2011 - Clean Water Assistance - Murray (COUNTY)

Fund Report

Murray COUNTY

Fund Information

Fund Name	Fund Year	Budgeted	Spent	Date Last Spent
2011 - Clean Water Assistance - Murray (COUNTY)	2011	$83,064.00	$0.00	02/16/2011
Starting Balance: $83,064.00				
Balance Remaining: $83,064.00				
Other funds used with this fund.				
Jackson County SWCD Inkind	2011	$3,890.00	$0.00	
Cottonwood County SWCD Inkind	2011	$800.00	$0.00	
Murray County Local Government Match	2011	$7,750.00	$0.00	
Murray County Local Landowner Match	2011	$9,000.00	$0.00	
City of Windom Tree Commission Match	2011	$200.00	$0.00	
City of Jackson Inkind Match	2011	$1,360.00	$0.00	
Rural Electric Association Cash Match	2011	$3,200.00	$0.00	
	Subtotal:	$26,200.00	$0.00	
	Total:	**$109,264.00**	**$0.00**	

Initiatives Summary

Amount spent by initiative type.

2011 - Clean Water Assistance - Murray (COUNTY)

	Budgeted	Spent
Admin/Coordination	$4,153.00	$0.00
Technical and Engineering	$1,130.00	$0.00
Total:	**$5,283.00**	**$0.00**

Land & Water Projects Summary

Amount spent on L&W Projects.

	Budgeted	Spent
Total:	**$77,781.00**	**$0.00**

BMP Summary

BMP Name	BMPs entered	BMPs installed*	Linear Ft.	Total Acres	Mapped BMPs
Structure for Water Control - 587	1	0			1
Water and Sediment Control Basin - 638	3	0			3
Totals:	**4**	**0**			**4**

**Note: BMPs entered in eLINK are considered to be "installed on the ground" if an "actual completion date" has been entered for the project.*

Indicator Summary

Total pollution reduction estimates for all projects by category.

	Value	Unit
-Water Pollution (Reduction Estimates)		
Phosphorus (est. reduction)	287.64	Lbs/Yr
Sediment (TSS)	199.33	Tons/Yr
Soil (est. savings)	198.79	Tons/Yr

Initiative: 2011 Admin/Coordination Jackson~Cottonwood~Murray West Fork Des Moines River BMP Project

Year: 2011

Start Date: 01/01/2011

Initiative Type: Admin/Coordination

Completion Date:

Description

Construct sediment reduction projects that include a structure enhancement in Cottonwood County, a bio swale and sediment control structure in Jackson County, and a retention structure in Murray County. These four practices will help eliminate sediment reaching the Des Moines River. The Murray County Water Resouces Administrator will administer the 2011 CWF Jackson~Cottonwood~Murray West Fork Des Moines River BMP Project Grant. Administation will include all e-link, website, fiscal management, and all reporting documents as required by BWSR. Murray County will have the responsibility to approve all expenditure of funds and approve or deny projects and expenditure of funds. The County Auditor will document the funding of projects in the County Board minutes.

FUND(s)

		Budgeted	*Spent*	*Date Last Spent*
1. 2011 - Clean Water Assistance - Murray (COUNTY)		4,153.00	0.00	
	Totals:	**4,153.00**	**0.00**	

List of Attached Files (click to view)	*Document Description*	*Date Added*
1. J-C-M - Narrative Final.docx		2/8/11
2. All Counties Map.jpg		2/8/11
3. Des Moines 2011 CWF Proposal and Budget.		2/8/11
4. J-C-M - Narrative Final.docx		2/8/11
5. All Counties Map.jpg		2/8/11
6. Des Moines 2011 CWF Proposal and Budget.		2/8/11

Initiative: 2011 Technical Assistance Jackson~Cottonwood~Murray West Fork Des Moines River BMP Project

Year: 2011

Start Date: 01/01/2011

Initiative Type: Technical and Engineering

Completion Date:

Description

Provide technical assistance to the four projects - CWF 2011-001, CWF 2011-002, CWF 2011-003, and CWF 2011-004.

Project CWF 2011-001, Murray County Water Resources Administrator and the Murray County SWCD Staff will provide technical assistance for obtaining landowner contact, securing easement, be liason between local landowner and Wenck Engineering-Professional Engineering, advertising and approving bids, project oversight. Wenck Engineering-P.E. will provide technincal signoff on the project.

CWF 2011-002 Jackson SWCD technical staff (Brian Nyborg) will assist technical service area 5 with landowner contact, fieldwork, design. TSA engineer/P.E. will provide final design and certification of the project.

CWF 2-11-003 Jackson SWCD technical staff (Brian Nyborg) will assist technical service area 5 with landowner contact, fieldwork, design. TSA engineer/P.E. will provide final design and certification of the project.

