



Grant All-Detail Report 2012 - Clean Water Assistance

Grant Title - 2012 - Clean Water Assistance - Chisago (SWCD)

Grant ID - C13-1969

Organization - Chisago SWCD

Grant Awarded Amount	\$323,040.00	Grant Execution Date	
Required Match Amount	\$80,760.00	Grant End Date	1/1/2020
Required Match %	25%	Grant Day To Day Contact	Craig Mell

Budget Summary

	Budgeted	Spent	Balance Remaining
Total Grant Amount	\$323,040.00	\$169,760.38	\$153,279.62
Total Match Amount	\$94,496.00	\$55,311.66	\$39,184.34
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$417,536.00	\$225,072.04	\$192,463.96

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
2012 CWF (Admin) Chain of Lakes SRA BMPs	Administration /Coordination	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$5,720.00	\$5,037.50	12/31/2013	N
2012 CWF (Admin) St Croix Basin Gully Stabilization	Administration /Coordination	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$7,400.00	\$6,207.50	1/6/2014	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
2012 CWF (Proj Dev) Chain of Lakes SRA BMPs	Project Development	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$5,720.00	\$5,297.50	12/31/2013	N
2012 CWF (Proj Dev) St Croix Basin Gully Stabilization	Project Development	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$3,000.00	\$2,210.00	1/6/2014	N
2012 CWF (Tech Eng) Chain of Lakes SRA BMPs	Technical/Engineering Assistance	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$57,200.00	\$30,517.50	12/31/2013	N
2012 CWF (Tech Eng) St Croix Basin Gully Stabilization	Technical/Engineering Assistance	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$29,000.00	\$18,677.50	1/6/2014	N
2012 CWF - Chain of Lakes SRA BMPs - Maple Street	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$19,231.63	\$19,231.63	10/9/2013	N
2012 CWF - Chain of Lakes SRA BMPs - Maple Street	Urban Stormwater Management Practices	Local Fund	2012 CWF Grant Match-Chisago Lakes Lake Improvement District	\$8,400.00	\$8,400.00	10/9/2013	Y
2012 CWF-Chain of Lakes SRA BMPs-Temporary Project	Special Projects	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$68,953.64			N
2012 CWF-Chain of Lakes SRA BMPs-Temporary Project	Special Projects	Local Fund	2012 CWF Grant Match-Chisago Lakes Lake Improvement District	\$28,852.34			Y
2012 CWF-St Croix River Basin Gully Escarpment-Temporary Project	Special Projects	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$0.00			N
2012 CWF-St Croix River Basin Gully Escarpment-Temporary Project	Special Projects	Local Fund	2012 CWF Landowner Match	\$0.00			Y
Center City Marine Dock and Lift	Urban Stormwater Management Practices	Current State Grant	2012 - clean water assistance - chisago (swcd)	\$0.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Center City Marine Dock and Lift	Urban Stormwater Management Practices	Local Fund		\$0.00			Y
Chisago City Surfland Neighborhood	Urban Stormwater Management Practices	Current State Grant	2012 - clean water assistance - chisago (swcd)	\$38,000.00	\$27,102.47	11/20/2013	N
Chisago City Surfland Neighborhood	Urban Stormwater Management Practices	Local Fund		\$9,500.00	\$9,034.00	11/20/2013	Y
City of Lindstrom Northwoods Roasterie	Urban Stormwater Management Practices	Current State Grant	2012 - clean water assistance - chisago (swcd)	\$2,637.48	\$2,637.48	9/18/2013	N
City of Lindstrom Northwoods Roasterie	Urban Stormwater Management Practices	Local Fund		\$3,457.41	\$3,457.41	9/18/2013	Y
Grand Avenue - Loren's Park	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - Chisago (SWCD)	\$30,000.00	\$7,762.00	9/10/2013	N
Grand Avenue - Loren's Park	Urban Stormwater Management Practices	Local Fund	Chisago Lakes LID SRA Match	\$5,000.00			Y
Joe Mallery South Basin	Agricultural Practices	Current State Grant	2012 - clean water assistance - chisago (swcd)	\$14,935.00	\$14,935.00	9/18/2013	N
Joe Mallery South Basin	Agricultural Practices	Landowner Fund		\$14,019.55	\$14,019.55	9/18/2013	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Peltier North Basin	Agricultural Practices	Current State Grant	2012 - clean water assistance - chisago (swcd)	\$5,141.34	\$5,141.34	10/8/2013	N
Peltier North Basin	Agricultural Practices	Landowner Fund		\$2,770.16	\$2,770.16	10/8/2013	Y
Peltier SE/SW Basin	Agricultural Practices	Current State Grant	2012 - clean water assistance - chisago (swcd)	\$13,825.71	\$13,825.71	10/8/2013	N
Peltier SE/SW Basin	Agricultural Practices	Landowner Fund		\$12,840.29	\$12,840.29	10/8/2013	Y
Peltier SW Basin	Agricultural Practices						
Peninsula Avenue	Urban Stormwater Management Practices	Current State Grant	2012 - clean water assistance - chisago (swcd)	\$11,177.25	\$11,177.25	7/3/2013	N
Peninsula Avenue	Urban Stormwater Management Practices	Local Fund		\$4,790.25	\$4,790.25	7/3/2013	Y
Thibodeau	Agricultural Practices	Current State Grant	2012 - clean water assistance - chisago (swcd)	\$11,097.95			N
Thibodeau	Agricultural Practices	Landowner Fund		\$4,866.00			Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
712M - Bioretention Basin	7	1	0 COUNT
638 - Water and Sediment Control Basin	3	3	0 COUNT
712M - Bioretention Basin	8	1	1 COUNT

Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	118.55	TONS/YR
SOIL (EST. SAVINGS)	165	TONS/YR
VOLUME REDUCED (ACRE-FEET/YEAR)	4.76	ACRE-FEET/YR
PHOSPHORUS (EST. REDUCTION)	119.5	LBS/YR

Grant Activity

Grant Activity - 2012 CWF (Admin) Chain of Lakes SRA BMPs		
Description	The Chisago SWCD Water Resource Specialist will be responsible for all eLINK, website, and final reporting documents for the project. The Chisago SWCD District Administrator will coordinate the project and provide the data to the Water Resource Specialist to complete all BWSR reporting requirements.	
Category	ADMINISTRATION/COORDINATION	
Start Date	7-May-12	End Date
Rates and Hours		
Actual Results	<p>As of December 17, 2012 All elink reporting has been updated for this period. As of July 17, 2013 - Reimbursement payment has been issued for the Peninsula Avenue project.</p> <p>As of January 6, 2014 All elink reporting is up to date. *Funding was provided in part by the Clean Water Fund from the Clean Water, Land and Legacy Amendment.</p>	

Grant Activity - 2012 CWF (Admin) St Croix Basin Gully Stabilization		
Description	The Chisago SWCD Resource Conservationist will be responsible for all eLINK, website, and final reporting documents for the project. The Chisago SWCD District Administrator will coordinate the project and provide the data to the Resource Conservationist to complete all BWSR reporting requirements.	
Category	ADMINISTRATION/COORDINATION	
Start Date	12-Nov-12	End Date
Rates and Hours		
Actual Results	<p>As of December 17, 2012 All elink reporting has been updated for this period. As of July 18, 2013-contracts have been developed for the Joe Mallery Gully project.</p> <p>As of January 6, 2014 All elink reporting has been updated. *Funding was provided in part by the Clean Water Fund from the Clean Water, Land and Legacy Amendment.</p>	

Grant Activity - 2012 CWF (Proj Dev) Chain of Lakes SRA BMPs

<p>Description</p>	<p>Through a partnership with the Chisago Lakes Lake Improvement District (LID), the Chisago SWCD has completed the subwatershed assessments for the communities of Center City, Lindstrom and Chisago City, all within the Chisago Lakes Chain of Lakes watershed. In total, 178 catchments (small watersheds) were identified and modeled using P8 modeling as part of the subwatershed assessments process. Through this process it has been calculated that more than 500 lbs/year of total phosphorus, 150,000 lbs/year of total suspended solids and 450 ac-ft of water/year is entering the Chisago Lakes Chain of Lakes through untreated stormwater runoff.</p> <p>A list of high priority subwatersheds have been identified where the "best bang for the buck" projects can do the most good. In each of these subwatersheds, possible projects are identified. The next step is to look closely into each catchment to determine where the best locations for BMPs are. SWCD staff will be contacting landowners to discuss the project and to sign up willing landowners for BMPs in their yards. This process will include ranking BMP possibilities by priority, producing brochures, contacting landowners, giving presentations about the project, meeting with landowners, and answering questions.</p>	
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>	
<p>Start Date</p>	<p>7-May-12</p>	<p>End Date</p>
<p>Rates and Hours</p>		
<p>Actual Results</p>	<p>As of December 17, 2012 Landowners of high priority lots along Maple Street and an adjacent alley in Lindstrom have been contacted and offered cost share assistance in implementing rain gardens. Eight rain gardens have been designed on six lots.</p> <p>As of August 9, 2013-The owner of the Northwoods Roasterie was contacted about installing a rain garden with parking lot reconstruction.</p> <p>As of January 6, 2014 Project development has started on Grand Avenue in Center City. *Funding was provided in part by the Clean Water Fund from the Clean Water, Land and Legacy Amendment.</p>	

