



Grant All-Detail Report

Watershed Based Implementation FEB 2021

Grant Title - 2021 WBIF - Lower St. Croix Watershed Partners

Grant ID - C21-4732

Organization - Chisago SWCD

Original Awarded Amount	\$1,264,531.00	Grant Execution Date	3/31/2021
Required Match Amount	\$126,453.10	Original Grant End Date	12/31/2023
Required Match %	10%	Grant Day To Day Contact	Craig Mell
Current Awarded Amount	\$1,264,531.00	Current End Date	12/31/2023

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$1,264,531.00	\$164,653.56	\$1,099,877.44
Total Match Amount	\$129,800.00	\$107,074.62	\$22,725.38
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$1,394,331.00	\$271,728.18	\$1,122,602.82

*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	2021 WBIF - Lower St. Croix Watershed Partners	\$100,000.00	\$24,219.27	1/11/2022	N
Administration/Coordination	Administration /Coordination	Local Fund	LSC Partners	\$0.00	\$712.17	8/10/2021	Y
Basin Ag Outreach Program	Project Development	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$200,000.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Basin Ag Outreach Program	Project Development	Local Fund	LSC Partners	\$0.00			Y
Internal Analyses	Planning and Assessment	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$50,000.00			N
Non-Structural Ag/Urban Implementation	Non-Structural Management Practices	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$200,000.00			N
Shared Services Educator	Education/Information	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$125,000.00	\$39,448.98	1/11/2022	N
Shared Services Educator	Education/Information	Local Fund	LSC Partners	\$4,800.00	\$23,060.00	1/11/2022	Y
Structural Ag BMP Implementation	Agricultural Practices	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$160,000.00	\$97,985.31	12/15/2021	N
Structural Ag BMP Implementation	Agricultural Practices	Federal Funds	Federal Programs (NRCS)	\$27,500.00			Y
Structural Ag BMP Implementation	Agricultural Practices	Local Fund	LSC Partners	\$27,500.00	\$82,630.84	12/15/2021	Y
Structural Urban BMP Implementation	Urban Stormwater Management Practices	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$200,000.00			N
Structural Urban BMP Implementation	Urban Stormwater Management Practices	Local Fund	LSC Partners	\$70,000.00			Y
Targeting Analyses	Planning and Assessment	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$150,000.00	\$3,000.00	1/11/2022	N
Targeting Analyses	Planning and Assessment	Local Fund		\$0.00	\$671.61	1/11/2022	Y
Technical/Engineering	Technical/Engineering Assistance	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$40,000.00			N
Technical/Engineering	Technical/Engineering Assistance	Local Fund	LSC Partners	\$0.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Wetland Restoration Implementation	Wetland Restoration/Creation	Current State Grant	2021 WBIF - Lower St. Croix Watershed Partners	\$39,531.00			N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
472 - Access Control	1	1	0.6 AC	0.6 AC
468 - Lined Waterway or Outlet	1	1	4 AC	4 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Non-Structural Ag/Urban Implementation	PHOSPHORUS (EST. REDUCTION)	400 LBS/YR	St. Croix	MIDS	
Structural Urban BMP Implementation	PHOSPHORUS (EST. REDUCTION)	200 LBS/YR	St Croix	MIDS	
Wetland Restoration Implementation	PHOSPHORUS (EST. REDUCTION)	15 LBS/YR	St. Croix	MIDS	
Structural Ag BMP Implementation	PHOSPHORUS (EST. REDUCTION)	300 LBS/YR	St. Croix River	BWSR CALC (GULLY STABILIZATION)	

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	296.89	TONS/YR
PHOSPHORUS (EST. REDUCTION)	254.48	LBS/YR

Grant Activity

Grant Activity - Administration/Coordination

Description

Lead Agencies: Chisago SWCD, WCD, CLFLWD (see role assignments below)

Activity Description: This Activity will include the following tasks (performed by the organizations/staff members listed):

