



# Grant All-Detail Report Projects and Practices 2021

**Grant Title** - Plum Creek Subwatershed Turbidity Reduction  
**Grant ID** - C21-5583  
**Organization** - Redwood-Cottonwood Rivers Control Area

<b>Original Awarded Amount</b>	<b>\$400,805.00</b>	<b>Grant Execution Date</b>	<b>2/12/2021</b>
<b>Required Match Amount</b>	\$100,201.25	<b>Original Grant End Date</b>	12/31/2023
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Kerry Netzke
<b>Current Awarded Amount</b>	\$400,805.00	<b>Current End Date</b>	12/31/2023

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$400,805.00	\$128,821.62	\$271,983.38
Total Match Amount	\$377,399.84	\$368,003.79	\$9,396.05
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$778,204.84</b>	<b>\$496,825.41</b>	<b>\$281,379.43</b>

\*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	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
BMP Implementation - Ag Practices	Agricultural Practices	Current State Grant	Plum Creek Subwatershed Turbidity Reduction	\$300,805.00	\$128,821.62	12/3/2021	N
BMP Implementation - Ag Practices	Agricultural Practices	Federal Funds	EQIP	\$17,861.01	\$17,861.01	8/5/2021	Y
BMP Implementation - Ag Practices	Agricultural Practices	Federal Funds	Focus 319 Funds	\$225,937.17	\$225,937.17	12/3/2021	Y

Activity Name		Activity Category		Source Type		Source Description		Budgeted	Spent	Last Transaction	
										Date	Matching Fund
BMP Implementation - Ag Practices		Agricultural Practices		Local Fund		25% local match		\$100,268.33	\$124,205.61	12/3/2021	Y
BMP Implementation - Streambank Stabilization		Streambank or Shoreline Protection		Current State Grant		Plum Creek Subwatershed Turbidity Reduction		\$100,000.00			N
BMP Implementation - Streambank Stabilization		Streambank or Shoreline Protection		Local Fund		25% local match		\$33,333.33			Y

### Activity Details Summary

Activity Details		Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
638 - Water and Sediment Control Basin		3	3	3 COUNT	3 COUNT
412 - Grassed Waterway and Swales		1	1	2575 LINEAR FEET	2575 LINEAR FEET
638 - Water and Sediment Control Basin		5	5	4 COUNT	5 COUNT
410 - Grade Stabilization Structure		5	5	1 COUNT	1 COUNT

### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Plum Creek Subwatershed Sediment Reduction	SEDIMENT (TSS)	1470 TONS/YR	070200080303	Other	Several BWSR calculators

### Final Indicators Summary

Indicator Name	Total Value	Unit

VOLUME REDUCED (ACRE-FEET/YEAR)	71.93	ACRE-FEET/YR
SEDIMENT (TSS)	928.15	TONS/YR

## Grant Activity

### Grant Activity - BMP Implementation - Ag Practices

<p><b>Description</b></p> <p>Grant funds will be used to provide 25% cost share to compliment the 50% cost share provided by federal 319 Targeted Watershed funds, for grade stabilizations, WSCBs, grassed waterways and other agricultural practice BMPs within the Plum Creek subwatershed. Projects will be designed using NRCS FOTG standards by Duane Hansel, PE (or his successor) or SW Prairie TSA. Most BMPs will have a minimum 10-yr lifespan; BMPs of a capital investment nature will have a minimum 25-yr lifespan. All necessary permits (if required) will be obtaining prior to encumbering construction funds. Contract assurances will be approved by the RCRCA Board of Directors utilizing state cost share contracts with private landowners. Local match of 25% will be provided by the landowners, or a combination of landowner(s) and non-state funding sources. State/federal funding will not exceed 75%.</p> <p>Staffing for this grant include:          Kerry Netzke, RCRCA Executive Director, to provide grant administration and reporting, and CWF contract management.          Joy Bruns, RCRCA Office Manager, for CWF bookkeeping and payments.          Duane Hansel, PE, Design Engineer          SW Prairie TSA, Engineering Services          Scott Wold, Redwood SWCD Manager          Brian Pfarr, Redwood SWCD Resource Specialist          Kurt Mathiowetz, Redwood SWCD Water Quality Technician</p> <p>Redwood SWCD will:</p> <ol style="list-style-type: none"> <li>1. Survey project sites for the participating landowners.</li> <li>2. Assist with the engineered project design and drawings, and clear cultural resources concerns.</li> <li>3. Assist with CWF contract and voucher signatures.</li> <li>4. Administer the federal 319 contract and voucher contracts.</li> <li>5. Provide on-site construction inspection, documentation and as-built information.</li> </ol>	
<p><b>Category</b></p>	<p>AGRICULTURAL PRACTICES</p>
<p><b>Start Date</b></p>	<p><b>End Date</b></p>
<p><b>Has Rates and Hours?</b></p>	<p>No</p>
<p><b>Actual Results</b></p>	

Activity Action - Holly 2 Grade Stabilization			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Construction of a grade stabilization structure		
Proposed Size / Units	1.00 COUNT	Lifespan	25 Years
Actual Size/Units	1.00 COUNT	Installed Date	5-Aug-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	Other
Final Indicator for Holly 2 Grade Stabilization			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	25.529
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	Other
Waterbody	29047		
Final Indicator for Holly 2 Grade Stabilization			
Indicator Name	SEDIMENT (TSS)	Value	166
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	29047		

Activity Action - Springdale 25			
Practice	412 - Grassed Waterway and Swales	Count of Activities	1
Description	Installation of a new grassed waterway.		
Proposed Size / Units	2,575.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	2,575.00 LINEAR FEET	Installed Date	5-Aug-21
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD
Final Indicator for Springdale 25			
Indicator Name	SEDIMENT (TSS)	Value	37.55
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	29045		