Grant Activity - 2012 CWF (Proj Dev) St Croix Basin Gully Stabilization

<p>Description</p>	<p>In 2011, the Chisago SWCD received a Clean Water Fund grant to inventory the active gully erosion sites along the St. Croix River escarpment from the Wild River State Park entrance south to the Chisago/Washington county line. This inventory will be utilized to contact landowners and begin the process of developing a plan to implement Best Management Practices (BMPs) to correct the problems. The inventory and report are scheduled to be completed in 2012.</p> <p>The SWCD's goal with this grant request is to begin working with willing landowners to implement BMPs to correct active gully erosion sites along the escarpment. This will be accomplished by working with landowners to design a plan that both meets their needs and stabilizes the gully to help reduce the amount of phosphorus and sediment deposited into the St. Croix River.</p>	
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>	
<p>Start Date</p>	<p>12-Nov-12</p>	<p>End Date</p>
<p>Rates and Hours</p>		
<p>Actual Results</p>	<p>As of December 17, 2012 Letters were sent out to the highest priority landowners offering technical and financial assistance. Several identified gullies were not included in the mailing. One landowner has been approached with grant money and was uninterested. Another gully has already been fixed. The remaining high priority gully landowners were contacted. As of August 9, three landowners have designs for projects. Three other landowners are interested in projects in the next year.</p> <p>As of January 6, 2014 Final project development with the Thibodeau project was completed.</p> <p>*Funding was provided in part by the Clean Water Fund from the Clean Water, Land and Legacy Amendment.</p>	

Grant Activity - 2012 CWF (Tech Eng) Chain of Lakes SRA BMPs

Description	The Chisago SWCD Water Resource Specialist (Casey Thiel) and Water Resource Technician (Mary Jo Youngbauer) will assistance from contracted Engineering Firms {PE's w/ Emmons & Olivier Resources, Joe Triplett (PE) - Chisago County Public Work Director, Mike Meyer (PE), and/or a local City Engineer} with survey work. Design work will be completed by Chisago SWCD (Mary Jo Youngbauer, Water Resource Technician, Casey Thiel, Water Resource Specialist, who have TAA for filter strips, critical area plantings and riparian forested buffers), Washington Conservation District (Andrew Schilling) or contracted Engineering Firm (PE with Emmons & Olivier Resources, PE Joe Triplett - Chisago County Public Work Director and Highway Engineer or PE Mike Meyer).	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date	7-May-12	End Date
Rates and Hours		
Actual Results	<p>As of December 17, 2012 Designs for eight rain gardens along Maple Street and an adjacent alley in Lindstrom MN, were approved by Andrew Schilling. As of August 9, 2013-Design was completed and approved for the Northwoods Roasterie rain garden. Technical approval given by MSA PE Jon Herdegan (City of Lindstrom). Design has begun on rain gardens in the Surfland Development in Chisago City.</p> <p>As of January 6, 2014 All design work is completed and approved for Surfland Development in Chisago City. Preliminary design work is started for Grand Avenue in Center City.</p> <p>*Funding was provided in part by the Clean Water Fund from the Clean Water, Land and Legacy Amendment.</p>	