- Grant and progress reporting – includes coordinating with Chisago SWCD and other partners to gather reporting information, compiling said information, and entering reports into eLINK; will also include assisting Chisago SWCD with any grant/work plan amendments as necessary.
 - o Lead organization: CLFLWD
 - o Staff member: Emily Heinz, Planning Coordinator
- Coordination among Policy Committee, Steering Committee, Advisory Committee, and work plan activity planning team (lead coordination of meetings, agendas, meeting material distribution)
 - o Lead organization: WCD (EMWREP)
 - o Staff member: Angie Hong, Water Education Senior Specialist
- Website upkeep
 - o Lead organization: WCD (EMWREP)
 - o Staff member: Angie Hong, Water Education Senior Specialist
- Fiscal agent administration and contract coordination – includes coordinating with other partners to gather reporting information and reviewing draft report; will also include leading any grant/work plan amendments as necessary
 - o Lead organization: Chisago SWCD
 - o Staff member: Craig Mell, District Administrator
- Agronomy Outreach Specialist and Educator administration, hiring and payroll administration. WCD will lead the process of coordinating the hiring subcommittees which will consist of staff members from partner organizations (see Grant Activities section for more description of grant activity subcommittees). Hiring subcommittees ideally not to exceed 5 people.
 - o Lead organization: WCD
 - o Staff member: Jay Riggs, District Manager

See Work Plan Detail in eLINK attachments for more info.

Category

ADMINISTRATION/COORDINATION

Start Date		End Date	
Has Rates and Hours?	Yes		
Actual Results	<p data-bbox="516 191 726 220">As of July 1, 2021</p> <p data-bbox="516 233 1913 305">Sub-agreements and financial reports were completed by Chisago SWCD, committees coordination, website updates, interviews conducted by WCD.</p> <p data-bbox="516 358 1052 388">Actual Results -- December 31, 2021 Update:</p> <ul style="list-style-type: none"> <li data-bbox="516 399 1121 428">• Description of work and outputs achieved: <ul style="list-style-type: none"> <li data-bbox="516 440 1976 591">o Chisago SWCD: Performed fiscal agent duties including execution of partner sub-agreements, payment of invoices, and eLINK financial reporting. Worked with CLFLWD to establish reporting forms and invoicing templates that align with reporting requirements to ensure all activities receiving WBIF grant funds are in alignment with work plan and reporting criteria. <li data-bbox="516 602 1982 631">o WCD: Performed hiring and payroll administration for Agronomy Outreach Specialist and Shared Services Educator. <li data-bbox="516 643 1734 672">o WCD/EMWREP: Kept the LSC website up to date with meeting information and other updates. <p data-bbox="516 683 1982 834">Coordinated/facilitated/took minutes for meetings of the Policy Committee, Steering Committee, Advisory Committee, and Planning Team. Over the course of this period, the Steering Committee approved 5 activities to receive WBIF grant funding: McQuade Ravine Stabilization, Hinze Cattle Exclusion, Enhanced Street Sweeping Study Protocols, Prioritization and Targeting Protocols, and Subcatchment Prioritization.</p> <ul style="list-style-type: none"> <li data-bbox="516 846 1982 959">o CLFLWD: Coordinated establishment of Project Request Packet including cover memo, attachments associated with each work plan activity, and informational attachments such as maps and the project request process flow chart. Worked with Chisago SWCD to establish reporting forms and invoicing templates. 		

