



## Grant All-Detail Report Disaster Relief 2012

**Grant Title** - 2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)

**Grant ID** - P12-8630

**Organization** - St Louis, South SWCD

<b>Grant Awarded Amount</b>	<b>\$1,938,403.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	<b>\$0.00</b>	<b>Grant End Date</b>	12/31/2015
<b>Required Match %</b>	<b>0%</b>	<b>Grant Day To Day Contact</b>	R.C. Boheim

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$1,334,982.00	\$1,271,475.96	\$666,927.04
Total Match Amount			\$0.00
Total Other Funds	\$187,500.00	\$187,500.00	\$0.00
<b>Total</b>	<b>\$1,522,482.00</b>	<b>\$1,458,975.96</b>	<b>\$666,927.04</b>

\*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
SSL-014 Betros Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$225,000.00	\$201,166.00	12/16/2015	N
SSL-014 Betros Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$56,250.00	\$58,386.32	12/31/2015	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSL-021 Cherven Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$18,318.00	\$18,317.22	8/20/2014	N
SSL-021 Cherven Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$4,579.00	\$2,463.00	2/14/2014	N
SSL-026 Davis Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$15,000.00	\$6,595.00	6/25/2014	N
SSL-026 Davis Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$3,750.00	\$401.80	12/31/2015	N
SSL-029 Paul Fleckenstein Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$125,000.00	\$103,214.23	10/22/2015	N
SSL-029 Paul Fleckenstein Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$31,250.00	\$16,348.83	12/31/2015	N
SSL-032 Grobe Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$134,000.00	\$117,092.08	10/30/2014	N
SSL-032 Grobe Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$33,500.00	\$14,774.12	12/31/2015	N
SSL-033 Hakala Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$7,000.00	\$1,245.00	11/2/2015	N
SSL-033 Hakala Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$1,750.00	\$598.74	12/31/2015	N
SSL-035 John Hansen Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$30,000.00	\$22,687.71	2/25/2014	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSL-035 John Hansen Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$7,500.00	\$290.00	12/21/2013	N
SSL-048 John Lane Construction	Streambank or Shoreline Protection	Other Funds	2012 - Minnesota Flood Relief Grant Phase 2B (St Louis, South..	\$187,500.00	\$187,500.00	12/18/2013	N
SSL-058 Menart / SSL-071 Pfeffer Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$0.00			N
SSL-058 Menart / SSL-071 Pfeffer Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$16,866.00	\$16,865.10	7/31/2014	N
SSL-060 Michaud and SSL-089 Winklesky Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$140,000.00	\$156,634.00	11/2/2015	N
SSL-060 Michaud and SSL-089 Winklesky Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$35,000.00	\$44,762.32	12/31/2015	N
SSL-061 Minotte Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$13,726.00	\$13,725.30	1/2/2014	N
SSL-061 Minotte Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$3,431.00	\$3,111.00	6/23/2014	N
SSL-068 Ozan Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$40,000.00	\$44,414.40	9/8/2015	N
SSL-068 Ozan Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$20,828.00	\$29,003.56	1/15/2016	N
SSL-069 Packingham Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$10,085.00	\$10,085.00	8/26/2014	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSL-069 Packingham Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$289.00	\$289.00	12/31/2014	N
SSL-070 Pederson Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$20,000.00	\$21,680.00	1/28/2016	N
SSL-070 Pederson Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$5,000.00	\$30,296.03	1/15/2016	N
SSL-085/090 Sylvester & Wuchter Technical-Engineering	Technical/Engineering Assistance	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$45,530.00	\$45,700.20	12/31/2015	N
SSL-085/090 Sylvester & Wuckter Construction	Streambank or Shoreline Protection	Current State Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South..	\$291,330.00	\$291,330.00	11/25/2014	N

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
580 - Streambank and Shoreline Protection	1	1	800 LINEAR FEET	800 LINEAR FEET
584 - Stream Channel Stabilization	1	1	250 LINEAR FEET	250 LINEAR FEET
580 - Streambank and Shoreline Protection	3	1	100 LINEAR FEET	100 LINEAR FEET
580 - Streambank and Shoreline Protection	1	1	210 LINEAR FEET	210 LINEAR FEET
580 - Streambank and Shoreline Protection	1	2	120 LINEAR FEET	120 LINEAR FEET
580 - Streambank and Shoreline Protection	1	1	30 LINEAR FEET	30 LINEAR FEET
580 - Streambank and Shoreline Protection	1	1	75 LINEAR FEET	75 LINEAR FEET

