



Grant All-Detail Report Projects and Practices 2016

Grant Title - 2016 Red Lake River Subwatershed (63025) Improvement Projects

Grant ID - C16-4440

Organization - Red Lake SWCD

Original Awarded Amount	\$194,000.00	Grant Execution Date	3/9/2016
Required Match Amount	\$48,500.00	Original Grant End Date	12/31/2018
Required Match %	25%	Grant Day To Day Contact	Tanya Hanson
Current Awarded Amount	\$194,000.00	Current End Date	12/31/2019

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$194,000.00	\$23,825.60	\$170,174.40
Total Match Amount	\$48,500.00	\$7,183.00	\$41,317.00
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$242,500.00	\$31,008.60	\$211,491.40

*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
Administration / Coordination	Administration /Coordination	Current State Grant	2016 Red Lake River Subwatershed (63025) Improvement Project..	\$5,000.00	\$584.54	11/30/2018	N
Administration / Coordination	Administration /Coordination	Local Fund	Red Lake Watershed District, County, and SWCD Contributions	\$1,250.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Installation of Water Quality Improvement Projects	Agricultural Practices	Current State Grant	2016 Red Lake River Subwatershed (63025) Improvement Project..	\$165,000.00	\$18,900.00	10/25/2018	N
Installation of Water Quality Improvement Projects	Agricultural Practices	Local Fund	Red Lake Watershed District, Landowner, County, and SWCD Contributions	\$41,250.00	\$7,183.00	10/25/2018	Y
Project Development	Project Development	Current State Grant	2016 Red Lake River Subwatershed (63025) Improvement Project..	\$7,500.00	\$1,669.06	11/30/2018	N
Project Development	Project Development	Local Fund	Red Lake Watershed District, County, and SWCD Contributions	\$1,875.00			Y
Technical & Engineering	Technical/Engineering Assistance	Current State Grant	2016 Red Lake River Subwatershed (63025) Improvement Project..	\$16,500.00	\$2,672.00	12/3/2018	N
Technical & Engineering	Technical/Engineering Assistance	Local Fund	Red Lake Watershed District, County, and SWCD Contributions	\$4,125.00			Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
410 - Grade Stabilization Structure	3	2	1 COUNT	1 COUNT

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Installation of Water Quality Improvement Projects	PHOSPHORUS (EST. REDUCTION)	588.97 LBS/YR	Red Lake River	BWSR CALC (GULLY STABILIZATION)	
Installation of Water Quality Improvement	SOIL (EST. SAVINGS)	1796.67 TONS/YR	Red Lake River	BWSR CALC (GULLY STABILIZATION)	

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Projects					
Installation of Water Quality Improvement Projects	SEDIMENT (TSS)	692.90 TONS/YR	Red Lake River	BWSR CALC (GULLY STABILIZATION)	

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	68.00	TONS/YR
SOIL (EST. SAVINGS)	272.00	TONS/YR
PHOSPHORUS (EST. REDUCTION)	63.00	LBS/YR

Grant Activity

Grant Activity - Administration / Coordination

Description	<p>The District Manager is responsible for ensuring compliance with the FY 2015 CWF Policy and the BWSR's Grant Administration Manual. Contractual requirements, time and expenditure tracking, financial responsibilities, reporting requirements, and meeting the grant expiration deadline.</p> <p>Project administration includes developing a partnership with the landowner, the Red River Valley Conservation Service Area Engineer and the SWCD staff.</p>		
Category	ADMINISTRATION/COORDINATION		
Start Date	9-Mar-16	End Date	
Has Rates and Hours?	Yes		
Actual Results	<p>The District Manager made sure compliance with the FY 2016 BWSR Clean Water Fund Policy and the BWSR's Grant Administration Manual was met. Contractual requirements, time and expenditure tracking, financial responsibilities, reporting requirements, and meeting the grant expiration deadline were all met.</p>		

