## Lower St. Croix Partnership Annual Plan of Work (based on LSC CWMP Table 5-1)

				From CW	MP		2-year ouputs and	d costs divided b	y 2				2021 Yearend Progress R	eporting		
# Activity Part A. Implementation Action	Priority Location	Measurable Output	Implementation Actions	Years 1-2 Outputs	Years 1-2 Estimated Cost	Fiscal Year 1 (Jul '21-Jun '22) Outputs	Fiscal Year 1 (Jul '21-Jun '22) Estimated Cost	Fiscal Year 2 (Jul '22-Jun '23) Outputs	Fiscal Year 2 (Jul '22-Jun '23) Estimated Cost	Responsible	Funding Sources	WD, WMO, SWCD, County LID, or Multiple	; Year 1 (2021) Description of Outputs Accomplished		(2021) Spent	Year 1 (2021) Phosphorus Removal
1 *GW Quality (Table 3-1 GW1A, 2B)	Basin Wide Priority - Agricultural lands where:  1) DWSMA vulnerability is moderate, high, or very high; or  2) Pollution sensitivity to wells is high or very high; or  3) Pollution sensitivity to near surface materials is karst or high; or  4) Well testing show ≥ 5 mg/L nitrate  See Figure 5-1	Install BMPs on 2,200 acres that improve soil health and/or reduce nitrogen and pesticide pollution to groundwater		300 ac	[see Table 5-1 Impl. Actions]	. 150 ac		150 ac		Chisago SWCD	FY21 WBIF (Activity 4), other Partner local funds, state/federal grants	WD	CLFLWD: 30 acres of cropland conversion to perennial (34 lb/yr P reduction to Bone Lake)  CMSCWD/WCD/Land Trust 14.0 acres cropland to prairie and savanah 19.4 lb/y P reducation to Silver Creek.	\$59,000	\$5,000 \$54,000	34 lb/yr phosphorus 19.4 lb/yr phosphorus
*Rivers & Streams + St. Croix River WQ (Table 3-1 R&S 1A; STC 1B, C)	Regionally Significant Rivers and Streams:  - All streams and tributaries in Sunrise River Watershed (whole watershed regardless of direct drainage)  - Direct drainage areas to St. Croix River through Rock, Rush, Goose, Lawrence, and Browns Creeks and Trout Brook and other small streams shown in Figure 5-2  See Table 5-2 for streams and total phosphorus reduction goals; see Figure 5-2	Reduce total phosphorus by 3,300 lbs/year (install approximately 220 BMPs @ estimated 15 lbs/BMP) and reduce TSS, bacteria, and nitrogen as secondary benefit		450 lbs TP (approx. 30 BMPs)	[see Table 5-1			225 lbs TP (approx 15 BMPs)		Chisago SWCD for WBIF projects see specific entity for non-WBIF projects		SWCD SWCD SWCD Multiple Multiple Multiple WD County WD LID SWCD	Washington County: 18 acres cropland to prairie at St. Croix Bluffs Regional Park  ISWCD: Cover Crops (N. Branch Sunrsie River (140 acres)= 6.6 lbs/yr.  CSWCD: Direct Drainage 12 structural BMPs = 836 lbs/yr. Cover Crops (Sunrise River and Direct Drainage) 157 acres, 7.5 lbs/yr.  WCD: buffer restoration (St. Croix direct drainage, Marine); St. Croix River shoreline stabilization = 37.4lb/yr P + 88,000 lb TSS  ACD & SRWMO: Martin Lake Shores Stormwater Pond Enhancement Project 1.09lb/yr P + 436lb/yr TSS.  ACD & SRWMO: Arvold Martin Lakeshore stabilization 2.8lb/yr TP + 5,625lb/yr TS5;  ACD & SRWMO: Ferden Martin Lakeshore stabilization 0.48lb/yr TP + 600lb/yr TSS.  CLFLWD: Bone Lake Southeast/Meadowbrook Wetland Restoration (Sunrise River watershed) = 35 lb/yr P.  Washington County: 18 acres cropland to prairie at St. Croix Bluffs Regional Park = 21lb/yr TP to St. Croix River  CMSCWD: Marine on St. Croix Town Center Stormwater Retrofits. St. Croix River 16.7 lbs./yr TP and 15,010 lbs/yr TSS  CLLID: The CLLID provides match funds to encourage environmentally sound land use practices for urban and agricultural areas to protect water quality within the Chisago Lakes Chain of Lakes Watershed  BCWD: Brown's Creek Diversion Tributary restoration benefits Brown's Creek, McKusick Lake, and the St. Croix. Installed 22 rock vanes along 5200 linear feet of stream. Reduced TP 52 lbs/year, TSS 48 tons/year. All funding from BCWD: Partnership effort with NRCS to install WASCBs and a grassed waterway on two seperate properties. EQIP paid for a portion of the installation. Pine SWCD secured funding through Wild Rivers Conservancy to cover the rest. 222.48lbs/yr P, 184lbs/yr TSS	\$897,712		6.6 lb/yr phosphorus  843.5 lb/yr phosphorus  37.4 lb/yr phosphorus  1.09 lb/yr phosphorus  2.8 lb/yr phosphorus  35 lb/yr phosphorus  21 lb/yr phosphorus  16.7 lb/yr phosphorus  52 lb/yr phosphorus  48 lb/yr phosphorus
