



Grant All-Detail Report

2013 - Conservation Drainage Management Grants

Grant Title - 2013 - Conservation Drainage Management Grants - Rock (SWCD)

Grant ID - C13-6372

Organization - Rock SWCD

Grant Awarded Amount	\$63,775.00	Grant Execution Date	
Required Match Amount	\$15,943.75	Grant End Date	1/1/2020
Required Match %	25%	Grant Day To Day Contact	

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$63,775.00	\$20,883.32	\$42,891.68
Total Match Amount	\$75,838.49	\$28,363.58	\$47,474.91
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$139,613.49	\$49,246.90	\$90,366.59

**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
Conservation Drainage Place Holder Projects	Conservation Drainage	Current State Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)	\$17,354.09			N
Conservation Drainage Place Holder Projects	Conservation Drainage	Federal Funds	2013 EQIP	\$29,244.90			Y
Conservation Drainage Place Holder Projects	Conservation Drainage	Landowner Fund	2013 CWF Landowner Costs	\$9,000.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
FY13 CDMG Administration / Coordination	Administration /Coordination	Current State Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)	\$1,400.00	\$1,400.00	12/31/2015	N
FY13 CDMG Administration / Coordination	Administration /Coordination	Local Fund	FY13 Conservation Drainage Mgmt. Grant Match Fund	\$378.30	\$378.30	12/31/2015	Y
FY13 CWCDMG Design & establishment of 4 drainage demonstration sites	Technical/Engineering Assistance	Current State Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)	\$5,025.00	\$2,551.00	11/19/2013	N
FY13 CWCDMG Design & establishment of 4 drainage demonstration sites	Technical/Engineering Assistance	Local Fund	FY13 Conservation Drainage Mgmt. Grant Match Fund	\$12,000.00	\$10,055.69	12/31/2014	Y
FY13 CWCDMG Develop and Target Protocols	Project Development	Current State Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)	\$11,700.00	\$17.44	10/21/2013	N
FY13 CWCDMG Develop and Target Protocols	Project Development	Local Fund	FY13 Conservation Drainage Mgmt. Grant Match Fund	\$4,800.00			Y
FY13 CWCDMG Organize & facilitate farmer lead working groups	Project Development	Current State Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)	\$3,450.00			N
FY13 CWCDMG Organize & facilitate farmer lead working groups	Project Development	Local Fund	FY13 Conservation Drainage Mgmt. Grant Match Fund	\$1,400.00	\$114.30	10/21/2013	Y
FY13 CWCDMG Workshops & Field Days	Project Development	Current State Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)	\$10,200.00	\$2,268.97	10/21/2013	N
FY13 CWCDMG Workshops & Field Days	Project Development	Local Fund	FY13 Conservation Drainage Mgmt. Grant Match Fund	\$6,200.00	\$5,000.00	12/31/2013	Y
Paul Arends Conservation Drainage Project	Conservation Drainage	Current State Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)	\$14,645.91	\$14,645.91	11/18/2013	N
Paul Arends Conservation Drainage Project	Conservation Drainage	Federal Funds	2013 EQIP	\$9,815.29	\$9,815.29	11/18/2013	Y
Paul Arends Conservation Drainage Project	Conservation Drainage	Landowner Fund	2013 CWF Landowner Costs	\$3,000.00	\$3,000.00	11/18/2013	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
747 - Denitrifying Bioreactor	2	0	0 COUNT	1 COUNT
747 - Denitrifying Bioreactor	1	1	1 COUNT	1 COUNT
747 - Denitrifying Bioreactor	0	0	0 COUNT	0 COUNT

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
PATHOGENS (E. COLI)	165.00	CFU
NUTRIENTS (NITRATE)	666.00	LBS/YR
PHOSPHORUS (EST. REDUCTION)	90.00	LBS/YR

Grant Activity

Grant Activity - Conservation Drainage Place Holder Projects

Description	Design and establish up to 3 controlled drainage demonstration sites on existing pattern tiled or intensively tiled crop fields utilizing wood chip bioreactors, saturated buffers, and water control structures.		
Category	CONSERVATION DRAINAGE		
Start Date	1-Apr-13	End Date	31-Dec-15
Has Rates and Hours?	No		
Actual Results	<p>2013: Established a controlled drainage demonstration site in Section 6 of Magnolia Township. This consisted of a 4-section control structure to allow water monitoring and a wood chip bioreactor with sampling access points to allow water monitoring.</p> <p>2014 and 2015: No additional sites were constructed due to lack of producer interest.</p>		

