PROJECT REQUEST FORM Lower St. Croix Partnership – Watershed Based Implementation Funding

To:	Steering Committee	Date: February 14, 2024
From:	Comfort Lake-Forest Lake Watershed District	
Subject:	t: WBIF Project Request: Activity #7 Heath Ave IESF Feasibility	

Table of Acronyms

CWMP: Comprehensive Watershed Management Plan	LSC: Lower St. Croix
SWCD: Soil & Water Conservation District	WD: Watershed District
WBIF: Watershed Based Implementation Funding	WMO: Watershed Management Organization

Eligible Project Sponsors

A sponsoring agency is required for each submitted project. The sponsor fills out this request. That agency must be a party to the Joint Powers Agreement for the implementation of the Lower St. Croix Comprehensive Watershed Management Plan. The sponsor, if the project is selected for funding, will enter into a subcontract with the Chisago Soil and Water Conservation District (SWCD) for project funding.

Description of Project (brief paragraph)

The CLFLWD is requesting WBIF grant funds to hire Emmons & Olivier Resources to perform Technical/Engineering services for a water quality improvement project in the Sunrise River headwaters. Grant funding will be used to complete a feasibility analysis for the Heath Avenue Iron Enhanced Sand Filter (IESF) Project. The resulting project will address CWMP Implementation Table activity #2: Rivers & Streams + St. Croix River WQ, priority locations include all streams and tributaries in Sunrise River Watershed (whole watershed regardless of direct drainage), and measurable output includes reducing total phosphorus by 3,300 lbs/year. Based on water monitoring data and modeling, the CLFLWD estimates the resulting IESF project will reduce phosphorus loading within the Sunrise River watershed by 79 lbs/year. This project will have the added benefit of improving water quality in Little Comfort Lake and Comfort Lake. This particular tributary was targeted by the CLFLWD through a diagnostic study, and it is a high priority for nutrient load reductions.

The CLFLWD is requesting LSC WBIF grant funding because of the timing necessary for this project. Normally, the CLFLWD would apply for a Clean Water Fund Projects & Practices competitive grant, and then complete the feasibility and project ordering, using grant funds, after the grant is awarded. However, this project is different in that we intend to purchase the underlying property from the current landowner. The CLFLWD would own the ~2.5-acre property in perpetuity and construct/maintain the project therein. Before we can close on the property acquisition, our legal counsel has advised us that we must complete the project feasibility and order the project first. We propose the following order of events: utilize LSC WBIF to complete the project feasibility in spring 2024, order the project and close on the property by end of 2024, apply for a FY25 CWF competitive grant in fall 2024, and hopefully be able to finalize project design and proceed with construction as soon as FY25 CWF is available (spring 2025). Time is of the essence, as we work to accommodate expectations of the current landowner who is currently willing to sell the property, and as we must work through a rezoning and lot division before closing as well (a process which can take several months).

PROJECT REQUEST FORM

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Benefitted Waterbody Information

Grant request is for Tech/Eng only. Information below applies to the resulting project.

Target waterbody	Sunrise River		
Is target waterbody in LSC CWMP Table 5-2 or 5-3?	Yes		
Waterbody area (acres)	N/A		
Watershed area (acres) – entire Sunrise River	238,634		
watershed, per Lake St. Croix TMDL			
DNR shoreline classification	N/A		
Description of the watershed and near-shore land uses	Agricultural, residential, wetland, deciduous		
	forest		
Impairment status	This section of the Sunrise River is impaired		
	for aquatic life and aquatic recreation		
Protection or restoration	Restoration		

Project Details

Project Name	Heath Avenue Iron Enhanced Sand Filter	
Droject Sponsor	Comfort Laka Forest Laka Watershed	
Project Sponsor	District	
Additional Project Partner(a) (other then approach)		
Project L section (lat/long_address_or description)	IV/A Property ID 211070200	
rioject Location (lat/long, address, of description)	Located south of Hwy 8 east of Heath Ave	
DNR Level 8 Subwatershed	3705200	
Applicable WBIF Work Plan Activity	Activity 7: Technical/Engineering	
I SC CWMP Goal Addressed by this Proposal (see	1A Improve water quality in key rivers and	
Table 3-1	streams with human contact and significant	
	pollutant loading to St. Croix River and Lake	
	St Croix	
LSC CWMP Implementation Action Addressed by this	Activity #2: Rivers & Streams + St. Croix	
Proposal (see Table 5-1)	River WO	
Funding Specifically Allocated to this Project in Work	N/A	
Plan (if applicable)		
Estimated Timeline	March 2024-September 2024	
Total Project Cost (for Feasibility Study)	\$58,784	
Total Project Cost (for Feasibility Study) Estimated Lifetime Project Cost (incl. O&M)	\$58,784 N/A	
Total Project Cost (for Feasibility Study) Estimated Lifetime Project Cost (incl. O&M) Requested Grant Funding	\$58,784 N/A \$49,000	
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Pre-Project Identification