Grant Activity - 2012 CWF (Tech Eng) St Croix Basin Gully Stabilization

Description	The Chisago SWCD Resource Conservationist (Jason Rehn) and District Administrator (Craig Mell) with assistance from Professional Engineers {Nichole Sternquist (PE) - Land and Water Consultants or USDA NRCS Area Engineer Jim Duseck} for survey work. Design work will be completed by Professional Engineers {Nichole Sternquist (PE) - Land and Water Consultants or USDA NRCS Area Engineer Jim Duseck}.	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date		End Date
Rates and Hours		
Actual Results	<p>As of December 17, 2012 No activity has taken place yet. Once the SWCD hears back from interested landowners, technical assistance and engineering will begin on individual projects.</p> <p>As of July 18, 2013-surveys and designs have been completed for Mallery, Thibodeau, and Peltier projects.</p> <p>As of January 6, 2014 SWCD staff time \$4842.50. Mike Mayer-Mallery Project \$3800.00 Mike Mayer-Peltier Project \$3200.00. Mike Mayer-Thibodeau Project \$1700.00.</p> <p>*Funding was provided in part by the Clean Water Fund from the Clean Water, Land and Legacy Amendment.</p>	

Grant Activity - 2012 CWF - Chain of Lakes SRA BMPs - Maple Street

Description	This project is a neighborhood retrofit to reduce the amount of stormwater runoff reaching an existing large gully that drains directly to North Lindstrom Lake. The project will include eight rain gardens.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	15-Oct-12	End Date	
Rates and Hours			
Actual Results	<p>As of December 17, 2012</p> <p>A contractor was hired. Construction was delayed until spring of 2012 due to the contractor's schedule and how late it was in the season.</p> <p style="text-align: center;">As of July 18, 2013-Construction began on the project on July 3, 2013.</p> <p>As of November 21, 2013</p> <p>This project is completed. The City of Lindstrom has been reimbursed. Seven new rain gardens were installed.</p>		

Activity Action - Legacy Migrated Data

Practice	712M - Bioretention Basin	Count of Activities	8
Description	Albers Alley Rain Garden		
Proposed Size / Units	430 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	

Final Indicator for Legacy Migrated Data

Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.5
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Final Indicator for Legacy Migrated Data

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.77
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Final Indicator for Legacy Migrated Data

Indicator Name	SEDIMENT (TSS)	Value	0.18
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Activity Action - Legacy Migrated Data			
Practice	712M - Bioretention Basin	Count of Activities	8
Description	Carlson Curb Cut Rain Garden		
Proposed Size / Units	360 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	
Final Indicator for Legacy Migrated Data			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.39
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.58
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		
Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	0.12
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Activity Action - Legacy Migrated Data			
Practice	712M - Bioretention Basin	Count of Activities	8
Description	Fuge Boulevard Rain Garden		
Proposed Size / Units	105 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	
Final Indicator for Legacy Migrated Data			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.1
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.24
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		
Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	0.07

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Activity Action - Legacy Migrated Data

Practice	712M - Bioretention Basin	Count of Activities	8
Description	Linehan Alley Rain Garden		
Proposed Size / Units	415 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	

Final Indicator for Legacy Migrated Data

Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.5
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Final Indicator for Legacy Migrated Data

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.77
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Final Indicator for Legacy Migrated Data

Indicator Name	SEDIMENT (TSS)	Value	0.18
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Activity Action - Legacy Migrated Data

Practice	712M - Bioretention Basin	Count of Activities	8
Description	Strand/Tillman Boulevard Rain Garden		
Proposed Size / Units	125 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	

Final Indicator for Legacy Migrated Data

Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.28
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Final Indicator for Legacy Migrated Data

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.45
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model

Waterbody	North Lindstrom Lake		
Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	0.12
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Activity Action - Legacy Migrated Data			
Practice	712M - Bioretention Basin	Count of Activities	8
Description	Strand/Tillman Rain Leader Disconnect Rain Garden		
Proposed Size / Units	165 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	

Activity Action - Legacy Migrated Data			
Practice	712M - Bioretention Basin	Count of Activities	8
Description	Turman Back Yard Rain Garden		
Proposed Size / Units	220 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	0.03
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Final Indicator for Legacy Migrated Data			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.15
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Activity Action - Legacy Migrated Data			
Practice	712M - Bioretention Basin	Count of Activities	8
Description	Turman Boulevard Rain Garden		
Proposed Size / Units	150 COUNT	Lifespan	10 Years
Actual Size/Units	1 COUNT	Installed Date	
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.45
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		
Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	0.12
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		
Final Indicator for Legacy Migrated Data			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.28
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Grant Activity - 2012 CWF-Chain of Lakes SRA BMPs-Temporary Project			
Description	Install approximately 14,000 square feet of bioretention projects in the Chain of Lakes area. These practices will include: rain leader disconnect rain gardens, curb cut rain gardens, permeable surfaces and filtration practices.		
Category	SPECIAL PROJECTS		
Start Date	27-Nov-12	End Date	
Rates and Hours			
Actual Results			

Grant Activity - 2012 CWF-St Croix River Basin Gully Escarpment-Temporary Project		
Description	Gully stabilization projects will be constructed at active gully erosion sites where landowners are willing to participate.	
Category	SPECIAL PROJECTS	
Start Date		End Date
Rates and Hours		
Actual Results	No construction activity has taken place yet.	

