



Grant All-Detail Report Projects and Practices 2018

Grant Title - Lower Sand Creek Corridor Restoration

Grant ID - C18-7062

Organization - Coon Creek WD

Original Awarded Amount	\$195,158.00	Grant Execution Date	3/14/2018
Required Match Amount	\$48,789.50	Original Grant End Date	12/31/2020
Required Match %	25%	Grant Day To Day Contact	
Current Awarded Amount	\$195,158.00	Current End Date	12/31/2020

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$195,158.00	\$176,427.70	\$18,730.30
Total Match Amount	\$269,563.00	\$248,332.65	\$21,230.35
Total Other Funds	\$269,563.00	\$248,332.66	\$21,230.34
Total	\$734,284.00	\$673,093.01	\$61,190.99

*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 & Reporting	Administration /Coordination	Current State Grant	Lower Sand Creek Corridor Restoration	\$14,192.00	\$17,435.28	12/31/2019	N
Construction	Streambank or Shoreline Protection	Current State Grant	Lower Sand Creek Corridor Restoration	\$139,250.00	\$108,142.14	12/30/2019	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Construction	Streambank or Shoreline Protection	Federal Funds	Federal 319 grant	\$269,563.00	\$248,332.65	12/30/2019	Y
Construction	Streambank or Shoreline Protection	Other Funds		\$269,563.00	\$248,332.66	12/31/2019	N
Public Involvement, Education, & Outreach	Education/Information	Current State Grant	Lower Sand Creek Corridor Restoration	\$10,666.00	\$8,449.01	12/31/2019	N
Technical & Engineering Assistance	Technical/Engineering Assistance	Current State Grant	Lower Sand Creek Corridor Restoration	\$31,050.00	\$42,401.27	12/31/2019	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
101M - Staff Time	2		2 COUNT	4 COUNT
612 - Tree/Shrub Establishment	1		60 COUNT	84 COUNT
101M - Staff Time	1		1 COUNT	1 COUNT
314 - Brush Management	1		3.2 AC	3.5 AC
468 - Lined Waterway or Outlet	5		5 COUNT	5 COUNT
390 - Riparian Herbaceous Cover	1		3.2 AC	3.2 AC
643 - Restoration and Management of Declining Habitats	1		3.2 AC	5 AC
580 - Streambank and Shoreline Protection	1		4200 LINEAR FEET	4200 LINEAR FEET
104M - Workshop/Clinics	1		1 COUNT	2 COUNT
104M - Workshop/Clinics	1		1 COUNT	1 COUNT
410 - Grade Stabilization Structure	6		6 COUNT	6 COUNT

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Construction	PHOSPHORUS (EST. REDUCTION)	316 LBS/YR	Sand Creek	BWSR CALC (STREAM & DITCH STABILIZATION)	Sandy soils with CF of 0.85
Construction	SEDIMENT (TSS)	372 TONS/YR	Sand Creek	Literature Value	NRCS Direct Volume Method

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	372.00	TONS/YR
PHOSPHORUS (EST. REDUCTION)	316.00	LBS/YR

Grant Activity

Grant Activity - Administration & Reporting			
Description	<p>Project coordination meetings with partners, project management (bid process, contracts, oversight), financial tracking, eLink reporting.</p> <p>This activity will be carried out by CCWD staff. The CCWD maintains a full-time staff and District Engineer with expertise in multiple-use resource management, hydrology, aquatic biology, outreach/education, and environmental regulations. CCWD staff has extensive experience working on stream restoration projects.</p> <p>Specifically, Justine Dauphinais, Water Quality Coordinator (B. A. Environmental Studies, M. Sc. Fisheries & Aquatic Biology), is responsible for day-to-day project management and grant reporting with administrative oversight by Tim Kelly, District Administrator. Jon Janke, Operations and Maintenance Coordinator (B. S. Natural Resource Management), is responsible for construction management in conjunction with the District Engineer, Ed Matthiesen (See Technical/Engineering Assistance Activity).</p>		
Category	ADMINISTRATION/COORDINATION		
Start Date	9-Apr-18	End Date	
Has Rates and Hours?	Yes		
Actual Results	CCWD is providing ongoing coordination with project partners and local landowners, construction management, and grant administration and reporting.		

Grant Activity - Construction

Description	<p>This activity includes construction site preparation & maintenance, mobilization of equipment, installation of grade stabilization structures and bank stabilization/ protection BMPs, regrading of streambanks, excavating backwater pool connections, tree-thinning, buckthorn clearing, seeding and planting as needed, site restoration, demobilization of equipment, and post-construction vegetation maintenance to ensure successful establishment.</p> <p>See attached 60% design plans for details</p> <p>All work will be completed by 1 or more qualified contractors selected using a competitive bidding process.</p> <p>Additionally, the Anoka Conservation District will be contracted to assist with vegetation establishment and maintenance.</p>		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Oct-18	End Date	
Has Rates and Hours?	No		
Actual Results	As of 12/31/19, all construction activities are complete with the exception of ongoing buckthorn and herbaceous invasive species control work throughout the project area.		