Grant Activity - Basin Ag Outreach Program

<p>Description</p>	<p>Lead Agency: Washington Conservation District, Jay Riggs</p> <p>Co-lead Agency: Chisago SWCD, Craig Mell (Subcontract with WCD to act as host entity) Estimated billing rate; hours: \$72/hour; 2,778 hours</p> <p>Priority areas: Agronomy outreach specialist will focus on priority areas described in Structural Ag BMP Implementation and Non-Structural Ag/Urban Implementation</p> <p>CWMP Reference: Page 61</p> <p>Activity Description: Agronomy outreach specialist. (A) Shared Services: Hire or contract with an agricultural conservationist/agronomist (one individual) for basin wide assistance with agronomy, outreach, and technical assistance to agricultural producers including conservation planning and nutrient management plans. [Approximately 80% of this position’s time will be directly working with agricultural producers in the LSC Watershed to identify economical farming practices with water quality benefits to make them a routine part of farm operations. A target is to interact with operators of both large and small operations with a cumulative total of at least 3,000 acres.] See Attachment A – Agronomy Outreach Specialist Details & Milestones for more information.</p> <p>This would allow for 1 full time agronomy outreach specialist to work basin-wide. Staff will work basin-wide and may have more than one office space. LSC partners will ensure duties assigned to this new staff member will be in alignment with WBIF funding intent and requirements.</p> <p>See Work Plan Detail in eLINK attachments for more information.</p>		
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>		
<p>Start Date</p>		<p>End Date</p>	
<p>Has Rates and Hours?</p>	<p>Yes</p>		

Actual Results

Actual Results – December 31, 2021 Update:

- Description of work: The A1 subcommittee compared options for hiring the Agronomy Outreach Specialist including internal hire and contracting through University of MN Extension, ultimately deciding on the latter due to benefits of a partnership with UMNE. The A1 subcommittee worked closely with UMNE to post the job opening, review applications, interview candidates, and ultimately hired the number one candidate from the interview process. Projected start date is sometime in February 2022.
- Outputs achieved: Hired Agronomy Outreach Specialist in partnership with University of MN Extension (official announcement sent out January 2022).

Grant Activity - Internal Analyses

<p>Description</p>	<p>Lead Agency: Chisago County, Jerry Spetzman and Susanna Wilson-Witkowski</p> <p>Co-lead Agency: Chisago SWCD, Craig Mell (subcontracts with local partners for each subwatershed project)</p> <p>Staff Qualifications: Work is likely to be performed by an outside consultant which will be vetted for staff qualifications.</p> <p>Activity Description: Calculate internal loading of phosphorus on 2 lakes estimated at \$25,000 each. Two lakes will be awarded through the project evaluation process identified in the plan. The group will develop a timeline for evaluating internal load evaluation for lakes. Internal load evaluation should only occur after external loading is substantially addressed. Work under this activity will likely be performed by a contracted consultant.</p> <p>Priority projects identified include:</p> <ul style="list-style-type: none"> • Linwood Lake and Martin Lake Anoka. Both are priority A for internal loading analysis in LSC CWMP Table 5-4. • Goose Lake Washington. Priority B for internal loading analysis in CWMP Table 5-4. Water monitoring indicates watershed loads are addressed. Internal load reduction is the last step to delisting from MPCA Impaired waters list. • Priority "A" lakes with Rush (E & W) and Goose Lakes as our preferred top three. • Priority A Basin listed in Table 5-4, Downs Lake will be considered. • Wallmark, Pioneer and North Goose Lakes in Chisago all priority A <p>See Work Plan Detail in eLINK attachments for more info.</p>
<p>Category</p>	<p>PLANNING AND ASSESSMENT</p>
<p>Start Date</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>No</p>
<p>Actual Results</p>	<p>Actual Results -- December 31, 2021 Update:</p> <ul style="list-style-type: none"> • Description of work: The A7 subcommittee established the Internal Analysis Request for Funding and Scoring Criteria for inclusion in the Project Request Packet (see Activity 10), advertised the request for partner proposals, and reviewed and gave preliminary rankings to proposed projects. Top tier lakes for internal analyses include Forest Lake, Martin and Typo Lakes and West Rush Lake. The deadline for full proposal submittal was December 15, 2021. Funding allotments will be made in early 2022. • Outputs achieved: Completed Internal Analysis Request for Funding and Scoring Criteria, began project proposal and ranking process.

