



Grant All-Detail Report Projects and Practices 2019

Grant Title - Lower Rice Creek Stabilization Project

Grant ID - C19-1484

Organization - Rice Creek WD

Original Awarded Amount	\$568,104.00	Grant Execution Date	4/4/2019
Required Match Amount	\$142,026.00	Original Grant End Date	12/31/2021
Required Match %	25%	Grant Day To Day Contact	Matthew Kocian
Current Awarded Amount	\$568,104.00	Current End Date	12/31/2021

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$568,104.00	\$522,945.79	\$45,158.21
Total Match Amount	\$150,306.00	\$144,725.30	\$5,580.70
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$718,410.00	\$667,671.09	\$50,738.91

**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	Local Fund	Staff time	\$6,750.00	\$25,087.50	12/31/2021	Y
Construction	Streambank or Shoreline Protection	Current State Grant	Grant Cash - Construction	\$482,888.00	\$461,471.40	12/8/2021	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Construction	Streambank or Shoreline Protection	Local Fund	Cash Match - Construction	\$120,772.00	\$101,970.60	12/23/2020	Y
Education and Outreach	Education/Information	Local Fund	Staff time	\$1,480.00	\$832.50	12/31/2020	Y
Engineering, Design, and Permitting	Technical/Engineering Assistance	Current State Grant	Grant Cash - Engineering	\$85,216.00	\$61,474.39	12/22/2021	N
Engineering, Design, and Permitting	Technical/Engineering Assistance	Local Fund	Cash Match - Engineering	\$21,304.00	\$16,834.70	12/8/2020	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
584 - Stream Channel Stabilization	1	1	5400 LINEAR FEET	5400 LINEAR FEET

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Construction	SEDIMENT (TSS)	2874 TONS/YR	Locke Lake	Other	mass balance

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	2,874.00	TONS/YR
PHOSPHORUS (EST. REDUCTION)	2,874.00	LBS/YR

Grant Activity

Grant Activity - Administration			
Description	Grant reporting. Site inspections. Engineer oversight. Access agreement acquisition.		
	RCWD staff will work with the City of Fridley (landowner) and Anoka County Parks to develop a 25-year access agreement for construction and maintenance. Both parties are aware of the project and wholly supportive. The access agreement will be executed prior to the expense of any grant funds.		
Category	ADMINISTRATION/COORDINATION		
Start Date	8-Apr-19	End Date	31-Dec-21
Has Rates and Hours?	Yes		
Actual Results	2019: Develop and execute access agreement with landowner; engineer selection (RFP process); site visits with engineer and landowner; review engineers concept design		
	2020: Review and approve final plans and specifications; prepare and present all materials to the RCWD for approval; act as liaison between the landowners (Anoka County Parks and City of Fridley) and the project engineer; approve all budget expenditures and change orders; conduct site tours; document site conditions and ensure adherence to erosion control standards with frequent site inspections; respond to questions (and occasionally complaints) from landowners and park users; design and install temporary project signage		
	2021: Inspect the site regularly to ensure bank stability after first winter/spring runoff, and to ensure survival of native plantings and seeding. Process interim pay requests. Document any impacts to site infrastructure (trails). Conduct final inspection with landowners (City of Fridley and Anoka County Parks) and work with contractor to perform minor site repairs and cleanup. Final site inspection with project engineer and contractor; document and direct warranty work for dead shrubs on 1 streambank, and repair of minor slump on another streambank. Review long-term inspection and maintenance plan provided by project engineer. Process final pay request. Final presentation to RCWD Board and Project close-out.		

Grant Activity - Construction

Description

Stream bank and bluff stabilization construction: Site clearing and grading, installation of soft and hard structures, and planting (tree/shrub/grasses).

Engineer and BWSR calculator estimates of pollution reduction are: 2874 tons/yr of sediment reduction, and 2874 pounds per year of phosphorus reduction.

A fully qualified contractor, with local stream restoration / stabilization experience, will be selected following MN Uniform Municipal Contracting Law.

Category

STREAMBANK OR SHORELINE PROTECTION

Start Date

21-Sep-20

End Date

07-Dec-21

Has Rates and Hours?

