



Grant All-Detail Report Accelerated Implementation Grant 2016

Grant Title - Targeting Implementation in the Blue Earth & Le Sueur Watersheds

Grant ID - C16-7253

Organization - Greater Blue Earth River Basin Alliance

Grant Awarded Amount	\$212,000.00	Grant Execution Date	3/3/2016
Required Match Amount	\$53,000.00	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	\$212,000.00	\$9,720.00	\$202,280.00
Total Match Amount	\$56,500.00	\$42,348.86	\$14,151.14
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$268,500.00	\$52,068.86	\$216,431.14

*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
1. Develop Hydrologically Modified DEM	Inventory/Mapping	Current State Grant	Targeting Implementation in the Blue Earth & Le Sueur Waters..	\$163,500.00	\$9,720.00	12/21/2016	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction	
						Date	Match
1. Develop Hydrologically Modified DEM	Inventory/Mapping	Local Fund	Co. Match - 3 Co. Pictometry Flight	\$55,000.00	\$38,738.22	8/12/2016	Y
2. Develop Hydrology & Water Quality GIS Datasets	Inventory/Mapping	Current State Grant	Targeting Implementation in the Blue Earth & Le Sueur Waters..	\$25,000.00			N
3. Target Sources & BMP Suitability Analysis	Planning and Assessment	Current State Grant	Targeting Implementation in the Blue Earth & Le Sueur Waters..	\$3,000.00			N
4. Measure BMP Effectiveness & ACPF Toolset	Planning and Assessment	Current State Grant	Targeting Implementation in the Blue Earth & Le Sueur Waters..	\$6,000.00			N
5. Final Report & Training	Planning and Assessment	Current State Grant	Targeting Implementation in the Blue Earth & Le Sueur Waters..	\$14,500.00			N
6. Admin	Administration /Coordination	Current State Grant	Targeting Implementation in the Blue Earth & Le Sueur Waters..	\$0.00			N
6. Admin	Administration /Coordination	Local Fund	Admin & Coordination	\$1,500.00	\$3,610.64	12/30/2016	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
306M - LIDAR Derived Product(s)	13	0	1488000 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 - 1. Develop Hydrologically Modified DEM

Description	<p>Contractor will develop a hydro modified DEM in the Blue Earth and Le Sueur Watersheds. This activity includes: 1) Digitization of subsurface drainage features (culverts, bridges) as determined by available GIS data to be used as breach lines on 1281 sq mi. Data will be attributed documenting the decision for the breach line and type. Local opinion and/or field verification will be incorporated. This may involve both GIS and field work verifying data for accuracy. Based on previous work there is an estimated 15-20 breach lines/sq mi. 2) Define non-contributing areas for development of BMP targeting tools on 1715 sq mi. 3) Utilize modified DEM to develop hydrographic characteristics at a field scale. 4) Incorporate existing breach lines on 1044 sq mi. Close to half of these will run through one pass of quality control checks by the contractor. All will utilize local opinion and/or field verification if that has not been completed. All datasets will be provided in an ESRI geodatabase format utilizing draft state developed standards and terminology.</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 RFQ document was developed and 2 bids were received. A contract with Widseth, Smith, & Nolting (WSN, "Contractor") out of Alexandria, MN was adopted to complete the work.</p> <p>About 10% of breachlines in both BE and LeS watersheds have been identified. A more thorough progress report will be attached.</p> <p>3 payments to Contractor = \$9,720.00. In-kind from pictometry = \$38,738.22 (\$21,858.75-Faribault Co.; \$16,879.47-Martin Co.)</p>		

Activity Action - 1. Develop Hydrologically Modified DEM			
Practice	306M - LIDAR Derived Product(s)	Count of Activities	4
Description	1. Digitize breach lines, 2. Define non-contributing areas, 3. Develop hydrographic characteristics, 4. QC breach lines.		
Proposed Size / Units	1,488,000.00 AC	Lifespan	In Perpetuity
Actual Size/Units	AC	Installed Date	
Mapped Activities	No		

Grant Activity - 2. Develop Hydrology & Water Quality GIS Datasets			
Description	Contractor will utilize deliverables from Activity 1 and generate additional hydrology and water quality data products on 2325 sq mi that include: time of concentration raster, SPI, RUSLE, CTI, field scale catchment ranking, overland flow path ranking, TP & TN loading, and ranked catchments. These datasets are necessary to run PTMApp. All datasets will be provided in an ESRI geodatabase format.		
Category	INVENTORY/MAPPING		
Start Date	8-Mar-16	End Date	
Has Rates and Hours?	No		
Actual Results	<p>March - December 2016</p> <p>No activity has been completed to date. Work on this activity won't begin until the DEM conditioning is nearly completed; expected in 2017.</p>		