Activity Action - Springdale 13/24 Grade Stabilization			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Construction of a grade stabilization structure on the section line between sections 13 and 24 of Springdale Township, Redwood County.		
Proposed Size / Units	1.00 COUNT	Lifespan	25 Years
Actual Size/Units	1.00 COUNT	Installed Date	4-Nov-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	Other
Final Indicator for Springdale 13/24 Grade Stabilization			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	10.141
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	Other
Waterbody	29043		
Final Indicator for Springdale 13/24 Grade Stabilization			
Indicator Name	SEDIMENT (TSS)	Value	395.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	29043		

Activity Action - Springdale 23/24 Road Retention			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Construction of a Road Retention between sections 23 and 24 of Springdale Township, Redwood County		
Proposed Size / Units	1.00 COUNT	Lifespan	25 Years
Actual Size/Units	1.00 COUNT	Installed Date	4-Nov-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	Other
Final Indicator for Springdale 23/24 Road Retention			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	36.258
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	Other
Waterbody	29.043		
Final Indicator for Springdale 23/24 Road Retention			
Indicator Name	SEDIMENT (TSS)	Value	128.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	29043		

Activity Action - Holly 3 Grade Stabilizations			
Practice	638 - Water and Sediment Control Basin	Count of Activities	5
Description	Five 638/410 structures in the NE 1/4 of Section 3 of Holly Township, Murray County.		
Proposed Size / Units	4.00 COUNT	Lifespan	10 Years
Actual Size/Units	5.00 COUNT	Installed Date	2-Dec-21
Mapped Activities	5 Point(s)	Technical Assistance Provider	TSA
Final Indicator for Holly 3 Grade Stabilizations			
Indicator Name	SEDIMENT (TSS)	Value	130.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	29046		

Activity Action - Holly 7 Grade Stabilization			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Construction of a grade stabilization in Section 7 of Holly Township, Murray County.		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	4-Nov-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	Other
Final Indicator for Holly 7 Grade Stabilization			
Indicator Name	SEDIMENT (TSS)	Value	14.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	29088		

Activity Action - Springdale 22_1			
Practice	638 - Water and Sediment Control Basin	Count of Activities	3
Description	Construction of 3 638s in Section 22 of Springdale Township, Redwood County.		
Proposed Size / Units	3.00 COUNT	Lifespan	10 Years
Actual Size/Units	3.00 COUNT	Installed Date	4-Nov-21
Mapped Activities	3 Point(s)	Technical Assistance Provider	TSA
Final Indicator for Springdale 22_1			
Indicator Name	SEDIMENT (TSS)	Value	23.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	29043		

Activity Action - Springdale 22_2			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Construction of a grade stabilization structure adjacent to Plum Creek in Section 22 of Springdale Township, Redwood County.		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	2-Dec-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	TSA
Final Indicator for Springdale 22_2			
Indicator Name	SEDIMENT (TSS)	Value	34.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	29043		



**Grant Activity - BMP Implementation - Streambank Stabilization**

**Description**

Grant funds will be used to provide 25% cost share to compliment the 50% cost share provided by federal 319 Targeted Watershed funds, for streambank stabilization/shoreline protection BMPs within the Plum Creek subwatershed. Projects will protect infrastructure and reduce in-channel sediment contributions. All necessary permits (DNR & USACE) will be obtained before encumbering funds if the project does not qualify for the DNR Public Water Works General Permit (#2005-4215) held by RCRCA. NRCS FOTG design standards by Duane Hansel, PE (or his successor) or SW Prairie TSA with the BMPs having a minimum 10-yr lifespan. Contract assurances will be approved by the RCRCA Board of Directors utilizing state cost share contracts with private landowners. Local match of 25% will be provided by the landowner, or a combination of landowner(s) and other non-state funding sources.

State/federal funding will not exceed 75%.

Additionally, a signed agreement with the landowner will be executed to acknowledge that financial assurance in the amount of 20% of the project cost will be provided by the landowner in the event that future repair/maintenance of the project becomes necessary.

Staffing for this grant include:

- Kerry Netzke, RCRCA Executive Director - grant administration and reporting, and CWF contract management.
- Joy Bruns, RCRCA Office Manager - CWF bookkeeping and payments.
- Duane Hansel, PE, Design Engineer
- SW Prairie TSA, Engineering Services
- Scott Wold, Redwood SWCD Manager
- Brian Pfarr, Redwood SWCD Resource Specialist
- Kurt Mathiowetz, Redwood SWCD Water Quality Technician

Redwood SWCD will:

1. Survey project sites for the participating landowners.
2. Assist with the engineered project design and drawings, and clear cultural resource concerns.
3. Assist with CWF contract and voucher signatures.
4. Administer the federal 319 contract and voucher contracts.
5. Provide on-site construction inspection, documentation and as-built information.

**STREAMBANK OR SHORELINE PROTECTION**

**Category**

Start Date	End Date
Has Rates and Hours?	No
Actual Results	

### Grant Attachments

Document Name	Document Type	Description
2021 Competitive Grant	Grant Agreement	2021 Competitive Grant - Redwood-Cottonwood Rivers Control Area
2021 Competitive Grant EXECUTED application	Grant Agreement	2021 Competitive Grant - Redwood-Cottonwood Rivers Control Area
Redwood SWCD CWF Sites	Workflow Generated	Workflow Generated - Application - 08/17/2020
Work Plan	Grant	Plum Creek Subwatershed Turbidity Reduction
	Workflow Generated	Workflow Generated - Work Plan - 12/17/2020