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
584 - Stream Channel Stabilization	1	1	350 LINEAR FEET	350 LINEAR FEET
580 - Streambank and Shoreline Protection	1	2	250 LINEAR FEET	250 LINEAR FEET
580 - Streambank and Shoreline Protection	1	1	75 LINEAR FEET	70 LINEAR FEET
580 - Streambank and Shoreline Protection	2	1	50 LINEAR FEET	50 LINEAR FEET

### 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
SOIL (EST. SAVINGS)	1,602.88	TONS/YR
SEDIMENT (TSS)	1,743.75	TONS/YR
PHOSPHORUS (EST. REDUCTION)	1,763.67	LBS/YR

### Grant Activity

Grant Activity - SSL-014 Betros Construction			
Description	SSL-014 Betros		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Jul-13	End Date	12-Oct-15
Has Rates and Hours?	No		
Actual Results	Feb 1 2016: Amity Creek. Streambank stabilization completed, October of 2015. All payments made.		

Activity Action - stream / bank restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	25 foot eroded bank, 250 linear feet-stream restoration project.		
Proposed Size / Units	250.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	250.00 LINEAR FEET	Installed Date	8-Oct-15

Final Indicator for stream / bank restoration			
Indicator Name	SOIL (EST. SAVINGS)	Value	4.38
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	french river		

Grant Activity - SSL-014 Betros Technical-Engineering			
Description	SSL-014 Betros Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Aug-13	End Date	12-Oct-15
Has Rates and Hours?	No		
Actual Results	TSA #3 completed design, acquired permits. Construction slated for late summer of 2015.  Feb 1 2016: Amity Creek. Streambank stabilization completed. All payments made.		

Grant Activity - SSL-021 Cherveny Construction			
Description	SSL-021 Cherveny TSA will do design neighbor Thompson and one living at residence on group addendum		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Feb-13	End Date	10-Oct-14
Has Rates and Hours?	No		
Actual Results	250 feet of 34th ave e creek restored/stabilized to B channel with riffles and step pool structures.		

Activity Action - gully stabilization			
Practice	584 - Stream Channel Stabilization	Count of Activities	1
Description	gully stabilization through 2 landowners' backyards. 34th ave east creek headwaters.		
Proposed Size / Units	250.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	250.00 LINEAR FEET	Installed Date	1-Jun-14

Final Indicator for gully stabilization			
Indicator Name	SEDIMENT (TSS)	Value	131.25
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	36 th ave e creek		

Grant Activity - SSL-021 Cherveney Technical-Engineering			
Description	SSL-021 Cherveney Technical-Engineering.Completed by TSA.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Feb-13	End Date	10-Oct-14
Has Rates and Hours?	No		
Actual Results	250 feet of 34th ave e creek restored/stabilized to B channel with riffles and step pool structures.		

Grant Activity - SSL-026 Davis Construction			
Description	SSL-026 Davis Construction		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	8-Nov-13	End Date	22-Nov-13
Has Rates and Hours?	No		
Actual Results	eroded gully restoration / clean out of drainageway / installation of fabric and rip rap.		

Activity Action - gully stabilization			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	retaining wall damaged, gully eroded. 30 feet of gully stabilized with fabric and riprap.		
Proposed Size / Units	30.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	30.00 LINEAR FEET	Installed Date	22-Nov-13

Final Indicator for gully stabilization			
Indicator Name	SEDIMENT (TSS)	Value	1.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	unnamed drainage		

Grant Activity - SSL-026 Davis Technical-Engineering			
Description	SSL-026 Davis Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	21-Dec-12	End Date	22-Nov-13
Has Rates and Hours?	No		
Actual Results	landowner consultation/visit.  eroded gully restoration / clean out of drainageway / installation of fabric and rip rap.		

Grant Activity - SSL-029 Paul Fleckenstein Construction			
Description	SSL-029		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Apr-13	End Date	08-Oct-15
Has Rates and Hours?	No		
Actual Results	partial stabilization completed. majority of construction completed as of Oct 2015. Final payments to be arranged.  Feb 1 2016: Construction completed, all payments made.		



