



Grant All-Detail Report Projects and Practices 2021

Grant Title - Bone Lake Northeast Wetland Restoration

Grant ID - C21-8059

Organization - Comfort Lake-Forest Lake WD

Original Awarded Amount	\$171,200.00	Grant Execution Date	4/8/2021
Required Match Amount	\$42,800.00	Original Grant End Date	12/31/2023
Required Match %	25%	Grant Day To Day Contact	Mike Kinney
Current Awarded Amount	\$171,200.00	Current End Date	12/31/2023

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$171,200.00	\$156,497.69	\$14,702.31
Total Match Amount	\$55,116.22	\$34,121.49	\$20,994.73
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$226,316.22	\$190,619.18	\$35,697.04

*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	Local Fund	CLFLWD	\$5,000.00	\$434.54	12/31/2022	Y
Engineering	Technical/Engineering Assistance	Current State Grant	Bone Lake Northeast Wetland Restoration	\$28,883.89	\$28,883.89	12/31/2022	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Engineering	Technical/Engineering Assistance	Local Fund	CLFLWD	\$10,400.00	\$9,216.75	12/31/2022	Y
Non-Structural Practices	Non-Structural Management Practices	Current State Grant	Bone Lake Northeast Wetland Restoration	\$14,702.31			N
Non-Structural Practices	Non-Structural Management Practices	Local Fund	CLFLWD Levy	\$12,316.22			Y
Project Development	Project Development	Local Fund	CLFLWD	\$15,000.00	\$10,241.21	12/31/2022	Y
Wetland Restoration	Wetland Restoration/Creation	Current State Grant	Bone Lake Northeast Wetland Restoration	\$127,613.80	\$127,613.80	12/15/2022	N
Wetland Restoration	Wetland Restoration/Creation	Local Fund	CLFLWD	\$12,400.00	\$14,228.99	12/15/2022	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
657 - Wetland Restoration	1	1	6 AC	10.81 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Wetland Restoration	PHOSPHORUS (EST. REDUCTION)	206 LBS/YR	Little Comfort Lake	Other	

Final Indicators Summary

Indicator Name	Total Value	Unit
PHOSPHORUS (EST. REDUCTION)	15.00	LBS/YR

Grant Activity

Grant Activity - Administration/Coordination	
Description	<p>This Activity will be carried out by the following CLFLWD staff. Tasks include budgeting, reporting and grant management. District staff members involved in this task include:</p> <ul style="list-style-type: none"> District Lead – Mike Kinney Day-to-Day Project Coordinator – Blayne Eineichner Grant Administration – Emily Heinz Education & Outreach – Jessica Lindemyer
Category	ADMINISTRATION/COORDINATION
Start Date	End Date
Has Rates and Hours?	No
Actual Results	<p>12/31/21 Update: Grant management and reporting</p> <p>4/28/22 Update: Grant management and reporting</p> <p>12/31/22 Update: Grant management and reporting; processed grant revision to utilize unspent grant dollars on non-structural mgmt practices elsewhere in the Bone Lake drainage area; Board of Managers accepted engineer's certificate of completion and officially closed out the wetland restoration project and issued final payment to contractor.</p>

Grant Activity - Engineering

<p>Description</p>	<p>This activity will be primarily carried out by Emmons & Olivier Resources (EOR) currently serving as the watershed district engineer. Tasks include permitting, modeling, design, contract documents, bidding, construction oversight, and development of an operations & maintenance plan. EOR staff dedicated to the project and their individual roles are identified below.</p> <ul style="list-style-type: none"> • District Engineer and Water Quality Scientist - Meghan Funke, PE, Ph.D. • Engineering Project Manager and Engineer of Record – Kyle Crawford, PE • Wetland Ecology & Environmental Permitting Lead – Jason Naber • Wetland Ecology & Environmental Permitting – Jimmy Marty • Principal Oversight - Cecilio Olivier, PE • H&H & Water Quality Modeling Lead - Mike Talbot, EIT • Civil Technician, Field Services & Construction Observation – Multiple <p>Project Lead Qualifications:</p> <p>Kyle Crawford is a water resources engineer with nine years of broad experience in civil engineering, stormwater management and ecosystems restoration. Kyle has been involved from design through construction oversight for a wide range of projects in stormwater treatment design and planning and ecological restoration.</p> <p>Jason Naber has 32 years of experience in natural and water resources management, GIS mapping, and threatened and endangered wildlife surveys. Jason has been involved with the development of several resource management plans, comprehensive wetland management plans, and studies focusing on biotic impairments. Jason is well versed in local, state and federal environmental regulations and permitting programs.</p> <p>Project Design and Construction Standards: The most current edition of the Minnesota Department of Transportation “Standard Specifications for Construction” (currently 2018) and the City of Forest Lake “Public Works / Engineering Standards” (currently 2020) shall govern.</p>
<p>Category</p>	<p>TECHNICAL/ENGINEERING ASSISTANCE</p>
<p>Start Date</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>No</p>
<p>Actual Results</p>	<p>12/31/21 Update: Project design, permitting, coordination with contractor.</p> <p>4/28/22 Update: Construction oversight/coordination with contractor</p> <p>12/31/22 Update: Engineer certified wetland restoration project completion as of 11/28/22</p>