CWF 2011-004 Cottonwood SWCD technical staff (Dave Bucklin) with assist landowner contact, project design, and project certification.

All technical approval authority documentation is available upon request.

FUND(s)

	Budgeted	*Spent*	*Date Last Spent*
1. Jackson County SWCD Inkind	3,890.00	0.00	
2. 2011 - Clean Water Assistance - Murray (COUNTY)	1,130.00	0.00	
3. Cottonwood County SWCD Inkind	800.00	0.00	
4. Murray County Local Government Match	7,750.00	0.00	
Totals:	**13,570.00**	**0.00**	

Project: 2011 CWF 2011-001 Jackson~Cottonwood~Murray West Fork Des Moines River BMP Project

Project Number: CWF 2011-001
Primary Cooperator: Murray County/ Steinman - Murray County Roger Steinman
Primary Practice: Stormwater Practices

Approval Date: 1/1/2011
Start Date: 01/01/2011
Completion Date:

Description

Construct a retention structure in Murray County. This will help eliminate sediment reaching the Des Moines River.

As stated in the Murray County CWMP
- Priority Concern C. Stormwater Retention, Goal C., Prevent soil erosion through comprehensive drainage management, with a priority for the Beaver Creek and Heron Lake watersheds.

The Des Moines River is of significance at all levels. It is locally important to the citizens who live near the river, as well as the citizens who live in the communities this river intersects. We all see the impacts of flooding in the spring as well as sediment delivery to the river from streams and ditches. The watershed encompasses portions of Cottonwood, Jackson, Martin, Murray, Nobles, Pipestone, and Lyon counties in Southwestern Minnesota. It is one of Minnesota's ten major drainage basins.

The Steinman sediment control structure will capture nutrients and not allow them to enter the Beaver Creek Watershed which is at the top of the Des Moines River watershed.

The Steinman sediment control project will hold back storm water, allow sediment to settle out of the water, and allow the storm water to recharge the groundwater prior to being released.

The Beaver Creek Clean Water Partnership and Murray County SWCD will give a tour of the completed Steinman site as well as other potential sites that would be suitable for a sediment control structure.

The Steinman Sediment Control Structure, located in Murray County, will allow ground water to be recharged and maintain a more stable ground water source.

BMP(s)

1. Water and Sediment Control Basin-638 — *Mapped* = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)

Phosphorus (est. reduction)	272.10	Lbs/Yr
Sediment (TSS)	185.62	Tons/Yr
Soil (est. savings)	185.62	Tons/Yr

FUND(s)

	Budgeted	*Spent*	*Date Last Spent*
1. 2011 - Clean Water Assistance - Murray (COUNTY)	50,250.00	0.00	2/16/11
2. Murray County Local Landowner Match	9,000.00	0.00	
Totals:	**59,250.00**	**0.00**	

Project: 2011 CWF 2011-002 Jackson~Cottonwood~Murray West Fork Des Moines River BMP Project

Project Number: CWF 2011-002
Primary Cooperator: REA - Federated Rural Electric Association
Primary Practice: Stormwater Practices

Approval Date: 1/1/2011
Start Date: 01/01/2011
Completion Date:

Description

Construct a water and sediment control structure in Jackson County.

In the Jackson and Cottonwood Counties Comprehensive Water Management Plan - Priority Concern 1 is to Improve Surface Water Quality.
As stated in the Jackson County CWMP
- Holding water on the landscape can then filter contaminants naturally.

The Des Moines River is of significance at all levels. It is locally important to the citizens who live near the river, as well as the citizens who live in the communities this river intersects. We all see the impacts of flooding in the spring as well as sediment delivery to the river from streams and ditches. The watershed encompasses portions of Cottonwood, Jackson, Martin, Murray, Nobles, Pipestone, and Lyon counties in Southwestern Minnesota. It is one of Minnesota's ten major drainage basins.

The Rural Electric Association (REA) project will eliminate the active gully erosion, reduce sediment delivery, provide storm water storage, and decrease storm water discharge to the Des Moines River. It will also serve as a pilot for others in demonstrating the effectiveness of urban stormwater control in a rural setting.

The REA project, built with the capacity to store a 10 year 24 hour storm event, will remove suspended solids and slowly discharge that storm water over time. The outcome will be a significant decrease in sediment and energy in the discharge water, eliminating active gully erosion that is occuring.

