



Grant All-Detail Report 2012 - Clean Water Assistance

Grant Title - 2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)

Grant ID - C13-2883

Organization - Middle Fork Crow River WD

Grant Awarded Amount	\$372,125.00	Grant Execution Date	
Required Match Amount	\$93,031.25	Grant End Date	1/1/2020
Required Match %	25%	Grant Day To Day Contact	Margaret Johnson

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$372,005.00	\$305,006.53	\$67,118.47
Total Match Amount	\$169,980.74	\$136,887.93	\$33,092.81
Total Other Funds	\$38,696.00	\$38,696.00	\$0.00
Total	\$580,681.74	\$480,590.46	\$100,211.28

**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
GL - BMP Implementation	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$5,450.01			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
GL - BMP Implementation	Urban Stormwater Management Practices	Landowner Fund	Landowner Match	\$25,648.08			Y
GL - BMP Implementation	Urban Stormwater Management Practices	Local Fund	MFCRWD In-Kind	\$415.00	\$415.00	12/31/2014	Y
GL - City of Spicer Grit Chamber	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$6,738.86	\$6,738.86	9/12/2012	N
GL - City of Spicer Grit Chamber	Urban Stormwater Management Practices	Other State funds not in eLINK	MFCRWD 319 Grant	\$13,200.00	\$13,200.00	9/12/2012	N
GL - GLLM	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$101,851.00	\$61,594.39	12/2/2014	N
GL - GLLM	Urban Stormwater Management Practices	Local Fund	MFCRWD In-kind	\$20.00	\$20.00	12/31/2014	Y
GL - Grant Administration	Administration /Coordination	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)	\$6,375.00	\$6,375.00	12/31/2014	N
GL - Grant Administration	Administration /Coordination	Local Fund	MFCRWD In-Kind	\$2,100.00	\$964.97	12/31/2014	Y
GL - Irving Township Project	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$53,444.31	\$53,444.31	12/3/2013	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
GL - Irving Township Project	Urban Stormwater Management Practices	Landowner Fund	Irving Township	\$13,814.77	\$13,814.77	12/3/2013	Y
GL - Irving Township Project	Urban Stormwater Management Practices	Local Fund	Green Lake Property Owners Association	\$1,000.00	\$1,000.00	12/3/2013	Y
GL - Irving Township Project	Urban Stormwater Management Practices	Other State funds not in eLINK	Kandiyohi County Water Task Force	\$3,000.00	\$3,000.00	12/3/2013	N
GL - Johnson	Agricultural Practices	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$10,769.15	\$10,769.15	12/2/2014	N
GL - Johnson	Agricultural Practices	Landowner Fund	Landowner Match	\$3,173.05	\$3,173.05	12/2/2014	Y
GL - Johnson	Agricultural Practices	Local Fund	MFCRWD inkind	\$1,000.00	\$1,000.00	12/1/2014	Y
GL - Johnson	Agricultural Practices	Other Funds	2014 - State Cost-Share Fund (Kandiyohi SWCD)	\$393.00	\$393.00	1/20/2015	N
GL - Johnson	Agricultural Practices	Other Funds	2015 - State Cost-Share Fund (Kandiyohi SWCD)	\$607.00	\$607.00	1/20/2015	N
GL - Meier Raingarden	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$821.67	\$821.67	12/3/2013	N
GL - Meier Raingarden	Urban Stormwater Management Practices	Landowner Fund	Landowner Match	\$1,095.55	\$1,095.55	10/31/2013	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
GL - Meier Raingarden	Urban Stormwater Management Practices	Other State funds not in eLINK	Kandiyohi SWCD	\$2,465.00	\$2,465.00	12/3/2013	N
GL - NL parking bioswale	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$15,000.00	\$15,000.00	12/2/2014	N
GL - NL parking bioswale	Urban Stormwater Management Practices	Landowner Fund	Landowner Match	\$35,442.00	\$35,442.00	12/2/2014	Y
GL - NL parking bioswale	Urban Stormwater Management Practices	Local Fund	MFCRWD in-kind	\$10,000.00	\$10,000.00	12/2/2014	Y
GL - Project Development	Project Development	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)	\$14,475.00	\$9,780.10	12/31/2014	N
GL - Project Development	Project Development	Local Fund	Green Lake Inlet Partnership	\$3,250.00	\$301.80	12/31/2013	Y
GL - Project Development	Project Development	Local Fund	MFCRWD In-Kind	\$4,500.00	\$3,895.24	12/31/2014	Y
GL - Technical Assistance & Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)	\$37,200.00	\$37,200.00	12/31/2014	N
GL - Technical Assistance & Engineering	Technical/Engineering Assistance	Local Fund	MFCRWD In-Kind	\$6,326.48	\$6,326.48	12/31/2014	Y
SSR - BMP Installation	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)	\$16,686.95	\$120.00	12/31/2012	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSR - BMP Installation	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$2,756.74			Y
SSR - BMP Installation	Streambank or Shoreline Protection	Local Fund	MFCRWD In-Kind	\$906.25	\$906.25	12/31/2014	Y
SSR - Bertram Shoreland Restoration	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$12,930.54	\$12,930.54	10/2/2012	N
SSR - Bertram Shoreland Restoration	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$4,310.18	\$4,310.18	10/2/2012	Y
SSR - Dougherty Shoreland Restoration	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$564.30	\$564.30	11/5/2013	N
SSR - Dougherty Shoreland Restoration	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$188.10	\$188.10	11/5/2013	Y
SSR - Duininck	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$6,414.00	\$6,414.00	8/1/2014	N
SSR - Duininck	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$4,481.59	\$4,481.59	8/1/2014	Y
SSR - Duininck	Streambank or Shoreline Protection	Other Funds	2013 County Levy	\$3,000.00	\$3,000.00	6/25/2014	Y
SSR - Duininck	Streambank or Shoreline Protection	Other State funds not in eLINK	DNR Block grant	\$16,031.00	\$16,031.00	8/1/2014	N
SSR - Gossman Shoreland Restoration	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$9,324.68	\$9,324.68	11/5/2013	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSR - Gossman Shoreland Restoration	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$3,108.23	\$3,108.23	11/5/2013	Y
SSR - Grant Administration	Administration /Coordination	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)	\$3,420.00	\$3,420.00	12/31/2014	N
SSR - Grant Administration	Administration /Coordination	Local Fund	MFCRWD In-Kind	\$3,349.97	\$3,349.97	12/31/2014	Y
SSR - Johnson Shoreland Restoration	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$30,470.82	\$30,470.82	8/31/2014	N
SSR - Johnson Shoreland Restoration	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$10,856.94	\$10,856.94	6/30/2014	Y
SSR - Koch	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$867.33	\$867.33	8/25/2014	N
SSR - Koch	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$289.11	\$289.11	11/4/2014	Y
SSR - Lee shoreline	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$8,442.65	\$8,442.65	8/31/2014	N
SSR - Lee shoreline	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$7,861.50	\$7,861.50	11/4/2014	Y
SSR - Lykken Shoreland Restoration	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$5,889.68	\$5,889.68	9/12/2012	N
SSR - Lykken Shoreland Restoration	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$1,963.23	\$1,963.23	9/12/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSR - Myers Shoreland Restoration	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$6,531.55	\$6,531.55	12/4/2013	N
SSR - Myers Shoreland Restoration	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$3,265.77	\$3,265.77	12/4/2013	Y
SSR - Peterson Shoreland	Streambank or Shoreline Protection	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$2,737.50	\$2,737.50	9/30/2014	N
SSR - Peterson Shoreland	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$912.50	\$912.50	12/31/2013	Y
SSR - Project Development	Project Development	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)	\$6,660.00	\$6,660.00	12/31/2014	N
SSR - Project Development	Project Development	Local Fund	MFCRWD In-Kind	\$8,166.50	\$8,166.50	12/31/2014	Y
SSR - Rain Barrel Program	Supplies/Equipment	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHE..	\$7,500.00	\$7,500.00	8/25/2012	N
SSR - Rain Barrel Program	Supplies/Equipment	Local Fund	MFCRWD Cash & In-Kind	\$3,586.18	\$3,586.18	8/25/2012	Y
SSR - Technical Assistance & Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)	\$1,440.00	\$1,410.00	8/1/2014	N
SSR - Technical Assistance & Engineering	Technical/Engineering Assistance	Local Fund	MFCRWD In-Kind	\$6,193.02	\$6,193.02	12/31/2014	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
580 - Streambank and Shoreline Protection	4	1	530 LINEAR FEET

