



Grant All-Detail Report

Watershed Based Implementation NOV 2021

Grant Title - 2021 Metro Cannon River - Dakota SWCD

Grant ID - C21-9979

Organization - Dakota SWCD

Original Awarded Amount	\$305,293.00	Grant Execution Date	1/19/2021
Required Match Amount	\$30,529.30	Original Grant End Date	12/31/2023
Required Match %	10%	Grant Day To Day Contact	Ashley Gallagher
Current Awarded Amount	\$305,293.00	Current End Date	12/31/2023

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$305,293.00	\$45,254.91	\$260,038.09
Total Match Amount	\$30,529.00	\$7,657.93	\$22,871.07
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$335,822.00	\$52,912.84	\$282,909.16

*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
Administration	Administration /Coordination	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$15,293.00	\$234.19	12/31/2021	N
Ag BMPs for Nitrate	Non-Structural Management Practices	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$25,000.00			N
Ag BMPs for Sediment	Agricultural Practices	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$43,000.00	\$17,973.80	12/30/2021	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Ag BMPs for Sediment	Agricultural Practices	Local Fund	Grant Match	\$0.00	\$1,000.00	12/31/2021	Y
CRWJPO	Project Development	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$15,000.00	\$5,653.40	12/31/2021	N
Landowner Contributions	Agricultural Practices	Landowner Fund	Landowner Fund	\$13,800.00	\$6,324.60	12/31/2021	Y
Local Funds	Administration /Coordination	Local Fund	Local Fund	\$16,729.00			Y
Project Development	Project Development	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$30,000.00	\$6,127.71	12/31/2021	N
Streambank and Shoreline Protection	Streambank or Shoreline Protection	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$10,000.00			N
Subwatershed Analyses (SWA)	Planning and Assessment	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$35,000.00	\$6,257.69	12/31/2021	N
Technical Assistance and Engineering	Technical/Engineering Assistance	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$47,000.00	\$8,243.16	12/31/2021	N
Technical Assistance and Engineering	Technical/Engineering Assistance	Local Fund	Grant Match	\$0.00	\$333.33	12/31/2021	Y
Wetland Restorations	Wetland Restoration/Creation	Current State Grant	2021 Metro Cannon River - Dakota SWCD	\$85,000.00	\$764.96	12/31/2021	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
638 - Water and Sediment Control Basin	2	1	1 AC	1 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Ag BMPs for Nitrate	NITROGEN	1260 LBS/YR	Cannon	Other	NBMP Spreadsheet
Wetland Restorations	SEDIMENT (TSS)	100 TONS/YR	Cannon	Other	SWMM Report
Ag BMPs for Sediment	SEDIMENT (TSS)	29 TONS/YR	Cannon	BWSR CALC (GULLY STABILIZATION)	

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	59.50	TONS/YR
PHOSPHORUS (EST. REDUCTION)	59.50	LBS/YR
SOIL (EST. SAVINGS)	119.00	TONS/YR

Grant Activity

Grant Activity - Administration	
Description	Staff time for general administration of the grant including budgeting, tracking, eLink and communication with partners on grant status and achievements.
Category	ADMINISTRATION/COORDINATION
Start Date	19-Jan-21
End Date	
Has Rates and Hours?	Yes
Actual Results	This grant was executed on January 19, 2021. Grant funds were deposited February 1, 2021. Activity is reported.

Grant Activity - Ag BMPs for Nitrate

Description	<p>Install BMPs that reduce nitrate leaching including cover crops and permanent vegetation. Permanent vegetation may include perennial native vegetation and non-native perennial crops. Non-native perennial crops will require prior approval by BWSR and are contingent upon updates to the Dakota SWCD Cost-Share Policies, including rates and terms. Practices will meet NRCS FOTG practice standards and will be certified by staff with the appropriate credentials. Practices will be targeted in high to very-high groundwater sensitivity areas. This will result in 200 acres implemented and 1,260 lbs of nitrogen prevented from leaching. Practices will be implemented through the Dakota SWCD Incentive Payment Practices (IPP) Program as defined in the SWCD Cost Share Policies (see attached), unless superseded by BWSR grant policy (E.g. minimum life required, enhancement of existing native veg ineligible). These non-structural practices will have an effective life of 3 years.</p> <p>Year 1 Milestone: Target outreach to producers in high to very-high GW sensitivity areas. Start developing contracts.</p> <p>Year 2 Milestone: Implement practices.</p> <p>Year 3 Milestone: Continue to implement practices. Track acres/reductions and share with partners.</p>		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	18-Mar-21	End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - Ag BMPs for Sediment

