



## Grant All-Detail Report Projects and Practices 2020

**Grant Title** - Coon Creek Park Stream Restoration

**Grant ID** - C20-5654

**Organization** - Coon Creek WD

Original Awarded Amount	<b>\$395,000.00</b>	Grant Execution Date	<b>4/14/2020</b>
Required Match Amount	\$98,750.00	Original Grant End Date	12/31/2022
Required Match %	25%	Grant Day To Day Contact	Justine Dauphinais
Current Awarded Amount	\$395,000.00	Current End Date	12/31/2022

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$395,000.00	\$395,000.00	\$0.00
Total Match Amount	\$218,130.00	\$855,754.83	\$-637,624.83
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$613,130.00</b>	<b>\$1,250,754.83</b>	<b>\$-637,624.83</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
Administration & Reporting	Administration /Coordination	Local Fund	CCWD in kind match	\$24,300.00	\$49,098.74	11/29/2022	Y
Construction	Streambank or Shoreline Protection	Current State Grant	Current State Grant	\$395,000.00	\$395,000.00	3/29/2022	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Construction	Streambank or Shoreline Protection	Local Fund	CCWD Levy	\$125,000.00	\$628,062.37	8/30/2022	Y
Public Involvement, Education, & Outreach	Education/Information	Local Fund	CCWD in-kind and cash match	\$15,030.00	\$12,684.65	11/29/2022	Y
Technical & Engineering Assistance	Technical/Engineering Assistance	Local Fund	CCWD cash match	\$53,800.00	\$165,909.07	9/2/2022	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
580 - Streambank and Shoreline Protection	1	1	2250 LINEAR FEET	2700 LINEAR FEET
100M - Presentations	1		1 COUNT	1 COUNT
410 - Grade Stabilization Structure	8	8	2 COUNT	8 COUNT
104M - Workshop/Clinics	2		2 COUNT	2 COUNT
390 - Riparian Herbaceous Cover	1	1	5 AC	6.5 AC
342 - Critical Area Planting	1	1	1 COUNT	1 COUNT

### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Construction</b>	PHOSPHORUS (EST. REDUCTION)	201 LBS/YR	Coon Creek	BWSR CALC (STREAM & DITCH STABILIZATION)	.85 lbs/ton sediment for sandy soils
<b>Construction</b>	SEDIMENT (TSS)	237 TONS/YR	Coon Creek	Literature Value	NRCS Direct Volume Method

**Final Indicators Summary**

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	284.00	TONS/YR
PHOSPHORUS (EST. REDUCTION)	241.00	LBS/YR

## Grant Activity

Grant Activity - Administration & Reporting			
Description	<p>Project coordination meetings with partners, project management (bid process, contracts, construction oversight), financial tracking, eLink reporting.</p> <p>This activity will be carried out by CCWD staff as in-kind match (\$24,300). 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 &amp; 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> <p>Key milestones:</p> <ul style="list-style-type: none"> <li>-JPA executed with landowner, City of Andover, by June 30, 2020 and before any grant expenditures are made</li> <li>-acquisition of all necessary permits before construction begins (e.g. NPDES, USACE, DNR) by Oct 31, 2021</li> <li>-Contractor awarded by Oct 31, 2021</li> <li>-reporting in eLink by Feb 1st each year</li> <li>-Final report by Dec 31, 2022</li> </ul>		
	Category	ADMINISTRATION/COORDINATION	
Start Date	14-Apr-20	End Date	05-Dec-22
Has Rates and Hours?	Yes		
Actual Results	<p>Communication and coordination between CCWD, City of Andover, adjacent residents, the project engineer, and BWSR Board Conservationist took place throughout life of the project. A JPA was executed with the landowner on 8-18-20, before any grant funds were expended.</p>		
	<p>An ACOE permit and WCA no loss determination were issued on 8-24-21. A contractor was awarded via public bid on 10/11/21; construction and associated oversight commenced in November 2021 and ended in September 2022. CCWD staff</p>		

and/or the project engineer were on site daily throughout active construction.

CCWD staff tracked expenditures, processed payments, and fulfilled all grant reporting requirements, ending with the final report in December 2022.

Note: the project scope was expanded considerably to incorporate a low flow channel and flood bench suitable for aquatic biota, sediment transport, and flood conveyance. This entailed more coordination, landowner communication, permitting, and oversight than initially planned.

