANT FUNDS: \$2,550.00

MATCH FUNDS: \$450.00

TOTAL: \$3,000.00

Actual Results

Activity Name: Urban Stormwater Practices

Activity Category: Urban Stormwater Management Practices

Staff time?: No

Description: Funds will be used to cost-share converting turf sod to native grasses and wildflowers.

The eligible project work areas include the highly or very highly vulnerable areas of the following DWSMAs: Comfrey, Darfur, La Salle, Madelia, Mankato, Mountain Lake, St. James, Truman, Windom, and Red Rock Rural Water fields located within the Watonwan Watershed.

Urban turf grass native conversion contracts will be for 10 year life expectancy with a cost-share rate of 85% not to exceed \$255/acre. Installation of the native grasses will follow NRCS Field Office Technical Guidance standard for 327 Conservation Cover.

As every DWSMA or Wellhead Protection Plan is different based on the needs of the community and other underlying factors such as vulnerability, landscape, hydrology, etc. there are often other urban stormwater practices listed within those plans. We acknowledge that these practices could extend beyond sod conversion to natives or tree plantings activities we have outlined. Such practices could include, but are not limited to: storm water retention basins, sediment basins, grade stabilization structure, etc as allowed under eLink practices for Urban Stormwater Management Practices.

Individual contracts will be run through the respective county's SWCD that the land is located in and approved by their SWCD board, the GBERBA Technical Committee, and finally the GBERBA Policy/Executive Board.

TAA for the other urban practice will be through the individual office's staff where the contract originates from with appropriate JAA. Staff credentials or JAA can be viewed at their respective offices.

GRANT FUNDS: \$7,550.00

MATCH FUNDS: \$1,332.35

TOTAL: \$8,882.35

Work Plan Amendment 2/15/2023 BC Approved: Reduction of original grant funds from \$7,550.00 to \$1,169.43, a difference of \$6,380.57 that will be moved to the Urban Tree Planting activity budget item.

Revised Grant funds: \$1,169.43

Revised Match funds: \$362.48

Total: \$1,531.91

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	Urban Stormwater practices landowner match	\$362.48	\$362.48	\$0.00	01/13/2023	Y
Current State Grant	Watowan Watershed Drinking Water Protection	\$1,169.43	\$1,169.43	\$0.00	01/13/2023	N
Actual Results						
APRIL - DECEMBER 2021: No activity associated with this activity item.						
JANUARY - DECEMBER 2022: 1 contract encumbered.						
CWF-WWDW-21-17-03, Rain Garden Est. cost: \$1,375.80 CS Encumbered: \$1,169.43						
JANUARY 2023 1 contract paid out. CWF-WWDW-21-17-03, Rain Garden Total cost: \$1,531.91 CS paid: \$1,169.43 Landowner match: \$362.48						
Final Indicators						
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>				
Phosphorus (Est. Reduction)	0.063	Lbs/Yr				
Sediment (Tss)	0.0057	Tons/Yr				
Volume Reduced (Acre-Feet/Year)	0.0788	Acre-Feet/Yr				

Activity Action Name: CWF-WWDW-21-17-03				Activity Count: 1
Practice Type: 712M - Bioretention Basin				Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA: TSA				Lifespan: 10 Years
Practice Description: Rain garden/bioretention basin installed				Install Date: 06/04/2022
				Mapped: Yes
Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.0057	MIDS	Watonwan
Phosphorus (Est. Reduction)	Lbs/Yr	0.063	MIDS	Watonwan
Volume Reduced (Acre-Feet/Year)	Acre-Feet/Yr	0.0788	MIDS	Watonwan

Activity Name: Urban Tree Planting Cost-Share

Activity Category: Forestry Practices

Staff time?: No

Description: Funds will be used to cost-share urban tree plantings to protect groundwater.

The eligible project work areas include the highly or very highly vulnerable areas of the following DWSMAs: Comfrey, Darfur, La Salle, Madelia, Mankato, Mountain Lake, St. James, Truman, Windom, and Red Rock Rural Water fields located within the Watonwan Watershed.