Description	<p>Install structural and vegetative agricultural BMPs in cost-effective locations for reducing sediment as identified in a Subwatershed Analysis (SWA). Potential practices in SWAs include: cover crop, critical area planting, filter strip, grade stabilization structure, grassed waterway, and water and sediment control basin. Filter strips only eligible if perennial native vegetation (or as exempted per BWSR veg standards) and above/beyond buffer law requirements. Practices will meet NRCS FOTG practice standards and will be certified by staff with the appropriate credentials. Targeted practices will be in a subwatershed with a completed SWA including Cannon River Direct, North Branch Chub Creek, Pine Creek and Cannon River Direct-Lake Byllesby. Implementation of practices will result in 8 tons of sediment reduced annually in each subwatershed except Cannon River Direct-Lake Byllesby will be 5 tons of sediment annually. Practices will be implemented through the Dakota SWCD Incentive Payment Practices (IPP) Program as defined in the SWCD Cost Share Policies (see attached). Practices will have an effective life of 10 years, except for cover crops which have an effective life of 3 years.</p> <p>Year 1 Milestone: Targeted outreach/planning with top projects. Survey for design.</p> <p>Year 2 Milestone: Complete design, contract and plan for construction.</p> <p>Year 3 Milestone: Construction and finalize project/payment. Track reductions and share with partners.</p>	
Category	AGRICULTURAL PRACTICES	
Start Date	19-Jan-21	End Date
Has Rates and Hours?	No	
Actual Results	The Weber contract for two water and sediment control basins is complete. The NCR WMO contributed \$1,000 toward that project. The Leifeld contract for two water and sediment control basins is approved.	

Activity Action - Rodney Weber			
Practice	638 - Water and Sediment Control Basin	Count of Activities	2
Description	Two water and sediment control basins were constructed to capture runoff, convey the runoff through an underground outlet, and reduce future erosion from surface water runoff.		
Proposed Size / Units	1.00 AC	Lifespan	10 Years
Actual Size/Units	1.00 AC	Installed Date	14-Dec-21
Mapped Activities	1 Point(s)	Technical Assistance Provider	SWCD

Final Indicator for Rodney Weber			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	59.50
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Trout Brook Watershed of Cannon river		
Final Indicator for Rodney Weber			
Indicator Name	SOIL (EST. SAVINGS)	Value	119.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Trout Brook Watershed of Cannon river		
Final Indicator for Rodney Weber			
Indicator Name	SEDIMENT (TSS)	Value	59.50
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Trout Brook Watershed of Cannon river		

Grant Activity - CRWJPO

<p>Description</p>	<p>Tasks will be for furthering the goals in the Cannon River Comprehensive Watershed Management Plan. Dakota SWCD has entered into a JPA with the Cannon River Watershed Joint Powers Board (CRWJPB) for various tasks (see attached). The focus tasks for this grant are related to the Accelerated Implementation and Measuring (AIM) role. This includes managing contracts and deliverables for assessments or feasibility studies, expanding modeling for continued targeting and prioritization, creating systems and evaluating pace of progress, lead efforts for Plan amendments if warranted, and assist with grant reporting. Broad estimate of categories is 40% feasibility, 30% tracking/reporting, 20% administrative and 10% communication/outreach.</p> <p>Year 1 Milestones: Develop reporting system for CRWJPO members to track projects, grant expenditures and measurable results. Initiate PTMapp development for areas of watershed that are currently not modeled. Initiate feasibility study on priority lakes for prioritized practice list.</p> <p>Year 2 Milestones: Monitor reporting system. Complete PTMapp and communicate results with partners. Complete studies, communicate results and select top projects. Amend workplan if roles/tasks change in JPA. Assist with CRWJPO WBIF workplan/budget for next funding cycle.</p> <p>Year 3 Milestones: Continue to monitor progress on Plan goals and next steps needed. Communicate progress with partners.</p>	
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>	
<p>Start Date</p>	<p>19-Jan-21</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>	
<p>Actual Results</p>	<p>Quarterly reporting, a shared file system and a AGOL project database were all developed for CRWJPO project tracking. HEI was hired to develop PTMapp. The contract finalized at end of 2021 now HEI will run PTMapp through contract with BWSR. Staff time used for management and oversight. Lake feasibility studies were prioritized, and scope of work was developed for writing a lake management plan for Fox Lake.</p>	