No

Actual Results

2020: Nearly all items for this activity were completed in 2020. The contractor completed construction of 13 stream stabilization sites throughout the project area; the original grant application promised 11 stabilization sites. All sites were inspected by the project engineer. When necessary, the contractor repaired or altered work at sites to meet the project designs and specifications, as directed by the project engineer. Project partners, Anoka County and City of Fridley, were consulted on all deviations from the original access agreement; these were minimal. Access to, and throughout the site was less onerous than originally envisioned, mostly due to very favorable weather and low flow in Rice Creek. Remaining work for this activity includes removal of invasive species (buckthorn) and planting of shrubs, live-stakes, and plugs. Those items should be completed by late-spring 2021.

2021: All remaining construction activities were completed in 2021. Activities included shrub and live-stake planting, seeding (and re-seeding), access route repair, and warranty work to replace dead shrubs and repair minor bank slump. Several change-orders were authorized to replace bare-root shrubs with container stock, to improve viability. The contractor submitted pay requests and other materials promptly, and the the construction contract was fully closed-out in December 2021.

As noted above, the original grant application referenced 11 streambank stabilization sites; we completed 13. By completing two additional sites, we expect to see higher reductions in sediment and phosphorus. Lacking new, detailed modeling, we do not have precise estimates. However, if we break the original estimate down by the number of sites, and considering that one of the new sites had less erosion than more significant sites, two sites, we can roughly estimate that the additional work resulted in additional annual reduction of 261 tons of sediment and 261 pounds of phosphorus.

Activity Action - Stream Stabilization			
Practice	584 - Stream Channel Stabilization	Count of Activities	1
Description	Stabilize stream bed and banks using hard and soft structures, grading, and planting.		
Proposed Size / Units	5,400.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	5,400.00 LINEAR FEET	Installed Date	7-Dec-21
Mapped Activities	1 Line(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Stream Stabilization			
Indicator Name	SEDIMENT (TSS)	Value	2874
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lower Rice Creek and Locke Lake		
Final Indicator for Stream Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2874
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lower Rice Creek and Locke Lake		

Grant Activity - Education and Outreach			
Description	RCWD Staff will use digital media to promote the project. Staff will also work with other local government groups in Anoka County and the City of Fridley to educate residents about the project.		
Category	EDUCATION/INFORMATION		
Start Date	22-Apr-19	End Date	31-Dec-21
Has Rates and Hours?	Yes		
Actual Results	<p>2020: RCWD staff worked with colleagues at the City of Fridley and Anoka County Parks (landowners) to produce online / social media materials for residents of Fridley, providing details on the project need, timeline, benefits, and local traffic/access impacts. RCWD staff also spent time combating online misinformation.</p> <p>2021: RCWD staff worked with the City of Fridley to promote the project on websites and social media.</p>		

Grant Activity - Engineering, Design, and Permitting

Description	Preparation of construction plans and specifications. Construction bidding and contracting. DNR Public Waters permitting. Construction observation, pay request, and post-construction inspection.		
	A consultant will be select from the RCWD Engineering pool to complete this activity. The design consultant will be credentialed (PE or MLA) and have relevant experience with stream restoration / stabilization. The plans and specs will be completed and signed by licensed PE.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	13-Jul-20	End Date	31-Dec-21
Has Rates and Hours?	No		
Actual Results	<p>2019: The project engineer conducted multiple site visits; development of conceptual design memo and cost estimations; begin permitting process; begin plans and specifications, and; meetings with landowner and RCWD.</p> <p>2020: Nearly all work for this activity was completed in 2020. The project engineer produced plans and specifications; sealed bids were collected following MN Municipal Contracting law. The low bid (Sunram Construction) was selected after verifying their qualifications, per the projects specifications. The project engineer facilitated pre-construction site visits and conducted pre-construction surveying. The project engineer produced materials and quantity estimates needed to procure a Public Waters Permit from the MN DNR. They supervised construction activities, directing the contractor on appropriate elevations and installation techniques when necessary. The project engineer processed all construction Change Orders and Pay Requests in great detail. When it was determined that, due to favorable bids and construction weather, excess construction funds were available, the project engineer located and designed stabilization concepts for a 13th site (the grant application promised 11 sites).</p> <p>2021: The Project Engineer reviewed and approved all pay applications. They also conducted site inspections, identified deficiencies and warranty items, provided the long-term monitoring and maintenance plan, and the final project acceptance and approval.</p>		