Activity Action - Cross vanes			
Practice	410 - Grade Stabilization Structure	Count of Activities	6
Description	6 rock vanes positioned every 2 ft of vertical drop		
Proposed Size / Units	6.00 COUNT	Lifespan	25 Years
Actual Size/Units	6.00 COUNT	Installed Date	28-Dec-18
Mapped Activities	No		

Activity Action - Tree and brush thinning			
Practice	314 - Brush Management	Count of Activities	1
Description	Approximately 50% cut of undesirable secondary growth trees to open canopy to allow for sunlight penetration. Clearing of all invasive buckthorn. Area to be thinned is within 50 ft of channel along the entire project reach. The logs and roots of thinned trees will be repurposed in the channel as log toes and root wads.		
Proposed Size / Units	3.20 AC	Lifespan	Unknown
Actual Size/Units	3.50 AC	Installed Date	28-Dec-18
Mapped Activities	No		

Activity Action - Riparian vegetation establishment			
Practice	390 - Riparian Herbaceous Cover	Count of Activities	1
Description	Although vegetation is expected to establish naturally once the canopy is thinned to promote sunlight penetration, supplemental seeding with a native plant seed mix will be conducted as needed following BWSR's native plant establishment and enhancement guidelines (May 2007).		
Proposed Size / Units	3.20 AC	Lifespan	15 Years
Actual Size/Units	3.20 AC	Installed Date	30-Sep-19
Mapped Activities	No		

Activity Action - Riprap gullies at outfalls			
Practice	468 - Lined Waterway or Outlet	Count of Activities	5
Description	There are 5 stormwater outfalls within the project reach that are currently unprotected and are contributing to in-channel erosion during storm events. These will be lined with fabric and roughly 200 CY of riprap		
Proposed Size / Units	5.00 COUNT	Lifespan	15 Years
Actual Size/Units	5.00 COUNT	Installed Date	28-Dec-18
Mapped Activities	No		

Activity Action - Stabilize eroding banks			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	<p>Actively eroding stream banks will be stabilized using a combination of hard-armoring and bioengineering practices.</p> <p>Severely eroded banks that are subject to high shear stress will be stabilized with vegetated riprap (roughly 1500 LF). Banks subject to moderate shear stress will be stabilized using bioengineering practices including root wads, log toes, and woody revetments (roughly 1600 LF). Roughly 1100 LF of eroding banks will be regarded to a shallower slope and vegetated with native plants. 16 individual banks for a total of 4200ft along a 1/2 mile stream corridor.</p>		
Proposed Size / Units	4,200.00 LINEAR FEET	Lifespan	15 Years
Actual Size/Units	4,200.00 LINEAR FEET	Installed Date	28-Dec-18
Mapped Activities	No		

Final Indicator for Stabilize eroding banks			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	316
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Sand Creek		
Final Indicator for Stabilize eroding banks			
Indicator Name	SEDIMENT (TSS)	Value	372
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Literature Value
Waterbody	Sand Creek		

Activity Action - Planting mid canopy trees			
Practice	612 - Tree/Shrub Establishment	Count of Activities	1
Description	<p>6 species of native trees (84 trees; #10-15 pots) were planted along the stream corridor to replace the mid story that was previously composed of invasive buckthorn</p>		
Proposed Size / Units	60.00 COUNT	Lifespan	25 Years
Actual Size/Units	84.00 COUNT	Installed Date	15-Oct-19
Mapped Activities	No		

Activity Action - Invasive Species Control			
Practice	643 - Restoration and Management of Declining Habitats	Count of Activities	1
Description	Follow-up buckthorn control to prevent re-establishment in disturbed area. Control of additional opportunistic herbaceous invaders such as garlic mustard as well.		
Proposed Size / Units	3.20 AC	Lifespan	Unknown
Actual Size/Units	5.00 AC	Installed Date	
Mapped Activities	No		

Grant Activity - Public Involvement, Education, & Outreach			
Description	<p>Efforts will be made to engage the public throughout the entire project. Local stakeholders will be invited to participate in a public open house to discuss local stream impairments and introduce and promote the stream restoration project and gather feedback. Project updates will be published in the City of Coon Rapids' newsletter and on the CCWD's website. Additionally, interpretive signage will be designed and installed to draw attention to the BMPs implemented throughout the project reach and inform trail users about how the various BMPs improve water quality and habitat for fish and macroinvertebrates. The CCWD will also host one or more "Watershed Walks" along the trail at the project site to showcase the project and discuss its water quality outcomes.</p> <p>This activity will be carried out by CCWD staff. The CCWD maintains a full-time staff and District Engineer with expertise in multiple-use resource management, hydrology, aquatic biology, outreach/education, and environmental regulations. CCWD staff has extensive experience working on stream restoration projects and public engagement efforts.</p> <p>Specifically, Dawn Doering, Information & Education Coordinator (B. S. Biology, M. S. Liberal Studies), will oversee all public engagement efforts with assistance from Britta Dornfeld, Outreach Assistant (B. A. Environmental Studies). A contractor will be selected by competitive bid for fabrication and installation of the interpretive signage.</p>		
Category	EDUCATION/INFORMATION		
Start Date	9-Apr-18	End Date	15-Nov-19
Has Rates and Hours?	Yes		
Actual Results	As of 11/15/19, CCWD staff hosted a public neighborhood meeting, published 4 articles in the Coon Rapids Connection quarterly newsletter, established and updated a project webpage: www.cooncreekwd.org/lowersandcreekresto. , hosted 2 "watershed walk" outreach events, and installed interpretive signage at the project site.		

