Grant All-Detail Report
Projects and Practices 2015

Grant Title - Green Lakeshore Rehabilitation and Stormwater Treatment
Grant ID - C15-1304
Organization - Isanti SWCD

Grant Awarded Amount	**$99,736.00**	**Grant Execution Date**	**3/31/2015**
Required Match Amount	$24,934.00	**Grant End Date**	12/31/2018
Required Match %	25%	**Grant Day To Day Contact**	Tiffany Determan

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	$99,736.00	$70,679.94	$29,056.06
Total Match Amount	$24,934.00	$12,224.56	$12,709.44
Total Other Funds	$0.00	$0.00	$0.00
Total	**$124,670.00**	**$82,904.50**	**$41,765.50**

**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	Match
Construction	Streambank or Shoreline Protection	Current State Grant	Green Lakeshore Rehabilitation and Stormwater Treatment	$90,046.00	$60,989.94	10/18/2016	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Match
Construction	Streambank or Shoreline Protection	Local Fund		$3,024.00	$5,605.11	10/24/2016	Y
Grant admin	Administration /Coordination	Local Fund		$2,496.00	$393.85	3/25/2016	Y
Project coordination	Technical/Engineering Assistance	Current State Grant	Green Lakeshore Rehabilitation and Stormwater Treatment	$9,690.00	$9,690.00	1/29/2016	N
Project coordination	Technical/Engineering Assistance	Local Fund		$19,414.00	$6,225.60	3/25/2016	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
580 - Streambank and Shoreline Protection	1	1	0.05 AC	0.05 AC
342 - Critical Area Planting	1	1	0.03 AC	0.03 AC
342 - Critical Area Planting	1	1	0.02 AC	0.02 AC
342 - Critical Area Planting	1	1	0.1 AC	0.1 AC
580 - Streambank and Shoreline Protection	1	1	0.06 AC	0.06 AC
580 - Streambank and Shoreline Protection	1	1	0.11 AC	0.11 AC
342 - Critical Area Planting	2	1	0.07 AC	0.07 AC
580 - Streambank and Shoreline Protection	1	1	0.04 AC	0.04 AC
580 - Streambank and Shoreline Protection	1	1	0.03 AC	0.03 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Construction	VOLUME REDUCED (ACRE-FEET/YEAR)	0.08 ACRE-FEET/YR	Green Lake	WINSLAMM	
Construction	PHOSPHORUS (EST. REDUCTION)	1.28 LBS/YR	Green Lake	WINSLAMM	Est is a combo of WI NRCS bank erosion, BWSR bank erosion, Winslamm
Construction	SEDIMENT (TSS)	8.34 TONS/YR	Green Lake	BWSR CALC (STREAM & DITCH STABILIZATION)	Estimate is a combo of WI NRCS bank erosion, BWSR bank erosion, WinSLAMM

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	6.82	TONS/YR
Total Suspended Solids (TSS)	0.71	Mg/L
PHOSPHORUS (EST. REDUCTION)	13.08	LBS/YR

Grant Activity

Grant Activity - Construction			
Description	This project will install practices to improve water quality in Green Lake, Isanti Co. We will install approximately 780 linear feet of stabilized lakeshore with an emphasis on bioengineering techniques (rock used where necessary will preferably be inter-planted), native plants and locating buffers/swales at points of concentrated overland flow into the lake. By targeting properties that are eroding and/or with concentrated overland flow to the lake we will reduce suspended solids discharge by 16,697 lbs/yr and phosphorus by 1.3 lbs/yr. We will also establish emergent native plants which indirectly improve water quality. Candidate sites will be prioritized based upon: length and severity of eroding shoreline to be stabilized, size of vegetated swales/buffers to be installed, installing buffers/swales in areas of concentrated inflow, and landowner cooperation (including strength of landowner commitment to long term maintenance). Ice jacking is a concern. It is a cause of some of the most severe erosion, but also a threat to project longevity. Sites with recurring major ice damage (based and landowner knowledge) will be avoided or may require "harder" engineering techniques. Expenses for this activity will include construction materials, labor, equipment, permit(s) and similar.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Jan-16	**End Date**	
Has Rates and Hours?	No		
Actual Results	9 stormwater reduction practices are being implemented with this grant. All sites were prioritized using methods used in the Green Lake Stormwater Retrofit Assessment and explained in the grant application. The majority of project construction occurred fall 2016, aquatic plants and woody plants will be planted spring 2017. Projects as follows: Carlson: Lakeshore stabilization, 1,200 sq ft Chilson: 837 sq ft Dancik: 2,999 sq ft buffer plus rain garden 485 sq ft Glenn: 3,000 sq ft Hage: 5,000 sq feet Hammer: 2,334 sq feet Lind: 1,937 sq ft		

	Orton: 2,724 sq ft Roos: 1,385 sq ft Land owners are paying a combination of cash match and in-kind time.