Total phosphorus load entering	Sunrise River total from TMDL: 37,544 lb/yr	
target waterbody		
Total suspended solids load	TBD	
entering target waterbody		
Major sources of nutrient loading	Insufficient stormwater management from historic development in	
	the area and ditched/degraded wetland systems	
P reduction required to achieve	Sunrise River total from TMDL: 18,306 lb/yr	
water quality goal		
Completed projects, load	The CLFLWD recently completed the Highway 61 Wetland	
reduction	Enhancement project on a nearby branch of the Sunrise River	
Alternative projects, load	The CLFLWD evaluated other projects in this area, including a	
reduction	wetland restoration, gravel pit water impoundment, and beaver	
	dam analogs in stream channel. However, these projects were	
	deemed infeasible due to landowner approvals and DNR	
	permitting. The proposed IESF project is the top priority due to its	
	significant load reduction on the target drainage area, participation	
	from a willing landowner, and high likelihood of permitting	
	approvals for an IESF project.	

List of Informational Attachments/Templates Included With Form:

- 1. WBIF Project Request Process Flow Chart
- 2. CWMP Priority Waterbody Maps
- 3. CWMP Appendix C Project Targeting Criteria and Scoring Matrix (for Activities 2, 4, 5, 9)
- 4. Wetland Restoration Scoring Matrix (for Activity 6)
- 5. Internal Analysis Request for Funding (for Activity 7; filled out by applicant)
- 6. Internal Analysis Selection Criteria (for Activity 7; filled out by subcommittee)
- 7. Targeting Analysis Scoring Matrix (for Activity 8)

Required Attachments for Requesting Partner to Complete (check all that apply):

- Project Plans/Visual/Map (for all requests)
- Completed Appendix C Project Scoring Matrix (for Activities 1, 2, 3, 7)
- Completed Wetland Restoration Scoring Matrix (for Activity 4)
- Completed Internal Analysis Request for Funding (for Activity 8)
- □ Completed Internal Analysis Selection Criteria (for Activity 8)
- Completed Targeting Analysis Scoring Matrix (for Activity 9)

WBIF Work Plan Activity Color Coding

Implementation - BMPs/Restoration Activities

Implementation - Shared Services

Prioritization & Analysis

Administration

Submit this form and attachments to Angie Hong at (<u>ahong@mnwcd.org</u>) one week prior to the Steering Committee meeting.

PROJECT REQUEST FORM

Lower St. Croix Partnership – Watershed Based Implementation Funding

Steering Committee Roll Call Vote

Steering Committee roll call vote to recommend Comfort Lake-Forest Lake WD project for Lower St. Croix Watershed Based Implementation Funding in the amount of \$49,000 for the Heath Ave Iron Enhanced Sand Filter Feasibility.

Organization	Aye	Nay	Absent
Anoka SWCD			
Brown's Creek WD			
Carnelian Marine St Croix WD			
Chisago County			
Chisago Lakes LID			
Chisago SWCD			
Comfort Lake Forest Lake WD			
Isanti County			
Isanti SWCD			
Middle St. Croix WMO			
Pine County			
Pine SWCD			
South Washington WD			
Sunrise River JP WMO			
Valley Branch WD			
Washington CD			
Washington County			
TOTAL (need majority vote to pass)			