Grant Activity - Landowner Contributions

Description	Cost share is provided at a maximum of 90% if in a designated priority area. Therefore it is anticipated that from Structural Ag BMPs, Shoreline Projects and Wetland Restorations there would be approximately \$13,800 in landowner match.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jan-21	End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - Local Funds

Description	Dakota County staff within the groundwater unit and water resources unit will provide in kind time. Direct funds will also be provided by Dakota County for items such as the Irrigation Water Management web-based tool development and incentives, outreach, planning, and certification for cover crops.		
Category	ADMINISTRATION/COORDINATION		
Start Date	19-Jan-21	End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - Project Development

Description	<p>Wetland Restorations and Irrigation Water Management (IWM) require landowner outreach and education. Increase IWM by promoting tools and practices while also providing technical assistance. Tools may include the checkbook method and a new Irrigation Management Assistant (IMA) online tool. IWM leads to better use of groundwater and can reduce nitrate leaching events. A private consultant may be hired for work on IWM tools. Irrigation work will be targeted in high to very-high groundwater sensitivity areas. Outreach (letters, calls, meetings) for wetlands will be to top projects in the SWMM report and targeted in the Chub Creek subwatershed. Irrigation work will result in outreach to at least 30 irrigation operators. Wetland restoration work will result in at least one project, reductions accounted for under Wetland Restoration Activity.</p> <p>For these activities funding is divided as follows: \$20,000 for Irrigation, \$10,000 for wetlands. Broad estimate of this category is 40% marketing, 40% education, and 20% reporting.</p> <p>Year 1 Milestones: Build IWM outreach plan off past meetings and research. Initiate contract for irrigation scheduling web based tool development. For wetland restorations, assess existing plans (ex SWMM) and create outreach list.</p> <p>Year 2 Milestones: Promote IWM to producers especially in high to very-high GW sensitivity areas. Finish development of scheduling tool. Provide support for finding and using scheduling tools. For wetland restorations, have location(s) selected where landowners have interest.</p> <p>Year 3 Milestones: Continue to promote and support IWM efforts. Tell stories and share successes with partners. For wetland restorations, have project designed and funding sources secured.</p>	
Category	PROJECT DEVELOPMENT	
Start Date	19-Jan-21	End Date
Has Rates and Hours?	Yes	
Actual Results	Consultant was hired to develop the Irrigation Management Assistant (IMA) tool. Meetings with consultant and partners to provide ideas/review. Tool is approximately 75% complete and is on schedule to launch by March 2022.	

Grant Activity - Streambank and Shoreline Protection

Description	<p>Install streambank and shoreline restoration and protection projects in cost-effective locations for reducing sediment as identified in a Subwatershed Analysis (SWA). Projects will meet NRCS FOTG practice standards and will be certified by staff with the appropriate credentials. Projects will be in a subwatershed with a completed SWA including Cannon River Direct, North Branch Chub Creek, Pine Creek and Cannon River Direct-Lake Byllesby. Implementation of practices will result in 5-8 tons of sediment reduced annually in one of the subwatersheds. Projects will be implemented through the Dakota SWCD Incentive Payment Practices (IPP) Program as defined in the SWCD Cost Share Policies (see attached). Projects will have an effective life of 10 years.</p> <p>Year 1 Milestone: Targeted outreach/planning with top projects. Survey for design.</p> <p>Year 2 Milestone: Complete design, contract and plan for construction.</p> <p>Year 3 Milestone: Construction and finalize project/payment. Track reductions and share with partners.</p>		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	19-Jan-21	End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - Subwatershed Analyses (SWA)