3 *Lake WQ from ag (Table 3-1 LK1A, 2A)  4 GW Quantity (Table 3-1 GW2A)	Table 5-3 for lakes and total phosphorus reduction goals; see <b>Figure 5-3</b> for map  All agricultural irrigators; highest priority given to highest consumers [For context: Active water use	2018: 100 agricultural irrigators; 157 Water Supply Wells; 37 Non-crop irrigators. Total = 294.		150 lbs TP (approx.300 ac and/or 10 BMPs)	see Table 5-1 Impl. Actions [see Table 5-2 Impl. Actions	(approx 150 a and/or 5 BMPs)	С	75 lbs TP (approx 150 ac and/or 5 BMPs)		Chisago SWCD for WBIF projects see specific entity for non-WBIF projects SWCD/WMO/WE /CLLID	Partner local funds,	SWCD	CSWCD: Rush Lake: 1 structural BMP: 2.6 lbs/yr			2.6 lb/yr phosphorus
5 River & Stream Flows (Tab 3-1 R&S 3A) 6 Drainage impacts on	Basin wide  All public and private ditches	100 of those used >1MG in 2018.] Identify and map 100% of private ditches as part of developing Conservation Plans  Review 100% of drainage projects for		Maps created during all applicable landowner interaction	Impl. Actions			Maps created during all applicable landowner interactions All active and		SWCD/WMO/WE /CLLID	funds, state/federal grants	County	Chisago County: As a result of the new buffer requirements, 2021 also saw a	\$27,700	\$27,700	
wetlands (Table 3-1 WTL 1		possible impacts to wetland quality		All active and proposed projects reviewed	isee Iable 5			All active and procosed projects reviewed		/CLUD	francis funds, state/federal grants	county	unisage County: As a result of the new Ourier requirements, 2021 also saw a busy ditch inspection year. The Wetland Specialist continues to oversee the maintenance of County public and private ditch and drainage system for functionality and adherence to the drainage code and the WCA drainage standards.  Chisago County: 2021 saw a further increase to Wetland Conservation Act (WCA) applications, particularly in the arena of wetland delineation reviews. The Wetland Specialist saw to 12 alleged wetland violations, five actual violations and resolved one restoration orders in 2021. The wetland specialist evaluated several pond applications which all required site visits and subsequent wetland permits. The wetland specialist issues and monitors the shoreland grade and fill permits, in 2020 there were 11 applications of which three were denied. The position is also responsible for commenting on the DNR public water permits if necessary, of which there were several related grade and fill permits.		\$21,10U	

				From CW	MP	2-	year ouputs and	d costs divided by	/ 2				2021 Yearend Progress F	Reporting		
# Activity	Priority Location	Measurable Output	Implementation Actions	Years 1-2 Outputs	Years 1-2 Estimated Cost	Fiscal Year 1 (Jul '21-Jun '22) Outputs	Fiscal Year 1 (Jul '21-Jun '22) Estimated Cost	Fiscal Year 2 (Jul '22-Jun '23) Outputs	Fiscal Year 2 (Jul '22-Jun '23) Estimated Cost	Fiscal Agent/ Responsible Party	Funding Sources	WD, WMO, SWCD, County LID, or Multiple	, Year 1 (2021) Description of Outputs Accomplished	Year 1 Dollars		Year 1 (2021) Phosphorus Removal
7 Drainage impact on rivers 8 streams (Table 3-1 R&S 1C)	l Judicial and public ditches	Maintain or improve downstream water quality following ditch maintenance		No negative change in downstream water quality	[see Table 5-: Impl. Actions	1 No negative change in downstream water quality		No negative change in downstream water quality		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants					
