



Grant All-Detail Report

Accelerated Implementation Grant 2016

Grant Title - Watonwan Watershed - Precision Targeting through Hydro-Conditioning

Grant ID - C16-9972

Organization - Greater Blue Earth River Basin Alliance

Grant Awarded Amount	\$52,280.00	Grant Execution Date	3/3/2016
Required Match Amount	\$13,070.00	Grant End Date	12/31/2018
Required Match %	25%	Grant Day To Day Contact	Kay Gross

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$52,280.00	\$0.00	\$52,280.00
Total Match Amount	\$13,483.00	\$5,530.20	\$7,952.80
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$65,763.00	\$5,530.20	\$60,232.80

*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	Match
Administration and Coordination	Administration /Coordination	Local Fund	Staff Time - Local Match	\$2,320.00	\$2,550.00	12/30/2016	Y
BMP Targeting Assessment	Education/Information	Current State Grant	Watonwan Watershed - Precision Targeting through Hydro-Cond..	\$10,200.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Match
Education and Training	Education/Information	Current State Grant	Watonwan Watershed - Precision Targeting through Hydro-Cond..	\$1,920.00			N
Education and Training	Education/Information	Local Fund	Staff Time - Local Match	\$6,928.00			Y
Hydromodificaiton of DEM	Inventory/Mapping	Current State Grant	Watonwan Watershed - Precision Targeting through Hydro-Cond..	\$31,210.00			N
Hydromodificaiton of DEM	Inventory/Mapping	Local Fund	Staff Time and Mileage - Local Match	\$4,235.00	\$2,980.20	6/27/2016	Y
Watershed Delineation Assessments	Inventory/Mapping	Current State Grant	Watonwan Watershed - Precision Targeting through Hydro-Cond..	\$8,950.00			N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
306M - LIDAR Derived Product(s)	2	0	393175 AC	0 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
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Final Indicators Summary

Indicator Name	Total Value	Unit
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Grant Activity

Grant Activity - Administration and Coordination	
Description	<p>Administration and Coordination of this project will be provided by the GBERBA Coordinators and Bookkeeper. The Administrative Coordinator will administer the 2016 CWF Grant with duties to include E-link reporting, website updating and reporting documents as required by BWSR. The fiscal management will be completed by the GBERBA Financial Corrdinator and include all reporting documents as required by BWSR.</p> <p>The GBERBA Staff will not be taking grant funds for this endeavor; all funds expended will be in-kind.</p> <p>In-Kind Contribution: GBERBA Staff - 80 hrs - \$29.00 Total - \$2,320.00</p>
Category	ADMINISTRATION/COORDINATION
Start Date	8-Mar-16
End Date	
Has Rates and Hours?	No
Actual Results	<p>MARCH - DECEMBER 2016</p> <p>GBERBA Coordinators in-kind contribution</p> <p>85.0 hours</p> <p>TOTAL IN-KIND: \$2,550.00</p>

Grant Activity - BMP Targeting Assessment

Description	The contractor will identify focus areas for BMPs and map highly sensitive areas based on terrain analysis and SPI/CTI layers. The secondary attributes derived earlier along with soil information will define the focus areas needed to implement BMPs. In addition, contractors may at the request of local staff conduct targeting using various targeting programs such as the Agricultural Conservation Planning Framework (ACPF).		
Category	EDUCATION/INFORMATION		
Start Date	8-Mar-16	End Date	
Has Rates and Hours?	No		
Actual Results	MARCH - DECEMBER 2016 0% completed. Work contingent upon completion of breachline inventory. No funds expended.		

Grant Activity - Education and Training

Description	<p>The Contractor will educate and train partners in the Watonwan River Watershed. A three-day training will be developed to allow local staff to utilize the data, learn the tools used to hydrologically correct a DEM and add to the existing terrain analysis inventory.</p> <p>The culvert inventory is a database that needs to be continuously updated as new drainage features arise. Training local partners to ensure the inventory stays valid and that terrain analyses are being conducted on accurate DEMs is imperative.</p> <p>In-Kind Contribution: Training SWCD/County Staff and Boards Total - \$6,000.00 (Calculated Hourly Rate will be used in formula)</p> <p>GBERBA - Organization of Training Sessions Total - \$928.00</p>	
Category	EDUCATION/INFORMATION	
Start Date	8-Mar-16	End Date
Has Rates and Hours?	No	
Actual Results	<p>MARCH - DECEMBER 2016</p> <p>0% complete - Contingent upon completion of breachline inventory, secondary attributes, and BMP targeting. The contractor (WRC) has started discussions with the contractor from the Blue Earth/Le Sueur watershed hydroconditioning grant about coordinating workshops between both CWF grant projects.</p> <p>No funds expended.</p>	

