Grant All-Detail Report
2011 - Shoreland Improvement

Grant Title - 2011 - Shoreland Improvement - Red Lake WD (WSHED)
Grant ID - C13-2723
Organization - Red Lake WD

Grant Awarded Amount	**$22,769.00**	**Grant Execution Date**	
Required Match Amount	$5,692.25	**Grant End Date**	1/1/2020
Required Match %	25%	**Grant Day To Day Contact**	

Budget Summary

	Budgeted	Spent	Balance Remaining
Total Grant Amount	$22,769.00	$19,705.08	$3,063.92
Total Match Amount	$4,165.09	$6,473.24	$-2,308.15
Total Other Funds	$291,015.91	$262,018.16	$28,997.75
Total	**$317,950.00**	**$288,196.48**	**$29,753.52**

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$11,250.00	$9,686.08	8/23/2012	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$3,750.00			Y
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$0.00			N
Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River	Streambank or Shoreline Protection	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00			Y
Install 36" Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Special Projects	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$0.00			N
Install 36" Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Special Projects	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00	$0.00	8/23/2012	Y
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$0.00			N
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00	$0.00	8/23/2012	Y
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$5,625.00	$48,504.55	7/13/2012	N
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$1,875.00	$6,040.68	8/23/2012	Y
Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River	Conservation Drainage	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$1,875.00	$6,085.46	8/23/2012	Y
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$1,500.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$415.09	$149.20	3/14/2012	Y
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$26.88	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$36.00	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$53.98	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$84.38	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$107.50	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$128.86	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$144.00	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$215.00	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$417.33	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$540.00	9/26/2012	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$6,450.00	$577.36	9/26/2012	N
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$1,784.91	$0.81	3/14/2012	Y
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$1,784.91	$188.70	3/14/2012	Y
PD -Grade Stabilization for Reduction of Sedimentation in the Thief River	Project Development	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$1,784.91	$452.07	3/14/2012	Y
Returned Funds	Special Projects						
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$0.00			N
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00			Y
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$690.91	8/23/2012	N
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$8,020.17	8/23/2012	N
Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00			Y
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$0.00			N
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$690.91	8/23/2012	N
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$8,020.17	8/23/2012	N
Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00			Y
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$0.00			N
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00	$0.00	8/23/2012	Y
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$7,484.87	7/13/2012	N
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00	$535.30	8/23/2012	Y
Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00	$690.91	8/23/2012	Y
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$0.00			N
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00	$0.00	2/4/2013	Y
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$6,968.86	7/13/2012	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00	$690.91	2/4/2013	Y
Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00	$1,051.31	2/4/2013	Y
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$0.00			N
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00	$0.00	8/23/2012	Y
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$6,968.86	7/13/2012	N
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00	$690.91	8/23/2012	Y
Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00	$1,051.31	8/23/2012	Y
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$0.00			N
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Local Fund	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$0.00	$0.00	8/23/2012	Y
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$512.50	9/12/2012	N
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$25,000.00	$7,792.93	9/12/2012	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00	$227.24	8/23/2012	Y
Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River	Agricultural Practices	Other Funds	Local Matching Funds for the CD20 Grade Stabilization Project (2011 CWF)	$6,000.00	$690.91	8/23/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Current State Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)	$10,019.00	$10,019.00	7/25/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Local Fund	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$6,324.04	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	$9,300.00	$236.03	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	$9,300.00	$542.10	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	$9,300.00	$608.65	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	$9,300.00	$734.08	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Clean Water Assistance - Red Lake WD (WSHED)	$9,300.00	$7,179.14	9/7/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$382.50	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$411.00	6/22/2012	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$3,603.95	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$4,628.66	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$10,628.50	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$10,969.44	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$11,957.65	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$14,879.55	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	2011 - Runoff Reduction - Red Lake WD (WSHED)	$79,981.00	$22,519.75	6/22/2012	N
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$36.06	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$206.04	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$264.08	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$310.10	12/26/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$727.99	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$1,277.81	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$1,670.10	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$1,688.13	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$1,771.99	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$2,271.12	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$6,260.76	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$10,989.27	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$14,363.05	12/26/2012	Y
TA&E - Grand Marais Creek Cut-off Channel Stabilization	Technical/Engineering Assistance	Other Funds	Local Matching Funds for the Grand Marais Creek Channel Stabilization (2011 CWF)	$0.00	$14,518.14	12/26/2012	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
410 - Grade Stabilization Structure	6	2	0 COUNT
587 - Structure for Water Control	16	2	0 COUNT
587 - Structure for Water Control	2	2	1 COUNT
580 - Streambank and Shoreline Protection	1	2	25 LINEAR FEET