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
580 - Streambank and Shoreline Protection	12	1	1 AC
342 - Critical Area Planting	5	3	750 LINEAR FEET
712M - Bioretention Basin	0	0	0
712M - Bioretention Basin	7	1	0 AC
155M - Storm Water Retention Basins	0	0	0
412 - Grassed Waterway and Swales	3	1	420 LINEAR FEET
468 - Lined Waterway or Outlet	4	2	10,000 LINEAR FEET
580 - Streambank and Shoreline Protection	0	1	0
584 - Stream Channel Stabilization	2	1	700 LINEAR FEET
155M - Storm Water Retention Basins	9	1	9 COUNT
155M - Storm Water Retention Basins	2	1	1 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
SEDIMENT (TSS)	144.98	TONS/YR
SOIL (EST. SAVINGS)	134.01	TONS/YR
Total Suspended Solids (TSS)	100.00	Mg/L
NUTRIENTS (NITRATE)	6.29	LBS/YR
PHOSPHORUS (EST. REDUCTION)	129.77	LBS/YR

Grant Activity

Grant Activity - GL - BMP Implementation

Description	<p>BMP Installation will be coordinated by MFCRWD staff, in cooperation with the Green Lake Inlet Partnership, local government entities, landowners and engineers, and will entail the correct installation and correct functioning of the BMPs. Five major activities will be implemented, including the daylighting of a newly developed riffle and pool lined channel, a raingarden/biofiltration program to accompany the channel, a parking lot retrofit designed to treat first flush pollutants, a biofiltration cell and hydrodynamic separator to enhance a previously installed BMP, and the stabilization of a heavily eroded channel due to stormwater influences. All of the proposed projects will require PE design and approval; therefore, the MFCRWD has contracted the services of Emmons and Olivier Resources, whose team of Professional Engineers and Landscape Architects will approve all plans prior to installation.</p>	
Category	URBAN STORMWATER MANAGEMENT PRACTICES	
Start Date	9-Apr-12	End Date
Has Rates and Hours?	No	
Actual Results	<p>Apr-Dec 2012: The hydrodynamic separator that was proposed was designed and installed with the City of Spicer. The cost to the grant was dramatically reduced by the ability to leverage 319 funds, saving more than \$13,000 to the budget. Other projects are in the works and will likely be installed in early 2013. Cost to the project was \$6738.86 - this amount was recorded in under Land & Water Projects City of Spicer Grit Chamber, rather than here, to avoid duplication of calculations.</p> <p>Jan-Dec 2013: One biofiltration and hydrodynamic separator was constructed on the north side of Green Lake. This project will treat approximately 5 acres of stormwater runoff from the boulevard. Staff has been working with the landowners on the stabilization of a heavily eroded channel due to stormwater influences. Construction for this project should commence Summer 2014. We are currently adapting the parking lot retrofit project to allow for Summer 2014 construction. The landowners are finding funds for their cash contribution of the project.</p> <p>Jan-Dec 2014: The biofiltration basin and hydrodynamic separator was constructed on the north side of Green Lake in 2013. Complications with hired engineering and construction installation has left this project non-functional and will be fixed using the Watershed District's General Levy. The fix will occur and function as a stormwater treatment system as originally designed. One parking lot retrofit was completed in the summer/fall of 2014. The bioswale area was a stormwater conveyance system improved from a gravel lot with no stormwater treatment. The lot was supplemented with bioswales and a hydrodynamic separator for additional treatment.</p> <p>The second parking lot retrofit has been designed and the first phase of the parking lot has been completed. The second will take place in the summer of 2015. This stormwater treatment area will treat first flush pollutants in a swale and structure to allow for slowing of the runoff.</p>	

Activity Action - Moved			
Practice	712M - Bioretention Basin	Count of Activities	0
Description			
Proposed Size / Units	0	Lifespan	Unknown
Actual Size/Units		Installed Date	