GW quality from contaminants	Priority areas: Where pollution sensitivity to near surface materials is high, or in karst areas, or where	Upgrade 100 non-conforming or non- compliant SSTS to properly functioning,								SWCD/WMO/WD /CLLID	Partner local funds,	SWCD	ACD: 1 SSTS replaced. 7lbs/yr TP, 20lb/yr N		\$10,724	7 lb/yr phosphorus
(Table 3-1 GW1B)	bedrock is at or near the surface; see Figure 1-3 for map Secondary priority: Basin wide	compliant systems. [For context: Estimated 4,202 SSTS basin wide failing to protect GW. Source: SSTS Annual Report									state/federal grants	County	Chisago County: Completed 268 compliance inspections, of which 232 were compliant and 36 were noncompliant. 67 new septic and 78 replacements were installed.	\$405,584	\$18,600	
		2018 (MPCA, Aug 2019) Number of SSTS per county * % of county in LSC * estimated 15% of SSTS failing to protect groundwater statewide]										County	Washington County: Completed 509 compliance inspections, of which 338 were compliant, and 171 were noncompliant. 106 new septic and 198 replacements were installed. 5 grants were issued for the STSS Program. 14 STSS loans were also issued.		\$376,260	
Lake impacts from SSTS (Table 3-1 LK 1C)	Basin wide: Shorelands adjacent to nutrient impaired lakes Chisago Co:	Basin wide: Decrease non-compliant and non-conforming SSTS in shorelands adjacent to nutrient impaired lakes		20 systems	[see Table 5-1 Impl. Actions]	10 systems		10 systems		SWCD/WMO/WD /CLLID	Partner local funds, state/federal	County	Chisago County: Completed 268 compliance inspections, of which 232 were compliant and 36 were noncompliant. 67 new septic and 78 replacements were installed.		\$18,600	
	Countywide	Chisago Co: Decrease non-compliant and non-conforming SSTS in all areas by 50% and in shorelands adjacent to nutrient impaired lakes by 80%									grants	County	Washington County: Completed 509 compliance inspections, of which 338 were compliant, and 171 were noncompliant. 106 new septic and 198 replacements were installed. 5 grants were issued for the STSS Program. 14 STSS loans were also issued.	\$394,860	\$376,260	
0 GW quality from contaminants (Table 3-1 GW1B)	Basin wide	Properly seal or floodproof 100% of known or discovered abandoned wells or wells at risk of flooding		100% of known and discovered abandoned wells are sealed		1 100% of known ] and discovered abandoned wells are		100% of known and discovered abandoned wells are		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants		Washington: 13 wells have been sealed.	\$6,755	\$6,755	
UBTOTAL: Part A. Implementa	tion Actions for Agricultural Lands (Part A does not assignment)	gn dollar amounts to numbered line items)			\$2,072,80		\$1,036,400		\$1,036,400					\$1,791,611		1127.57 lb/yr phosphorus
art B. Implementation for Dev 1 *GW recharge & infiltration	eloped and Developing Lands  Basin wide	Implement Minimal Impact Design			[see Table 5-:	1				Chisago SWCD	FY21 WBIF	Multiple	This effort was delayed until 2023 in order to on board the new educator.			
	[Estimated 40 communities in basin without MIDS or	Implement Minimal Impact Design Standards or more restrictive in 20 communities; including climate resiliency provisions or standards			Impl. Actions	1				Cnisago SwCu for WBIF projects, see specific entity for non-WBIF projects		Multiple	In serior was caleyaed until 2023 in order to on board the new educator. Additional Notes:  -VBWD adopted MIDS in 2013.  -MSCWMO adopted MIDS in 2014 and worked with all 10 communities to update local ordinances.  -BCWD adopted a version of MIDS for a portion of the watershed.  -CLFLWD have rules more restrictive than MIDS in place (overlaps 5 communities).  - CMSCWD have rules more restrictive (and more complicated) than MIDS in place (overlaps 4 communities); but community ordinances still do not align with Watershed District rules, causing confusion and frustration for single famility residential applicants.			