Grant Activity - Center City Marine Dock and Lift		
Description	This project was developed under the 2011 CWF SRA grant, but was re-encumbered under this grant because of delays that will make it unlikely that the project will be completed by the 2011 grant deadline. A large 2-cell rain garden will capture runoff from the street and parking lot.	
Category	URBAN STORMWATER MANAGEMENT PRACTICES	
Start Date		End Date
Rates and Hours		
Actual Results	<p>As of July 18, 2013-the City of Center City PE Les Matteffy is finalizing an easement on the parking lot of the Marine Dock and Lift to install a trench drain.</p> <p>As of September 19, 2013-This project has been officially cancelled. The landowner refused to give the City an easement across the parking lot in order to install a trench drain.</p>	

Grant Activity - Chisago City Surfland Neighborhood		
Description	This is a neighborhood retrofit project. Four new rain gardens will be installed on three parcels along with a road re-surfacing project done by the City of Chisago City.	
Category	URBAN STORMWATER MANAGEMENT PRACTICES	
Start Date		End Date
Rates and Hours		
Actual Results	<p>As of January 6, 2014</p> <p>Construction is complete on the four rain gardens. Due to the weather, plants were not installed, but will be planted in the spring. A partial payment was issued to the City of Chisago City for the portion of the work completed thus far.</p>	

Activity Action - Smith Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	4
Description			
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Smith Rain Garden			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.3
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		
Final Indicator for Smith Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.09
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		
Final Indicator for Smith Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		

Activity Action - Smith Rain Garden 2			
Practice	712M - Bioretention Basin	Count of Activities	4
Description			
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Smith Rain Garden 2			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		
Final Indicator for Smith Rain Garden 2			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.3
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		
Final Indicator for Smith Rain Garden 2			
Indicator Name	SEDIMENT (TSS)	Value	0.06

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		

Activity Action - Wynia/Carlson Rain Garden

Practice	712M - Bioretention Basin	Count of Activities	4
Description			
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Final Indicator for Wynia/Carlson Rain Garden

Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.3
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		

Final Indicator for Wynia/Carlson Rain Garden

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		

Final Indicator for Wynia/Carlson Rain Garden

Indicator Name	SEDIMENT (TSS)	Value	0.09
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		

Activity Action - Casey Rain Garden

Practice	712M - Bioretention Basin	Count of Activities	4
Description			
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Final Indicator for Casey Rain Garden

Indicator Name	SEDIMENT (TSS)	Value	0.06
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		

Final Indicator for Casey Rain Garden

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model

Waterbody	Chisago Lake		
Final Indicator for Casey Rain Garden			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.2
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	Chisago Lake		

Grant Activity - City of Lindstrom Northwoods Roasterie			
Description	A rain garden captures stormwater runoff from the parking lot and drive thru lane.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	<p>As of July 19, 2013-The major construction is complete. Work remaining includes mulching and planting.</p> <p>As of January 6, 2014 The final mulching and planting work was completed in the fall. The project is now complete and reimbursement has been issued.</p>		

Activity Action - Northwoods Roasterie Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	1
Description			
Proposed Size / Units	0.05 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Northwoods Roasterie Rain Garden			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.44
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		
Final Indicator for Northwoods Roasterie Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.47
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		
Final Indicator for Northwoods Roasterie Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.08

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Lindstrom Lake		

Grant Activity - Grand Avenue - Loren's Park			
Description	A gravel road at the entrance of the park currently washes out directly into the lake with every rainfall. To solve this erosion and prevent further gravel from depositing in the lake, a pretreatment chamber, rock-lined channel, vegetated swale, and rain garden treatment train will be installed.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	As of January 6, 2014 The project was started in late fall, but due to weather, will not be finished until spring. The pretreatment chamber was installed, with emergency overflow pipes to prevent erosion during construction.		