Activity Action - Legacy Migrated Data

Practice	747 - Denitrifying Bioreactor	Count of Activities	0
Description			
Proposed Size / Units	0.00 COUNT	Lifespan	10 Years
Actual Size/Units	0.00 COUNT	Installed Date	

Activity Action - Legacy Migrated Data

Practice	747 - Denitrifying Bioreactor	Count of Activities	1
Description	Exact location to be determined		
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	1.00 COUNT	Installed Date	

Final Indicator for Legacy Migrated Data

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	30
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Unknown
Waterbody			

Final Indicator for Legacy Migrated Data

Indicator Name	PATHOGENS (E. COLI)	Value	55
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Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Unknown
Waterbody			
Final Indicator for Legacy Migrated Data			
Indicator Name	NUTRIENTS (NITRATE)	Value	222
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Unknown
Waterbody			

Activity Action - Legacy Migrated Data			
Practice	747 - Denitrifying Bioreactor	Count of Activities	1
Description	Exact location to be determined		
Proposed Size / Units	COUNT	Lifespan	15 Years
Actual Size/Units	1.00 COUNT	Installed Date	

Final Indicator for Legacy Migrated Data			
Indicator Name	NUTRIENTS (NITRATE)	Value	222
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Unknown
Waterbody			

Final Indicator for Legacy Migrated Data			
Indicator Name	PATHOGENS (E. COLI)	Value	55
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Unknown
Waterbody			

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	30
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Unknown
Waterbody			

Grant Activity - FY13 CDMG Administration / Coordination

Description	Staff from Rock SWCD (Douglas Bos, Denise Severtson and Mary Thompson) will be responsible for the administration and coordination of this grant. Douglas Bos will be the lead person to facilitate the project with coordination and planning provided by Mark Dittrich, MDA. The Rock River Watershed's environmental and SWCD offices of Pipestone, Murray, Rock, and Nobles Counties will provide technical and advisory support for the planning and promotion of the field days. Denise Severtson and Mary Thompson will be responsible for all Elink, website, and final reporting documents for the project. Rock SWCD will work with the landowner involved in the project and setup up the landowner contracts.		
Category	ADMINISTRATION/COORDINATION		
Start Date	1-Apr-13	End Date	31-Dec-15
Has Rates and Hours?	No		
Actual Results	<p>2013:</p> <p>Staff member Bos worked with Nobles, Murray and Pipestone counties to locate locations to install a conservation drainage management project within each of their counties. Bos was also the lead person working with Mark Dittrich from MDA with each of these potential projects along with the project in Rock County that was installed in 2013. Bos planned, promoted and facilitated the Field day that took place on 9-5-2013 for the Rock County project. Bos worked with the Rock County producer to get all details figured out for the Rock County Site. Staff Severtson worked on the financials for the Rock County project along with all reporting that was done for this grant thus far.</p> <p>2014 and 2015:</p> <p>Staff actively pursued potential controlled drainage sites in the Rock River Watershed. Four potential sites were identified and investigated but the producers decided not to pursue the projects.</p>		

Grant Activity - FY13 CWCDMG Design & establishment of 4 drainage demonstration sites

Description	Design and establish up to 4 controlled drainage demonstration sites on existing pattern tiled or intensively tiled crop fields utilizing woodchip bioreactors, saturated buffers and water control structures. The Southwest Prairie TSA Engineer, Russell Hoogendoorn will be designing these structures and will provide the technical sign off on these projects. These structures are designed according to NRCS practice standards. They will be drainage demonstration sites to encourage and allow farmers to see first hand how they could fit these into their own operations.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-13	End Date	31-Dec-15
Has Rates and Hours?	No		
Actual Results	<p>2013: Paid the Southwest Prairie TSA for the design, installation, & check out of the Paul Arends conservation drainage management project.</p> <p>2014 and 2015: Actively pursued additional sites for a control structure and bioreactor installation.</p>		

