



Grant Workplan Targeted Watershed 2016

Grant Title - 2016 - Targeted Watershed (Buffalo-Red River WD)

Grant ID - P16-9306

Organization - Buffalo-Red River WD

Grant Awarded Amount	\$2,800,000.00	Grant Execution Date	
Required Match Amount	\$700,000.00	Grant End Date	12/31/2020
Required Match %	25%	Grant Day To Day Contact	Erik Jones

Budget Summary

	Budgeted	Spent	Balance Remaining
Total Grant Amount	\$2,800,000.00	\$0.00	\$2,800,000.00
Total Match Amount	\$700,000.00	\$0.00	\$700,000.00
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$3,500,000.00	\$0.00	\$3,500,000.00

**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/Coordination	Administration /Coordination	Current State Grant	2016 - Targeted Watershed (Buffalo-Red River WD)	\$28,000.00			N
Administration/Coordination	Administration /Coordination	Local Fund	2016 CWF Non-State Match	\$5,090.00			Y
Agricultural Practices	Agricultural Practices	Current State Grant	2016 - Targeted Watershed (Buffalo-Red River WD)	\$230,000.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Agricultural Practices	Agricultural Practices	Federal Funds	2016 CWF Non-State Match	\$20,000.00			Y
Monitoring / Data Collection	Agricultural Practices	Local Fund	Local Fund	\$0.00			N
Project Development	Project Development	Current State Grant	2016 - Targeted Watershed (Buffalo-Red River WD)	\$70,000.00			N
Project Development	Project Development	Local Fund	2016 CWF Non-State Match	\$7,992.00			Y
Streambank or Shoreline Protection	Streambank or Shoreline Protection	Current State Grant	2016 - Targeted Watershed (Buffalo-Red River WD)	\$2,298,000.00			N
Streambank or Shoreline Protection	Streambank or Shoreline Protection	Local Fund	2016 CWF Non-State Match	\$568,022.00			Y
Technical & Engineering	Technical/Engineering Assistance	Current State Grant	2016 - Targeted Watershed (Buffalo-Red River WD)	\$174,000.00			N
Technical & Engineering	Technical/Engineering Assistance	Local Fund	2016 CWF Non-State Match	\$98,896.00			Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
584 - Stream Channel Stabilization	1	0	45000 LINEAR FEET	0 LINEAR FEET
410 - Grade Stabilization Structure	56	0	1 COUNT	0 COUNT

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
---------------	----------------	---------------	-----------	------------------	----------

Grant Activity

Grant Activity - Administration/Coordination

Description

The Buffalo-Red River Watershed District has developed a multi-phase comprehensive strategy to improve water quality and protect the valuable resource of Wolverton Creek in an extensively drained agricultural HUC-12 watershed. The Buffalo-Red River Watershed District (BRRWD) Engineer will be responsible for all general eLINK, website, and annual and final reporting documents for the project. The BRRWD Administrator will be the fiscal manager. In general, the BRRWD Board of Managers will grant staff financial approval authority through board actions. All personnel involved with this project will be considered consultants thus no LGU billing rate will be calculated. Payments provided from this grant will be paid directly from the BRRWD to the contractor consultant and contractors as this will be a watershed project established as a project under 103D Watershed Law. Prevailing rates will be applied as needed. Local match for this grant is anticipated to come from federal program payments to landowners, landowner contributions through a the initiation of a Water Management District (WMD) under watershed district authority 103D.729, County Ditch system funds, and the BRRWD's 103D.905 subd. 3 Fund. The majority of local funding is expected to be obtained through a Water Management District (WMD). The WMD is anticipated to be limited to the watershed of Wolverton Creek within the BRRWD's Western Planning region. This being a project initiated by the BRRWD with its authorities within 103D, the establishment and ongoing maintenance will be the responsibility of the BRRWD. The BRRWD will meet with BWSR on a grant "check-in" basis (currently estimated at 2 times per year).

Category

ADMINISTRATION/COORDINATION

Has Rates and Hours?

No

Grant Activity - Agricultural Practices

Description

The BRRWD will solicit bids from contractors for the Phase 1 Agricultural sediment best management practices. These practices have a minimum design life of 10 years. This construction will extend from Wilkin County Highway 30 (Section 26 of Wolverton Township) and downstream into Section 4 of Wolverton Township. This work will be bid along with the construction of the Channel restoration excavation since the channel excavation spoil will be used for the construction of many of the agricultural practice. Unless otherwise indicated and discussed with BWSR, standard and specs from the NRCS Sec. IV on the FOTG (CP 410 Grade stabilization structures) will be followed. Most of the Agricultural Practices will be side inlet structures, but other similar structures may be used on a case by case basis. The installation of the grade control structures are expected to reduce sediment loadings to Wolverton Creek by 600T/y.

An estimated \$20,000 to project through EQIP or other ACEP program.

Project: Install 56 Grade Stabilization Structures

Contractor - To be determined through Competitive Bid

Category

AGRICULTURAL PRACTICES

Has Rates and Hours?