Activity Action - Moved			
Practice	155M - Storm Water Retention Basins	Count of Activities	0
Description			
Proposed Size / Units	0	Lifespan	Unknown
Actual Size/Units		Installed Date	

Activity Action - Moved			
Practice	712M - Bioretention Basin	Count of Activities	0
Description			
Proposed Size / Units	0	Lifespan	Unknown
Actual Size/Units		Installed Date	

Grant Activity - GL - City of Spicer Grit Chamber

Description	On Green Lake's south side, a large biofiltration cell designed to reduce stormwater volumes and the associated nutrients and sediment, and a hydrodynamic separator for increased sediment removal will be installed upstream of a successful channel development project implemented by the MFCRWD with project partners. The new biofiltration system will enhance the previously installed BMPs.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	9-Apr-12	End Date	12-Sep-12
Has Rates and Hours?	No		
Actual Results	<p>Apr-Dec 2012: Grit Chamber/Hydrodynamic Separator designed by Randy Sabart, PE, SEH, and installed under supervision of SEH on Kevin Drive, within the City of Spicer near Green Lake. The cost to the grant was dramatically reduced by the ability to leverage 319 funds, saving more than \$13,000 to the budget. Cost to the project was \$6738.86.</p> <p>The total cost for the installation was \$26,584. The WD contributed \$19,038 for the total installation. (319 funds and BWSR Green Lake Stormwater funds). The 319 grant paid for \$13,200 of the installation and cash in-kind from the City of Spicer was \$6,646. The grant dollars used from the BWSR Stormwater grant amounted to \$6,738.86.</p>		

Activity Action - City of Spicer Grit Chamber

Practice	155M - Storm Water Retention Basins	Count of Activities	1
Description	Grit Chamber/Hydrodynamic Separator installed on Kevin Drive, within the City of Spicer near Green Lake.		
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	31-Jul-12

Final Indicator for City of Spicer Grit Chamber

Indicator Name	SEDIMENT (TSS)	Value	4.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Literature Value
Waterbody	Green Lake		

Final Indicator for City of Spicer Grit Chamber

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Literature Value
Waterbody	Green Lake		

Grant Activity - GL - GLLM			
Description	The Green Lake Lutheran Ministries have been struggling with a gravel parking lot for years. The need to reduce the amount of sediment during winter thaw and rain events was immense. The District had been in contact with the owners for several years about treating the water coming from the impervious lot before it hit Green Lake.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	2-Sep-14	End Date	
Has Rates and Hours?	No		
Actual Results	The GLLM signed a contract with the District on September 2, 2014 and work was underway shortly after.		

Activity Action - GL - GLLM stormwater			
Practice	155M - Storm Water Retention Basins	Count of Activities	1
Description			
Proposed Size / Units	1 AC	Lifespan	10 Years
Actual Size/Units	1 AC	Installed Date	

Final Indicator for GL - GLLM stormwater			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.44
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Green Lake		

Final Indicator for GL - GLLM stormwater			
Indicator Name	SEDIMENT (TSS)	Value	0.0825
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Green Lake		

Grant Activity - GL - Grant Administration

Description	Activities under this initiative will include compliance with all grant requirements, including coordination, financial planning and budget monitoring, report writing/eLINK submittal, and necessary interaction with BWSR staff.		
Category	ADMINISTRATION/COORDINATION		
Start Date	9-Apr-12	End Date	
Has Rates and Hours?	No		
Actual Results	<p>Apr-Jun 2012: A public hearing notice for adoption of the grant was drafted and posted with the corresponding counties and local newspaper, and associated legal & publishing fees were paid. A budget monitor was established for the project and used for the first time.</p> <p>Jan - Dec 2013: Administration duties have been budgeting and keeping all necessary numbers accounted. Reporting has taken place and all administration reflects the reporting for the necessary period.</p> <p>Jan - Dec 2014: Administration duties have been budgeting and keeping all necessary numbers accounted. The grant timeline was not supporting out project timelines. A grant extension was requested. Reporting has taken place and all administration reflects the reporting for the necessary period.</p>		

Grant Activity - GL - Irving Township Project

Description	On Green Lake's south side, a large biofiltration cell designed to reduce stormwater volumes and the associated nutrients and sediment, and a hydrodynamic separator for increased sediment removal will be installed upstream of a successful channel development project implemented by the MFCRWD with project partners. The new biofiltration system will enhance the previously installed BMPs.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	3-Sep-12	End Date	03-Dec-13
Has Rates and Hours?	No		
Actual Results	Jan - Dec 2013: One biofiltration and hydrodynamic separator was constructed on the north side of Green Lake. This project will treat approximately 5 acres of stormwater runoff from the boulevard.		

Activity Action - Irving Township Infiltration Basin			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	Installed as planned. Grit Chamber and Biofiltration basin both installed.		
Proposed Size / Units	0 AC	Lifespan	10 Years
Actual Size/Units	0 AC	Installed Date	13-Nov-13

Final Indicator for Irving Township Infiltration Basin			
Indicator Name	SEDIMENT (TSS)	Value	0.31
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Green Lake		
Final Indicator for Irving Township Infiltration Basin			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Green Lake		

Activity Action - Irving Township Grit Chamber			
Practice	155M - Storm Water Retention Basins	Count of Activities	1
Description	Grit Chamber as part of a treatment train with the Irving Township stormwater infiltration basin. Dimensions of grit chamber: Grit Chamber has a radius of 3.5 feet and a depth of 14 feet. Holds up to 81 cubic feet.		
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	13-Nov-13

Final Indicator for Irving Township Grit Chamber			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Literature Value
Waterbody	Green Lake		
Final Indicator for Irving Township Grit Chamber			
Indicator Name	SEDIMENT (TSS)	Value	4.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Literature Value
Waterbody	Green Lake		

Grant Activity - GL - Johnson			
Description	On Green Lake's north side, a practice was designed for the Johnson residents including a major filter strip.		
Category	AGRICULTURAL PRACTICES		
Start Date	7-Oct-14	End Date	02-Dec-14
Has Rates and Hours?	No		
Actual Results	The project was completed in October of 2014. The total project costs were \$16,682.20. The CWF covered \$11,769.15. Kandiyohi County Soil and Water covered \$1,000. And the landowners cost was \$3,173.05		

Activity Action - GL - Johnson			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	Filter strip		
Proposed Size / Units	150 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	150 LINEAR FEET	Installed Date	8-Oct-14

Final Indicator for GL - Johnson			
Indicator Name	SOIL (EST. SAVINGS)	Value	.58
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Green Lake		
Final Indicator for GL - Johnson			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Green Lake		
Final Indicator for GL - Johnson			
Indicator Name	SEDIMENT (TSS)	Value	.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Green Lake		

Grant Activity - GL - Meier Raingarden			
Description	In the upper reaches of the subwatershed a raingarden/biofiltration program will be initiated with several property owners to reduce the volume of water along with the sediment and nutrients flowing through the channel.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	17-Oct-13	End Date	03-Dec-13
Has Rates and Hours?	No		
Actual Results	Area was replanted with additional wet-tolerant plugs. Completed as planned.		