Activity Action - ssl - 029 project			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	streambank repair		
Proposed Size / Units	100.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	100.00 LINEAR FEET	Installed Date	8-Oct-15

Final Indicator for ssl - 029 project			
Indicator Name	SEDIMENT (TSS)	Value	700.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Keane Creek		

Final Indicator for ssl - 029 project			
Indicator Name	SOIL (EST. SAVINGS)	Value	700.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Keane Creek		

Final Indicator for ssl - 029 project			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	805.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Keane Creek		

Grant Activity - SSL-029 Paul Fleckenstein Technical-Engineering			
Description	SSL-029 Paul Fleckenstein Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Sep-12	End Date	08-Oct-15
Has Rates and Hours?	No		
Actual Results	<p>landowner discussions. hiring consultant and contractor to do work.</p> <p>partial stabilization completed.</p> <p>majority of construction completed as of Oct 2015. Final payments to be arranged.</p> <p>Feb 1 2016: Project completed. All payments made.</p>		

Grant Activity - SSL-032 Grobe Construction			
Description	SSL-032 Grobe Construction		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Apr-13	End Date	01-Oct-14
Has Rates and Hours?	No		
Actual Results	Contractor hired by landowner. Wall constructed on damaged slope by soil nail contractor.		

Activity Action - soil nail wall - chester creek			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Soil nailing company installed soil nails and shotcrete to stabilize a slumping area in homeowners back yard. Adjacent to Chester Creek.		
Proposed Size / Units	800.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	800.00 LINEAR FEET	Installed Date	30-Oct-14

Final Indicator for soil nail wall - chester creek			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Chester Creek		

Grant Activity - SSL-032 Grobe Technical-Engineering			
Description	SSL-032 Grobe Technical Engineering.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-13	End Date	01-Oct-14
Has Rates and Hours?	No		
Actual Results	Contractor hired by landowner. Wall constructed on damaged slope by soil nail contractor.		

Grant Activity - SSL-033 Hakala Construction			
Description	SSL-033 Hakala Construction		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	17-Jun-14	End Date	31-Oct-15
Has Rates and Hours?	No		
Actual Results	Feb 1 2016: Project completed October of 2015. All payments made.		

Activity Action - Keene Creek trib. bank stabilization			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Keene Creek trib. bank stabilization		
Proposed Size / Units	50.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	50.00 LINEAR FEET	Installed Date	31-Oct-15

Final Indicator for Keene Creek trib. bank stabilization			
Indicator Name	SEDIMENT (TSS)	Value	1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	keene crk.		

Grant Activity - SSL-033 Hakala Technical-Engineering			
Description	SSL-033 Hakala Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	21-Dec-13	End Date	31-Oct-15
Has Rates and Hours?	No		
Actual Results	landowner visit/consultation.  Feb 1 2016: Project completed. All payments made.		

Grant Activity - SSL-035 John Hansen Construction			
Description	SSL - 035 John Hansen Construction		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-May-13	End Date	19-Jun-13
Has Rates and Hours?	No		
Actual Results	Flood recovery - slope stabilization reimbursement		

Activity Action - ssl 035 project			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description			
Proposed Size / Units	100.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	100.00 LINEAR FEET	Installed Date	15-May-13

Final Indicator for ssl 035 project			
Indicator Name	SOIL (EST. SAVINGS)	Value	315.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	34th Ave East Creek		

Final Indicator for ssl 035 project			
Indicator Name	SEDIMENT (TSS)	Value	315.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)

Waterbody	34th ave creek		
Final Indicator for ssl 035 project			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	362.25
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	34th Ave East Creek		

Grant Activity - SSL-035 John Hansen Technical-Engineering			
Description	SSL-035 John Hansen Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-May-13	End Date	19-Jun-13
Has Rates and Hours?	No		
Actual Results	Flood recovery - slope stabilization reimbursement		

Grant Activity - SSL-058 Menart / SSL-071 Pfeffer Construction			
Description	SSL-058 Menart / SSL-071 Pfeffer Construction		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Apr-13	End Date	31-Dec-13
Has Rates and Hours?	No		
Actual Results	landowners went to buy-out with the city.		