Description

Ag Lead Agency: Chisago SWCD, Craig Mell

Urban Lead Agency: CMSCWD, Mike Isensee

Urban/Ag Co-lead Agency: Chisago SWCD, Craig Mell (subcontracts with local partners for specific projects)

Priority areas:

- Ag:
 - o Tier 1: Rock Lake, Rock Creek, Sunrise River, St. Croix River tribs with direct discharge.
 - o Tier 2: lakes that drain to St. Croix tribs.
 - Rush and Goose Lakes in Chisago County
 - Forest and Comfort Lakes in CLFLWD (drain to Sunrise River)
- Urban:
 - o Rush Creek (Rush City)
 - o Goose Creek (Harris)
 - o Sunrise River (North Branch, Stacy, Wyoming)
 - o St. Croix River (Taylors Falls, Marine on the St. Croix, Stillwater, and MSCWMO cities).
- See Detail Work Plan Text for more info on priority areas.

CWMP Reference: Pages 61 and 65

Activity Description: Provide cost-share/incentives for implementing non-structural agricultural best management practices (e.g., soil health BMPs, reduced tillage, cover crops, nutrient management planning, forage/biomass plantings). Provide cost-share/incentives for implementing non-structural urban best management practices (e.g., enhanced street sweeping). BWSR accepted standards will be followed for all practices implemented. Projects to be chosen through targeting and prioritization process described in Section VII.B and Appendix C of CWMP. Specific enhanced street sweeping targeting analyses will be performed for priority areas.

The target phosphorus load reduction for this Activity is 400 lb/yr. The estimated number of agricultural land converted is 1,300 acres. The estimated number of enhanced street sweeping curb miles is 1,000.

Subcommittee will establish cost-share/incentive rates and policies which will entail:

1. Draft proposed non-structural land management policy

	<p>2. Send to BWSR for review.</p> <p>3-4. LSC partner boards approve</p> <p>See Work Plan Detail in eLINK attachments for more information.</p>
Category	NON-STRUCTURAL MANAGEMENT PRACTICES
Start Date	End Date
Has Rates and Hours?	No
Actual Results	<p>Actual Results -- December 31, 2021 Update:</p> <ul style="list-style-type: none"> Description of work: The A2/4/5 subcommittee focused on working with the A8 subcommittee to establish protocols for enhanced street sweeping studies (a highly cost-effective non-structural urban BMP). See Activity 8. Once protocols are complete, partners will complete enhanced street sweeping studies for priority communities. Only communities with enhanced street sweeping studies in alignment with protocols will be eligible for street sweeping incentive payments through this grant activity. Outputs achieved: Protocols to be completed in early 2022. Outcomes achieved: No projects implemented yet.

Grant Activity - Shared Services Educator

<p>Description</p>	<p>Lead Agency: Washington Conservation District, Jay Riggs</p> <p>Co-lead Agency: Chisago SWCD, Craig Mell (Subcontract with WCD to act as host entity)</p> <p>Estimated billing rate; hours: \$66/hour; 1,894 hours</p> <p>Priority areas: Basin-wide</p> <p>CWMP Reference: Page 65</p> <p>Activity Description: Facilitate shared education and outreach program across basin to provide education; engage residents, businesses, and local officials; and promote and market programs and practices. Education and outreach tasks will serve the goals outlined in the LSC CWMP and may not always pertain to the implementation items described in this WBIF grant work plan, but will always have a primary benefit to water quality in priority resources.</p> <ul style="list-style-type: none"> • 90% = develop, distribute and implement outreach programs that result in behavioral changes achieving water quality benefits; • 10% = solicit willing landowners to install BMPs that are goals within this plan. Promoted practices will be in line with BWSR eligibility requirements and will focus on water quality. <p>[0.5 FTE to expand EMWREP basin wide; \$50,000/yr or \$100,000/2 yrs]. Outreach will specifically include MIDS promotion to communities. Outreach will also include preliminary work with LGUs to set shoreline "view corridors" to 25% of lot width or maximum 35' width and maximum vegetation clearing standards or adopt innovative shoreland standards to protect buffers, native ecosystems, and habitat corridors. This work will provide water quality benefits through their protection of shoreline and streambank buffers. LSC partners will ensure duties assigned to this new staff member will be in alignment with WBIF funding intent and requirements. See Attachment B Education Details & Milestones for more information.</p> <p>See Work Plan Detail in eLINK attachments for more information.</p>		
<p>Category</p>	<p>EDUCATION/INFORMATION</p>		
<p>Start Date</p>		<p>End Date</p>	
<p>Has Rates and Hours?</p>	<p>Yes</p>		