2 *GW recharge & stream flow (Table 3-1 GW 2B, R&S 3A)	In critical groundwater recharge areas as identified in existing or future maps or studies	Retrofit 20 existing developments with infiltration, recharge and reuse projects		4 projects	[see Table 5-: Impl. Actions			2 projects		Chisago SWCD for WBIF projects, see specific entity for non-WBIF projects	FY21 WBIF (Activity 5) Partner local funds,			\$360,100	\$360,100 Clean Water grant	
3 St. Croix River flows (Table 3-1 STC 3A)	Direct catchments to the St. Croix River and Lake St. Croix	Evaluate and update small storm volume control and large storm rate control ordinances in 4 communities			[see Table 5-: Impl. Actions	1					state/federal				grunt	
4 *St. Croix River + Rivers & streams WQ (Table 3-1 STC 1B; R&S 1A)	All streams and tributaries in Sunrise River Watershed (whole watershed regardless of direct drainage)	Reduce TP by 100 lbs. (approximately 100 BMPs) and reduce TSS, bacteria, and nitrogen as secondary benefit [Assume 1 lb/BMP; typical reduction for raingarden or similar BMP]		20 lbs TP (approx. 20 BMPs)	[see Table 5-1 lmpl. Actions]			10 lbs TP (approx. 10 BMPs)		Chisago SWCD for WBIF projects, see specific entity for non-WBIF projects	FY21 WBIF (Activity 5)	SWCD  Multiple  WD	WCD: bluff stabilization St. Croix River - Lake St. Croix Beach = 34lb TP + 12,000 lb TSS; 2x urban native plantings in Stillwater = 0.3lb TP + 40lb TSS  ACD & SRWMO: See projects reported for activity 2 - the BMPs are in lakes that flow into the Sunrise River and unclear if it should be reported at a lake or stream benefit, or both?  BCWD Oak Glen reuse project = 78lb/yr TP to Brown's Creek and St. Croix River  CMSCWD: Marine on St. Croix Town Center Stormwater Retrofits. St. Croix River 16.7 lbs./yr TP and 15,010 lbs/yr TSS. CMSCWD = \$400,000 319 grant	\$752,555	\$350,000 \$2,555 \$400,000	0.3 lb/yr phosphorus  78 lb/yr phosphorus  16.7 lb/yr phosphorus
5 *Lake WQ (Table 3-1 LK 1B)	Regionally Significant Lakes for Urban BMPs See Table 5-3 for lakes and total phosphorus reduction goals; See <b>Figure 5-3</b>	Reduce TP by 100 lbs. (approximately 100 BMPs) and reduce TSS, bacteria, and nitrogen as secondary benefit [Assume 1 lb/BMP; typical reduction for raingarden or similar BMP]		20 lbs TP (approx. 20 BMPs)	[see Table 5- Impl. Actions	1 10 lbs TP ] (approx. 10 BMPs)		10 lbs TP (approx. 10 BMPs)		Chisago SWCD for WBIF projects, see specific entity for non-WBIF projects	FY21 WBIF (Activity 5) Partner local funds, state/federal grants	LID	and local funding  CLLID: Please see note under #2	\$338,000	\$85000	
6 St. Croix River chlorides (Table 3-1 STC 1D)	Basin wide	75% of all cities have staff certified in MPCA's Level 1 and Level 2 Smart Salting Training		Total of 15% of cities	[see Table 5-: Impl. Actions	1 Total of 7.5% ] of cities		Total of 7.5% of cities		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants		Cities with certified staff include: Stillwater, Cottage Grove, Woodbury, Forest Lake, Linwood Township, East Bethel, Columbus, Ham Lake	\$1,000	\$1,000	
7 GW quantity (Table 3-1 GW 2A)	All irrigators; highest priority given to highest consumers and communities with highest residential usage	Install or retrofit smart technology on 40 irrigation systems			[see Table 5-: Impl. Actions					SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants		Cities in Washington County report distributing a total of 3887 SMART irrigation controllers to community residents			

				From CWI	MP	2-	-year ouputs and	d costs divided b	oy 2				2021 Yearend Progress	Reporting		
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3-1 GW 1B)	Basin wide - all currently unlicensed facilities and generators	License 100% of hazardous waste generators		Figures depend on number of generators identified		on number of generators identified		Figures depend on number of generators identified		SWCD/WMO/WD /CLLID	funds, state/federal grants	County	Chisago County: MPCA licenses all hazardous waste generators located in the county.			