## Grant Activity - Construction

<b>Description</b>	<p>This activity includes construction site preparation &amp; maintenance, mobilization of equipment, installation of grade stabilization structures and bank stabilization/protection BMPs ( regrading, vanes, toe wood, vegetated riprap), floodplain excavation, tree-thinning, buckthorn clearing, seeding and planting of native pollinator-friendly riparian species, site restoration, demobilization of equipment, and post-construction vegetation maintenance to ensure successful establishment.</p> <p>All work will be completed in accordance with approved design standards (e.g. NRCS engineering manual) by 1 or more qualified contractors selected using a competitive bidding process.</p> <p>Construction is planned for winter 2020-2021, but may be delayed until winter 2021-2022 due to Covid-19, permitting timelines, and/or weather.</p> <p>Key milestones: Contractor Awarded by Oct 31, 2021 Substantial completion by June 30, 2022 Vegetation establishment by Sept 30, 2022</p> <p>\$395,000 is requested from the current grant. A minimum of \$125,000 cash match will be provided by the CCWD local levy.</p>		
<b>Category</b>	STREAMBANK OR SHORELINE PROTECTION		
<b>Start Date</b>	17-Nov-21	<b>End Date</b>	31-Oct-22
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	<p>Construction was delayed until fall 2021 due to expanded project scope and long permitting timelines.</p> <p>A USACE permit (NWP 13) was granted on 8/24/21, a contractor (Sunram Construction) was awarded via the public bidding process on 10/11/21, and construction commenced on 11/17/21.</p> <p>From 11/17-12/31/21, equipment was mobilized, the construction site was prepped and maintained, and work began on mass floodplain excavation and bank stabilization using bioengineering practices (regarding, coir block, plantings). Major earthwork continued through 3/15/22 when all bank stabilization and channel modification work was completed. 20% more active bank erosion was stabilized via coir block toe than initially planned (2700 vs 2250 LF). The contractor demobilized from</p>		

the site temporarily to allow for fish spawning and bird nesting and returned in June to complete outstanding items. Substantial completion was signed off on by the engineer on 6/17/22, with final completion of all punch list items in August. Vegetation was fully established by the end of July 2022, but there was significant mortality of pollinator plugs that necessitated replanting of 144 plugs on 9/7-9/8/22. A follow up site inspection on 10/31/22 revealed adequate plant survival.

Activity Action - Cross vanes			
Practice	410 - Grade Stabilization Structure	Count of Activities	8
Description	Cross vanes to create riffle-pool sequencing and stabilize grade to prevent head-cutting. 6 rock vanes and 2 log vanes.		
Proposed Size / Units	2.00 COUNT	Lifespan	25 Years
Actual Size/Units	8.00 COUNT	Installed Date	15-Mar-22
Mapped Activities	8 Point(s)	Technical Assistance Provider	Other

Activity Action - Bank stabilization			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	regrading and seeding, bioengineering (coir toe), and/or vegetated riprap  As of 4/30/22, bank stabilization work was complete with 2700 LF of eroding bank stabilized.		
Proposed Size / Units	2,250.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	2,700.00 LINEAR FEET	Installed Date	15-Mar-22
Mapped Activities	1 Line(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Bank stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	241
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Coon Creek		

Final Indicator for Bank stabilization			
Indicator Name	SEDIMENT (TSS)	Value	284
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Literature Value
Waterbody	Coon Creek		

Activity Action - Native riparian herbaceous cover			
Practice	390 - Riparian Herbaceous Cover	Count of Activities	1
Description	pollinator-friendly native plantings along disturbed portions of creek corridor +/- 50' wide		
Proposed Size / Units	5.00 AC	Lifespan	25 Years
Actual Size/Units	6.50 AC	Installed Date	21-Jun-22
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	Private Consultant

Activity Action - Pollinator plugs			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	1 pollinator planting plot consisting of native seed mix and 144 native plugs in disturbed riparian area		
Proposed Size / Units	1.00 COUNT	Lifespan	25 Years
Actual Size/Units	1.00 COUNT	Installed Date	8-Sep-22
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	Other