Grant Activity - Joe Mallery South Basin			
Description	Joe Mallery South Basin		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	As of January 6, 2014 A water and sediment control basin was installed to stabilize active gully erosion resulting from runoff from an agricultural field. Final payment was issued 9/18/13. The project is complete.		

Activity Action - Joe Mallery BMP			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	Large wascob.		
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Joe Mallery BMP			
Indicator Name	SEDIMENT (TSS)	Value	75

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	St. Croix River		
Final Indicator for Joe Mallery BMP			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	75
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	St. Croix River		
Final Indicator for Joe Mallery BMP			
Indicator Name	SOIL (EST. SAVINGS)	Value	80
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	St. Croix River		

Grant Activity - Peltier North Basin			
Description	A Water and Sediment Control Basin is needed to stabilize a gully on the edge of the field. This gully is identified as high priority in the St. Croix Escarpment Inventory.		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	As of January 6, 2014 A large Water and Sediment Control Basin was installed on the edge of the field to stabilize the gully. Final payment was issued 11/20/2013. This project is complete.		

Activity Action - Peltier North Basin			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description			
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Peltier North Basin			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	15
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	St. Croix River		

Final Indicator for Peltier North Basin			
Indicator Name	SOIL (EST. SAVINGS)	Value	31
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	St. Croix River		
Final Indicator for Peltier North Basin			
Indicator Name	SEDIMENT (TSS)	Value	15
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	St. Croix River		

Grant Activity - Peltier SE/SW Basin			
Description	2 Water and sediment control basins are needed to stabilize a field-edge gully. The gully is identified in the St. Croix Escarpment Inventory as high priority.		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	As of January 6, 2014 Two water and sediment control basins were installed to help stabilize a large gully on the edge of the field that drained to the St. Croix River. Final payment was issued on 11/20/2013. The project is complete.		

Activity Action - Peliter SE/SW Basin			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description			
Proposed Size / Units	2 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Final Indicator for Peliter SE/SW Basin			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	23
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	St. Croix River		

Final Indicator for Peliter SE/SW Basin			
Indicator Name	SEDIMENT (TSS)	Value	27
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)

Waterbody	St. Croix River		
Final Indicator for Peliter SE/SW Basin			
Indicator Name	SOIL (EST. SAVINGS)	Value	54
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	St. Croix River		

Grant Activity - Peltier SW Basin			
Description	Peltier SW Basin		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results			

Grant Activity - Peninsula Avenue			
Description	Two rain gardens were installed in a neighborhood retrofit.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date		End Date	
Rates and Hours			
Actual Results	<p>As of January 6, 2014</p> <p>Two large rain gardens were installed. They capture runoff from the road and yards of the surrounding homes. The project is complete and reimbursement has been issued.</p>		

Activity Action - Scanlon Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	2
Description			
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Final Indicator for Scanlon Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Center Lake		

Final Indicator for Scanlon Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Center Lake		
Final Indicator for Scanlon Rain Garden			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.3
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Center Lake		

Activity Action - Calin Rain Garden			
Practice	712M - Bioretention Basin	Count of Activities	2
Description			
Proposed Size / Units	1 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Final Indicator for Calin Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.98
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Center Lake		

Final Indicator for Calin Rain Garden			
Indicator Name	SEDIMENT (TSS)	Value	0.22
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Center Lake		

Final Indicator for Calin Rain Garden			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	0.72
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	P8 Urban Catchment Model
Waterbody	North Center Lake		

Grant Activity - Thibodeau		
Description	A water and sediment control basin will be installed to stabilize gully erosion on an agricultural field.	
Category	AGRICULTURAL PRACTICES	
Start Date		End Date
Rates and Hours		
Actual Results	As of January 6, 2014. A design is complete and a contractor has been hired. Construction is expected to begin in May of 2014.	

Grant Attachments

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/09/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/09/2013
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/23/2013
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/08/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/03/2013
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/03/2013
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/26/2013
Financial Report	Progress	Progress Dated - 11/26/2013
Financial Report	Grant	2012 - Clean Water Assistance - Chisago (SWCD)
grant_app_general-added.rpt	Grant	2012 - Clean Water Assistance - Chisago (SWCD)
grant_app_general-added.rpt	Grant	2012 - Clean Water Assistance - Chisago (SWCD)
grant_app_general.rpt	Grant	2012 - Clean Water Assistance - Chisago (SWCD)
grant_app_general.rpt	Grant	2012 - Clean Water Assistance - Chisago (SWCD)