Urban tree planting projects will be cost-shared at a rate of 85% not to exceed \$85 per tree. Installation of the urban tree plantings will follow NRCS Field Office Technical Guidance standard 612 (Tree and Shrub Establishment) or be a professionally accepted ecological practice. Minimum lifespan according to NRCS will be 15 years.

Individual contracts will be run through the respective county's SWCD that the land is located in and approved by their SWCD board, the GBERBA Technical Committee, and

finally the GBERBA Policy/Executive Board.

Technical approval authority any practice will be through the individual office's staff where the contract originates from with appropriate JAA. Staff credentials or JAA can be viewed at their respective offices.

GRANT FUNDS: \$16,700.00

MATCH FUNDS: \$2,947.06

TOTAL: \$19,647.06

Workplan revision 2/15/2023 BC approved: Increase cost-share funds \$12,330.82 from \$16,700.00 to \$29,030.82 total. Funds moved from Groundwater Practices, Education/Outreach, and Urban Stormwater projects.

Revised grant funds: \$29,030.82

Revised match funds: \$7,763.01

Revised total: \$36,793.83

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	Watowwan Watershed Drinking Water Protection	\$29,030.82	\$29,780.82	(\$750.00)	08/18/2023	N
Landowner Fund	Urban Tree planting landowner match	\$7,763.01	\$14,744.98	(\$6,981.97)	08/18/2023	Y

APRIL - DECEMBER 2021:

Urban tree planting project approved in the City of Mountain Lake (CWF-WWDW-21-17-01) for ground water protection. 106 tall shade tree species including maples, elms, honey locust, hackberry, oak, larch, serviceberry were planted at the cemetery.

Total project cost: \$10,600.00

Cost share funds expended \$9,010.00

Landowner cash match: \$1,590.00

Actual Results tree planting cost-share contract encumbered for the City of Windom (Windom WHPA, CWF-WWDW-21-17-02).

Estimated project cost: \$5,900.00

Cost-share encumbered: \$5,000.00

JANUARY - DECEMBER 2022:

CWF-WWDW-21-17-02 finalized and cost-share paid out. 60 tall trees planted: American Elm, Locust, Maple, Coffee Tree, Bur Oak, American Linden.

Total project cost: \$6,000.00

Cost-Share expended: \$5,000.00

Match: \$1,000.00

CWF-WWDW-21-17-04, Tree planting

Cost Est: \$7,000.00

CS Encumbered: \$5,000.00

JANUARY - DECEMBER 2023

4 contracts paid out:

CWF-WWDW-21-17-06 Tree Planting

Total Project cost: \$6,070.00

Cost Share expended: \$5,000.00

Landowner cash match: \$1,070.00

Additional in-kind match services performed by the Cities of Mountain Lake and Windom for the urban tree plantings completed.

CWF-WWDW-21-17-05 Tree Planting

Total Project cost: \$6,160.00

CS expended: \$5,020.00

Landowner cash match: \$1,140.00

CWF-WWDW-21-17-04 Tree Planting

Total Project cost: \$6,002.80

CS expended: \$5,000.00

Landowner cash match: \$1,002.80

CWF-WWDW-21-17-07 City of Mountain Lake

Total project cost: \$900.00

CS expended: \$750.82

Landowner cash match: \$149.18

CWF-WWDW-21-17-01 City of Mountain Lake

Urban tree planting watering completed by city staff as in-kind match services performed with Fire Truck Pumper.

Staff time: 4 hrs x 2 staff x 3 days = 24 hrs @ \$20.00/hr = \$900.00

Pumper truck time: 4 hrs x 3 days = 12 hrs @ \$75.00/hr = \$900.00

Water cost: 800 gallons/watering x 3 watering events = 2,400 gallons @ \$20.00/1000 gallons = \$48.00

Total in kind match: \$1,428.00

CWF-WWDW-21-17-02 City of Windom

Urban tree planting city staff in kind match for digging holes and watering trees.