Grant Activity - Hydromodificaion of DEM

Description	<p>Bids to conduct this work will be solicited. A contractor will be selected based on several parameters outlined in the bid, including cost-effectiveness and ability to complete the work to high standards. The selected contractor will fulfill the duty of generating a hydro-modified DEM of the Watonwan Watershed via an accurate and complete culvert inventory identifying sub-surface drainage features not detected by LiDAR. The culvert inventory will be completed by following acceptable methods used by the State of Minnesota and/or the Digital Elevation Committee, and/or other entities that have created similar inventories. This inventory will identify existing subsurface drainage features (e.g. culverts, drain tiles) by utilizing any existing inventories, GIS data, and direct observation. Local staff will field verify culverts for quality control.</p> <p>Not all 561,620 acres of the Watonwan Watershed will need to be covered in the culvert inventory. To date, a culvert inventory of the Blue Earth County portion of the Watonwan Watershed has already been completed by Houston Engineering Inc. (HEI) and an additional seven HUC12 watersheds have been completed throughout the watershed by the MSU Water Resources Center (See application general attachment "Map of area remaining to be hydro-conditioned"). Taking into account the already completed, work, appoximatley 393,175 acres of the watershed remains to be inventoried for sub-surface drainage features. Burnlines of features from the culvert inventory will be incorporated into the GIS database resulting in hydrologically-modified DEMs. Although only 393,175 acres of the watershed is yet to be inventoried, the contractor and local staff will quality control existing inventories and attempt to identify newly installed subsurface drainage features.</p> <p>In-Kind Contribution: Culvert Verification per County. \$800.00 per SWCD - Total \$3,200.00 (Calculated Hourly Rate will be used in formula) Mileage - Total \$1,035.00</p>	
Category	INVENTORY/MAPPING	
Start Date	8-Mar-16	End Date
Has Rates and Hours?	No	
Actual Results	<p>March - December 2016</p> <p>An Request for Quotes (RFQ) document was developed to solicit a contractor to conduct the work for this activity. 3 bids</p>	

were received. GBERBA entered into contract in July, 2016 with the Water Resources Center at Minnesota State University, Mankato (WRC)..

No payments were made to the Contractor.

In-kind contribution from Martin County for pictometry imagery - \$2,980.20.
 [Pictometry is extremely useful to the contractor for identifying surficial drainage features]

Approximately 10% of the watershed has been hydromodified. See attached annual report for more information.

Activity Action - Create hydrologically-modified DEMs			
Practice	306M - LIDAR Derived Product(s)	Count of Activities	1
Description	1. Identify and digitize subsurface drainage features 2. Generate modified DEMs 3. Verify modifications for quality control		
Proposed Size / Units	393,175.00 AC	Lifespan	In Perpetuity
Actual Size/Units	AC	Installed Date	
Mapped Activities	No		

Grant Activity - Watershed Delineation Assessments

Description	Once the burnlines have been incorporated into the existing DEM, the contractor will calculate secondary attributes (SPI, CTI) for each catchment area in the watershed to determine areas of high erosion and depressions. This will include identifying bluff and ravine areas.		
Category	INVENTORY/MAPPING		
Start Date	8-Mar-16	End Date	
Has Rates and Hours?	No		
Actual Results	<p>MARCH - DECEMBER 2016</p> <p>0% complete. Contingent upon completion of breachline inventory.</p> <p>No funds expended.</p>		

Activity Action - Generate secondary attributes			
Practice	306M - LIDAR Derived Product(s)	Count of Activities	1
Description	Calculate SPI and CTI for each catchment area in the basin		
Proposed Size / Units	393,175.00 AC	Lifespan	In Perpetuity
Actual Size/Units	AC	Installed Date	
Mapped Activities	No		

Grant Attachments

Document Name	Document Type	Description
2016 Annual Report	Grant	Watowan Watershed - Precision Targeting through Hydro-Conditioning
2016 Competitive Grant	Grant Agreement	2016 Competitive Grant - Greater Blue Earth River Basin Alliance
2016 Competitive Grant executed	Grant Agreement	2016 Competitive Grant - Greater Blue Earth River Basin Alliance
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/16/2017
Application	Workflow Generated	Workflow Generated - Application - 08/28/2015

Document Name	Document Type	Description
Map of area remainig to be completed	Grant	Watonwan Watershed - Precision Targeting through Hydro-Conditioning
Match Expeniture Email	Journal	Journal Dated - 07/21/2016
Watonwan Hydro Modification Overview	Grant	Watonwan Watershed - Precision Targeting through Hydro-Conditioning
Watonwan Watershed area needing culvert inventory	Grant	Watonwan Watershed - Precision Targeting through Hydro-Conditioning
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/23/2016
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/16/2015
grantmap_14649_2015-08-28_01-13-25-PM.jpg	Grant	Watonwan Watershed - Precision Targeting through Hydro-Conditioning