Project Targeting Criteria and Scoring Matrix

Heath Ave IESF Feasibility Study

Comfort Lake-Forest Lake Watershed District

Criteria and Points for Ranking Agricultural and Urban BMPs for			Points & Description	
	Watershed Based Fundsas			
	referenced in Section VII.B.			
1	Lake	The project addresses total	LPSS Priority Class* is	
	Restoration	phosphorus on a priority lake (See	"Impaired" or "Highest" = 5	
	& Protection	table on page 2)	LPSS Priority Class is "High" or "Higher" = 3	
Can score points for #1 or #2, but not both.				
2	Stream Restoration	Project is located near stream reach and will address stream impairment or Lake St. Croix total phosphorus impairment)	Within ¼ mile = 5 Within ½ mile = 3	5 Within ¼ mile and has direct flowage to Sunrise River headwaters through stormwater conveyance pipes
3	Groundwater	Project improves groundwater quality/quantity (examples: soil health, nutrient management, pesticide reduction, recharge, infiltration, reuse)	Yes = 3 No = 0	0 Clay soils not conducive to infiltration. Will be a flow-through IESF filtration system.
4	Readiness	Concept plans, cost	Yes = 3	3
		estimates, and landowner agreements/easeme nts are complete 3 or 0	No = 0	We have early concepts and estimates and a letter of support from the landowner.
5	Urgency & Opportunity	Is the project contingent on securing funding now? (Example, BMP is part of a larger project that will move forward with or without the BMP; opportunity would be lost if not funded and implemented now)	Yes = 1 No = 0	1 Yes. Otherwise the project timeline will be pushed out by 1 year while the District applies for FY25 CWF Projects and Practices grant. CLFLWD is trying to move quickly while the landowner is ready to sell. See timeline explanation on project request form.

6	Cost	Level of cost benefit when compared	Top 1% = 10	10
	effectiveness	to all projects analyzed inparticular	Top 10% = 7	This is the top project identified for
		SWA or similar targeting analysis.	Top 25% = 5	this drainage area. The CLFLWD
			Top 50% = 3	performed a diagnostic study for this
			< 50% = 0	drainage area, and we evaluated 3
				other practices in the area, but they
				were deemed infeasible for various
				reasons. This project is the next best
				alternative, and it involves a willing
				landowner and no impacts on
				surrounding landowners.
7	Partners &	Partnership and collaboration with	Yes = 1	1
	Funding	agencies, organizations, or other	No = 0	CLFLWD has been in communication
		groups is being leveraged or utilized		with the City of Wyoming and Chisago
		by this project (Are there multiple		County about this project and other
		partners providing funding, in-kind		improvements surrounding the
		support, or other assistance or		Highway 8 corridor.
		involvement?)		
8	Multiple	Project provides added benefit of	Yes = 1	1
	Benefit	habitat improvements (aquatic,	No = 0	CLFLWD will incorporate native
		riparian, upland, wetland). Note:		planting and pollinator habitat into
		water quality improvements are		project design (surrounding IESF filter
		not considered habitat		bed).
		improvements forthis criterion.		
9	Multiple	Project provides added	Yes = 1	1
	Benefit	benefit of education	No = 0	Educational signage will be installed.
		(examples:signage,		This is a visible location from Heath
		demonstration project)		Avenue and serves as a good
				demonstration site for IESFs.
10	Multiple	Project improves water quality	Yes = 1	0
	Benefit	while also addressing flooding	No = 0	Flow-through IESF filtration system,
		concern (examples: pond, wetland		not providing significant flood storage.
		restoration, or floodplain		
		expansion)		
		Total Points	26	22



Additional Attachments:

- Letter of Support from Landowners
- Letter of Support from City of Wyoming

Date: August 17, 2023

To: Conservation Partners Legacy Grant Review Committee

Re: Letter of Support for Comfort Lake-Forest Lake Watershed District Proposal

To whom it may concern,

We support the Comfort Lake-Forest Lake Watershed District (CLFLWD) in its proposal to subdivide and purchase a portion of our property at 24989 Heath Avenue, Forest Lake, MN for conservation and water quality purposes. The Watershed District proposes to implement native plantings and a water quality improvement project with the land. This will improve habitat for pollinators and other wildlife, and it will result in a significant water quality improvement for Little Comfort Lake, which is located just downstream of my property.

I fully support this project and hope the grant proposal is well received.

sent flusen Sincerely, alla filssin

Andrea Vollrath & Joe Jensen 24989 Heath Avenue Forest Lake, MN 55025



September 5, 2023

Conservation Partners Legacy Grant Review Committee MN DNR 500 Lafayette Road Box #20 St. Paul, MN 55155

Re: Letter of Support for Comfort Lake-Forest Lake Watershed District Proposal

To whom it may concern,

The city of Wyoming supports the Comfort Lake-Forest Lake Watershed District (CLFLWD) in its proposal to subdivide and purchase a portion of the property at 24989 Heath Avenue, Forest Lake, MN for conservation and water quality purposes. The Watershed District proposes to implement native plantings and a water quality improvement project with the land. This will improve habitat for pollinators and other wildlife, and it will result in a significant water quality improvement for Little Comfort Lake, which is located just downstream of my property.

The city of Wyoming supports this project and hopes the grant proposal is well received.

Sincerely,

Robb Linwood City Administrator City of Wyoming 651-462-0575 rlinwood@wyomingmn.org 26885 Forest Blvd Wyoming, MN 55092



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