	Priority areas: Where pollution sensitivity to near surface materials is high, or in karst areas, or where bedrock is at or near the surface Secondary priority: Basin wide	Upgrade non-conforming or non-compliant SSTS to properly functioning, compliant systems. [See Line 8 of this table for context.]		[Covered under Table 5-1, Part A #8]	[see Table 5-1 Impl. Actions]	under Table 5-1, Part A #8]		[Covered under Table 5-1, Part A #8]		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	Multiple	ACD: see line 8 Chisago County: Please see # 8.			
(Table 3-1 LK 1C)	Basin wide: Shorelands adjacent to nutrient impaired lakes Chisago Co: Countywide	Basin wide: Decrease non-compliant and non-conforming SSTS in shorelands adjacent to nutrient impaired lakes Chisago Co: Decrease non-compliant and non-conforming SSTS in all areas by 50% and in shorelands adjacent to nutrient impaired lakes by 80% [See Line 10 of this table for context.]		[Covered under Table 5-1, Part A #9]	[see Table 5-1 Impl. Actions]			[Covered under Table 5-1, Part A #9]		SWCD/WMO/WE /CLLID	Partner local funds, state/federal grants	County	Washington & Chisago County: Please see # 9.			
	Regionally Significant Lakes for Protection and Sustainable Development: Table 5-3 and Figure 5-3	Install 100 shoreline restoration projects [100% of lakeshore owners with altered shorelines are provided information on restoration programs]		20 projects	[see Table 5-1 Impl. Actions]	10 projects		10 projects		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	SWCD	CSWCD: 5 shoreline restorations	\$30,000		
												Multiple	ACD/SRWMO: 4 shoreline restos			
												WD	CMSCWD: 100' bioreningeered shoreline restoration on Big Marine Lake CLLID: Provides match to provide technical and educational information to			
												LID	interested landowners and local units of government to implement urban			
												LID	and shoreland BMPs.  CLLID: Provides match to develop and implement a cost share program to			
22 *Protect wetlands (Table	Basin wide during land use change or alteration,	Increase by 5 the number of LGUs with		1 LGU	[see Table 5-1			1 LGU		Chisago SWCD	FY21 WBIF	Multiple	assist landowners to implement urban and shoreland BMPs.  ACD/SRWMO: Columbus updated wetland protections in ordinances.			
	development or redevelopment	adopted wetland protections including buffer requirements and setbacks for permanent structures			Impl. Actions]					for WBIF projects see specific entity for non-WBIF projects	(Activity 3)  Partner local funds, state/federal grants					
23 Maintain & restore habitat (Table 3-1 UP 1F)	Land with priority habitats and corridor connections	10% of land in new developments is dedicated to wildlife habitat [significant new areas of land conversion from vacant or rural land to residential, commercial/industrial, institutional, or transportation]		10% of land in new dev.	[see Table 5-1 Impl. Actions]	10% of land in new dev.		10% of land in new dev.		SWCD/WMO/WD /CLLID	-					
24 Sensitive lake protection (Table 3-1 LK 2A)	Regionally Significant Lakes for Protection and Sustainable Development: Table 5-3 and Figure 5-3	Implement sustainable development and land preservation programs in lakesheds of priority lakes through 10 easements or acquisitions		2 easements or acquisitions	[see Table 5-1 Impl. Actions]	1 easement or acquisition		1 easement or acquisition		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants					
25 Landlocked basin impact on River (Table 3-1 STC 1B, 3A, 4C)	Eutrophic natural landlocked basins to be discharged to St. Croix River	Perform analysis and implement measures to meet state standards for nutrients on 3 waterbodies		2 basins	[see Table 5-1 Impl. Actions]	1 basin		1 basin		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	WD	VBWD performed anlyses on Goose Lake in city of Lake Elmo in 2021.	\$37,000	\$37,000	
SUBTOTAL: Part B. Implementati	ion for Developed and Developing Lands (Part B does r	ot assign dollar amounts to numbered line	items)		\$2,041,600		\$1,020,800		\$1,020,800					\$1,518,655	;	95 Ib/y
Part C. Implementation for Ecosy	ystem Services															phosphoru