Grant Activity - Installation of Water Quality Improvement Projects

Description	<p>The Red Lake River from County Ditch 96 (Pennington County) to the Clearwater River is on the TMDL Impaired Waters List for Turbidity. This reach is a high priority because of the high importance of the Red Lake River, which provides a domestic supply use of the water source and provides abundant recreational uses. Red Lake County SWCD has targeted three sites in the upper portion of the Red Lake River (63025) sub-watershed in Red Lake County, with the potential of an additional five to ten more projects, based on data analysis obtained from using the Water Quality Decision Support System (WQDSS) tool, TMDL Impaired Waters List, DNR Stressor ID database, and the Soil and Water Assessment Tool (SWAT) models. The data identified which sub-watersheds were contributing to these impairments, highlighted which fields in those sub-watersheds were contributing the most sediment, and even showed specific locations in the field which were most vulnerable to erosion. Red Lake County SWCD also conducted an Erosion Site Inventory in 2014, which verified the information from the tools/models, and found landowners in these priority areas that were eager to fix the erosion problems on their fields.</p> <p>Water Quality Improvement Projects, which include but are not limited to, grade stabilization structures, streambank and shoreland protection, grassed waterways, and water & sediment basins, will be the Best Management Practices implemented to correct the erosion that is occurring at these site locations.</p> <p>The three proposed installed practices result in the following soil loss reductions numbers: Sediment (TSS) will be 692.90 T/yr., Soil (estimated savings) will be 1,796.67 T/yr. and Phosphorus (est. reduction) will be 588.97 lbs./yr.</p> <p>Practices must be planned and installed in accordance with technical standards and specifications of the NRCS Field Office Technical Guide or other professionally accepted engineering practices.</p>	
Category	AGRICULTURAL PRACTICES	
Start Date	9-Mar-16	End Date
Has Rates and Hours?	No	
Actual Results	<p>In 2018, a Grade Stabilization Structure (410) project was completed in Section 32 of River Township. The total cost of the project was \$10,883.00 (the 2016 BWSR CWF C16-4440 Grant covered 75% at \$7,500.00, 2016 MARC&D Ecofootprint Grant (Local Match) cover \$2,500.00, and the landowner provided \$883.00 for the remaining local required match.</p> <p>In 2018, a second Grade Stabilization Structure (410) project was completed in Section 13 of Red Lake Falls Township. The total cost of the project was \$15,200.00 (the 2016 BWSR CWF C16-4440 Grant covered 75% at \$11,400.00, 2016 MARC&D Ecofootprint Grant (Local Match) cover \$3,500.00, and the landowner provided \$300.00 for the remaining local required match.</p>	

Activity Action - Grade Stabilization Structure - Ulrich Farms			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Installed Grade Stabilization Structure		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	13-Aug-18
Mapped Activities	1 Point(s)		

Final Indicator for Grade Stabilization Structure - Ulrich Farms			
Indicator Name	SEDIMENT (TSS)	Value	14
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Red Lake River		
Final Indicator for Grade Stabilization Structure - Ulrich Farms			
Indicator Name	SOIL (EST. SAVINGS)	Value	56
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Red Lake River		
Final Indicator for Grade Stabilization Structure - Ulrich Farms			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	12
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Red Lake River		

Activity Action - Grade Stabilization Structure - Thibert			
Practice	410 - Grade Stabilization Structure	Count of Activities	2
Description	Installed Grade Stabilization Structure.		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	25-Oct-18
Mapped Activities	1 Point(s)		

Final Indicator for Grade Stabilization Structure - Thibert			
Indicator Name	SEDIMENT (TSS)	Value	54
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Red Lake River		
Final Indicator for Grade Stabilization Structure - Thibert			
Indicator Name	SOIL (EST. SAVINGS)	Value	216
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Red Lake River		

Final Indicator for Grade Stabilization Structure - Thibert			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	51
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Red Lake River		

