

Grant All-Detail Report Accelerated Implementation Grant 2017

Grant Title - Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration **Grant ID** - C17-6916 **Organization -** Nobles SWCD

Original Awarded Amount	\$102,500.00	Grant Execution Date	3/30/2017
Required Match Amount	\$25,625.00	Original Grant End Date	12/31/2019
Required Match %	25%	Grant Day To Day Contact	John Shea
Current Awarded Amount	\$102,500.00	Current End Date	12/31/2019

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$102,500.00	\$96,301.98	\$6,198.02
Total Match Amount	\$26,500.00	\$10,000.00	\$16,500.00
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$129,000.00	\$106,301.98	\$22,698.02

^{*}Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

						Last	
	Activity					Transaction	Matching
Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Date	Fund
Administration, Coordination and	Administration	Current	Missouri River Basin Hydro	\$0.00			N
Grant Reporting	/Coordination	State Grant	Conditioning, BMP Targeting				
			Analy				
Administration, Coordination and	Administration	Local Fund	Funds will be provided from in	\$5,000.00			Υ
Grant Reporting	/Coordination		kind hours from participating				
			organizations in the grant.				

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	A calindan					Last Transaction	Matching
Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Date	Fund
Hydrologic Conditioning	Inventory/Map ping	Current State Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analy	\$78,500.00	\$78,319.48	6/26/2018	N
Hydrologic Conditioning	Inventory/Map ping	Local Fund	partner cash match	\$10,000.00	\$10,000.00	2/23/2018	Y
Prepare Final Report and Instructional Workshop	Education/Info rmation	Current State Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analy	\$6,000.00			N
Prepare Inputs and Run PTMApp Analysis	Planning and Assessment	Current State Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analy	\$18,000.00	\$17,982.50	8/24/2018	N
Review and Verification	Project Development	Current State Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analy	\$0.00			N
Review and Verification	Project Development	Local Fund	Funds will be provided as in kind hours by participating organizations in the grant.	\$11,500.00			Υ

Activity Details Summary

Activity Details Total Action Count Total Activity Mapped Proposed Size / Unit Actual Size / Unit

Proposed Activity Indicators

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Activity Name	Indicator Name	Value & Units	waterboov	Calculation Tool	Comments
				301100110101111001	

Final Indicators Summary

Indicator Name	Total Value	Unit	

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Grant Activity

Grant Activity - Administration, Coordination and Grant Reporting			
Description	Nobles County SWCD will serve as the primary agency for the management of grant funds and coordination of project activities. This activity includes administration, coordination, facilitation and contracting for technical assistance with Houston Engineering for the remaining tasks. In-Kind of approximately 150 Hrs@ \$33.83= \$5,074.50		
Category	ADMINISTRATION/COORDINATION		
Start Date	31-Mar-17	End Date	
Has Rates and Hours?	Yes		
Actual Results	No Local funds have been spent as of 12/31/1	7.	

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Grant Activity - Hydrologic Cond	oning
Description	Houston Engineering will complete intensive hydrologic conditioning for approximately 1,000 square miles in the Missouri River Basin. This area includes portions of Upper Big Sioux River, Lower Sioux River, Kanaranzi Creek, Little Rock River watersheds. Previously hydro conditioned watersheds within the Missouri River Basin will be incorporated into the new DEM and the result will produce a hydrologic condition DEM for the 1W1P Missouri River Basin boundary. The hydrologically conditioned DEM (hDEM) will be used for local planning to delinate watersheds, flow paths and other derived products. The hDEM will also be one of the primary inputs into the PTMApp analysis task. The hDEM is a fundamental building block towards accelerating the planning and targeting of BMPs in the watershed. The estimated cost of the Hydro Conditioning is \$88,500.00 so the partners involved are using a cash match to meet the needs of the engineer. \$10,000.00 break down Lincoln county has 8.4% of intensive hydrologic conditioning needed in county = \$840.00 Pipestone county has 27.4% of intensive hydrologic conditioning in county = \$2,740.00 Rock county has 2% of intensive hydrologic conditioning in county = \$4,140.00 Jackson county has 20.8% of intensive hydrologic conditioning in county = \$2,080.00
Category	INVENTORY/MAPPING
Start Date	31-Mar-17 End Date
Has Rates and Hours?	No
Actual Results	Houston Eng Worked with staff on the following: May 22, 2017 - Project Kick-Off meetings, Gathered and assembled data for hydro conditioning and began the hydro conditioning process. July 6, 2017 - Hydro conditioning was performed by Houston Eng. Staff August 8, 2017 - Hydro Conditioning was performed by Houston Eng. Staff September 19, 2017 - Hydro conditioning was performed and Houston Eng. Staff began to prepare PTMApp Inputs. November 2, 2017 - The Draft of the Hydrocondition DEM was created and

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November 29, 2017 HEI is 90% complete on the hydro conditioning task of the project. This including making three passes of digitizing burnlines to accurately depict the overland flow of water. This burnlines were then incorporated into a DEM to create a hydroconditioned DEM. From the DEM HEI derived draft catchments that were then used to conduct a quality control review of the hydro condition DEM. HEI anticipates finalizing the hydrocondition DEM to reflect the work along the State boundary in January.
Invoices were sent out for the cash match January 2018. 2/23/18 Cash match was used as Hydro Conditioning was finalized around the state boundaries. PTMApp Inputs were also prepared.

