



## Grant All-Detail Report Projects and Practices 2019

**Grant Title** - Bone Lake SWA Implementation

**Grant ID** - C19-2734

**Organization** - Comfort Lake-Forest Lake WD

<b>Original Awarded Amount</b>	<b>\$144,000.00</b>	<b>Grant Execution Date</b>	<b>4/1/2019</b>
<b>Required Match Amount</b>	\$36,000.00	<b>Original Grant End Date</b>	12/31/2021
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Mike Kinney
<b>Current Awarded Amount</b>	\$144,000.00	<b>Current End Date</b>	12/31/2022

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$144,000.00	\$24,000.00	\$120,000.00
Total Match Amount	\$36,000.00	\$17,379.78	\$18,620.22
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$180,000.00</b>	<b>\$41,379.78</b>	<b>\$138,620.22</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
BMP Construction	Agricultural Practices	Current State Grant	Bone Lake SWA Implementation	\$120,000.00			N
Engineering Technical Support	Technical/Engineering Assistance	Current State Grant	Bone Lake SWA Implementation	\$24,000.00	\$24,000.00	12/31/2021	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Engineering Technical Support	Technical/Engineering Assistance	Local Fund		\$0.00	\$2,008.25	12/31/2021	Y
Grant and Project Administration	Administration/Coordination	Local Fund	CLFLWD	\$10,000.00	\$701.06	12/31/2021	Y
Non-Structural Practices	Non-Structural Management Practices	Current State Grant	Bone Lake SWA Implementation	\$0.00			N
Project Development	Project Development	Local Fund	CLFLWD	\$26,000.00	\$14,670.47	12/31/2021	Y

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>BMP Construction</b>	PHOSPHORUS (EST. REDUCTION)	90 LBS/YR	Bone Lake	Other	
<b>BMP Construction</b>	PHOSPHORUS (EST. REDUCTION)	24 LBS/YR	Moody Lake	Other	
<b>BMP Construction</b>	SEDIMENT (TSS)	8.2 TONS/YR	Bone Lake	Other	
<b>BMP Construction</b>	SEDIMENT (TSS)	4.9 TONS/YR	Moody Lake	Other	

### Final Indicators Summary

Indicator Name	Total Value	Unit
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## Grant Activity

Grant Activity - BMP Construction	
<b>Description</b>	<p>The 10 proposed BMPs will focus on rural nonpoint pollution concerns on approximately 150 acres of annual row crop and livestock pasture, including concentrated flow pathways, lack of filter strips, and animal access to wetlands. There are multiple root causes for the resource concerns cited in the grant application. This project will focus on the root cause of phosphorus loading in Moody and Bone Lakes due to erosion in the watershed, lack of filtering vegetation in key locations, poor soil health related practices, and animal pasturing in wetland areas. These concerns will be addressed through projects such as cover crops, no-till/strip-till, grassed waterways, filter strips, rotational grazing, and access control. The practices that are installed implemented will stabilize gully erosion, add deep-rooted vegetation, and enhance farming practices to reduce erosion. Moreover, in the Moody Lake watershed these practices will protect other surface water resources in the watershed and prevent future degradation of Moody Lake. Water quality benefits will include an estimated 90 pounds phosphorus and 8.2 tons sediment loading reductions per year to Bone Lake, and 24 pounds of phosphorus and 4.9 tons of sediment loading reductions per year to Moody Lake.</p> <p>This Activity will be primarily carried out by a contractor selected through either a request for quotes or public bidding process, depending on the final estimated cost of construction and applicable bidding requirements. A competitive quote process will be triggered if the cost of Contracting is in excess of \$25,000, and a public bidding process will be triggered if the cost of Contracting is in excess of \$100,000.</p>
<b>Category</b>	AGRICULTURAL PRACTICES
<b>Start Date</b>	<b>End Date</b>
<b>Has Rates and Hours?</b>	No
<b>Actual Results</b>	12/31/21 Update: Project implementation to occur in 2022, pending landowner participation.

## Grant Activity - Engineering Technical Support

<b>Description</b>	<p>The engineering and technical support for this project will include the project feasibility, design, permitting, construction bidding and construction observation of the BMPs that will focus on rural nonpoint pollution concerns on approximately 150 acres of annual row crop and livestock pasture, including concentrated flow pathways, lack of filter strips, and animal access to wetlands.</p> <p>Engineering and technical support will be provided by Chisago Soil and Water Conservation District (CSWCD) and Washington Conservation District (WCD), with supporting review and consultation by Emmons and Olivier Resources (EOR). Team members include: Tara Kline, Angela Defenbaugh, and Rebecca Nestingen (WCD); Shane Hultman (CSWCD); and Meghan Funke, Jason Naber, Dan Mossing, Kyle Crawford, and Ryan Fleming (EOR).</p>
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE
<b>Start Date</b>	<b>End Date</b>
<b>Has Rates and Hours?</b>	No
<b>Actual Results</b>	<p>12/31/20 Update: Re-assessed potential projects using information from WCD/SWCD workshop and re-ranked projects.</p> <p>12/31/21 Update: Worked with CLFLWD staff on project feasibility and preliminary design.</p>