Grant Attachments

Document Name	Document Type	Description
2019 Competitive Grant	Grant Agreement	2019 Competitive Grant - Rice Creek WD
2019 Competitive Grant EXECUTED	Grant Agreement	2019 Competitive Grant - Rice Creek WD

Document Name	Document Type	Description
Access Agreement Map	Grant	Lower Rice Creek Stabilization Project
Access Agreement signed	Grant	Lower Rice Creek Stabilization Project
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/28/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/19/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/12/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/12/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/31/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/24/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/19/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/21/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/22/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/22/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/22/2021
Application	Workflow Generated	Workflow Generated - Application - 08/30/2018
Barr Engineering 2020	Grant	Lower Rice Creek Stabilization Project
Barr Invoice 01222020	Grant	Lower Rice Creek Stabilization Project
Barr Invoice 02122020 2	Grant	Lower Rice Creek Stabilization Project
Barr Invoice 09252019	Grant	Lower Rice Creek Stabilization Project
Barr Invoice 10232019	Grant	Lower Rice Creek Stabilization Project
Barr Invoice 11272019	Grant	Lower Rice Creek Stabilization Project
Barr Invoice 12252019	Grant	Lower Rice Creek Stabilization Project
Barr Invoice 2021	Grant	Lower Rice Creek Stabilization Project
Bidding notice receipt	Grant	Lower Rice Creek Stabilization Project
Board Order	Grant	Lower Rice Creek Stabilization Project
C19-1484 Reconciliation Checklist	Journal	Journal Dated - 02/11/2021
Contractor invoices 2021	Grant	Lower Rice Creek Stabilization Project
DNR PW Permit	Grant	Lower Rice Creek Stabilization Project
DNR PW Permit receipt	Grant	Lower Rice Creek Stabilization Project
Engineering Services Contract	Grant	Lower Rice Creek Stabilization Project
Final Payment Certification	Grant	Lower Rice Creek Stabilization Project
Financial Report 2019	Grant	Lower Rice Creek Stabilization Project
Financial Report 2020	Grant	Lower Rice Creek Stabilization Project

Document Name	Document Type	Description
Financial Report December 2021 FINAL	Grant	Lower Rice Creek Stabilization Project
Financial Report June 2021	Grant	Lower Rice Creek Stabilization Project
Landowner Support Letter	Grant	Lower Rice Creek Stabilization Project
Landowner Support Letter 2	Grant	Lower Rice Creek Stabilization Project
Legal invoice 06232019	Grant	Lower Rice Creek Stabilization Project
Legal invoice 07242019	Grant	Lower Rice Creek Stabilization Project
Legal invoice 08282019	Grant	Lower Rice Creek Stabilization Project
Legal invoices 2020	Grant	Lower Rice Creek Stabilization Project
LowerRiceCreek_CWF.jpg	Grant	Lower Rice Creek Stabilization Project
Plans - amended	Grant	Lower Rice Creek Stabilization Project
Plans and Specifications	Grant	Lower Rice Creek Stabilization Project
Rough Draft Proj Assurance for Access	Grant	Lower Rice Creek Stabilization Project
Staff time record	Grant	Lower Rice Creek Stabilization Project
Staff time report 2021	Grant	Lower Rice Creek Stabilization Project
Sunram Construction Invoice April 2021	Grant	Lower Rice Creek Stabilization Project
Sunram Construction Invoices 2020	Grant	Lower Rice Creek Stabilization Project
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/18/2019
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/19/2018
grantmap_21735_2018-08-16_12-59-11-PM.jpg	Grant	Lower Rice Creek Stabilization Project
photo 4.0	Grant	Lower Rice Creek Stabilization Project
photo 4.1	Grant	Lower Rice Creek Stabilization Project
staff time record 2020	Grant	Lower Rice Creek Stabilization Project