Activity Action - Meier Raingarden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	Planted with wet-tolerant plugs for better establishment of the project.		
Proposed Size / Units	0 AC	Lifespan	10 Years
Actual Size/Units	0 AC	Installed Date	18-Oct-13

Final Indicator for Meier Raingarden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	7.21
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Green Lake		

Final Indicator for Meier Raingarden			
Indicator Name	SEDIMENT (TSS)	Value	0.061
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Green Lake		

Final Indicator for Meier Raingarden			
Indicator Name	NUTRIENTS (NITRATE)	Value	6.29
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Green Lake		

Grant Activity - GL - NL parking bioswale			
Description	The parking lot adjacent to the New London fire hall was being replaced. The district contacted the City of New London about bioswales and grit chambers to supplement the standard storm water requirements.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	6-May-14	End Date	04-Nov-14
Has Rates and Hours?	No		
Actual Results	A bioswaled area and grit chamber were installed in August 2014.		

Activity Action - GL - NL parking swale			
Practice	412 - Grassed Waterway and Swales	Count of Activities	1
Description	Bioswaled area		
Proposed Size / Units	140 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	140 LINEAR FEET	Installed Date	6-Aug-14

Final Indicator for GL - NL parking swale			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Unknown
Waterbody	Middle Fork Crow River		

Final Indicator for GL - NL parking swale			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Unknown
Waterbody	Middle Fork Crow River		

Activity Action - GL - NL parking grit chamber			
Practice	155M - Storm Water Retention Basins	Count of Activities	1
Description	Grit chamber install under road.		
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	18-Aug-14

Final Indicator for GL - NL parking grit chamber			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.33
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Literature Value
Waterbody	Middle Fork Crow River		

Final Indicator for GL - NL parking grit chamber			
Indicator Name	Total Suspended Solids (TSS)	Value	100
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) Mg/L	Calculation Tool	Literature Value
Waterbody	Middle Fork Crow River		

Grant Activity - GL - Project Development

Description	Activities under the Project Development Initiative include civic engagement, public outreach, initial contacts/actions/activities with landowners and/or partners, preliminary info gathering, conservation marketing, etc. This initiative includes the development of all proposed outputs, including BMP development. Project development will be necessary in some instances where some property owners were not able/willing to wait until the grant funds were available before implementing their own project, or where they decide to not go through with the proposed activities and alternate projects will have to be marketed/developed.		
Category	PROJECT DEVELOPMENT		
Start Date	9-Apr-12	End Date	
Has Rates and Hours?	No		
Actual Results	<p>Apr-Dec 2012: A grant kickoff meeting with the Green Lake Inlet Partnership was organized, prepared for, and held. A meeting was held with the District's engineer to go over site locations of all activities, and consider some alternatives. A raingarden brochure was created for the purposes of targeting property owners with ideal curbcut raingarden locations. An open house was held in which the grant was on display. A contact list of ideal curbcut raingarden property owners was put together. Measurements were conducted for the potential location of curb cut raingardens.</p> <p>Jan - Dec 2013: Project development has been a bit on the difficult side. The landowners that we had as a go before the grant was received are now dropping out because of various reasons. This is leaving us scrambling for new projects and new landowners. We know we have great ideas for the stormwater around Green Lake, we just need to move forward with willing landowners. Several viable places have willing landowners but do not like the idea of a 10-year maintenance contract and the 25% cost-share, which is mandated by the District. We are hoping that the new landowners we are finding and the new project locations will continue moving forward.</p> <p>Jan - Dec 2014: Several projects came to fruition during this period. The Green Lake Lutheran Ministries, Johnson, New London Stormwater, and Loon Creek Project. All projects were developed and installed during the 2014 season. Green Lake Lutheran Ministries will be completed in the summer of 2015, due to 2014 weather conditions. The Green Lake Partnership was put together to help us decide the most important locations of focus, the group didn't meet later in the planning process because all project money was accounted. The in-kind contributions came from the Watershed District in staff time and cash from the General Fund and from the landowners who did 25% + of their project contributions.</p>		

Grant Activity - GL - Technical Assistance & Engineering

Description	This initiative includes the costs for activities associated with technical assessments, surveys, preliminary analysis and design, final design, construction supervision, inspection, etc. All of the proposed projects will require PE design and approval; therefore, the MFCRWD has contracted the services of Emmons and Olivier Resources, whose team of Professional Engineers and Landscape Architects will approve all plans prior to installation.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	9-Apr-12	End Date	
Has Rates and Hours?	No		
Actual Results	<p>Apr - Dec 2012: No activities were billed under this initiative as of yet. EOR engineers were on site in December to collect survey data for proposed BMP projects; expenses will be reported in the following period.</p> <p>Jan - Dec 2013: EOR has come several times to potential project locations for survey work. They designed the Irving township project which was installed in the Fall of 2013. Monson Contractors took care of the installation for Irving township.</p> <p>Jan - Dec 2014: Houston engineering and Bolten & Menk, Inc. were designers of the bioswale and stormwater projects. West Central Technical Service Area designed the Johnson project.</p>		

Description

BMP Installation will be coordinated by MFCRWD staff, along with landowners and contractors, and will entail the correct installation and correct functioning of the BMPs. The original proposal contained four shoreland restoration/stabilization projects on two lakes, completion of two stream bank stabilization projects on the Middle Fork Crow River, and a rain barrel program coupled with an education program that provide outreach to lake and city residents throughout the Middle Fork Crow River Watershed about the issues and water quality effects associated with stormwater. One of the shoreland restoration projects presented an imminent threat to the water body and therefore was installed prior to the BWSR grant award. Therefore, we anticipate some slight changes to the original proposal. The remaining projects are not expected to require engineering, and therefore, final designs will be agreed upon by trained contractors (contractors will have trained design staff, i.e., Prairie Restorations and other companies with specialists in the use of native vegetation), MFCRWD staff, and landowners. Should we discover the potential for structural issues, we will contract the services of a PE (Houston Engineering, under the supervision of Mark Deutschman, PhD, PE) to develop and/or approve plans prior to installation. Where contractors are used, staff trained in design and correct installation techniques will sign off on installation, and where PEs are required, they will sign off on design plans and installation.

Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	9-Apr-12	End Date	
Has Rates and Hours?	No		
Actual Results	<p>Apr-Dec 2012: Two shoreland restoration projects were installed; one on Green Lake and another on Diamond Lake. The rain barrel program that had been proposed was a resounding success. With the ability to sell recycled oak wine barrels retrofitted as rain barrels at \$25 per barrel rather than the \$200 regular price, 101 barrels were sold to residents of the watershed, and another 6 sold at \$100 to residents outside the watershed. The program allowed us to 1) have a (admittedly small) impact on water quality and quantity throughout the watershed; 2) more importantly, reach a segment of our constituency that we have been unable to reach to date, and most importantly; 3) underscore a message the District has pushed in recent years, that individuals taking responsibility and doing their part is the best way to foster positive change. Financials in this category refer to billable staff time and rain barrel program. BMPs installed here are recorded under Land & Water Projects (Lykken & Bertram). Total cost of rain barrel program: \$10,593. Grant funds: \$7500. Local cash to pay for barrels: \$3093. Local/MFCRWD cash/in-kind: \$820.07. The \$7620 in Financial Services is for the \$7500 spent on rain barrels plus some staff time spent on the project.</p> <p>Jan-Dec 2013: Green Lake Nursery designed and installed the Myers project. Johnson and Gossman projects were installed in the fall. Prairie Restorations, Inc. planted the Dougherty project.</p> <p>Jan - Dec 2014: A shoreline practice on the banks of Nest Lake was the first, the Lee shoreline project was completed. 165 linear feet of shore were restored with native plugs and shrubs. The Loon Creek Project of the inlet of a creek running from the north on the north portion of Greek Lake, 65 acres comes to a points before it outlets into the lake. This streambank was re-established with natives and some rock was used on the outer bends of the stream. Buckthorn was removed to provide additional sunlight the new plugs will need.</p>		

Activity Action - Moved			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	0
Description			
Proposed Size / Units	0	Lifespan	Unknown
Actual Size/Units		Installed Date	

Activity Action - Moved			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	0
Description			
Proposed Size / Units	0	Lifespan	Unknown
Actual Size/Units		Installed Date	

Activity Action - Moved			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	0
Description			
Proposed Size / Units	0	Lifespan	Unknown
Actual Size/Units		Installed Date	

Activity Action - Moved			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	0
Description			
Proposed Size / Units	0	Lifespan	Unknown
Actual Size/Units		Installed Date	

Grant Activity - SSR - Bertram Shoreland Restoration			
Description	The MFCRWD will work closely with the City of New London and the Kandiyohi SWCD to implement four large shoreland restoration projects that will put a stop to very serious shoreline erosion issues.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	13-Jun-12	End Date	02-Oct-12
Has Rates and Hours?	No		
Actual Results	Project designed and installed by Stacy's Nursery as planned. The project removed three failing retaining walls. The slope was regraded and planted with native vegetation that will provide a stable bank in the future.		

Activity Action - Bertram Shoreland Restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Bertram Shoreland Restoration		
Proposed Size / Units	0 AC	Lifespan	10 Years
Actual Size/Units	0 AC	Installed Date	12-Oct-12

Final Indicator for Bertram Shoreland Restoration

Indicator Name	SOIL (EST. SAVINGS)	Value	5.74
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Diamond Lake		

Final Indicator for Bertram Shoreland Restoration

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4.88
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Diamond Lake		

Final Indicator for Bertram Shoreland Restoration

Indicator Name	SEDIMENT (TSS)	Value	5.74
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Diamond Lake		

Grant Activity - SSR - Dougherty Shoreland Restoration

Description	The MFCRWD will work closely with the City of New London and the Kandiyohi SWCD to implement four large shoreland restoration projects that will put a stop to very serious shoreline erosion issues.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	27-Aug-13	End Date	05-Nov-13
Has Rates and Hours?	No		
Actual Results	95 linear feet shoreland restoration installed as planned on Nest Lake. Retaining wall failure was addressed by resloping, blanketing, and planting native vegetation.		

Activity Action - Dougherty Shoreland Restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Installed as planned.		
Proposed Size / Units	0 AC	Lifespan	10 Years
Actual Size/Units	0 AC	Installed Date	29-Aug-13

Final Indicator for Dougherty Shoreland Restoration

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	8.18
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Final Indicator for Dougherty Shoreland Restoration

Indicator Name	SOIL (EST. SAVINGS)	Value	9.63
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Final Indicator for Dougherty Shoreland Restoration

Indicator Name	SEDIMENT (TSS)	Value	9.63
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Grant Activity - SSR - Duinick

Description	Loon Creek has been eroding away for several years. It's a creek on the north side of Green Lake and take on about 60 acres of runoff and agricultural water through the one inlet. Wenck Engineering helped put plans and designs together.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	5-Mar-14	End Date	08-Aug-14
Has Rates and Hours?	No		
Actual Results	Loon Creek streambank restoration was completed in the summer of 2014. Several truck loads of buckthorn was removed to allow for sunlight to the natives planted. The falling streambanks were keyed with rock to slow water from eroding the banks. Four riffles towards the end of the stream were installed to slow water at the outlet. The project was completed by Minnesota Native Landscapes.		