Actual Results

As of July 1, 2021

Work completed by Barbara Heitkamp and Angie Hong on education in the watershed

Actual Results -- December 31, 2021 Update:

- Description of work: The A3 subcommittee completed the position description and announcement, reviewed applications, interviewed applicants, and ultimately hired Barbara Heitkamp as the LSC Shared Services Educator. Since then, Barbara has worked closely with EMWREP Coordinator, Angie Hong, as well as other partners throughout the basin to provide education services including: project tours, community events, workshops, newsletters, social media, and public engagement.
- Outputs achieved:
 - o Virtual project tour, 10 new videos, 80+ social media posts, one cover crop flyer, three lake association events, two soil health field days, three visits with landowners, one public officials tour, two presentations for lake groups, two quarterly emails for Lower St. Croix partners, one e-newsletter to lake associations, a successful nomination for AMC-BWSR Conservation Award
 - o Refer to WBIF Work Plan Attachment B – Shared Services Educator Details & Milestones

Grant Activity - Structural Ag BMP Implementation

Description

Lead Agency: Chisago SWCD, Craig Mell

Co-lead Agency: Washington Conservation District, Jay Riggs

Priority areas:

- Tier 1: Rock Lake, Rock Creek, Sunrise River, St. Croix River tributaries with direct discharge to the St. Croix River.
- Tier 2: lakes that drain to St. Croix tributaries:
 - o Rush and Goose Lakes in Chisago County
 - o Forest Lake in CLFLWD (drains to Sunrise River)
- See Detail Work Plan Text for more information on priority areas.

CWMP Reference: Page 61

Activity Description: Provide cost-share/incentives for installing or implementing structural agricultural best management practices (e.g., feedlot improvements, buffers, WASCOBs, diversions, lined waterways, grade stabilization structures, vegetative swales, livestock water management, etc.). The project ranking subcommittee will check BWSR eligibility requirements and consult the BWSR Board Conservationist to ensure projects are eligible. NRCS or other BWSR accepted standards will be followed for all practices installed. For feedlot improvement projects, the subcommittee will complete the BWSR supplemental feedlot worksheet to ensure compliance with BWSR policy for using CWF funds for feedlot improvements. Projects to be chosen through targeting and prioritization process described in Section VII.B and Appendix C of the CWMP.

The target phosphorus load reduction for this Activity is 300 lb/yr. The estimated number of BMPs implemented under this activity is 20, with an average phosphorus reduction of 15 lb/yr per BMP as measured at the target waterbody.

Subcommittee will establish cost-share/incentive rates and policies which will entail:

1. Draft proposed cost-share rates and policies.
2. Send to BWSR for review.
3. Steering Committee approve rates and policies.

See Work Plan Detail in eLINK attachments for more information.

Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	<p>Actual Results -- December 31, 2021 Update:</p> <ul style="list-style-type: none"> Description of work: The A2/4/5 subcommittee (note that this subcommittee encompasses multiple grant activities from structural urban/ag to nonstructural urban/ag) met several times over the course of the period to review potential projects. Outputs achieved: The A2/4/5 subcommittee approved two projects for WBIF funding: McQuade Ravine Stabilization (South Washington Watershed District) and Hinze Cattle Exclusion (Pine SWCD). Outcomes achieved: Implemented two projects using WBIF funds: McQuaid Ravine Stabilization (251 lb/yr phosphorus reduction, 295 tons/yr TSS reduction to St. Croix River) and Hinze Cattle Exclusion (3.48 lb/yr phosphorus reduction, 1.89 tons/yr TSS to Rock Lake). 		