Grant Activity - Project Development

Description	<p>Develop a partnership between the landowner, Red River Valley Conservation Service Area (RRVCSA) Engineer, and the SWCD District staff.</p> <p>Schedule with RRVCSA Engineer for surveying each project site. Schedule with RRVCSA Engineer a meeting with each landowner to review preliminary and final designs.</p> <p>The District Manager will be responsible for contacting each landowner and assisting the landowner through the project's process (contract, preliminary design and final design review, bidding process, reimbursement voucher, etc.).</p> <p>Red Lake County SWCD staff will work cooperatively with the DNR to secure permits if permits are required for the projects.</p> <p>The WQDSS tool will be used to identify and rank high priority projects located within these subwatersheds; so if excess funds are available, those funds can be used to complete additional high priority projects. As, when available, the PTM App will also be used as a tool to assist with prioritizing projects.</p> <p>The three proposed installed practices result in the following soil loss reductions numbers: Sediment (TSS) will be 692.90 T/yr., Soil (estimated savings) will be 1,796.67 T/yr. and Phosphorus (est. reduction) will be 588.97 lbs./yr., which will protect and preserve the resource value of soil on the land and reduce sediment loading to the Red Lake River.</p>		
Category	PROJECT DEVELOPMENT		
Start Date	9-Mar-16	End Date	
Has Rates and Hours?	Yes		
Actual Results	<p>Developed a partnership between the landowners, Red River Valley Conservation Service Area (RRVCSA) Engineer, and the SWCD District staff.</p> <p>Scheduled with RRVCSA Engineer for surveying each project site. Scheduled with RRVCSA Engineer a meeting with each landowner to review preliminary designs.</p> <p>Assisted the landowner through the project's process (contract, preliminary design and final design review, bidding process, reimbursement voucher, etc.).</p>		

Grant Activity - Technical & Engineering

Description

Technical and Engineering Assistance will be provided by the SWCD staff and the Red River Valley Conservation Service Area Engineer.

Practices must be planned and installed in accordance with technical standards and specifications of the NRCS Field Office Technical Guide or other professionally accepted engineering practices.

The landowner will be provided a copy of the preliminary design, the final design, Construction Specifications, O & M, reimbursement voucher, etc.

Category

TECHNICAL/ENGINEERING ASSISTANCE

Start Date

9-Mar-16

End Date

Has Rates and Hours?

Yes

Actual Results

Jim Hest, Red River Valley Conservation Service Area Engineer surveyed and designed each project.

Jim Hest, RRVCSA Engineer and the SWCD Manager met with each landowner to review their preliminary project designs.

The final designs were completed and the projects were put out on bids. The SWCD Board was responsible for accepting/approving each project bid.

Jim Hest, RRVCSA Engineer assisted the contractors with construction. A Final Construction Inspection was completed by the RRVCSA Engineer for each project.

The Practices were planned and installed in accordance with technical standards and specifications of the NRCS Field Office Technical Guide.

The landowner was provided a copy of the preliminary design, the final design, Construction Specifications, O & M, reimbursement voucher, etc.

Grant Attachments

Document Name	Document Type	Description
2016 C16-4440 Interim Financial Report	Grant	2016 Red Lake River Subwatershed (63025) Improvement Projects
2016 Competitive Grant	Grant Agreement	2016 Competitive Grant - Red Lake SWCD
2016 Competitive Grant amendment EXECUTED	Grant Agreement Amendment	
2016 Competitive Grant executed	Grant Agreement	2016 Competitive Grant - Red Lake SWCD
2016 Projects and Practices Financial Report	Grant	2016 Red Lake River Subwatershed (63025) Improvement Projects
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/23/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/09/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/26/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/10/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/05/2018
Application	Workflow Generated	Workflow Generated - Application - 08/19/2015
Extension Request	Grant Agreement Amendment	
Red Lake River Subwatershed (63025) Improvement Project	Grant	2016 Red Lake River Subwatershed (63025) Improvement Projects
Unexecuted Grant Amendment	Grant Agreement Amendment	
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/16/2015
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/17/2016
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/12/2016
grantmap_14037_2015-08-17_03-04-01-PM.jpg	Grant	2016 Red Lake River Subwatershed (63025) Improvement Projects