Indicators Summary

Indicator Name	Total Value	Unit
Legacy Migration	603	TONS/YR
Legacy Migration	693	LBS/YR

Grant Activity

Grant Activity - Bank Stabilization C,L,M - Grade Stabilization for Sediment Reduction in the Thief River			
Description	A section of streambank along CD20 will be stabilized at a location where the bank is failing across from the confluence with Branch 1 of CD20. The eroding bank is located near the intersection of 240th St. NE and 180th Ave. NE in Marshall County. Construction should occur in the mid-to-late summer when flows within the ditch are minimal. This will be a rock structure, so seeding is not expected to be necessary. The ditch authority will be responsible for the maintenance and long-term operation of this project.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	19-Jun-12	**End Date**	Thu Aug 23 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Construction proceeded when water levels receded in late June. This part of the project was completed by the end of June 2012. This structure was designed by the Red River Valley Conseration Service Area Engineer, James Hest. Using Class III rip-rap, and non-woven geotextile, 50 feet of the north bank of Marshall County Ditch 20 on the upstream side of the 180th Ave Bridge was protected from the erosive forces of water entering CD20 from a township ditch.		

Activity Action - Bank Stabilization			
Practice	580 - Streambank and Shoreline Protection	**Count of Activities**	1
Description			
Proposed Size / Units	LINEAR FEET	**Lifespan**	10 Years
Actual Size/Units	25 LINEAR FEET	**Installed Date**	

Grant Activity - Install 36" Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River			
Description	A side-water inlet will be installed along Marshall County Ditch 20 to prevent gully erosion where a field drainage-way enters county ditch. The field is located in the northwest quarter of Section 29 in Agder Township in Marshall County. The funding will also be used to pay for the contractor's time and materials that are used during the installation. The side-water inlet will be constructed according to NRCS standards. Construction should occur in July or August when flows are minimal, so that seeding can be completed before September 14th of the year-of-construction.		
Category	SPECIAL PROJECTS		
Start Date		**End Date**	
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. No bills have been paid as of the end of June. At least 14 additional side water inlets will be installed as part of this project. The work plan should be updated after the approval of this report so that July construction payments can be divided appropriately among projects.		

Grant Activity - Install Side Water Inlets - Grade Stabilization for Sediment Reduction in the Thief River			
Description	A side-water inlet will be installed along Marshall County Ditch 20 to halt gully erosion that has occurred in a field drainage-way. The field is located in the northwest quarter of Section 29 in Agder Township in Marshall County. The funding will also be used to pay for the contractor's time and materials that are used during the installation. The side-water inlet will be constructed according to NRCS standards. Construction should occur in July or August when flows are minimal, so that seeding can be completed before September 14th of the year-of-construction.		
Category	CONSERVATION DRAINAGE		
Start Date	19-Jun-12	**End Date**	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. Sixteen additional side water inlets will be installed as part of this project for a total of 18. One forty-eight inch culvert, three thirty-six inch culverts, three thirty inch culverts, six twenty-four inch culverts, and five eighteen inch culverts were installed. Metal apron was used at the inlet end of each culvert and flapgates were installed at the outlet end of each culvert. Sideslopes were designed to be 3:1 on the inlet side of the spoilbank/spillway and 2:1 on the outlet side of the bank. Class III rock rip-rap was placed at the outlet of each pipe. It cost much less than the budgeted amount to construct the rock riffle structures. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly ove-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.		

Activity Action - 18 inch side water inlet			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 18 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 18 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 18 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 18 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 24 inch side water inlet			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 24 inch side water inlet along CD20			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	1 COUNT	**Installed Date**	

Final Indicator for 24 inch side water inlet along CD20			
Indicator Name	Legacy Migration	**Value**	603
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (GULLY STABILIZATION)
Waterbody			

Final Indicator for 24 inch side water inlet along CD20			
Indicator Name	Legacy Migration	**Value**	693
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	BWSR CALC (GULLY STABILIZATION)
Waterbody			

Activity Action - 24 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 24 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 24 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 24 inch side water inlet culvert			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 30 inch side water inlet			
Practice	587 - Structure for Water Control	Count of Activities	18
Description			
Proposed Size / Units	COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	

Activity Action - 30 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 30 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 36 inch side water inlet			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 36 inch side water inlet			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Activity Action - 36 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	1 COUNT	**Installed Date**	