Activity Action - GL - Duininck Loon Creek			
Practice	468 - Lined Waterway or Outlet	Count of Activities	1
Description	Streambank restoration		
Proposed Size / Units	2,500 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	2,500 LINEAR FEET	Installed Date	31-Jul-14

Final Indicator for GL - Duininck Loon Creek			
Indicator Name	SOIL (EST. SAVINGS)	Value	16.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		
Final Indicator for GL - Duininck Loon Creek			
Indicator Name	SEDIMENT (TSS)	Value	16.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		
Final Indicator for GL - Duininck Loon Creek			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	14.03
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		

Grant Activity - SSR - Gossman Shoreland Restoration			
Description	The MFCRWD will work closely with the City of New London and the Kandiyohi SWCD to implement four large shoreland restoration projects that will put a stop to very serious shoreline erosion issues.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	31-Jul-13	End Date	05-Nov-13
Has Rates and Hours?	No		
Actual Results	80 linear feet of shoreline restored as planned (5000 square foot buffer) along Monongalia Lake.		

Activity Action - Gossman Shoreland Restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Installed as Planned.		
Proposed Size / Units	0 AC	Lifespan	10 Years
Actual Size/Units	0 AC	Installed Date	30-Jul-13

Final Indicator for Gossman Shoreland Restoration

Indicator Name	SOIL (EST. SAVINGS)	Value	11.54
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Monongalia Lake/Middle Fork Crow River		

Final Indicator for Gossman Shoreland Restoration

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	9.81
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Monongalia Lake/Middle Fork Crow River		

Final Indicator for Gossman Shoreland Restoration

Indicator Name	SEDIMENT (TSS)	Value	11.54
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Monongalia Lake/Middle Fork Crow River		

Grant Activity - SSR - Grant Administration		
Description	Activities under this initiative will include compliance with all grant requirements, including coordination, financial planning and budget monitoring, report writing/eLINK submittal, and necessary interaction with BWSR staff.	
Category	ADMINISTRATION/COORDINATION	
Start Date	9-Apr-12	End Date
Has Rates and Hours?	No	
Actual Results	<p>Apr-Dec 2012: A public hearing notice for adoption of the grant was drafted and posted with the corresponding counties and local newspaper; legal & publishing fees were incurred. Cost share contracts were executed as well as the associated vouchers, grant budget monitor was established and used for the first time.</p> <p>Jan-Dec 2013: All expenses were documented and recorded for each project. All budgets were updated with grant dollars spent and in-kind dollars towards each project. Grant administration including budgeting and contracting for projects took place during this reporting period.</p> <p>Jan-Dec 2014: Expenses for each project were once again documented and reported. Any change to the budget or in-kind expense was updated. Grant administration activities continued throughout this period, including budgeting, contracting, and reporting. An amendment was completed and the grant was extended one year.</p>	

Grant Activity - SSR - Johnson Shoreland Restoration		
Description	The MFCRWD will work closely with the City of New London and the Kandiyohi SWCD to implement four large shoreland restoration projects that will put a stop to very serious shoreline erosion issues.	
Category	STREAMBANK OR SHORELINE PROTECTION	
Start Date	29-Jul-13	End Date
Has Rates and Hours?	No	
Actual Results	Installed as planned. Final work to be completed Spring 2014. 240 linear feet of shoreline. 7000 square feet of buffer.	

Activity Action - Johnson Shoreland Restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Installed as Planned, Final work to be completed Spring 2014.		
Proposed Size / Units	0 AC	Lifespan	10 Years
Actual Size/Units	0 AC	Installed Date	29-Jul-13

Final Indicator for Johnson Shoreland Restoration

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	29.43
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Monongalia Lake/Middle Fork Crow River		

Final Indicator for Johnson Shoreland Restoration

Indicator Name	SOIL (EST. SAVINGS)	Value	34.63
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Monongalia Lake/Middle Fork Crow River		

Final Indicator for Johnson Shoreland Restoration

Indicator Name	SEDIMENT (TSS)	Value	34.63
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Monongalia Lake/Middle Fork Crow River		

Grant Activity - SSR - Koch

Description	Charlie Koch had lost 10 to 12 feet of his stream bank during the wet period of May - June 2014. He approached the watershed district about possible solutions for his failing stream banks.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	27-Jun-14	End Date	02-Dec-14
Has Rates and Hours?	No		
Actual Results	During the summer season while the water was low. Cedar revetments were installed to help mitigate high water, erosion issues, and sedimentation on his property. 45 cedar trees were used. Each tree was about 12 feet tall and 4 feet in diameter to help stabilize the bank. Duckbill anchors were used for the installation. Charlie Koch received a "Project of the Year" award from the Watershed District for his outstanding cooperation with the project installation.		

Activity Action - SSR - Koch streambank stabilization

Practice	584 - Stream Channel Stabilization	Count of Activities	1
Description	Cedar revetments along the Middle Fork Crow River downstream on New London and upstream of Spicer.		
Proposed Size / Units	350 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	350 LINEAR FEET	Installed Date	11-Aug-14

Final Indicator for SSR - Koch streambank stabilization

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	21.04
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Middle Fork Crow River		

Final Indicator for SSR - Koch streambank stabilization

Indicator Name	SOIL (EST. SAVINGS)	Value	24.75
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Middle Fork Crow River		

Final Indicator for SSR - Koch streambank stabilization

Indicator Name	SEDIMENT (TSS)	Value	24.75
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Middle Fork Crow River		

Grant Activity - SSR - Lee shoreline

Description	The Lee shoreline was a failing bank on Nest Lake.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	6-Aug-13	End Date	02-Dec-14
Has Rates and Hours?	No		
Actual Results	A shoreline restoration was designed by West Central Technical Service Area out of Waite Park, MN. The installation was completed in the summer and fall of 2014.		

Activity Action - SSR - Lee			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Shoreline stabilization - Nest Lake		
Proposed Size / Units	165 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	165 LINEAR FEET	Installed Date	21-Jul-14

Final Indicator for SSR - Lee

Indicator Name	SOIL (EST. SAVINGS)	Value	13.02
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Final Indicator for SSR - Lee

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	11.07
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Final Indicator for SSR - Lee

Indicator Name	SEDIMENT (TSS)	Value	13.02
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Grant Activity - SSR - Lykken Shoreland Restoration

Description	The MFCRWD will work closely with the City of New London and the Kandiyohi SWCD to implement four large shoreland restoration projects that will put a stop to very serious shoreline erosion issues.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	3-Jul-12	End Date	12-Sep-12
Has Rates and Hours?	No		
Actual Results	Project designed and installed by Minnesota Native Landscapes, according to plan. The project is on a steep slope that was not well vegetated. The landowner had concerns about how to maintain the bank. By restoring the bank the landowner no longer needs to mow the slope and it was stabilized by the deep rooted native vegetation.		