Grant Activity - Prepare Final Report and Instructional Workshop				
Description		tion of methods and deliverables.	d DEM and PTMApp analysis results and DEM and PTMApp analysis results and Houston Engineering will provide and SWCD and WD project partners.	·
Category	EDUCATION/INFORMATION			
Start Date	31-Mar-17	End Date		
Has Rates and Hours?	Yes			
Actual Results	Final report has not been started 12 final report has not been started 12			

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Grant Activity - Prepare Inputs a	nd Run PTMApp Analysis			
Description	Houston Engineering will work with project partners to gather and prepare the required inputs for PTMApp. This includes priority resource points, project boundary, travel time grids and other basemap GIS data. Once the hydrologic condition DEM and PTMApp inputs are completed then PTMApp will be ran to produce final datasets. The final data products and analysis will be used to accelerate the 1W1P process and for local parts to use the data to assist in BMP targeting and planning activities. It is envisioned the PTMApp analysis will be performed in conjunction with the 1W1P plan development to assist with producing a targeted implementation plan.			
Category	PLANNING AND ASSESSMENT			
Start Date	1-Jul-17	End Date		
Has Rates and Hours?	No			
Actual Results	November 29, 2017 Currently HEI is working on fine tuning the bur aggregate nitrogen, phosphorus and sediment with project partners to describe the challenge the state. HEI has also begin created input darpartners to create the priority resource point 2/23/2018 - Hydro conditioning was complete 8/24/18 - PTMApp process and QC outputs	t loads when using the data for PTMApp a es along the state boundaries with small o tasets that are need for PTMApp tool. Th layer.	inalysis. This involved a conference call direct drainages that go in or out of is included working with the local	

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Grant Activity - Review and	Verification
Description	Nobles County SWCD and partners for this project will provide provide existing inventory data such as culvert inventories, aerial photos, ditches and other GIS data to support the hydrologic conditioning tasks. Upon completion of the hydrologic conditioning local SWCD and WD staff members will review the hydrologic conditioned DEM and provide comments back to Houston Engineering. Project partners will also supply information to Houston Engineering to develop the data inputs to PTMApp and review the PTMApp results. In- Kind Staff time of approximately 230 Hrs at an estimated \$50.00 = \$11,500.00
Category	PROJECT DEVELOPMENT
Start Date	31-Mar-17 End Date
Has Rates and Hours?	Yes
Actual Results	No Funds have been spent as of 12/31/17 No Funds have been spent as of 12/31/18

Grant Attachments

Document Name	Document Type	Description
2017 Competitive Grant	Grant Agreement	2017 Competitive Grant - Nobles SWCD
2017 Competitive Grant executed	Grant Agreement	2017 Competitive Grant - Nobles SWCD
40% Payment Notice	Journal	Journal Dated - 12/01/2017
AIG INV - 0038040	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and
		1W1P Acceleration
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 10/16/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/11/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/05/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/09/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/25/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/01/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/01/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/27/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/19/2019
Application	Workflow Generated	Workflow Generated - Application - 08/08/2016

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Document Name	Document Type	Description
C17-6916 Checklist	Journal	Journal Dated - 11/30/2017
Financial Report - 50% Spent	Progress	Progress Dated - 10/16/2017
Houston Eng. INV: 0037284	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
INV 0038327	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
INV 0040187	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
INV 034643 - Houston Eng	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
INV 35140 Houston Eng.	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
INV: 0039410	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
Inv 0036223 Houston Eng.	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
Inv. 0038679	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
Inv: 0036730 Houston Eng.	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
Inv: 35642 Houston Eng.	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
Missouri River Basin Hydro Conditioning Map	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and 1W1P Acceleration
Nobles SWCD CY2017 ELink Repoting Needs	Journal	Journal Dated - 02/09/2018
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/15/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/14/2016
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/15/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/10/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/09/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/03/2017

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Document Name	Document Type	Description
grantmap_17064_2016-08-05_05-42-47-PM.jpg	Grant	Missouri River Basin Hydro Conditioning, BMP Targeting Analysis and
		1W1P Acceleration

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