## Grant Activity - Public Involvement, Education, & Outreach

<b>Description</b>	<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, introduce and promote the stream restoration project, and gather feedback. This event may take place virtually depending on the progression of Covid-19. Project updates will be published in the City of Andover newsletter and on the CCWD's website and social media platforms. Additionally, interpretive signage will be designed and installed at the project site. The CCWD will also host interactive outreach events in the immediate drainage area including storm drain stenciling and coordination with existing adopt-a-drain/pond programs and the Andover Pollinator Awareness Project.</p> <p>This activity will be carried out by CCWD staff. Specifically, Dawn Doering, Information &amp; Education Coordinator, will oversee public engagement efforts with assistance from Britta Dornfeld, Outreach Specialist. Fabrication and installation of the interpretive signage will be carried out by a qualified contractor.</p> <p>This activity will include staff time as in-kind match (\$10,780) and also cash match for interpretive signage (up to \$2500) and outreach supplies (e.g. paint, vests, adopt-a-drain signage, printing, postage; up to \$1750).</p> <p>Key milestones:</p> <ul style="list-style-type: none"> <li>-project webpage created by Sept 30, 2020</li> <li>-public open house hosted by May 31, 2021</li> <li>-newsletter article published by June 30, 2021</li> <li>-interpretive signage installed by Oct 31, 2022</li> <li>-Two outreach events hosted by Dec 31, 2022</li> </ul>		
<b>Category</b>	EDUCATION/INFORMATION		
<b>Start Date</b>	11-May-20	<b>End Date</b>	22-Sep-22
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	<p>A dedicated project webpage (<a href="http://www.cooncreekwd.org/ccpsr">www.cooncreekwd.org/ccpsr</a>) was developed and published on the CCWD website on 5/14/20; it will continue to be updated as needed. All required annual grant reporting is posted on the webpage.</p> <p>A hybrid virtual/ in-person public informational meeting was advertised and hosted on 6/25/20 and a recording is available</p>		

on the project webpage.

Message center signage and content was installed at the project site to provide project updates and contact information during the active construction period.

An article was published in the 2021 Fall edition of the Andover Today newsletter, a presentation on the project was given to the Andover City Council on 2/3/22, and a second newsletter article was published in the 2022 summer edition of the Andover Today.

An interactive outreach event was held on 10/1/22 for UMN biology students to tour the project site, learn about stream health assessments and stream restoration methods, and collect baseline fisheries biomonitoring data. A second public outreach event was held on 9/22/22 to showcase the project and educate attendees on water quality impairments and stormwater management practices including Adopt-a-Drain.

Permanent interpretive signage was designed and installed onsite on 8/5/22. Pollinator plantings signs were also installed. The legacy logo was included on signs.

Activity Action - Outreach activities			
Practice	104M - Workshop/Clinics	Count of Activities	2
Description	Public involvement activities including storm drain stenciling, storm pond or drain clean ups, pollinator-themed events, or similar  1 outreach event focused on stream health assessment and restoration field methods was held in 2021; 25 UMN students were in attendance. 1 outreach event focused on the link between stormwater and stream impairments was held in 2022; 10 local residents were in attendance.		
Proposed Size / Units	2.00 COUNT	Lifespan	Unknown
Actual Size/Units	2.00 COUNT	Installed Date	22-Sep-22
Mapped Activities	No	Technical Assistance Provider	Other

Activity Action - Public Meeting			
Practice	100M - Presentations	Count of Activities	1
Description	Host a public meeting (virtual or in-person) to introduce project, educate residents on local water quality impairments and best practices, and gather feedback.		
Proposed Size / Units	1.00 COUNT	Lifespan	Unknown
Actual Size/Units	1.00 COUNT	Installed Date	25-Jun-20
Mapped Activities	No	Technical Assistance Provider	Other