Grant Activity - Non-Structural Practices

Description	CLFLWD will implement non-structural BMPs that provide erosion control and water quality improvement benefits. Non-structural BMPs will be planned and implemented according to the Natural Resources Conservation Service (NRCS) standards and specifications found in the Field Office Technical Guide (FOTG). Practices will be consistent with the CLFLWD's non-structural practices policy, which will be submitted to BWSR for review prior to implementation. WCD (Angela Defenbaugh) and CLFLWD staff (Aidan Read) will be the technical providers. Aidan Read is a conservation planner trainee and has professional experience in conservation planning. Applicable JAA available on request. Specific practices will include: -Pasture and hay planting (512) -Conservation cover (327) -Cover crops (340) -Residue management No-Till (329) -Residue management Strip Till (329) -Residue management Conservation Tillage (345)
Category	NON-STRUCTURAL MANAGEMENT PRACTICES
Start Date	End Date
Has Rates and Hours?	No
Actual Results	12/31/22 Update: processed grant revision; work to occur in 2023

Grant Activity - Project Development

<p>Description</p>	<p>This Activity will be carried out by the following CLFLWD staff. Tasks include landowner outreach, survey and legal coordination, and public outreach. District legal counsel time needed to review contracts and landowner agreements is also included in this grant activity. A registered land surveyor will be contracted to assist with any easements and legal descriptions. Minor support roles may be needed by the District Engineer.</p> <p>Due to the high visibility of this project from Bone Lake and 238th Street North, the District will engage in extra public outreach surrounding this project including:</p> <ul style="list-style-type: none"> • Informational postcard and other direct mailings (coordinated with the Bone Lake Association) mailed out prior to project construction • Regular updates to District website and social media • Discussion of this project at the District Tour and State of the Watershed public meeting (to be held pending COVID-19 restrictions) <p>District staff members involved in this task include</p> <ul style="list-style-type: none"> • District Lead – Mike Kinney • Day-to-Day Project Coordinator – Blayne Eineichner • Grant Administration – Emily Heinz • Education & Outreach – Jessica Lindemyer
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>
<p>Start Date</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>No</p>
<p>Actual Results</p>	<p>12/31/21 Update: Landowner coordination and legal counsel – outreach, executed agreements.</p> <p>4/28/22 Update: Landowner outreach, assist with construction oversight, provided updates to CLFLWD Board of Managers</p> <p>12/31/22 Update: Certified project completion for wetland restoration.</p>

Grant Activity - Wetland Restoration	
Description	This activity will be carried out by a contractor selected through a public bidding process. EOR and CLFLWD staff will oversee the bidding and construction process. Native vegetation guidelines will be followed for all project revegetation.
Category	WETLAND RESTORATION/CREATION
Start Date	End Date
Has Rates and Hours?	No
Actual Results	<p>12/31/21 Update: Project construction slated for early 2022.</p> <p>4/28/22 Update: Completed construction in February 2022. Temporary site stabilization put into place. Full site restoration and planting to occur this spring.</p> <p>12/31/22: Project revegetation complete and certified completion by engineer</p>

Activity Action - Northeast Wetland Restoration			
Practice	657 - Wetland Restoration	Count of Activities	1
Description	<p>Created open-water area of 1.55 acres in the wetland NE of Bone Lake. Total footprint approx. 10.81 acres. Removed approx. 5,500 CY of phosphorus-rich accumulated sediment.</p> <p>Project closed out on 12/15/22 and certified complete</p>		
Proposed Size / Units	6.00 AC	Lifespan	25 Years
Actual Size/Units	10.81 AC	Installed Date	15-Dec-22
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Northeast Wetland Restoration			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	15
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Bone Lake		

Grant Attachments

Document Name	Document Type	Description
2021 Competitive Grant	Grant Agreement	2021 Competitive Grant - Comfort Lake-Forest Lake WD

Document Name	Document Type	Description
2021 Competitive Grant EXECUTED	Grant Agreement	2021 Competitive Grant - Comfort Lake-Forest Lake WD
40% Financial Report	Grant	Bone Lake Northeast Wetland Restoration
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/28/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/20/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/09/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/09/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/18/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/17/2023
Application	Workflow Generated	Workflow Generated - Application - 08/17/2020
Detailed Work Plan Text	Grant	Bone Lake Northeast Wetland Restoration
Easement Document	Grant	Bone Lake Northeast Wetland Restoration
Landowner Letter of Support	Grant	Bone Lake Northeast Wetland Restoration
Site Map	Grant	Bone Lake Northeast Wetland Restoration
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/17/2020
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/05/2021
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 11/18/2022
grantmap_28972_2020-08-17_04-15-28-PM.jpg	Grant	Bone Lake Northeast Wetland Restoration