Activity Action - 48 inch side water inlet culvert			
Practice	587 - Structure for Water Control	**Count of Activities**	18
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Grant Activity - PD -Grade Stabilization for Reduction of Sedimentation in the Thief River			
Description	The Red Lake Watershed District (RLWD) Administrator, RLWD Water Quality Coordinator, Marshall County, and the Red River Valley Conservation Service Area Conservation Engineer will work together to plan the installation of six grade stabilization structures, two side water inlet structures, and a bank stabilization project along Marshall County Ditch 20. The exact locations of the structures will be identified during the design process. A longitudinal profile of this reach has already been surveyed and will help with the planning. Any other coordination that becomes necessary (permits, meet with the ditch authority) will also be funded by this initiative. It will be necessary to obtain permission/easements for access along the south side of CD20 to construct the grade stabilization structures. The RLWD Engineering Technician and the Marshall County SWCD will make sure that this is accomplished. Bids for the construction of the grade stabilization structures, bank stabilization, and side-water inlets will be sought. All of these projects will likely be combined into one bid. During 2010 project planning, prior to the grant application, two sites were identified along CD20 in Section 29 of Agder Township that needed side-water inlets. One has a particularly large gully that formed in 2010. The landowner was contacted and was willing to allow the construction of the side-water inlets. An important part of this initiative is making sure that the landowner is involved in the process of getting these installed. The RLWD or the Marshall County SWCD will secure an easement agreement with the landowner for the project installation and long-term maintenance. The ditch authority will be responsible for the maintenance and long-term operation of the structures. Any other coordination that becomes necessary (permits, meet with the ditch authority) will also be funded by this initiative. Most of the bank stabilization work will occur within the road right-of-way.		
Category	PROJECT DEVELOPMENT		
Start Date	25-Mar-11	**End Date**	Mon Jul 02 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Danny Thorstad of the Marshall County SWCD talked to most of the landowners along the project area and got signed temporary access easements for the construction along County Ditch 20. RLWD staff obtained two more signed easements. One last landowner wanted to talk with the project's engineers before agreeing to the project. That meeting has also successfully taken place. When the construction bid came in under budget, RLWD staff (Gary Lane, Nick Olson, Loren Sanderson) searched for additional spots along the ditch where side water inlets could be installed.		

	A pre-construction meeting was held on April 18, 2012. Present at the meeting were Troy Taggart, Lon Aune, Danny Thorstad, and RLWD staff.

Grant Activity - Returned Funds			
Description	Clean Water Fund grant funds that weren't spent need to be returned to the Board of Water and Soil Resources.		
Category	SPECIAL PROJECTS		
Start Date	5-Feb-13	**End Date**	
Rates and Hours			
Actual Results	The bid from the contractor was much lower than what was estimated by the project's engineers. All of the components of the project were completed. Then, there was enough extra money to add 16 more side water inlet culverts along Marshall County Ditch 20 in the area of this project. The additional side water inlet culverts will improve the efficacy of this project for reducing the amount of sediment that enters the Thief River from the CD20 drainage area.		

Grant Activity - Riffle #1 - Grade Stabilization for Sediment Reduction in the Thief River			
Description	This initiative will cover the labor and construction materials that are needed to construct the first of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	**End Date**	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed. It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.		

Activity Action - Rock riffle check dam #1			
Practice	410 - Grade Stabilization Structure	**Count of Activities**	1
Description			
Proposed Size / Units	COUNT	**Lifespan**	15 Years
Actual Size/Units	COUNT	**Installed Date**	

Grant Activity - Riffle #2 - Grade Stabilization for Sediment Reduction in the Thief River			
Description	This project will pay for the construction materials and labor that are needed to construct the second of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	**End Date**	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed. It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.		

Activity Action - Rock riffle check dam #2			
Practice	410 - Grade Stabilization Structure	**Count of Activities**	1
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Grant Activity - Riffle #3 - Grade Stabilization for Sediment Reduction in the Thief River			
Description	This initiative will cover the staff time and construction materials that are needed to construct the third of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	**End Date**	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed. It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly over-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.		

Activity Action - Rock riffle check dam #3			
Practice	410 - Grade Stabilization Structure	**Count of Activities**	1
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Grant Activity - Riffle #4 - Grade Stabilization for Sediment Reduction in the Thief River			
Description	This initiative will cover the staff time and construction materials that are needed to construct the fourth of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	**End Date**	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed. It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly ove-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.		

Activity Action - Rock riffle check dam #4			
Practice	410 - Grade Stabilization Structure	**Count of Activities**	1
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Grant Activity - Riffle #5 - Grade Stabilization for Sediment Reduction in the Thief River			
Description	This initiative will cover the staff time and construction materials that are needed to construct the fifth of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	**End Date**	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed. It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly ove-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.		