## Grant Activity - Technical & Engineering Assistance

<b>Description</b>	<p>The District Engineer, Wenck Associates Inc, will provide technical and engineering assistance throughout the Project. The Engineer will develop and complete final project design plans (including any survey work), assist with securing necessary permits (USACE, DNR Waters, NPDES), implement the bidding process, and provide construction oversight (supervision and inspections).</p> <p>Ed Matthiesen, P. E., will be the lead Engineer and will adhere to recognized design standards for all constructed practices (e.g. USDA-NRCS FOTG) and provide project sign-off upon completion.</p> <p>This work will be funded by the CCWD local levy (\$53,800) and count towards match.</p> <p>Key milestones:          -Design finalized by June 30, 2021          -project advertised for bidding by Sept 30, 2021          -engineer sign off on as-built by Sept 30, 2022</p>		
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE		
<b>Start Date</b>	1-May-20	<b>End Date</b>	10-Aug-22
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	<p>With oversight from CCWD staff, Stantec (formally Wenck) provided design and construction oversight professional services led by Ed Matthiesen, P. E. and Eileen Weigel, P.E.</p> <p>The project design was finalized in July 2021 with a final project manual delivered in August 2021 for the public bidding process which commenced on 8/20/21 and closed on 10/1/21. The project was awarded to the lowest competent bidder, Sunram Construction on 10/11/21. Construction and associated on-site oversight commenced in November 2021 and continued through project completion in August 2022. The Engineer certified the project was completed as designed on 8/10/22 (see attached certificate of completion).</p> <p>Engineering costs incurred were significantly over budget due to an expansion in project scope to incorporate a multistage channel design to improve floodplain connectivity, sediment transport, in-channel habitat, and flood conveyance. This change in scope required significant hydrology modeling, design iterations, and USACE permitting including an archaeology site</p>		

survey. CCWD covered all engineering costs as local match.

## Grant Attachments

Document Name	Document Type	Description
<b>2020 Competitive Grant</b>	Grant Agreement	2020 Competitive Grant - Coon Creek WD
<b>2020 Competitive Grant EXECUTED</b>	Grant Agreement	2020 Competitive Grant - Coon Creek WD
<b>2021 Cash Match Documentation</b>	Progress	Progress Dated - 01/10/2022
<b>2021 Financial Report</b>	Progress	Progress Dated - 01/10/2022
<b>2021 In Kind Match Documentation</b>	Progress	Progress Dated - 01/10/2022
<b>2021 Yearend Master Tracking Spreadsheet</b>	Progress	Progress Dated - 01/10/2022
<b>2022 financial report thru 4-30-22</b>	Grant	Coon Creek Park Stream Restoration
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/08/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/06/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/06/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/06/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 11/30/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/13/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/13/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 06/27/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/16/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/08/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/10/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 04/07/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/21/2021
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 09/09/2019
<b>Breakdown of Construction line Items</b>	Progress	Progress Dated - 06/27/2022
<b>CCPSR Application image</b>	Grant	Coon Creek Park Stream Restoration
<b>Cash Match Documentation 1.1-4.30.22</b>	Progress	Progress Dated - 06/27/2022
<b>Cash Match Documentation 2020</b>	Progress	Progress Dated - 01/21/2021

Document Name	Document Type	Description
Cash Match Documentation 5.1-11.29.22	Progress	Progress Dated - 11/30/2022
Certificate of Final Completion	Progress	Progress Dated - 11/30/2022
Certificate of Substantial Completion	Progress	Progress Dated - 11/30/2022
Draft JPA/ OM plan for BWSR Review	Grant	Coon Creek Park Stream Restoration
Executed JPA	Grant	Coon Creek Park Stream Restoration
Executed JPA_corrected	Grant	Coon Creek Park Stream Restoration
Final Financial Report	Progress	Progress Dated - 11/30/2022
Grant Agreement_Signed by CCWD	Grant	Coon Creek Park Stream Restoration
Grant Eligible Documentation 1.1-4.30.22	Progress	Progress Dated - 06/27/2022
In Kind Match Documentation 1.1-4.30.22	Progress	Progress Dated - 06/27/2022
In Kind Staff Match Documentation 5.1-11.29.22	Progress	Progress Dated - 11/30/2022
In kind match documentation_2020	Progress	Progress Dated - 01/21/2021
Interpretive Sign Installed	Progress	Progress Dated - 11/30/2022
Master Budget Tracking Spreadsheet 1-15-21	Progress	Progress Dated - 01/21/2021
Master Budget Tracking Spreadsheet 11.29.22	Progress	Progress Dated - 11/30/2022
Master Budget Tracking Spreadsheet 4.30.22	Progress	Progress Dated - 06/27/2022
Project Assurances Discussion	Grant	Coon Creek Park Stream Restoration
Sunram PayApp 1 corrected	Grant	Coon Creek Park Stream Restoration
Sunram PayApp 2	Grant	Coon Creek Park Stream Restoration
USACE permit close out	Progress	Progress Dated - 11/30/2022
Updated Billing Rates for 2022	Progress	Progress Dated - 06/27/2022
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/22/2020
grantmap_24312_2019-08-22_03-31-29-PM.jpg	Grant	Coon Creek Park Stream Restoration