Grant All-Detail Report
2012 - Clean Water Assistance

Grant Title - 2012 - Clean Water Assistance - South Washington WD (WSHED)
Grant ID - C13-3762
Organization - South Washington WD

Grant Awarded Amount	**$239,155.00**	**Grant Execution Date**	
Required Match Amount	$59,788.75	**Grant End Date**	1/1/2020
Required Match %	25%	**Grant Day To Day Contact**	John Loomis

Budget Summary

	Budgeted	Spent	Balance Remaining
Total Grant Amount	$239,155.00	$163,754.00	$75,401.00
Total Match Amount	$167,898.49	$142,898.49	$25,000.00
Total Other Funds	$0.00	$0.00	$0.00
Total	**$407,053.49**	**$306,652.49**	**$100,401.00**

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Anticipated 2012 CWF Project-Trout Brook	Special Projects	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$24,735.90			N
Anticipated 2012 CWF Project-Trout Brook	Special Projects	Local Fund	Trout Brook Watershed Restoration-Local Match	$8,245.30			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
CWF Colby Lake Neighborhood Retrofit-BMP Design and Implementation	Technical/Engineering Assistance	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$2,960.00	$2,960.00	8/15/2012	N
CWF Colby Lake Neighborhood Retrofit-BMP Design and Implementation	Technical/Engineering Assistance	Local Fund	Colby Lake Neighborhood Retroft-Local Match	$37,274.85	$37,274.85	1/14/2014	Y
CWF Colby Lake Neighborhood Retrofit-Engagement and Outreach	Project Development	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$2,205.00	$2,182.00	7/10/2012	N
CWF Colby Lake Neighborhood Retrofit-Grant Administration	Administration /Coordination	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$1,480.00	$1,480.00	1/15/2014	N
CWF Trout Brook Schoonover	Agricultural Practices	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$25,500.00			N
CWF Trout Brook Schoonover	Agricultural Practices	Local Fund	Trout Brook Watershed Restoration-Local Match	$8,500.00			Y
CWF Trout Brook Schuster	Agricultural Practices	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$24,764.10			N
CWF Trout Brook Schuster	Agricultural Practices	Local Fund	Trout Brook Watershed Restoration-Local Match	$8,254.70			Y
CWF Trout Brook Watershed Restoration-BMP Design and Implementation	Technical/Engineering Assistance	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$3,910.00	$3,910.00	1/14/2014	N
CWF Trout Brook Watershed Restoration-BMP Design and Implementation	Technical/Engineering Assistance	Local Fund	Trout Brook Watershed Restoration-Local Match	$10,083.00	$10,083.00	1/14/2014	Y
CWF Trout Brook Watershed Restoration-Engagement and Outreach	Project Development	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$3,000.00	$3,000.00	1/14/2014	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
CWF Trout Brook Watershed Restoration-Engagement and Outreach	Project Development	Local Fund	Trout Brook Watershed Restoration-Local Match	$945.50	$945.50	1/14/2014	Y
CWF Trout Brook Watershed Restoration-Grant Administration	Administration /Coordination	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$600.00	$222.00	1/31/2013	N
Colby Lake 1st Addition Residential Raingarden Construction Project	Urban Stormwater Management Practices	Current State Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)	$150,000.00	$150,000.00	9/10/2013	N
Colby Lake 1st Addition Residential Raingarden Construction Project	Urban Stormwater Management Practices	Local Fund	Colby Lake Neighborhood Retroft-Local Match	$94,595.14	$94,595.14	1/14/2014	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
412 - Grassed Waterway and Swales	1	1	0 AC
712M - Bioretention Basin	1	1	26 COUNT
350 - Sediment Basin	1	1	0 AC

Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	51.97	TONS/YR
VOLUME REDUCED (ACRE-FEET/YEAR)	5.16	ACRE-FEET/YR
PHOSPHORUS (EST. REDUCTION)	61.15	LBS/YR

Grant Activity

Grant Activity - Anticipated 2012 CWF Project-Trout Brook			
Description	Placeholder for remaining projects to be completed under the FY2012 Trout Brook Watershed Restoration grant.		
Category	SPECIAL PROJECTS		
Start Date		End Date	
Rates and Hours			
Actual Results	As of 12/31/13, the SWWD Board of Managers has allocated funding for two projects-Schoonover and Schuster. This activity is a placeholder for remaining projects to be implemented under this existing grant.		