Activity Action - Rock riffle check dam #5			
Practice	410 - Grade Stabilization Structure	**Count of Activities**	1
Description			
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Grant Activity - Riffle #6 - Grade Stabilization for Sediment Reduction in the Thief River			
Description	This initiative will cover the staff time and construction materials that are needed to construct the first of six rock-riffle style grade stabilization structures along the lower 2.5 miles of Marshall County Ditch 20. The ditch authority will be responsible for the maintenance and long-term operation of the structures.		
Category	AGRICULTURAL PRACTICES		
Start Date	19-Jun-12	**End Date**	Tue Aug 14 00:00:00 CDT 2012
Rates and Hours			
Actual Results	Plans and specifications were completed. Taggart Excavating and Septic Service was awarded the contract for the construction of the project. Construction proceeded when water levels receded in late June. No bills have been paid as of the end of June. This rock ditch check structure was constructed using Class II rip-rap that was underlain by filter cloth. Each of these structures is designed to be approximately 55 feet in length. Turf establishment was conducted on the disturbed portion of the upper banks after construction was completed. It cost much less than the budgeted amount to construct this rock riffle structure. Therefore, the excess funds were used to increase the efficacy of the overall project by installing 16 additional side water inlet culverts. The rock riffles will be significantly under-budget and the side water inlet budget will be significantly ove-budget when compared to the original budget. As a whole, the project accomplished more than what was originally planned and still came out under-budget.		

Activity Action - Rock riffle check dam #6			
Practice	410 - Grade Stabilization Structure	**Count of Activities**	1
Description	This check dam had to be finished-up by another contractor after high water receded. This structure is the nearest to the Thief River of the six. Agassiz National Wildlife Refuge began releasing a large amount of water from their pools in early August.		
Proposed Size / Units	COUNT	**Lifespan**	10 Years
Actual Size/Units	COUNT	**Installed Date**	

Grant Activity - TA&E - Grand Marais Creek Cut-off Channel Stabilization			
Description	The preliminary design, final design, and construction inspection for this project will be overseen by a professional engineer employed by Houston Engineering, Inc. With additional funding, the RLWD will be able to complete a final report in early 2011, start construction in 2011, and complete construction in early 2012. Operation and maintenance needs will be addressed by using local funds (RLWD or appropriate ditch authority). Side water inlets will be designed according to NRCS/FOTG standards.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	25-Mar-11	**End Date**	Wed Dec 26 00:00:00 CST 2012
Rates and Hours			
Actual Results	Surveying was initially delayed for a while due to field conditions. The Red River was too high through much of the summer of 2011 for any surveying to get done right away. Houston Engineering was eventually able to complete the surveying and geotechnical work. Engineer Jeff Langan presented the Engineers Report for the Grand Marais Creek Cut Channel, RLWD Project No. 60FF to the Board for informational purposes at the February 9, 2012 meeting. Langan gave an overview of the project and answered questions of the Board. The Board then voted to approve the report. The RLWD Board voted to authorize Engineer Jeff Langan to prepare Plans and Specifications for the construction of the project. Plans and Specifications were completed in April 2012. Project specifications were published on March 30, 2012. RLWD and Houston Engineering staff gave a presentation on the project to the 2012 RRWMB/FDR Work Group Annual Conference. Houston Engineering hired a certified archaeologist to comply with the requirements of permitting through the U.S. Army Corps of Engineers. Houston Engineering and RLWD staff performed construction inspection and surveying throughout the project. Additional design work was needed to solve bank stabilization issues during construction. It was necessary to reapply for a USACE permit to expand the bank stabilization work to areas upstream and downstream of the bridge. The permit was issued and allowed the additional construction to start on November 16, 2012. Once the project was completed, a final hearing was held in January 2012. The final payment was then approved and made to Zavoral Construction.		

Grant Attachments

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/23/2013
DSC00241.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00243.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00244.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)

Document Name	Document Type	Description
DSC00247.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00248.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00249.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00253.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00255.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00256.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00258.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00259.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00260.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00261.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00262.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00263.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00264.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00267.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00268.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00269.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00270.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00271.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00272.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00273.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00276.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
DSC00277.JPG	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
PPT122811 Cutoff Ditch Slides.pdf	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
Photo06291411.jpg	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
Plans and Specs Grand Marais Crk Cut Channel.pdf	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
Side Water Inlets Photo Mosaic.jpg	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
Stream Bank Stabilization.jpg	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)
grant_app_general.rpt	Grant	2011 - Shoreland Improvement - Red Lake WD (WSHED)