	St. Croix River and Lake St. Croix direct drainage tributaries	Reduce TP loading and TSS loading by 425 lbs and 1,085 tons, respectively. Implement 5 stream restoration projects to restore and improve stream corridors, instream habitat, and riparian area stability [Average TP reduction/restoration = 85 lbs; Average TSS reduction/restoration = 217 tons]		1 stream resto project	[see Table 5-1 Impl. Actions]			1 stream resto project		SWCD/WMO/WE /CLLID	Partner local funds, state/federal grants	WD	CMSCWD: Marine on St. Croix Town Center Stormwater Retrofits. St. Croix River 16.7 lbs./yr TP and 15,010 lbs/yr TSS	\$400,000	CMSCWD = \$400,000 319 grant and local funding	16.7 llb/yr phosphorus
27 Trout populations (Table 3-1 R&S 1B)	Trout streams (Brown's Creek, Valley Creek, Lawrence Creek, Trout Brook, Willow Brooke, Mill Stream, Falls Creek, Gilbertsons's Creek)	Trout populations maintained through stream restorations, BMP installations, and enforcement of development standards			[see Table 5-1 Impl. Actions]					SWCD/WMO/WE /CLLID	Partner local funds, state/federal grants	WD	VBWD: Yes. BCWD: Oak Glen stormwater reuse project (see above) CMSCWD: Yes- I think. We do not actually measure trout populations.			
WTL 2A, 2B)	In highest priority catchments (red, yellow and green areas) within BWSR's Compensation Planning Framework priority catchments in the Lower St. Croix River Watershed (Figure 5-5)     In locations where studies or mapping tools find that restoration will have significant positive impact on natural resources.	Create or restore 1,000 acres of historic wetlands lost to land use changes		200 acres created or restored	[see Table 5-1 Impl. Actions]			100 acres created or restored		Chisago SWCD for WBIF projects see specific entity for non-WBIF projects		WD	CLFLWD: Restored 6 acres of wetlands - Bone Lake Southeast/Meadowbrook Wetland Restoration (cost included in line #2)			
29 Wetland loss (Table 3-1 WTL	Judicial and public ditches	Mitigate loss of wetland acres resulting		No net wetland loss		No net wetland		No net wetland	i	SWCD/WMO/WD /CLLID						
4A,	I	from ditch maintenance activities	İ	1	Impl. Actions]	1055	1	11055		I/CLLID	funds,		II	1	1	1

				From CW	МР	2	2-year ouputs and	d costs divided b	y 2				2021 Yearend Progress	Reporting		
# Activity	Priority Location	Measurable Output	Implementation Actions	Years 1-2 Outputs	Years 1-2 Estimated Cost	Fiscal Year 1 (Jul '21-Jun '22) Outputs	Fiscal Year 1 (Jul '21-Jun '22) Estimated Cost	Fiscal Year 2 (Jul '22-Jun '23) Outputs	Fiscal Year 2 (Jul '22-Jun '23) Estimated Cost	Fiscal Agent/ Responsible Party	Funding Sources	WD, WMO, SWCD, County LID, or Multiple	, Year 1 (2021) Description of Outputs Accomplished		. (2021) s Spent	Year 1 (2021) Phosphorus Removal
30 Wetland quantity (Table 3-1 WTL 2B)		Create and maintain 2 new BWSR and USACE approved wetland banks within the basin		1 new wetland bank	[see Table 5-1 Impl. Actions]			1 new wetland bank		SWCD/WMO/WD /CLLID	funds, state/federal grants					
	High traffic boat launches on St. Croix River and Lake St. Croix	Increase watercraft inspection hours by 25%		Increase hours by 5%	[see Table 5-1 Impl. Actions]	Increase hours by 2.5%	i	Increase hours by 2.5%		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	County	- Chisago County: St. Croix River = 35 increase in total watercraft inspection and decontamination hours from 2020 - 2021 in Chisago County (127.5 total hours in 2020 to 162.5 total hours in 2021 - a 27.4% increase). Countywide = 1,306.75 increase in total watercraft inspection and decontamination hours from 2020 - 2021 in Chisago and Northern Washington Counties (3,694.50 total hours in 2020 to 5,001.25 total hours in 2021 - a 35.4% increase).		\$76,000	
												County	Washington County - 657 increase in hours of Level 1 inspection hours for the entire program. Note that CLFLWD performs their own inspection program and is not reflected in this total. Also note that hours are spent outside the LSC basin. (2020 3,381 hours total - 2021 hours total 4,038 - 16% increase).	\$237,326	\$113,615	
												WD	CLFLWD partners with Chisago County to implement a watercraft inspection program and also hires its own inspectors to perform even more inspection hours. CLFLWD-hired inspection hours (Bone/Comfort/Forest - all three accesses): 2020 = 2,911 hours; 2021 = 2,107 hours (28% decrease due to hiring difficulties, but still met CLFLWD goals overall)		\$47,711	