No

Activity Action - Grade Stabilization Practices

Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description			
Proposed Size / Units	1 COUNT	Lifespan	10 Years

Grant Activity - Monitoring / Data Collection

Description

The Watershed District operates a system of Regional Assessment Locations (RALs) to monitor long-term trends of water quantity and quality in the Watershed District. One of these long-term monitoring RALs (named WoVC-1 [ID#S005-322]) is located near the Wolverton Creek outlet at 130th Avenue northwest of the City of Comstock. Water quality monitoring is completed on a monthly basis (open water season) at this location. The BRRWD contracts with the International Water Institute (IWI) and the River Watch Program to ensure that water quality monitoring data is collected and to document the positive water quality benefits of this project. A number of parameters have been monitored and will be monitored in the future which have included: TSS, Turbidity, Ammonia, NO₂NO₃, TKN, TP, D.O., E.coli, Temp., Conductivity, and pH. In addition, the MPCA plans to complete intensive watershed monitoring (including biological) in 2018 in the Upper Red River watershed of which the Wolverton Creek watershed is a part.

Category

AGRICULTURAL PRACTICES

Has Rates and Hours?

No

Grant Activity - Project Development

Description

- 1) The Watershed District Managers, Administrator, and Engineer will mail notice meet with Phase 1 landowners as a group. The group meeting will be followed up with one on one (up to 20) meetings with individual landowners as needed to encourage the landowners to sign up in the Phase 1 stream reach for Environmental Quality Incentive Program (EQIP) and/or Wetland Restoration Enhancement (WRE) Program through NRCS. These meetings will generally be conducted by the District Administrator and a BRRWD Manager and by the District Engineer on an as needed basis. Potential conservation practices that could be funded through NRCS programs include: 327 (Conservation cover), 342 (Critical Area Planting), 410 (grade stabilization Structure), 484 (mulching), 500 (Obstruction removal), and 582 (Open Channel). Additional USDA funding through Farm Bill programs (CRP, ACEP, EQIP) and additional state funding through CREP or RIM are anticipated to be brought into the project through landowner participation.
- 2) An additional meeting/hearing will be noticed and held with landowners as a group to establish the project as an official project and to implement the Water Management District Funding mechanism.
- 3) A portion of the project development will go toward Public Outreach (education/information) as well. This project will serve as a demonstration project for future similar projects within the BRRWD. The BRRWD annually holds a tour of District projects and this project will be a feature of those tours.
- 4) The BRRWD will work to obtain the remaining permits (Wilkin Conditional Use Permit, Corps of Corp Engineers 404, and Construction Stormwater). The project has permitting approval through MN DNR Public Waters Work Permit and the MN Wetland Conservation Act.
- 5) The BRRWD will advertise to solicit bids from contractors. It is anticipated that this will include legal notice published in a local newspaper as well as posting the job to an online construction trade website.

Category

PROJECT DEVELOPMENT

Has Rates and Hours?

No

Grant Activity - Streambank or Shoreline Protection

Description	<p>The BRRWD will solicit bids from contractors for the Phase 1 channel restoration construction and expanded buffer establishment. NRCS conservation practice 582 Open Channel has a minimum design life of 15 years although the intention of the Water Management District is to set up funding of longer term project maintenance. This construction will extend from Wilkin County Highway 30 and downstream into Section 4 of Wolverton Township. This work will be bid along with the construction of the agricultural conservation practices since the channel excavation spoil will be used for the construction of many of the agricultural practice (CP 410 Grade stabilization structures). The expansion of vegetative buffers are expected to reduce sediment loading by 165 T/year and the channel restoration is expected to reduce sediment by 1,500 T/year.</p> <p>Project: Construct 8 miles of Natural Two-state channel Contractor - To be determined through Competitive Bid</p>
Category	STREAMBANK OR SHORELINE PROTECTION
Has Rates and Hours?	No

Activity Action - Channel Restoration			
Practice	584 - Stream Channel Stabilization	Count of Activities	1
Description	Construction of 8 miles of two-stage channel.		
Proposed Size / Units	45000 LINEAR FEET	Lifespan	15 Years

Grant Activity - Technical & Engineering

Description	<p>The technical and engineering work on this project will be overseen by the BRRWD Engineer. The channel design is based on MN Department of Natural Resources design criteria for stable low-gradient, Rosgen E-channels. The DNR Stream Habitat staff out of the Fergus Falls Area Office have reviewed design work to date and will continue to have input as the BRRWD puts the construction plans together. In general, this work will follow NRCS CP 582 Open Channel guidance for natural channel design. The work includes developing final construction plans, verifying quantities, developing bid documents and specifications, completing on-site construction observation and staking. The work will also involve completion of record drawings for the completed conservation practices. Agricultural conservation practices will be design based on NRCS Field Office Technical Guide standards. Potential conservation practices include 327 (Conservation cover), 342 (Critical Area Planting), 410 (grade stabilization Structure), 484 (mulching), 500 (Obstruction removal), and 582 (Open Channel).</p>
Category	TECHNICAL/ENGINEERING ASSISTANCE
Has Rates and Hours?	No

Grant Attachments

Document Name	Document Type	Description
2016 Targeted Watershed Grant	Grant Agreement	2016 Targeted Watershed - Buffalo-Red River WD
Original Grant Application	Grant	2016 - Targeted Watershed (Buffalo-Red River WD)
Project Location Map	Grant	2016 - Targeted Watershed (Buffalo-Red River WD)
Project Schedule	Grant	2016 - Targeted Watershed (Buffalo-Red River WD)
Workplan and Budget	Grant	2016 - Targeted Watershed (Buffalo-Red River WD)