Grant Activity - CWF Colby Lake Neighborhood Retrofit-BMP Design and Implementation			
Description	This initiative includes preliminary and final design of BMPs and supervision of BMP construction. All technical assistance and engineering activities will be completed in cooperation with the Washington Conservation District (WCD). WCD's technical representative for this project is Peter J. Young (PE, CPESC). Peter is a registered Professional Engineer in environmental engineering with over 7 years of experience in BMP design and installation oversight. All BMPs will be designed to standards and specifications as detailed in the NRCS FOTG and MN Stormwater Manual. Technical assistance and engineering activities completed by WCD will be reviewed and approved by South Washington Watershed District (SWWD) staff. SWWD's representative for this project is John Loomis, SWWD Water Resource Specialist. John holds a M.S. degree in Water Resources Science with over 5 years of project management experience and is responsible for developing and implementing SWWD's water resource management programs.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-12	End Date	30-Nov-13
Rates and Hours			
Actual Results	As of 12/31/13 all design and implementation activities are complete. Costs were much higher than anticipated due to several factors, including 1) number of individual landowners, 2) extensive utilities conflicts, and 3) increased oversight of the raingarden construction contractor. Cost overruns for this initiative were funded through additional SWWD match funding.		

Grant Activity - CWF Colby Lake Neighborhood Retrofit-Engagement and Outreach			
Description	This initiative includes civic engagement, public outreach, contact with landowners, and coordination with project partners in support of the Colby Lake Neighborhood Retrofit project. All project development activities will completed in cooperation with the East Metro Water Resource Education Program (EMWREP). The EMWREP representative for this project is Angie Hong, Water Resource Educator. Angie holds a M.S. in Natrual Resources and Environmental Education and has over 6 years experience in leading engagement and outreach efforts throughout Washington County. Project development activities completed through EMWREP will be reviewed and approved by South Washington Watershed District (SWWD) staff. SWWD's representative for this project is John Loomis, SWWD Water Resource Specialist. John holds a M.S. degree in Water Resources Science with over 5 years of project management experience and is responsible for developing and implementing SWWD's water resource management programs.		
Category	PROJECT DEVELOPMENT		
Start Date	1-Apr-12	**End Date**	31-May-12
Rates and Hours			
Actual Results	EMWREP, WCD, and SWWD staff held two neighborhood open houses and completed door to door outreach with priority landowners in the Colby Lake 1st Addition neighborhood. Engagement and outreach efforts identified 25 interested landowners who ultimately agreed to partner with SWWD to build bioretention raingardns on their lots. All bioretention raingardens are being constructed as part of SWWD's Colby Lake 1st Addition Neighborhood Residential Raingarden project. Outreach efforts were very successful and resulted in development of more projects than the original amount of funding could cover. As a result the SWWD Board of Managers allocated additional funding from other SWWD programs to expand the Colby Lake 1st Addition Neighborhood Retrofit project. Those additional funds are reflected in SWWD's local match for this grant.		

Grant Activity - CWF Colby Lake Neighborhood Retrofit-Grant Administration			
Description	This initiative includes grant management and reporting for the Colby Lake Neighborhood Retrofit CWF grant. John Loomis, Water Resource Specialist at SWWD, will perform all grant management and reporting activities.		
Category	ADMINISTRATION/COORDINATION		
Start Date	1-Jan-13	**End Date**	31-Jan-14
Rates and Hours			
Actual Results	Completed annual and final reporting for the Colby FY2012 grant.		