Grant Activity - FY13 CWCDMG Develop and Target Protocols

Description	Develop and target protocol to implement user friendly yardsticks (taking working groups and developing where these practices will best fit both environmentally and practically) on most vulnerable landscapes. Yardsticks will be based upon field measurements and seasonal observations of drainage intensity, water availability, soil and plant growth/stress. This information matrix will support multipurpose drainage education and outreach, assist with conservation rationale for targeting resources. This initiative does not include construction activities. Dollars were inadvertently listed on the grant as Construction.		
Category	PROJECT DEVELOPMENT		
Start Date	1-Apr-13	End Date	31-Dec-15
Has Rates and Hours?	No		
Actual Results	2014: Paid Busse Plumbing & Heating for access points that were installed in order to take water samples from the Arends Conservation Drainage Management Project. 2015: No further development of protocols were developed due to lack of producer interest.		

Grant Activity - FY13 CWCDMG Organize & facilitate farmer lead working groups

Description	Organize and facilitate farmer lead working groups involving agency staff, tiling contractors, and University research staff to engage and review region specific data for implementation of multipurpose drainage for SW Minnesota. This initiative does not include construction activities. Dollars were inadvertently listed on the grant as Construction.		
Category	PROJECT DEVELOPMENT		
Start Date	1-Apr-13	End Date	31-Dec-15
Has Rates and Hours?	No		
Actual Results	<p>9/18/2013: Held a farmer led working group meeting to discuss benefits of bioreactors and potential future projects.</p> <p>2014 and 2015: Due to lack of producer interest no further meetings have been held.</p>		

Grant Activity - FY13 CWCDMG Workshops & Field Days

Description	Plan, promote and facilitate one workshop, and two field days to educate and demonstrate the benefits of multipurpose drainage to area producers, crop consultants, tiling contractors and area conservation staff. This initiative does not include construction activities. Dollars were inadvertently listed on the grant as Construction.		
Category	PROJECT DEVELOPMENT		
Start Date	1-Apr-13	End Date	31-Dec-15
Has Rates and Hours?	No		
Actual Results	<p>9-5-2013: A successful Conservation Drainage Management Workshop and Field day, with 105 attending, was held in Luverne with the Arends Project. Such expenses included: printing costs, postage, supplies, transportation, advertising, meeting facility rent and meal.</p> <p>2014 and 2015: No additional workshop and field days were held due lack of additional sites to showcase.</p>		

Grant Activity - Paul Arends Conservation Drainage Project

Description	Design and build a controlled drainage demonstration site on existing pattern tiled or intensively tile crop field utilizing wood chip bioreactor, and water control structures		
Category	CONSERVATION DRAINAGE		
Start Date	15-Jul-13	End Date	18-Nov-13
Has Rates and Hours?	No		
Actual Results	Cumulative shifts in spending from originally approved budgeted activity category amounts up to 20% not exceeding \$10,000, can be approved by the Grantee. Project received more money in the amount of \$ 2,210.46 or 18%. The construction of the denitrifying woodchip bioreactor was completed on 9-9-2013. The dimension of the finished bioreactor is 30' wide by 80' long by 4' deep. The layout of the bioreactor was altered to avoid utility lines in the area.		

Activity Action - Legacy Migrated Data

Practice Description	747 - Denitrifying Bioreactor	Count of Activities	1
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	18-Nov-13

Final Indicator for Legacy Migrated Data

Indicator Name	NUTRIENTS (NITRATE)	Value	222
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Unknown
Waterbody			

Final Indicator for Legacy Migrated Data

Indicator Name	PATHOGENS (E. COLI)	Value	55
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Unknown
Waterbody			

Final Indicator for Legacy Migrated Data

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	30
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Unknown
Waterbody			

Grant Attachments

Document Name	Document Type	Description
2013 CDWM Grant 3232016 notes	Journal	Journal Dated - 03/23/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/12/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/25/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/22/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/27/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/23/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/23/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/21/2016
Disbursement Log	Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)
Final Financial	Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)
Final Financial Report	Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)
Record of Payment to Landowners	Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)
Reporting extension	Journal	Journal Dated - 01/29/2016
Rock FY13 App. budget page.pdf	Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)
grant_app_general-added.rpt	Grant	2013 - Conservation Drainage Management Grants - Rock (SWCD)
reporting email	Journal	Journal Dated - 02/12/2014