Description	Conduct two SWAs which includes staff time to complete desktop analysis, field reconnaissance, cost-benefit ranking and a final report. This will be completed for two subwatersheds in the Chub Creek watershed. Year 1 Milestone: Consult partners and select two sub-watersheds. Develop templates and maps. Year 2 Milestone: Desktop review and field work, meet with landowners, document projects and potential reductions. Year 3 Milestone: Finalize reports. Post and share with partners.		
Category	PLANNING AND ASSESSMENT		
Start Date	19-Jan-21	End Date	
Has Rates and Hours?	Yes		
Actual Results	Project coordination and scoping was conducted to prioritize pollutants of focus for the subwatershed. GIS data was gathered to start the desktop analysis and prepare maps for field reconnaissance. PTMApp data was also incorporated into the analysis and mapping. A desktop inventory of potential projects was started for use during future field reconnaissance.		

Grant Activity - Technical Assistance and Engineering

Description	<p>Staff time for project development, survey, design, construction oversight and final certification. This is applicable to multiple activities including Ag BMPs, wetland restorations, cover crops and perennial crops. Estimated budget for each is as follows: \$17,000 for Ag BMPs, \$25,000 for wetland restorations, and \$5,000 for cover crops/permanent vegetation. Estimated time is 85% technician and 15% professional engineer.</p> <p>Dakota SWCD staff with proper JAA will review and approve projects. Depending upon project scale, the wetland restoration activity may require engineer approval outside of Dakota SWCD. In this case Dakota County engineers or a private engineer may be consulted.</p> <p>Year 1 Milestones: Outreach, project locations determined, survey complete, begin designs.</p> <p>Year 2 Milestones: Continue with project development. Some projects constructed and complete.</p> <p>Year 3 Milestones: Construct and complete remaining projects.</p>	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date	19-Jan-21	End Date
Has Rates and Hours?	Yes	
Actual Results	Technical Engineering assistance has been used toward the completed Weber water and sediment control basins project (97.00 hours) and toward the Leifeld encumbered water and sediment control basins project (1.00 hour).	

Grant Activity - Wetland Restorations

Description	<p>Funds will be used for implementation of wetland restorations. Existing state and local easement programs, as well as non-profit partnerships will be used to leverage dollars. Projects will meet NRCS FOTG practice standards and will be certified by staff with the appropriate credentials. Targeted outreach completed under the Project Development Activity will result in at least one wetland restoration in the Chub Creek subwatershed that would be 40 acres and reduce 100 tons of sediment annually. Projects will be implemented through the Dakota SWCD Incentive Payment Practices (IPP) Program as defined in the SWCD Cost Share Policies (see attached). Projects will have an effective life of 15 years.</p> <p>Year 1 Milestones: Similar to project development activity, outreach list for top wetland restorations complete.</p> <p>Year 2 Milestones: Project location(s) selected, survey complete, design complete, and funding sources determined.</p> <p>Year 3 Milestones: Project constructed.</p>		
Category	WETLAND RESTORATION/CREATION		
Start Date	19-Jan-21	End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Attachments

Document Name	Document Type	Description
2020 Dakota SWCD Cost Share Policies	Grant	2021 Metro Cannon River - Dakota SWCD
2021 Dakota SWCD Local Policy	Journal	Journal Dated - 03/25/2021
2021 Watershed Based Implementation Funding	Grant Agreement	2021 Watershed Implementation Funding - Dakota SWCD
2021 Watershed Based Implementation Funding EXECUTED	Grant Agreement	2021 Watershed Implementation Funding - Dakota SWCD
Application	Workflow Generated	Workflow Generated - Application - 11/30/2020
CRWJPB Roles JPA	Grant	2021 Metro Cannon River - Dakota SWCD
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/12/2021
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/08/2020
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/28/2020