Grant Activity - CWF Trout Brook Schoonover			
Description	CWF Trout Brook Schoonover		
Category	AGRICULTURAL PRACTICES		
Start Date	27-Jun-14	End Date	
Rates and Hours			
Actual Results			

Activity Action - Schoonover Sediment Basin			
Practice	350 - Sediment Basin	Count of Activities	1
Description	Sediment basin will be formed through construction of a grade control berm within an existing gully at edge of field.		
Proposed Size / Units	1 AC	Lifespan	10 Years
Actual Size/Units	AC	Installed Date	

Final Indicator for Schoonover Sediment Basin			
Indicator Name	SEDIMENT (TSS)	Value	29.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Trout Brook/Lake St. Croix		

Final Indicator for Schoonover Sediment Basin			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	29
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Trout Brook/Lake St. Croix		

Grant Activity - CWF Trout Brook Schuster			
Description	Gully/ravine stabilization.		
Category	AGRICULTURAL PRACTICES		
Start Date	27-Jun-14	End Date	
Rates and Hours			
Actual Results			

Activity Action - Ravine Stabilization			
Practice	412 - Grassed Waterway and Swales	**Count of Activities**	1
Description	Stabilization and vegetation establishment in a severely eroding ravine draining 16 acres of fields adjacent to Upper Trout Brook.		
Proposed Size / Units	0.75 AC	**Lifespan**	10 Years
Actual Size/Units	AC	**Installed Date**	

Final Indicator for Ravine Stabilization			
Indicator Name	SEDIMENT (TSS)	**Value**	19.99
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (GULLY STABILIZATION)
Waterbody	Trout Brook/Lake St. Croix		

Final Indicator for Ravine Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	19.99
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	BWSR CALC (GULLY STABILIZATION)
Waterbody	Trout Brook/Lake St. Croix		

Grant Activity - CWF Trout Brook Watershed Restoration-BMP Design and Implementation			
Description	This initiative includes preliminary and final design and construction supervision and inspection activities in support of the Trout Brook Watershed Restoration project. All technical assistance and engineering activities will be completed in cooperation with the Washington Conservation District (WCD). WCD's technical representative for this project is Peter J. Young (PE, CPESC). Peter is a registered Professional Engineer in environmental engineering with over 7 years of experience in BMP design and installation oversight. All BMPs will be designed to standards and specifications as detailed in the NRCS FOTG and MN Stormwater Manual. Technical assistance and engineering activities completed by WCD will be reviewed and approved by South Washington Watershed District (SWWD) staff. SWWD's representative for this project is John Loomis, SWWD Water Resource Specialist. John holds a M.S. degree in Water Resources Science with over 5 years of project management experience and is responsible for developing and implementing SWWD's water resource management programs.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	14-Jan-13	**End Date**	
Rates and Hours			
Actual Results	As of 12/31/13, SWWD had expended $13,993 for staff time from the Washington Conservation District for design and implementation technical assistance. This amount is far greater than was expected, in part due to extensive work completed on a design for a landowner who ultimately walked away from the project. However, two projects have been designed and are planned for construction in 2014. Cost overruns and additional funding to complete the Trout Brook grant will be paid for through additional SWWD local match.		

Grant Activity - CWF Trout Brook Watershed Restoration-Engagement and Outreach			
Description	This initiative includes civic engagement, public outreach, contact with landowners, and coordination with project partners in support of the Trout Brook Watershed Restoration project. All project development activities will completed in cooperation with the East Metro Water Resource Education Program (EMWREP). The EMWREP representative for this project is Angie Hong, Water Resource Educator. Angie holds a M.S. degree in Natural Resources and Environmental Education and has over 6 years experience in leading engagement and outreach efforts throughout Washington County. Project development activities completed through EMWREP will be reviewed and approved by South Washington Watershed District (SWWD) staff. SWWD's representative for this project is John Loomis, SWWD Water Resource Specialist. John holds a M.S. degree in Water Resources Science with over 5 years of project management experience and is responsible for developing and implementing SWWD's water resource management programs.		
Category	PROJECT DEVELOPMENT		
Start Date	1-Nov-12	**End Date**	
Rates and Hours			
Actual Results	As of 12/31/13, SWWD had expended $3,945.50 for staff time from the Washington Conservation District for engagement and outreach. To date, two landowners have signed agreements to implement practices on their property. Those two projects will be constructed in 2014 and will achieve the water quality benefit target of the Trout Brook watershed restoration grant. Additional outreach is currently underway to identify additional willing landowners where priority projects have previously been identified. Cost overruns and funding for additional outreach will be paid for through additional SWWD local match.		