Activity Action - McQuade Ravine Stabilization			
Practice	468 - Lined Waterway or Outlet	Count of Activities	1
Description	Technical Assistance Provider: South Washington Watershed District		
Proposed Size / Units	4.00 AC	Lifespan	25 Years
Actual Size/Units	4.00 AC	Installed Date	30-Sep-21
Mapped Activities	1 Line(s)	Technical Assistance Provider	Other

Final Indicator for McQuade Ravine Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	251
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	St. Croix River		
Final Indicator for McQuade Ravine Stabilization			
Indicator Name	SEDIMENT (TSS)	Value	295
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	St. Croix River		

Activity Action - Hinze Cattle Exclusion			
Practice	472 - Access Control	Count of Activities	1
Description			
Proposed Size / Units	0.60 AC	Lifespan	10 Years
Actual Size/Units	0.60 AC	Installed Date	1-Nov-21
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Hinze Cattle Exclusion			
Indicator Name	SEDIMENT (TSS)	Value	1.89
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Rock Lake		
Final Indicator for Hinze Cattle Exclusion			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.48
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Rock Lake		

Grant Activity - Structural Urban BMP Implementation

<p>Description</p>	<p>Lead Agency: CMSCWD, Mike Isensee</p> <p>Co-lead Agency: Chisago SWCD, Craig Mell (subcontracts with local partners for specific projects)</p> <p>Priority areas: St. Croix River direct drainage, Sunrise River watershed, Fish Lake, Big Carnelian, Big Marine, Forest Lake. Projects may also occur at other priority waters in tables 5-2 and 5-3 in the LSC CWMP.</p> <p>CWMP Reference: Page 65</p> <p>Activity Description: Provide cost-share/incentives for implementing structural urban best management practices (e.g., vegetated swales, pervious pavement, gully stabilization, rain gardens, and other urban practices). BWSR accepted standards will be followed for all practices installed. Projects to be chosen through targeting and prioritization process described in Section VII.B and Appendix C of the CWMP.</p> <p>The target phosphorus load reduction for this Activity is 200 lb/yr. The estimated number of BMPs implemented under this activity is 20, with an average phosphorus reduction of 10 lb/yr per BMP as measured at the target waterbody.</p> <p>Subcommittee will establish cost-share/incentive rates and policies which will entail:</p> <ol style="list-style-type: none"> 1. Draft proposed cost-share rates and policies. 2. Send to BWSR for review. 3. Steering Committee approve rates and policies. <p>See Work Plan Detail in eLINK attachments for more information.</p>	
<p>Category</p>	<p>URBAN STORMWATER MANAGEMENT PRACTICES</p>	
<p>Start Date</p>		<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>No</p>	

Actual Results

Actual Results -- December 31, 2021 Update:

- Description of work: The A2/4/5 subcommittee did not have any structural urban BMPs proposed by partners during this period. Outcomes of the A8 subcommittee's work on Subcatchment Prioritization will bring the LSC Partnership closer to targeting cost-effective urban practices to work toward achieving goals set forth in the CWMP.
- Outputs achieved: See Activity 8.
- Outcomes achieved: No projects implemented yet.

Description

Lead Agency: Washington Conservation District, Jay Riggs

Co-lead Agency: Chisago SWCD, Craig Mell (subcontracts with local partners for each subwatershed project)

Estimated billing rate; hours: \$65/hour; 2,308 hours

Staff Qualifications: This task will be completed by existing qualified staff members of LSC Partner organizations.

Activity Description: This Activity includes two general types of analyses: 1) Subwatershed Assessment (or similar analysis, not necessarily SWA protocols) and 2) Targeted Street Sweeping Analysis.