### Grant Activity - Grant and Project Administration

<b>Description</b>	<p>Mike Kinney, Comfort Lake-Forest Lake Watershed District (CLFLWD) Administrator, is the Project Manager for this grant and provide oversight of all project activities, eLINK submissions, and serve as the liaison with the CLFLWD Board of Managers. The Project Manager will also ensure that the project stays on track for completion by December 2021. Emily Heinz, CLFLWD Planning Coordinator, will provide project administration support including: project management and contracting assistance, completion of all required BWSR reporting, and grant expense tracking. Assistant from other District staff such as Jessica Lindemyer, Watershed Assistant, may be necessary as well.</p> <p>The project will follow the grant timeline and meet reporting requirements. Staff rates will be reviewed annually and revised based on the BWSR spreadsheet.</p>	
<b>Category</b>	ADMINISTRATION/COORDINATION	
<b>Start Date</b>		<b>End Date</b>
<b>Has Rates and Hours?</b>	Yes	
<b>Actual Results</b>	<p>2/1/20 Update: Project administration, grant reporting</p> <p>12/31/20 Update: Grant reporting</p> <p>12/31/21 Update: Grant reporting, grant amendment</p>	

### Grant Activity - Non-Structural Practices

<b>Description</b>	Rates and policy will be sent to BWSR to review before implementing. Ag/rural practices will adhere to NRCS Field Office Standards FOTG	
<b>Category</b>	NON-STRUCTURAL MANAGEMENT PRACTICES	
<b>Start Date</b>		<b>End Date</b>
<b>Has Rates and Hours?</b>	No	
<b>Actual Results</b>	12/31/21 Update: Project implementation to occur in 2022, pending landowner participation.	

## Grant Activity - Project Development

<b>Description</b>	<p>The identification of specific projects has already been completed, and projects were subsequently re-ranked using additional analysis. The Bone Lake SWA has a list of the top 50 priority projects in the Moody and Bone Lake watershed, along with profiles of each of the top 50 fields and the suggested practices to address the resource concerns on each field. The Bone Lake SWA estimated pollutant reductions at edge-of-field and did not attempt to estimate reductions realized at the target waterbodies (Moody Lake and Bone Lake). The District performed an analysis of projects in the SWA, re-ranking them according to pollutant reductions realized at the target waterbodies. Preliminary outreach has taken place in the form of a letter sent to each of the top 50 landowners. The letter explains the Bone Lake SWA and the potential cost share for addressing concerns. At the time of this grant application, several of the landowners have already been in contact with the Chisago SWCD and the WCD; some preliminary site visit meetings have been scheduled. Further project development can begin as soon as funding is received. In addition, nearly all projects involve just one landowner, reducing outreach efforts. This project will focus on 10 priority BMPs (which may be structural or non-structural). Additional outreach efforts will include a combination of efforts such as a second round of mailers, door knocking, phone calls, and landowner meetings/workshops.</p> <p>Project development will be led collaboratively by District staff, Emmons and Olivier Resources (EOR), Chisago Soil and Water Conservation District (CSWCD) and Washington Conservation District (WCD). Team members include: Mike Kinney, Blayne Eineichner, Aidan Read (CLFLWD); Meghan Funke, Mike Talbot, Jason Naber, Dan Mossing and Kyle Crawford (EOR); Tara Kline, Angela Defenbaugh, and Rebecca Nestingen (WCD); and Mary Jo Youngbauer and Shane Hultman (CSWCD). Smith Partners LLP will provide legal support for easements/agmts</p>		
<b>Category</b>	PROJECT DEVELOPMENT		
<b>Start Date</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: center;"><b>End Date</b></td> </tr> </table>		<b>End Date</b>
	<b>End Date</b>		
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	<p>2/1/20 Update: Project startup and coordination, review and update SWA prioritization results</p> <p>12/31/20 Update: Held a workshop with Washington Conservation District and Chisago Soil and Water Conservation District to compare SWA protocols with monitoring data. Began discussions with several landowners.</p> <p>12/31/21 Update: Landowner outreach. Organized farmer-led council and held first meeting, discussing ag best practices and sharing information. Will continue to hold farmer-led council meetings in 2022, and will implement agricultural best management practices.</p>		

## Grant Attachments

Document Name	Document Type	Description
<b>2019 Competitive Grant</b>	Grant Agreement	2019 Competitive Grant - Comfort Lake-Forest Lake WD
<b>2019 Competitive Grant EXECUTED</b>	Grant Agreement	2019 Competitive Grant - Comfort Lake-Forest Lake WD
<b>2019 Competitive Grant amendment EXECUTED</b>	Grant Agreement Amendment	
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 04/13/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/30/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/03/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 06/24/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/19/2022
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 08/31/2018
<b>Application Image</b>	Grant	Bone Lake SWA Implementation
<b>Bone Lake SWA Final Report_2017</b>	Grant	Bone Lake SWA Implementation
<b>Bone Lake SWA Prioritization Memo_2018</b>	Grant	Bone Lake SWA Implementation
<b>C19-2734 Bone Lk SWA Impl. Work plan and Amendment of Agreement Request for Extension</b>	Journal	Journal Dated - 07/23/2021
<b>C19-2734 Grant Amendment</b>	Grant Agreement Amendment	
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 07/23/2021
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 12/19/2018
<b>Work Plan Text</b>	Grant	Bone Lake SWA Implementation