32 AIS (Table 3-1 LK 2C; STC 2A; R&S 2B)	Within 15 miles of all public boat launches on zebra mussel infested lakes and rivers	Provide AIS decontamination station		2 new decon stations	[see Table 5-1 Impl. Actions]			1 new decon station		SWCD/WMO/WD /CLLID	funds, state/federal grants	Multiple	CLFLWD: Partnered with Chisago County to provide rotating mobile decontamination station at Forest 1, Forest 3, Comfort and Bone accesses. Chisago County: Completed 64 decontaminations at 10 public water accesses located in Chisago and Northern Washington Counties (Bone, Chisago/South Lindstrom, Comfort, N/S Center, Forest E/W, Green, and E/W Rush Lakes).	\$16,000	\$16,000	
33 AIS signs (Table 3-1 LK 2C; STC 2A; R&S 2B)	Basin wide	Install AIS informational signage at 20 boat launches and marinas		4 new launches w/ signage	[see Table 5-1 Impl. Actions]	. 2 new launche: w/ signage	s	2 new launches w/ signage		swcd/wmo/wd /CLLID	funds, state/federal grants	Multiple	CLFLWD: Installed bait disposal signage at 5 accesses (Forest 1-3, Bone, Comfort). Last general AIS signage upgrade was in 2019. Chisago County: Received 6 bait disposal bins from CLFLWD and installed at Chisago/South Lindstrom, N/S Center, Green, and E/W Rush Lakes public water accesses.	\$4,000	\$4,000	
34 AIS in Lakes (Table 3-1 LK 2C)	Lakes in Chisago Co. and Isanti Co. with public access	Develop 1 comprehensive AIS rapid response plan for lakes		1 comprehensive AIS rapid response plan developed	[see Table 5-1 Impl. Actions]			1 comp. AIS rapid response plan developed		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants					
35 Phragmites (Table 3-1 WTL 1C)	In order of priority  1. Chisago Lakes LID  2. Carlos Avery WMA  3. Elsewhere in Chisago Co and Isanti Co  4. Headwaters of North Branch & West Branch Sunrise River	Reduce the size and number of invasive phragmites locations as reported on EddMaps by 50% or 45 infestation areas. Stabilize and eradicate those small infestations less than 1,000 – 2,000 sq. ft. through rapid response plans, where available		Reduce by 9 infestations	[see Table 5-1 Impl. Actions]	Reduce by 4 infestations		Reduce by 5 infestations		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	Multiple	CLIID partnered with area lake associations and the University of Minnesota to control invasive phragmites along lakeshores and in roadside right-of-ways. 68 locations were treated in 2021. The CLIID provided funding to loca lake associations to treat for aquatic invasive plants including curlyleaf pondweed, Eurasian water milfoil and invasive phragmites. Control efforts will continue in 2022.  Chisago County: Partnered with Wild Rivers Conservancy to conduct roadside surveys in N/S Chisago Lake, Franconia and Lent Townships and Harris to identify and map invasive phragmites populations. Partnered with U of M to treat 40 locations along roadsides and private property in Chisago County.		17000 \$2,000	
36 Lake levels (Table 3-1 LK 3A)	Chisago Co. Lakes = Chisago Lakes Chain of Lakes (Chisago, South Lindstrom, North Lindstrom, Green, Little Green, North Center, South Center), Fish, Horseshoe, Little Horseshoe, Sunrise	Develop resiliency plans or responses, such as a Slow-No-Wake Ordinance or Channel and Weir Operations and Maintenance Plans, to address vulnerable properties		Review and modify existing plans	[see Table 5-1 Impl. Actions]	Review and modify existing plans	3	Review and modify existing plans		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	Multiple	Chisago County: Staff and volunteers monitor 4 lake level gauges to determine implementation of countywide Slow-No-Wake Ordinance. (Fish, Horseshoe, Goose and Rush Lakes, along with 15 gauges located in the CLLID).  CLLID reviewed the 2016 Channel & Weir Operation & Maintenance Plan. No changes will be made to the plan. An appendix will be added to the plan summarizing a review of the operational procedures for the Lofton weir. The			
37 Internal loading (Table 3-1 LK 1D)	In lakes where internal loading is estimated to be a significant contributor to degraded water quality and where not addressing the internal loading would result in sustained degradation (See Internal Loading Lakes Table 5-4)				[see Table 5-1 Impl. Actions]					SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	WD	alan will be submitted to the DNR for renowal in 2022 82-135 Echo Lake in VBWD is being de-listed.			