All requested waterbodies are listed in tables 5.2 and 5.3 Regionally Significant Lakes, Rivers and Streams for Pollutant Reductions (ballpark cost estimate)

- Linwood Lake Anoka County (\$10,000) (priority waterbody: Linwood Lake)
- St. Croix Direct Washington County (\$15,000) (priority waterbody: St. Croix River)
- Desktop Analysis and Prioritized Catchments of the Sunrise River Watershed Chisago (\$10,000) (priority waterbody: Sunrise River)
- Rock Lake Pine and St. Croix Direct Pine County (\$20,000) (priority waterbodies: Rock Lake and St. Croix River)
- Targeting analysis protocol refinements (\$5,000) (applies to all of the waterbodies listed above)

Targeted Street Sweeping Analysis for the following cities with direct discharge to priority waterbodies listed in Table 5-2 and Table 5-3 of the LSC CWMP. Benefitted waterbodies are listed in parentheses. The initial estimate is this task will require approximately \$40,000 for the following communities:

- Rush City (Rush Creek)
- Harris (Goose Creek)
- North Branch (Sunrise River)
- Stacy (Sunrise River)
- Wyoming (Sunrise River)
- Stillwater (St. Croix River, Brown's Creek, Lake McKusick)
- Taylors Falls (St. Croix River)
- Marine on St. Croix (St. Croix River)
- Lakeland (St. Croix River)
- Lake St. Croix Beach (St. Croix River)
- Afton (St. Croix River)
- Bayport (Perro Creek)

	See Work Plan Detail in eLINK attachments for more info.		
Category	PLANNING AND ASSESSMENT		
Start Date		End Date	
Has Rates and Hours?	Yes		
Actual Results	<p>Actual Results -- December 31, 2021 Update:</p> <ul style="list-style-type: none"> • Description of work: The A8 subcommittee established the Targeting Analysis Eligibility Form for inclusion in the Project Request Packet (see Activity 10). It also began work on three initiatives under the Activity 8 category: <ul style="list-style-type: none"> o Enhanced Street Sweeping Study Protocols: establish criteria for partners to perform enhanced street sweeping studies. Such studies will prioritize areas for street sweeping, estimate pollutant reductions to be achieved, and recommend optimal sweeping frequencies. Communities will need to have an approved street sweeping study in order to be eligible for street sweeping incentive payments under Activity 4. o Prioritization and Targeting Protocols: establish criteria for partners to perform prioritization/targeting studies for project identification. Examples of analyses used to target and prioritize projects include a subwatershed analysis (SWA), diagnostic study, feasibility study, etc. These analyses will include spatial and desktop analysis (including historical aerial photo review), water quality modeling or monitoring for pollution reduction analysis, field evaluation, and cost benefit analysis (see CWMP page 19). o Subcatchment Prioritization: perform a desktop analysis to fill data gaps in the LSC basin. This initiative entails conducting GIS evaluations of the Lower St. Croix Watershed to delineate and prioritize contributing subcatchments, and to identify pollutant hot spots. • Outputs achieved: Completed Targeting Analysis Eligibility Form, began work on several targeting initiatives. 		

Grant Activity - Technical/Engineering

<p>Description</p>	<p>Lead Agencies:</p> <ul style="list-style-type: none"> • Chisago SWCD, Craig Mell (lead agency for Activity 2 Structural Ag BMP Implementation and non-structural ag implementation under Activity 4; subcontracts with local partners for specific projects) • CMSCWD, Mike Isensee (lead agency for Activity 5 Structural Urban BMP Implementation and non-structural urban implementation under Activity 4) <p>Estimated billing rate; hours:</p> <ul style="list-style-type: none"> • Professional Engineer: \$76/hour; 132 hours • Technical Assistant: \$65/hour; 462 hours <p>Staff Qualifications: This task will be completed by existing qualified staff members of LSC Partner organizations.</p> <p>Activity Description: This Activity will include technical site assessment, surveys, preliminary analysis and design, final design, construction supervision, installation, inspection, and completion of projects. Funds may be used to contract with a third-party consultant for technical/engineering assistance. Funding allocation will be prioritized in areas where there are not local funds to support design work.</p> <p>See Work Plan Detail in eLINK attachments for more info.</p>
<p>Category</p>	<p>TECHNICAL/ENGINEERING ASSISTANCE</p>
<p>Start Date</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>
<p>Actual Results</p>	<p>Actual Results -- December 31, 2021 Update:</p> <ul style="list-style-type: none"> • Description of work: None to date. • Outputs achieved: None to date.