Planting - hole digging based on Iowa Farm Custom Rate Survey

\$4.00/hole x 60 holes = \$240.00

Staff time for watering trees:

4 hrs x 2 staff x 19 days = 152 hrs @ \$20.00/hr = \$3,040.00

Pumper truck hours for watering trees:

4 hrs x 19 days = 76 hrs @ \$50.00/hr = \$3,800.00

Water cost: 750 gallons/watering days x 19 days = 14,250 gallons @ \$20.00/1,000 gallons = \$285.00

Total In Kind Match: \$7,365.00

Additional funds moved from well sealing, education/outreach, and NSLMP CS as allowed by GAM under grantee discretion.

Total funds moved: \$750.00

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Soil (Est. Savings)	0.007	Tons/Yr
Total Suspended Solids (TSS)	0.76	Mg/L
Sediment (Tss)	0.179	Tons/Yr
Nutrients (Nitrate)	2.6	Lbs/Yr
Phosphorus (Est. Reduction)	0.5764	Lbs/Yr
Nitrogen	0.7576	Lbs/Yr

Activity Action Name: CWF WWDW 21-17-01	Activity Count: 1
Practice Type: 612 - Tree/Shrub Establishment	Size/Units: 2 - Acres
TA Provider/JAA: SWCD	Lifespan: 15 Years
Practice Description: 106 shade trees planted for ground water protection in high vulnerable area of Mountain Lake well head.	Install Date: 05/20/2021
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Total Suspended Solids (TSS)	Mg/L	0.76	Other	Upper Watonwan River
Phosphorus (Est. Reduction)	Lbs/Yr	0.0014	Other	Upper Watonwan River
Nitrogen	Lbs/Yr	0.0076	Other	Upper Watonwan River

Activity Action Name:	CWF-WWDW-21-17-02	Activity Count: 1
Practice Type:	612 - Tree/Shrub Establishment	Size/Units: 2000 - Cfu
TA Provider/JAA:	SWCD	Lifespan: 15 Years
Practice Description:	Proposed tree planting located in the highly vulnerable portion of the Windom WHPA.	Install Date: 08/25/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0.007	Other	Watowan
Nitrogen	Lbs/Yr	0.14	Other	Watowan
Phosphorus (Est. Reduction)	Lbs/Yr	0.025	Other	Watowan

Activity Action Name:	CWF-WWDW-21-17-06	Activity Count: 1
Practice Type:	612 - Tree/Shrub Establishment	Size/Units: 12 - Acres
TA Provider/JAA:	SWCD	Lifespan: 15 Years
Practice Description:	46 Tall trees: 6 Elm, 2 Lilac tree, 4 Linden, 5 Fire Maple, 12 Bur Oak, 2 Kindred Spirit Oak, 15 Discovery Elm 200 small trees and shrubs: 25 Hackberry, 50 Silver Maple, 50 Bur Oak, 75 assorted shrubs Planted in Great Bend township, section 25, Cottonwood county	Install Date: 05/24/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.0525	Other	Cottonwood Lake
Nitrogen	Lbs/Yr	0.61	Other	Cottonwood Lake
Phosphorus (Est. Reduction)	Lbs/Yr	0.1	Other	Cottonwood Lake

Activity Action Name:	CWF-WWDW-21-17-04	Activity Count: 1
Practice Type:	612 - Tree/Shrub Establishment	Size/Units: 4 - Acres
TA Provider/JAA:	SWCD	Lifespan: 15 Years
Practice Description:	89 trees and shrubs planted in City of Mountain Lake at Mountain Lake Park and Cemetary.	Install Date: 05/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	0.22	Other	Mountain Lake Lake
Sediment (Tss)	Tons/Yr	0.0615	Other	Mountain Lake Lake
Nutrients (Nitrate)	Lbs/Yr	1.3	Other	Mountain Lake Lake

Activity Action Name:	CWF-WWDW-21-17-05	Activity Count: 1
Practice Type:	612 - Tree/Shrub Establishment	Size/Units: 3 - Acres
TA Provider/JAA:	SWCD	Lifespan: 15 Years
Practice Description:	56 tall trees planted in Midway township, section 32, Cottonwood County	Install Date: 05/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.065	Other	Mountain Lake Lake
Nutrients (Nitrate)	Lbs/Yr	1.3	Other	Mountain Lake Lake
Phosphorus (Est. Reduction)	Lbs/Yr	0.23	Other	Mountain Lake Lake

Activity Name: Urban/Rural Stormwater Management Practices

Activity Category: Groundwater

Staff time?: No

Description: Funds will be used to implement urban stormwater management practices throughout the highly vulnerable project area. Eligible practices must be listed in a Drinking Water Management Plan in the project area. Anticipated projects include (but are not limited to) the following: - Non-Native Sod Grass converted to natives (10 acres) - Urban Tree Plantings (250 trees on 12.5 acres) -Cover Crops (100 acres) 3 year contract, Other Projects such as Described in Drinking Water Management Plans in the Project Area.