Activity Action - Hammer Lakeshore stabilization			
Practice	580 - Streambank and Shoreline Protection	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.05 AC	**Lifespan**	10 Years
Actual Size/Units	0.05 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Line(s)		

Final Indicator for Hammer Lakeshore stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	3.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Final Indicator for Hammer Lakeshore stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	1.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green lake		

Activity Action - Carlson Lakeshore Stabilization			
Practice	342 - Critical Area Planting	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.03 AC	**Lifespan**	10 Years
Actual Size/Units	0.03 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Polygon(s)		

Final Indicator for Carlson Lakeshore Stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	3.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (GULLY STABILIZATION)
Waterbody	Green Lake		

Final Indicator for Carlson Lakeshore Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	2.75
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	BWSR CALC (GULLY STABILIZATION)
Waterbody	Green lake		

Activity Action - Chilson Lakeshore stabilization			
Practice	342 - Critical Area Planting	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.02 AC	**Lifespan**	10 Years
Actual Size/Units	0.02 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Polygon(s)		

Final Indicator for Chilson Lakeshore stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	.05
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Final Indicator for Chilson Lakeshore stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	.18
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Activity Action - Dancik Lakeshore Stabilization			
Practice	342 - Critical Area Planting	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.07 AC	**Lifespan**	10 Years
Actual Size/Units	0.07 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Polygon(s)		

Final Indicator for Dancik Lakeshore Stabilization			
Indicator Name	Total Suspended Solids (TSS)	**Value**	.71
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) Mg/L	**Calculation Tool**	WINSLAMM
Waterbody	Green lake		

Final Indicator for Dancik Lakeshore Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	.25
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Activity Action - Dancik Rain Garden			
Practice	342 - Critical Area Planting	**Count of Activities**	1
Description	rain garden		
Proposed Size / Units	0.10 AC	**Lifespan**	10 Years
Actual Size/Units	0.10 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Polygon(s)		

Final Indicator for Dancik Rain Garden			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	.003
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Final Indicator for Dancik Rain Garden			
Indicator Name	SEDIMENT (TSS)	**Value**	1.38
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Activity Action - Glenn Lakeshore stabilization			
Practice	342 - Critical Area Planting	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.07 AC	**Lifespan**	10 Years
Actual Size/Units	0.07 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Polygon(s)		

Final Indicator for Glenn Lakeshore stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	1.39
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Final Indicator for Glenn Lakeshore stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	.56
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Activity Action - Hage Lakeshore Stabilization			
Practice	580 - Streambank and Shoreline Protection	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.11 AC	**Lifespan**	10 Years
Actual Size/Units	0.11 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Line(s)		

Final Indicator for Hage Lakeshore Stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	.36
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Final Indicator for Hage Lakeshore Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	3.76
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Activity Action - Lind Lakeshore Stabilization			
Practice	580 - Streambank and Shoreline Protection	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.04 AC	**Lifespan**	10 Years
Actual Size/Units	0.04 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Line(s)		

Final Indicator for Lind Lakeshore Stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	.17
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Final Indicator for Lind Lakeshore Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	.42
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Activity Action - Orton Lakeshore Stabilization			
Practice	580 - Streambank and Shoreline Protection	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.06 AC	**Lifespan**	10 Years
Actual Size/Units	0.06 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Line(s)		

Final Indicator for Orton Lakeshore Stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	.01
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Final Indicator for Orton Lakeshore Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	.35
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Activity Action - Roos lakeshore stabilization			
Practice	580 - Streambank and Shoreline Protection	**Count of Activities**	1
Description	Stabilization/stormwater project		
Proposed Size / Units	0.03 AC	**Lifespan**	10 Years
Actual Size/Units	0.03 AC	**Installed Date**	18-Oct-16
Mapped Activities	1 Line(s)		

Final Indicator for Roos lakeshore stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	.19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Final Indicator for Roos lakeshore stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	.372
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	WINSLAMM
Waterbody	Green Lake		

Grant Activity - Grant admin			
Description	Grant admin, including financial record-keeping, reporting, etc.		
Category	ADMINISTRATION/COORDINATION		
Start Date		**End Date**	
Has Rates and Hours?	Yes		
Actual Results			

Grant Activity - Project coordination			
Description	Project coordination will include partner meetings, permiting, site selection, project promo to landowners at high priority project sites, construction designs, bid processes, construction oversight, community engagement and similar.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	31-Mar-15	**End Date**	
Has Rates and Hours?	Yes		
Actual Results	SWCD staff have: - Updated our list of candidate project sites through field surveys. Lake flooding had altered the landscape sufficiently to demand a fresh look at potential project sites. - Scored project sites to prioritize their cost effectiveness at achieving project goals. - Engaged landowners through group and individual meetings. 11 have signed "letters of intent," indicating an interest level strong enough to justify design work. - Began project permitting with the MN DNR. - Surveyed each project site to collect the information needed for design preparation. Design work will continue through early 2016. Thereafter, construction bidding and construction will take place.		

Grant Attachments

Document Name	Document Type	Description
2015 Competitive Grant	Grant Agreement	2015 Competitive Grant - Isanti SWCD
2015 Competitive Grant executed	Grant Agreement	2015 Competitive Grant - Isanti SWCD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/19/2016

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/05/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 10/28/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 10/11/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/24/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/23/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/23/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/13/2017
Application	Workflow Generated	Workflow Generated - Application - 09/25/2014
Financial report	Grant	Green Lakeshore Rehabilitation and Stormwater Treatment
Green Lake Improvement District support letter	Grant	Green Lakeshore Rehabilitation and Stormwater Treatment
Green Lakeshore and Stormwater Project Image	Grant	Green Lakeshore Rehabilitation and Stormwater Treatment
Second payment authorizatio	Grant	Green Lakeshore Rehabilitation and Stormwater Treatment
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/30/2015
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/28/2015
grantmap_12543_2014-09-05_03-45-28-PM.jpg	Grant	Green Lakeshore Rehabilitation and Stormwater Treatment