Activity Action - 2. Develop Hydrology & Water Quality GIS Datasets			
Practice	306M - LIDAR Derived Product(s)	Count of Activities	9
Description	Time of concentration raster, SPI, RUSLE, CTI, field scale catchment ranking, overland flow path ranking, TP, TN loading, ranked catchments.		
Proposed Size / Units	1,488,000.00 AC	Lifespan	In Perpetuity
Actual Size/Units	AC	Installed Date	
Mapped Activities	No		

Grant Activity - 3. Target Sources & BMP Suitability Analysis

Description	With support from contractor, TSA GIS Tech will conduct an analysis utilizing PTMApp that identifies where different types of BMPs and conservation practices could be placed on the landscape at field scales. Data will be created on 2325 sq mi and deliverables include GIS data sets with locations where storage, filtration, bio-filtration, infiltration, protection, and impairment source reduction BMPs could be placed on the landscape.		
Category	PLANNING AND ASSESSMENT		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	<p>March - December 2016</p> <p>No activity has been completed to date. Work on this activity won't begin until the DEM conditioning is nearly completed; expected in 2017.</p>		

Grant Activity - 4. Measure BMP Effectiveness & ACPF Toolset

Description	TSA GIS Tech will conduct an analysis utilizing PTMApp to measure the TN, TP, and sediment load reductions provided by the BMPs identified in Activity 3. Next the treatment costs will be estimated based on the measured load reductions and the cost of the practice. ACPF toolset will also be run to identify candidate locations for different types of BMPs within or below fields. Upgrades in software are necessary for this toolset. The geographic extent of this analysis will be performed on 1 HUC12 subwatershed per county. The tools can be utilized as part of a collaborative planning effort including local technical staff and landowners with knowledge of the watershed. Data created will provide the basis for developing targeted implementation strategies within a priority subwatershed and using this data to work with landowners on implementation.		
Category	PLANNING AND ASSESSMENT		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	<p>March - December 2016</p> <p>No activity has been completed to date. Work on this activity won't begin until the DEM conditioning is nearly completed; expected in 2017.</p>		

Grant Activity - 5. Final Report & Training

Description	Upon completion of Activity 1 & 2, contractor will create a report that documents methodology, data content documentation, and metadata of deliverables. Contractor will provide training to local LGUs and TSA GIS Tech to introduce them to the data and PTMApp. Contractor will provide additional training and support as needed. TSA GIS Tech will ensure all datasets are available to LGUs and will provide local technical assistance in understanding and utilizing data at the local level.		
Category	PLANNING AND ASSESSMENT		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	March - December 2016 No activity. Work is on schedule.		

Grant Activity - 6. Admin

Description	GBERBA will serve as fiscal agent. Faribault SWCD will act as lead for creation of a GIS subcommittee, workplan creation, annual reporting, seeking and reviewing best value quotes, direct contact with contractor, and coordination across county lines.		
Category	ADMINISTRATION/COORDINATION		
Start Date	8-Mar-16	End Date	
Has Rates and Hours?	No		
Actual Results	March - December 2016. GBERBA Coordinators and Faribault SWCD staff have contributed time developing the RFQ documents and soliciting/vetting contractors. Faribault SWCD In-kind contribution: \$1,795.64 GBERBA In-kind contribution: \$1,815.00 TOTAL: \$3,610.64		

Grant Attachments

Document Name	Document Type	Description
2016 - Annual Progress Report	Grant	Targeting Implementation in the Blue Earth & Le Sueur Watersheds
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
AIG Proposal Map	Grant	Targeting Implementation in the Blue Earth & Le Sueur Watersheds
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/16/2017
Application	Workflow Generated	Workflow Generated - Application - 08/28/2015
Blue Earth & Le Sueur Impaired Waters Map	Grant	Targeting Implementation in the Blue Earth & Le Sueur Watersheds
Blue Earth and Le Sueur Watershed area for culvert inventory	Grant	Targeting Implementation in the Blue Earth & Le Sueur Watersheds
Match Expenditure Email	Journal	Journal Dated - 07/21/2016
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/16/2015
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/19/2016
grantmap_14428_2015-08-25_10-16-48-AM.jpg	Grant	Targeting Implementation in the Blue Earth & Le Sueur Watersheds