GRANT FUNDS: \$35,800

Cover Crops: \$12,000.00

Urban Forestry: \$21,250.00

Native Conversion: \$2,550.00

MATCH FUNDS: \$16,200.00

Cover Crops: \$12,000.00 (50% NTE \$40/ac)

Urban Forestry: \$3,750.00 (85% NTE \$85.00/tree)

Native Conversion: \$450.00 (85% NTE \$255/ac)

Actual Results

Activity Name: Well Sealing

Activity Category: Groundwater

Staff time?: No

Description: Funds will be used to implement well sealings throughout the DWSMA project work area. Well sealing will be anywhere within the DWSMA regardless of wellhead vulnerability. This covers approximately 10 well sealings in the DWSMAs at 65% cost-share NTE \$750 each.

Individual contracts will be run through the respective county's SWCD that the land is located in and approved by their SWCD board, the GBERBA Technical Committee, and finally the GBERBA Policy/Executive Board.

There is no JAA for sealing wells, well sealing is regulated by the MN Dept of Health through licensed well contractors. Contract holders will be required to obtain the services of a certified well contractor to properly seal the well and provide a copy of the official well sealing form before funds can be released for cost-share.

GRANT FUNDS: \$7,500.00

MATCH FUNDS: \$4,038.46

TOTAL: \$11,538.46

Workplan revision 2/15/2023 BC approved: Reduction of grant funds from \$7,500.00 to \$1,952.00, which will cover the two encumbered and grant funds expended for two contracted wells, plus one additional well sealing if needed. Remainder moved to Urban Tree Planting activity budget.

Revised grant funds: \$1,952.00

Revised match funds: \$1,051.08

Revised total: \$3,003.08

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	Watonwan Watershed Drinking Water Protection	\$1,952.00	\$1,202.00	\$750.00	10/14/2022	N
Landowner Fund	Landowner cash match - well sealing	\$1,051.08	\$648.00	\$403.08	10/14/2022	Y

Actual Results

APRIL - DECEMBER 2021:

1 well sealing contract encumbered in Blue Earth County (CWF-WWDW-21-07-02).

Estimated total cost: \$1,300.00

Cost-Share encumbered: \$750.00

JANUARY - DECEMBER 2022:

1 contract encumbered, 2 contracts paid out.

CWF-WWDW-21-07-02, WS

Project cost: \$900.00

CS paid: \$585.00

Match: \$315.00

CWF-WWDW-21-07-03, WS

Project estimate: \$2,575.00

CS Encumbered: \$750.00

Project cost: \$950.00

CS paid: \$617.00

Match: \$333.00

JANUARY - DECEMBER 2023:

No funds expended. Remaining funds moved to admin/coordination and Tree CS as allowed under GAM by grantee's discretion.

Total funds moved: \$750.00

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Prevention	2	Count

Activity Action Name:	CWF-WWDW-21-07-03	Activity Count: 1
Practice Type:	351 - Well Decommissioning	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: In Perpetuity
Practice Description:	Landowner has requested cost share assistance to seal an abandoned well.	Install Date: 08/26/2022
	Jadd Seppmann & Sons, Inc.	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Prevention	Count	1	Other	Watowan

Activity Action Name:	CWF-WWDW-21-07-02	Activity Count: 1
Practice Type:	351 - Well Decommissioning	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: In Perpetuity
Practice Description:	Cost-share encumbered for well sealing. Lincoln township, Blue Earth County	Install Date: 09/02/2022
	Searles Well Drilling	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Prevention	Count	1	Other	Watowan