Activity Action - Lykken Shoreland Restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Installed as planned.		
Proposed Size / Units	0 AC	Lifespan	10 Years
Actual Size/Units	0 AC	Installed Date	12-Sep-12

Final Indicator for Lykken Shoreland Restoration

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.99
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		

Final Indicator for Lykken Shoreland Restoration

Indicator Name	SEDIMENT (TSS)	Value	3.52
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		

Final Indicator for Lykken Shoreland Restoration

Indicator Name	SOIL (EST. SAVINGS)	Value	3.52
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		

Grant Activity - SSR - Myers Shoreland Restoration

Description	The MFCRWD will work closely with the City of New London and the Kandiyohi SWCD to implement four large shoreland restoration projects that will put a stop to very serious shoreline erosion issues.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	19-Oct-13	End Date	04-Dec-13
Has Rates and Hours?	No		
Actual Results	60 foot shoreline restoration project installed as planned on Green Lake. Extent of erosion was approximately 540 cubic feet over 15 years. The slope had been covered with old railroad ties, over the years the ties were crumbling and voids were forming behind them. To stabilize the shoreline the railroad ties were removed and the retaining wall at the top of the slope was buried. The bank was planted with native vegetation that will provide long-term stability for the site.		

Activity Action - Myers Shoreland Restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Installed as Planned.		
Proposed Size / Units	0 AC	Lifespan	10 Years
Actual Size/Units	0 AC	Installed Date	19-Oct-13

Final Indicator for Myers Shoreland Restoration

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.39
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		

Final Indicator for Myers Shoreland Restoration

Indicator Name	SOIL (EST. SAVINGS)	Value	2.82
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		

Final Indicator for Myers Shoreland Restoration

Indicator Name	SEDIMENT (TSS)	Value	2.82
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Green Lake		

Grant Activity - SSR - Peterson Shoreland

Description	Remove three retaining walls leading to lakeshore. Create natural buffer between grass on top of hill, leading down to lakeshore. Remove existing deck at top of hill. Cut slope to decrease flow of runoff to lake - eliminate pollution. Insert cedar revetments along shoreline to decrease erosion at bottom of hill. Plant native grasses and flowers along the bank, as well as up the hill leading to the house. Install proper erosion control; maintain through duration of project.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	6-Nov-12	End Date	13-Jun-14
Has Rates and Hours?	No		
Actual Results	<p>Jan-Dec 2012: Work on permits, turn in MEMO for MFCRWD Permit. Completed DNR and Army Corps of Engineers permits. Completed county permit. Sent permit to Army Corp.</p> <p>Jan-May 2013: Pre-construction meeting with contractor and engineer. Observed the site. Looked over plant list; need to approve plants. Discussed all project details. Made routine inspections to site during construction period.</p> <p>Jun-Dec 2013: Continued inspections on site. Put voucher together; collected receipts for all permits; collected total cost information for grant purposes. Composed project report for DNR; emailed to John Hiebert. Measured site for final analysis.</p> <p>Jan-Dec 2014: Met with homeowner. Discussed maintenance plan. Obtained signed voucher for maintenance plan.</p>		

Activity Action - Peterson			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	100 linear feet. 194 square yards.		
Proposed Size / Units	100 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	100 LINEAR FEET	Installed Date	10-Jun-13

Final Indicator for Peterson			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.22
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Final Indicator for Peterson			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.40
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Final Indicator for Peterson			
Indicator Name	SEDIMENT (TSS)	Value	1.22
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Nest Lake		

Grant Activity - SSR - Project Development

<p>Description</p>	<p>Activities under the Project Development Initiative include civic engagement, public outreach, initial contacts/actions/activities with landowners and/or partners, preliminary info gathering, conservation marketing, etc. This initiative includes the development of all proposed outputs, including BMP development. Project development will be necessary in some instances where some property owners were not able/willing to wait until the grant funds were available before implementing their own project, or where they decide to not go through with the proposed activities. This initiative will also be instrumental in our ability to carry out the rain barrel program that will be coupled with an education program to provide outreach to lake and city residents throughout the Middle Fork Crow River Watershed about the issues and water quality effects associated with stormwater.</p>		
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>		
<p>Start Date</p>	<p>9-Apr-12</p>	<p>End Date</p>	
<p>Has Rates and Hours?</p>	<p>No</p>		
<p>Actual Results</p>	<p>Apr-Jun 2012: An open house was held in which the grant was on display. One staff member canoed a stretch of the Middle Fork Crow River (Lake Calhoun-Manannah) in search of stream bank restoration projects. The rain barrel program was executed - this included research on options and prices, logistics, cost share options, development of program criteria. Owners who had expressed interest in shoreland restoration projects during proposal development were contacted to confirm continued interest, and BMP planning process took place. Other property owners were contacted to confirm interest as well; one project was implemented toward the end of 2012 (with leveraged funds) and other planning on future projects was carried out.</p> <p>Jan - Dec 2013: An open house was held in which the grant was on display. Constant outreach has played a big role in our ability to gain willing landowners. One staff member canoed a stretch of the Middle Fork Crow River in search of stream bank restoration projects. BMP installation took place in several different locations in 2013. One big shoreland BMP was install on Mill Pond with the partnership of neighboring homes on the lake. Two other shoreland projects were completed in 2013. Other property owners were contacted to confirm interest as well. Multiple projects are being worked on for installation in 2014.</p> <p>Jan - Dec 2014: There were several meeting for the following projects including, Koch, Loon Creek and the Lee. All landowners were given detailed descriptions of the projects including the site design, maintenance specifications. All landowners signs contracts for the project to be completed on their property. Projects were completed during the 2014 construction season.</p>		