Grant Activity - CWF Trout Brook Watershed Restoration-Grant Administration			
Description	This initiative includes activities related to grant management and reporting for the Trout Brook Watershed Restoration CWF grant. All grant management and reporting activities will be performed by John Loomis, Water Resource Specialist for SWWD.		
Category	ADMINISTRATION/COORDINATION		
Start Date	1-Jan-13	**End Date**	
Rates and Hours			
Actual Results	As of 12/31/13, $222 had been spent for SWWD staff time to complete 2012 annual reporting for the Trout Brook grant. Additional funds will be used for 2013 reporting and final reporting.		

Grant Activity - Colby Lake 1st Addition Residential Raingarden Construction Project			
Description	The Colby Lake 1st Addition Residential Raingarden Construction Project will result in the construction of 26 bioretention raingardens in the Colby Lake 1st Addition neighborhood of Woodbury, Minnesota. All gardens will be constructed to recieve runoff from streets in the neighborhood which would otherwise drain to Colby Lake. Inlet structures consist of either a modified sump catch basin struture with piped inlet or traditional curb cut with sod strip inlet depending on site constraints. All inlets are being installed as part of the City of Woodbury's 2012 roadway reconstruction/rehabilitation project in the area. SWWD will provide all necessary maintenance for the raingardens for the first three years of operation to ensure all raingardens are properly established. Individual landowners wil assume maintenance responsibility for the raingardens once fully established (after year 3) as specified in the attached landowner O&M plan. However, as the bulk of the BMPs are within City road right of way, they are considered part of City's infrastructure. In the attached Memo of Understanding between SWWD and City of Woodbury, SWWD assumes responsibility for providing maintenance of raingardens (as required above landowner O&M activities) and the City assumes responsibility for maintaining the inlet structures as part of their stormsewer system. SWWD maintenance of the raingardens will be completed through the Washington Conservation District and funded through local stormwater utility fees. City maintenance of inlet structures will be completed by City staff.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	23-Jul-12	**End Date**	31-Aug-14
Rates and Hours			
Actual Results	As of 8/31/2013, the Colby Lake 1st Addition Residential Raingarden Construction Project is complete. This project resulted in construction of 26 right of way raingardens all of which intercept stormwater runoff from parking lots or roadways before it can enter the stormsewer network and drain to Colby Lake. Together, the raingardens will reduce runoff to Colby Lake by 5.16 acre-ft/yr, total phosphorus by 12.16 lbs/yr, and total suspended solids by 2.078 lbs/yr. This benefit meets the proposed benefit of the grant. Maintenance of the raingarden inlet structures will be completed by the City of Woodbury as part of its stormsewer maintenance program. SWWD will maintain the raingardens until established (year 3) at which time private landowners will takeover maintenance responsibilities.		

Activity Action - Colby Lake 1st Addition Raingardens			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	General area of curb cut bioretention raingarden BMPs installed as part of SWWD's Colby Lake 1st Addition Neighborhood Residential Raingarden Construction Project. As of 12/31/12, 14 of the 26 BMPs have been completed. Work on the remaining 12 is underway and expected to be completed by 7/15/13.		
Proposed Size / Units	COUNT	Lifespan	25 Years
Actual Size/Units	26 COUNT	Installed Date	17-Jul-13

Final Indicator for Colby Lake 1st Addition Raingardens			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	12.16
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLAMM
Waterbody			

Final Indicator for Colby Lake 1st Addition Raingardens			
Indicator Name	VOLUME REDUCED (ACRE-FEET/YEAR)	Value	5.16
Indicator Subcategory/Units	STORMWATER MANAGEMENT ACRE-FEET/YR	Calculation Tool	WINSLAMM
Waterbody			

Final Indicator for Colby Lake 1st Addition Raingardens			
Indicator Name	SEDIMENT (TSS)	Value	2.08
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	WINSLAMM
Waterbody			

Grant Attachments

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/22/2014
Colby Clean Water Story	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)
Colby Final Financial Report	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)
Colby Raingarden O&M.pdf	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)
Colby1stRaingardens.pdf	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)
Executed Woodbury MOU.pdf	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)
grant_app_general-added.rpt	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)
grant_app_general-added.rpt	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)
grant_app_general.rpt	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)
grant_app_general.rpt	Grant	2012 - Clean Water Assistance - South Washington WD (WSHED)