Grant Activity - Wetland Restoration Implementation

<p>Description</p>	<p>Lead Agency: Anoka SWCD, Becky Wozney (Wetland Specialist)</p> <p>Co-lead Agency: Chisago SWCD, Craig Mell (subcontracts with local partners for specific projects)</p> <p>Priority areas: Priority wetland restorations will result in measurable improvements to rivers/streams in Table 5-2 and/or lakes in Table 5-3 of the LSC CWMP. Areas of particular concern include the St. Croix River direct drainage area, Sunrise River corridor, Rock Creek corridor and subwatersheds identified in Figure 5-5 of the LSC CWMP.</p> <p>CWMP Reference: Page 70</p> <p>Activity Description: This Activity will involve implementation of wetland restoration project(s) as needed to achieve a phosphorus reduction of at least 15 pounds per year for target waterbodies. The primary purpose of the wetland restoration project(s) will be for the improvement of water quality in receiving lakes/streams. Secondary benefits of wetland restoration projects will be considered as well, such as floodplain storage and habitat creation/enhancement.</p> <p>Wetland restorations will not be used to mitigate wetland impacts. Grant funds will not be used for fee title land acquisition (but may be used as match in accordance with WBIF Policy). LSC Partners will ensure proposed wetland restorations are consistent with WBIF eligibility requirements. LSC Partners will target specific restorations through utilization of existing studies and targeting analyses (e.g., drained wetland inventories, diagnostic studies, subwatershed assessments), performance of additional modeling analyses using existing data from said studies, and completion of additional targeting analyses as necessary to fill data gaps. Work pertaining to targeting strategies is included as part of other grant Activities.</p> <p>The target phosphorus load reduction for this Activity is 15 lb/yr. This work plan proposes to implement at least one wetland restoration to achieve the 15 lb/yr phosphorus reduction goal.</p> <p>See Work Plan Detail in eLINK attachments for more info.</p>		
<p>Category</p>	<p>WETLAND RESTORATION/CREATION</p>		
<p>Start Date</p>		<p>End Date</p>	
<p>Has Rates and Hours?</p>	<p>No</p>		

Actual Results

Actual Results -- December 31, 2021 Update:

- Description of work: The A6 subcommittee established the Wetland Restoration Scoring Matrix for inclusion in the Project Request Packet (see Activity 10). The subcommittee did not receive any applications for projects in 2021.
- Outputs achieved: Completed Wetland Restoration Scoring Matrix.
- Outcomes achieved: No projects implemented yet.

Grant Attachments

Document Name	Document Type	Description
2021 Annual Report Detail	Grant	2021 WBIF - Lower St. Croix Watershed Partners
2021 Watershed Based Implementation Funding	Grant Agreement	2021 Watershed Implementation Funding - Chisago SWCD
2021 Watershed Based Implementation Funding EXECUTED	Grant Agreement	2021 Watershed Implementation Funding - Chisago SWCD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/31/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/30/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/27/2021
Application	Workflow Generated	Workflow Generated - Application - 02/24/2021
BC Workplan Comments 2021-03-24	Journal	Journal Dated - 03/24/2021
C21-4732 LSC WBIF Work Plan Text_eLINK_1-21-22_redline	Grant	2021 WBIF - Lower St. Croix Watershed Partners
C21-4732 LSC WBIF_workplan revision request_1.25.2022	Journal	Journal Dated - 01/25/2022
Detailed Work Plan Text	Grant	2021 WBIF - Lower St. Croix Watershed Partners
Detailed Work Plan Text 3/26	Grant	2021 WBIF - Lower St. Croix Watershed Partners
Detailed Work Plan Text 4/1	Grant	2021 WBIF - Lower St. Croix Watershed Partners
Implementation Framework_PC Approved	Grant	2021 WBIF - Lower St. Croix Watershed Partners
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/01/2021
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/24/2021
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/26/2021
Work Plan Detail_Revised Redline	Grant	2021 WBIF - Lower St. Croix Watershed Partners