BMP(s)

1. Water and Sediment Control Basin-638 — *Mapped* = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)

Phosphorus (est. reduction)	11.95	Lbs/Yr
Sediment (TSS)	11.56	Tons/Yr
Soil (est. savings)	11.17	Tons/Yr

FUND(s)

	Budgeted	*Spent*	*Date Last Spent*
1. 2011 - Clean Water Assistance - Murray (COUNTY)	19,413.00	0.00	
2. Rural Electric Association Cash Match	3,200.00	0.00	
Totals:	**22,613.00**	**0.00**	

Project: 2011 CWF 2011-003 Jackson~Cottonwood~Murray West Fork Des Moines River BMP Project

Project Number: CWF 2011-003
Primary Cooperator: City of Jackson - City of Jackson Public Works
Primary Practice: Stormwater Practices

Approval Date: 1/1/2011
Start Date: 01/01/2011
Completion Date:

Description

Construct a bio swale in Jackson County. This practice will help eliminate sediment reaching the Des Moines River.

In the Jackson County Comprehensive Water Management Plan - Priority Concern 1 is to Improve Surface Water Quality.
As stated in the Jackson County CWMP
- Holding water on the landscape can then filter contaminants naturally.

The Des Moines River is of significance at all levels. It is locally important to the citizens who live near the river, as well as the citizens who live in the communities this river intersects. We all see the impacts of flooding in the spring as well as sediment delivery to the river from streams and ditches. The watershed encompasses portions of Cottonwood, Jackson, Martin, Murray, Nobles, Pipestone, and Lyon counties in Southwestern Minnesota. It is one of Minnesota's ten major drainage basins.

Jackson Memorial Park Bio Swale will provide treatment to urban runoff water prior to entering the storm sewer which is a direct conduit to the river. Without this practice in place surface and sheet flow will be channelized and exit the park property as fast as possible causing additional sediment and pollutants to enter the river.

The Jackson Memorial Park bio swale will capture storm water runoff and slowly infiltrate that water through the soil leaving behind sediment within the swale.

The Jackson Memorial Park Bio Swale will serve as a public demonstration site. A kiosk identifying the site as well as its function will be erected adjacent to the project. This site is situated next to the Jackson Dam that is being replaced with a Stepped Rock Riffle Spillway.

Both projects in Jackson County are located above the main aquifer for the city of Jackson.

BMP(s)

1. Water and Sediment Control Basin-638 *Mapped* = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)

Phosphorus (est. reduction)	1.59	Lbs/Yr
Sediment (TSS)	0.05	Tons/Yr

FUND(s)

	Budgeted	*Spent*	*Date Last Spent*
1. City of Jackson Inkind Match	1,360.00	0.00	
2. 2011 - Clean Water Assistance - Murray (COUNTY)	4,808.00	0.00	
Totals:	**6,168.00**	**0.00**	

Project: 2011 CWF 2011-004 Jackson~Cottonwood~Murray West Fork Des Moines River BMP Project

Project Number: CWF 2011-004
Primary Cooperator: City of Windom - City of Windom Tree Commission
Primary Practice: Stormwater Practices

Approval Date: 1/1/2011
Start Date: 01/01/2011
Completion Date:

Description

Construct a sediment reduction project that include a structure enhancement in Cottonwood County. This practice will help eliminate sediment reaching the Des Moines River.

As stated in the Cottonwood County CWMP
- Seek additional funding for water retention structures within the Des Moines River Watershed. Focusing on reducing sedimentation into our river.

The Des Moines River is of significance at all levels. It is locally important to the citizens who live near the river, as well as the citizens who live in the communities this river intersects. We all see the impacts of flooding in the spring as well as sediment delivery to the river from streams and ditches. The watershed encompasses portions of Cottonwood, Jackson, Martin, Murray, Nobles, Pipestone, and Lyon counties in Southwestern Minnesota. It is one of Minnesota's ten major drainage basins.

The Windom Project will enhance an established Sediment and Water Control Structure by providing more infiltration opportunity for the area, in this way keeping more sediment from entering the adjacent Des Moines River.

The City of Windom project will increase infiltration of water thus keeping eliminating sediment from entering the Des Moines River in a residential area of the city.

BMP(s)

1. Structure for Water Control-587 — *Mapped* = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)

Phosphorus (est. reduction)	2.00	Lbs/Yr
Sediment (TSS)	2.10	Tons/Yr
Soil (est. savings)	2.00	Tons/Yr

FUND(s)

	Budgeted	Spent	Date Last Spent
1. City of Windom Tree Commission Match	200.00	0.00	
2. 2011 - Clean Water Assistance - Murray (COUNTY)	3,310.00	0.00	
Totals:	**3,510.00**	**0.00**	

End of 2011 - Clean Water Assistance - Murray (COUNTY) Section

This report can be found in the eLINK Report Manager under Report Type: *Fund Reports*, Reports: *All Details*