Grant Activity - SSL-058 Menart / SSL-071 Pfeffer Technical-Engineering			
Description	SSL-058 Menart / SSL-071 Pfeffer		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-13	End Date	31-Dec-13
Has Rates and Hours?	No		
Actual Results	Geotechnical survey / soil borings, report complete from BARR Engineering,  landowners went to buy-out with the city.		

Grant Activity - SSL-060 Michaud and SSL-089 Winklesky Construction			
Description	SSL-060 Michaud and SSL-089 Winklesky Construction		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-May-13	End Date	01-Oct-15
Has Rates and Hours?	No		
Actual Results	walls are complete. follow-up erosion control will be needed in the spring if vegetation does not establish this fall. landowner has been notified of ongoing requirements via O&M plan. Final payments made.		

Activity Action - retaining walls, miller creek watershed			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	2 retaining walls to stabilize large slope failure at rear of adjacent landownmners homes.		
Proposed Size / Units	75.00 LINEAR FEET	Lifespan	30 Years
Actual Size/Units	70.00 LINEAR FEET	Installed Date	1-Oct-15

Final Indicator for retaining walls, miller creek watershed			
Indicator Name	SOIL (EST. SAVINGS)	Value	0.10
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Miller Creek Trib		

Grant Activity - SSL-060 Michaud and SSL-089 Winklesky Technical-Engineering			
Description	SSL-060 Michaud and SSL-089 Winklesky Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-May-13	End Date	01-Oct-15
Has Rates and Hours?	No		
Actual Results	walls are complete. follow-up erosion control will be needed in the spring if vegetation does not establish this fall. landowner has been notified of ongoing requirements via O&M plan. Final payments made.		

Grant Activity - SSL-061 Minotte Construction			
Description	flood recovery - stream stabilization		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Apr-13	End Date	10-Dec-13
Has Rates and Hours?	No		
Actual Results	Completed streambank project.		

Activity Action - ssl-061			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	stream stabilization		
Proposed Size / Units	75.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	75.00 LINEAR FEET	Installed Date	18-Dec-13

Final Indicator for ssl-061			
Indicator Name	SOIL (EST. SAVINGS)	Value	105.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Greys Creek		

Final Indicator for ssl-061			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	120.75
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Greys Creek		

Final Indicator for ssl-061			
Indicator Name	SEDIMENT (TSS)	Value	105.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Greys creek		

Grant Activity - SSL-061 Minotte Technical-Engineering			
Description	SSL-061 Minotte Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-13	End Date	10-Dec-13
Has Rates and Hours?	No		
Actual Results	completed gully stream bank stabilization		

Grant Activity - SSL-068 Ozan Construction			
Description	SSL-068 Ozan		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Apr-13	End Date	24-Jul-15
Has Rates and Hours?	No		
Actual Results	Amity creek stream / bank restoration. Construction completed July, 2015		

Activity Action - stream / bank restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	toewood bench construction / move creek away form eroding bank.		
Proposed Size / Units	100.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	100.00 LINEAR FEET	Installed Date	24-Jul-15

Final Indicator for stream / bank restoration			
Indicator Name	SEDIMENT (TSS)	Value	10.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	amity crk.		



Grant Activity - SSL-068 Ozan Technical-Engineering			
Description	SSL-068 Ozan Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	6-Aug-13	End Date	24-Jul-15
Has Rates and Hours?	No		
Actual Results	Consultant hired to develop design. Amity creek stream / bank restoration. Construction completed July, 2015		

Grant Activity - SSL-069 Packingham Construction			
Description	SSL-069 Packingham Construction		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	21-Aug-13	End Date	01-Aug-14
Has Rates and Hours?	No		
Actual Results	Installed practice		

Activity Action - project			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	streambank project		
Proposed Size / Units	50.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	50.00 LINEAR FEET	Installed Date	1-Aug-14

Final Indicator for project			
Indicator Name	SOIL (EST. SAVINGS)	Value	17.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Brewery Creek		

Final Indicator for project			
Indicator Name	SEDIMENT (TSS)	Value	17.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Brewery Creek		

Final Indicator for project			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	20.13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Brewery Creek		

Grant Activity - SSL-069 Packingham Technical-Engineering			
Description	SSL-069 Packingham Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Jun-13	End Date	01-Oct-14
Has Rates and Hours?	No		
Actual Results	completed technical assistance		

Grant Activity - SSL-070 Pederson Construction			
Description	SSL-070 Pederson		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Apr-13	End Date	31-Aug-15
Has Rates and Hours?	No		
Actual Results	landowner visit/consult.  This was a joint project with the City of Duluth and a private landowner. 350 feet of flood-damaged creek was restored with trout habitat and riparian area. Cost Share contract is with the City of Duluth for 20K and payment is pending Board Approval.		