Grant Activity - SSR - Rain Barrel Program

Description	Rain barrel program coupled with an education program to provide outreach to lake and city residents throughout the Middle Fork Crow River Watershed about the issues and water quality effects associated with stormwater. During each rain event, the rain barrels will prevent 5,500 gallons of water from entering the lakes and river in the watershed. Pollution reductions will be small, estimated to be just under 1 pound of phosphorus per year and 0.1 tons of sediment per year; this program, however, provides an exciting tool that will further the understanding of city and lake residents on the issues caused by stormwater.		
Category	SUPPLIES/EQUIPMENT		
Start Date	10-Apr-12	End Date	25-Aug-12
Has Rates and Hours?	No		
Actual Results	<p>The District advertised to the residents within District boundaries of positive impacts they can personally make without committing a substantial amount of money. Some of our education materials contained the following: "Runoff from your roof can have adverse effect on all bodies of water, including streams, rivers, and lakes. This water carries contaminants such as grit from shingles, oil from our driveways, and fertilizers from our lawns to receiving waters, which negatively impacts fishing and recreation. One way to reduce the amount of runoff from your roof (and consequently reduce the about of water pollution) is to place a rain barrel at you down spouts. While the barrel will not collect all of the rain water from your house, it will reduce the volume of water from your lot. It will also allow you to use this water at a later date to water your lawn or garden."</p> <p>A truckload of recycled solid oak wine barrels, turned to rain barrels, was delivered on Saturday, August 25th, 2012. 107 watershed residents picked up their rain barrel for use within the district.</p>		

Grant Activity - SSR - Technical Assistance & Engineering

Description	This initiative includes the costs for activities associated with technical assessments, surveys, preliminary analysis and design, final design, construction supervision, inspection, etc. Proposed projects are not expected to require engineering, and therefore, final designs will be agreed upon by trained contractors (contractors will have trained design staff, i.e., Prairie Restorations and other companies with specialists in the use of native vegetation and project design), MFCRWD staff, and landowners. Should we discover the potential for structural issues, we will contract the services of a PE (Houston Engineering, under the supervision of Mark Deutschman, PhD, PE) to develop and/or approve plans prior to installation. Where contractors are used, staff trained in design and correct installation techniques will sign off on installation, and where PEs are required, they will sign off on design plans and installation.	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date	9-Apr-12	End Date
Has Rates and Hours?	No	
Actual Results	<p>Apr-Ded 2012: PE assistance was required on four different shoreland restoration projects (one was completed at the end of 2012, the other three are planned for early 2013). This time was donated as in-kind from the West Central Technical Service Area engineer, Ross Reiffenberger.</p> <p>Jan-Dec 2013: Green Lake Nursery designed and installed the Myers project. WCTSA did the survey work for the Johnson and Gossman projects. These project were neighbors, so the survey work was relatively brief. Prairie Restorations, Inc. planted the Dougherty project.</p> <p>Jan - Dec 2014: The Lee project was designed and completed by Ross from WCTSA. MN Native Landscapes completed the installation. The Koch project was designed by Wenck and install in 2015. The Duinick project was designed by Wenck and completed this season as well.</p>	

Grant Attachments

Document Name	Document Type	Description
2014 Staff time	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Admin. Staff Hours	Progress	Progress Dated - 01/21/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/13/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/22/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/04/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/14/2014

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/14/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/04/2014
Amendment	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Budget 2/24/2015	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Dougherty Project Voucher	Progress	Progress Dated - 01/21/2014
EOR II	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
EOR Invoice	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
EOR funds	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
FY12 CWA SSR 40% payment authorization (3-14-14)	Journal	Journal Dated - 03/14/2014
FY12 CWA SSR Interim Financial Report (3-4-14)	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Fund Request	Progress	Progress Dated - 01/21/2014
GL - Budget Monitor	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
GL Bible Camp Voucher 12/29/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
GL Interim Financial Report (2-19-2015)	Journal	Journal Dated - 02/23/2015
GL Reporting Review email (2-12-2015)	Journal	Journal Dated - 02/12/2015
GL Storm Admin	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
GLPOA Invoice - Irving Township	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Gossman Project Voucher	Progress	Progress Dated - 01/21/2014
Houston Invoice 10/3/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Houston Invoice 11/3/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Houston Invoice 6/13/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Houston Invoice 7/22/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Houston Invoice 9/3/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
ITT Inc Invoice 11/3/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
ITT Inc Invoice 9/3/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
In-Kind Expense Sheet SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
In-Kind Reporting SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Irving Project Voucher	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Irving Township Quickbooks	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Johnson Project Voucher	Progress	Progress Dated - 01/21/2014
Johnson Project Voucher II	Progress	Progress Dated - 01/21/2014
Johnson Project email (2-12-2015)	Journal	Journal Dated - 02/12/2015

Document Name	Document Type	Description
Koch Voucher SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Lee Voucher 1 SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Lee Voucher 2 SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
MFCRWD Noncompliance Letter	Journal	Journal Dated - 11/12/2014
Meier Project Voucher	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Mileage 1 SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Mileage 2 SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Mileage 2014	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Mileage In-kind	Progress	Progress Dated - 01/21/2014
Mileage In-kind II	Progress	Progress Dated - 01/21/2014
Myers Project Voucher	Progress	Progress Dated - 01/21/2014
New London Payment Voucher	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Project Vouchers SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
RMB Invoice 5/12/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Reimbursement Request Summary Jan-Dec 2014	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Reimbursement Summary SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Reporting Review email (2-13-2015)	Journal	Journal Dated - 02/13/2015
Reporting Review email (3-3-2015)	Journal	Journal Dated - 03/03/2015
Reporting Review email (3-4-2015)	Journal	Journal Dated - 03/04/2015
Reporting Review email (3-4-2015)	Journal	Journal Dated - 03/04/2015
SSR - Budget Monitor	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Shore Budget	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Staff Hours	Progress	Progress Dated - 01/21/2014
Staff Hours GL	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Staff Hours II	Progress	Progress Dated - 01/21/2014
WCTSA Voucher SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Wenck Invoice 7/7/14	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
Wenck Invoices SSR	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
grant_app_general-added.rpt	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)
grant_app_general.rpt	Grant	2012 - Clean Water Assistance - Middle Fork Crow River (WSHED)