Activity Action - Public open house workshop			
Practice	104M - Workshop/Clinics	Count of Activities	1
Description	Host public open house to promote project and gather feedback. Before construction begins, the CCWD and City of Coon Rapids will host a public open house to inform residents about the project and allow for questions, comments, and discussion.		
Proposed Size / Units	1.00 COUNT	Lifespan	Unknown
Actual Size/Units	1.00 COUNT	Installed Date	22-May-18
Mapped Activities	No		

Activity Action - Interpretive signage			
Practice	101M - Staff Time	Count of Activities	1
Description	CCWD staff will develop content and a design for interpretive signage that will be installed along the project reach to educate trail users on the project.		
Proposed Size / Units	1.00 COUNT	Lifespan	15 Years
Actual Size/Units	1.00 COUNT	Installed Date	15-Nov-19
Mapped Activities	No		

Activity Action - Publish regular project updates			
Practice	101M - Staff Time	Count of Activities	2
Description	CCWD staff will write and submit at least 2 project updates to the Coon Rapids Connection, a quarterly newsletter circulated to all Coon Rapids households and businesses (>26,000 people). CCWD staff will also post regular project updates to the CCWD website.		
Proposed Size / Units	2.00 COUNT	Lifespan	Unknown
Actual Size/Units	4.00 COUNT	Installed Date	1-Sep-19
Mapped Activities	No		

Activity Action - Public outreach event			
Practice	104M - Workshop/Clinics	Count of Activities	1
Description	CCWD staff will host at least one public outreach activity to showcase the finished project & interpretive signage. Interested stakeholders including residents, senior groups, youth groups, and local agencies will be invited to participate in a 'watershed walk' tour which will showcase the project site and educate participants on the new water quality and stream habitat BMPs.		
Proposed Size / Units	1.00 COUNT	Lifespan	Unknown
Actual Size/Units	2.00 COUNT	Installed Date	18-Sep-19
Mapped Activities	No		

Grant Activity - Technical & Engineering Assistance			
Description	<p>The District Engineer, Wenck, will provide technical and engineering assistance throughout the Project. The Engineer will complete final project design plans, assist with securing necessary permits (USACE, DNR Waters), implement the bidding process, and provide construction oversight (supervision and inspections).</p> <p>Ed Mattheisen, P. E., a licensed professional, will be the lead Engineer and will adhere to recognized design standards for all constructed practices (USDA-NRCS FOTG).</p>		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	9-Apr-18	End Date	31-Dec-19
Has Rates and Hours?	No		
Actual Results	Wenck Engineering has completed survey work & final design plans, construction bidding services, construction oversight, and final project sign off. No additional technical assistance is needed.		

Grant Attachments

Document Name	Document Type	Description
2018 Competitive Grant	Grant Agreement	2018 Competitive Grant - Coon Creek WD
2018 Competitive Grant executed	Grant Agreement	2018 Competitive Grant - Coon Creek WD
2018 cash expenditures documentation	Progress	Progress Dated - 02/01/2019
2018 year end financial report	Grant	Lower Sand Creek Corridor Restoration

Document Name	Document Type	Description
60% Design Plans	Grant	Lower Sand Creek Corridor Restoration
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/26/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/26/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/01/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/25/2020
Application	Workflow Generated	Workflow Generated - Application - 08/08/2017
CCWD Staff Time_Administration&Reporting_2019	Progress	Progress Dated - 01/25/2020
CCWD Staff Time_AdministrationCoordination_2018	Progress	Progress Dated - 02/01/2019
CCWD Staff Time_InvolvementEduOutreach_2018	Progress	Progress Dated - 02/01/2019
CCWD Staff Time_PublicInvolvementEduOutreach_2019	Progress	Progress Dated - 01/25/2020
Construction Activity Cash Match 2019	Progress	Progress Dated - 01/25/2020
Construction Activity Grant Expenditures 2019	Progress	Progress Dated - 01/25/2020
Exhibit B: O&M plan	Grant	Lower Sand Creek Corridor Restoration
JPA with landowner	Grant	Lower Sand Creek Corridor Restoration
LowerSandCreekCorridorRestorationOverview	Grant	Lower Sand Creek Corridor Restoration
SpeedProlmaging Invoice	Progress	Progress Dated - 01/25/2020
Tech&Engineering_Grant Eligible Expenditures 2019	Progress	Progress Dated - 01/25/2020
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/20/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/12/2018
grantmap_18638_2017-08-02_03-43-22-PM.jpg	Grant	Lower Sand Creek Corridor Restoration