Activity Action - Stewart Creek Stream Restoration			
Practice	584 - Stream Channel Stabilization	Count of Activities	1
Description	This was a combined project with the City of Duluth. TSA 3 did the design. City of Duluth hired the contractor. 400 feet of flood-damaged Stewart Creek was restored through one private property and City property.		
Proposed Size / Units	350.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	350.00 LINEAR FEET	Installed Date	31-Aug-15

Final Indicator for Stewart Creek Stream Restoration			
Indicator Name	SEDIMENT (TSS)	Value	4

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	stewart crk		

Grant Activity - SSL-070 Pederson Technical-Engineering			
Description	SSL-070 Pederson Technical-Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	10-Oct-13	End Date	
Has Rates and Hours?	No		
Actual Results	landowner visit/consult. project design.		

Grant Activity - SSL-085/090 Sylvester & Wuchter Technical-Engineering			
Description	SSL-085/090 Sylvester & Wuchter Technical and Engineering		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-13	End Date	19-Nov-14
Has Rates and Hours?	No		
Actual Results	SWCD hired consultants to complete project design. 210 feet of retaining wall installed to repair emergency flood damage.		

Grant Activity - SSL-085/090 Sylvester & Wuckter Construction			
Description	SSL-085/090 Sylvester & Wuchter Construction		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	20-Aug-14	End Date	19-Nov-14
Has Rates and Hours?	No		
Actual Results	SWCD hired consultants to complete project design. 210 feet of retaining wall installed to repair emergency flood damage.		

Activity Action - soil nail wall			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	soil nail wall		
Proposed Size / Units	210.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	210.00 LINEAR FEET	Installed Date	19-Nov-14

Final Indicator for soil nail wall			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	253.58
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lake Superior		

Final Indicator for soil nail wall			
Indicator Name	SEDIMENT (TSS)	Value	220.50
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lake Superior		

Final Indicator for soil nail wall			
Indicator Name	SOIL (EST. SAVINGS)	Value	220.50
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lake Superior		

## Grant Attachments

Document Name	Document Type	Description
<b>Michaud final voucher signed</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/20/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/28/2016
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/20/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/19/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/09/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/29/2014
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/25/2014

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/29/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 10/20/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/01/2014
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/20/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/20/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/10/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/07/2015
Amendment	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Amendment	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
BARR Invoice Grobe \$476	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
BC Approved Work Plan Revisions	Journal	Journal Dated - 07/09/2015
Barr Invoice Michaud \$277	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Barr invoice Menart \$971	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Betros O&M	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Cherveney O&M	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Cherveney_Signed_CS_Contract	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Cherveney_design_dnstream	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Cherveney_design_upstream	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Cherveney_invoice_final	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Grobe BARR geotech invoice Dec 2013	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Grobe Invoice 4345 dollars	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Grobe_Invoice_BARR_Geotech_Dec_2013_No_2	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Hansen O&M	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Interim Financial Report	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Laird Davis O&M	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Menart BARR geotech invoice Dec 2013	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Menart_Invoice_BARR_geotech_Dec_2013_No_2	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Michaud AsBuilt	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Michaud BARR Slope Stability August 2013	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
Michaud CS amendment signed	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)

Document Name	Document Type	Description
<b>Michaud/Winklesky O&amp;M</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Michaud_Invoice1_Wall_Plan_8-6-14</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Michaud_Winklesky_Variance_Approval</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Minotte O&amp;M</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Ozan AsBuilt</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Ozan O&amp;M</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Packingham O&amp;M</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Pederson O&amp;M</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Sylvester Wuchter O&amp;M</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>Work Plan Revision Approval</b>	Journal	Journal Dated - 07/25/2014
<b>county land authorization</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>piedmont ave wall plan set</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)
<b>voucher/final payment for cherveny project</b>	Grant	2012 - Minnesota Flood Relief Grant Phase 2 (St Louis, South SWCD)