38 *Shoreland (Table 3-1 UP 1A, R&S 2A, LK 2B)	Basin wide	Increase the number of LGUs (including counties) by 2 that adopt innovative shoreland standards			[see Table 5-1 Impl. Actions]	-				Chisago SWCD	FY21 WBIF (Activity 3)					
1C, 1D)	Private lands in priority corridors and critical habitat areas and large-scale developments with land-use change	Increase in the number of diverse landscape designs and plantings resilient to climate change		4 designs	[see Table 5-1 Impl. Actions]			2 designs		SWCD/WMO/WD /CLLID	funds, state/federal grants					
40 Land protection (Table 3-1 UP 1B; R&S 2A; LK 2A)	First priority: Areas near already protected lands (public or private), tributaries near impaired waters, areas where known endangered species are present and identified biologically significant natural areas as identified by MLCCS mapping Second priority: Basin wide	At least 1,000 acres protected through acquisition and easements.		200 acres protected	[see Table 5-1 Impl. Actions]			100 acres protected		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	State	VBWD: 4.1 acres purchased and kept in permanent conservation easement is 2021  DNR: 60 acres added to William O'Brien State Park	- \$324,800		
												County	Washington County: 53 acre conservation easement on Silver Creek near Fairy Falls (NPS) in CMSCWD Chisago County: 40 acres purchased and added to Checkerboard County Park. Closing date is April 15, 2022. Purchased through DNR Natural and Scenic grant (\$44,800 total cost).			

				From CWN	MP	2-yea	ar ouputs and	l costs divided b	y 2				2021 Yearend Progress I	Reporting		
# Activity	Priority Location	Measurable Output	Implementation Actions	Years 1-2 Outputs	Estimated (J	scal Year 1 Jul '21-Jun (	iscal Year 1 (Jul '21-Jun 2) Estimated Cost	Fiscal Year 2 (Jul '22-Jun '23) Outputs	Fiscal Year 2 (Jul '22-Jun '23) Estimated Cost	Fiscal Agent/ Responsible Party	Funding Sources	WD, WMO, SWCD, County, LID, or Multiple	Year 1 (2021) Description of Outputs Accomplished	Year 1 Dollars		Year 1 (2021) Phosphorus Removal
41 Land protection (Table 3-1 UP 1C, LK 1B)	First priority: Areas where upland habitat is fractured and shoreline areas where there is high to moderate development or land under future development pressure Second priority: Basin wide			4 new plans	[see Table 5-1 2 ne Impl. Actions]	ew plans		2 new plans		SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	County	Washington County: 53 acre conservation easement on Silver Creek near Fairy Falls (NPS) in CMSCWD			
UP 2C)	Basin wide based on prioritized mapping including MLCCS maps and other critical habitat mapping	1,000 new acres managed for better habitat, or as recommended in Landscape Stewardship Plans		200 new acres managed	[see Table 5-1 100 Impl. Actions] mar			100 new acres managed		SWCD/WMO/WD /CLLID	funds, state/federal grants	County	Washington County: 14 acre prairie and savannah restoration on Silver Creek near Fairy Falls (INPS) in CMSCWD  Washington County: 166 acres prairie and oak savanna restoration in Lake Elmo Park Reserve	\$473,000	\$43,000 CMSCWD, WCD, Land Trust funds \$430K - Outdoor Heritage grant at all WashCo Parks	
43 Protected lands (Table 3-1 UP 2B)	Areas located along bluffland or adjacent to publicly owned forest land such as state parks and trails	Increase acres under private Forest Management Plans or Woodland Stewardship Plans by 20% [23 plans over 10 years]		4 new plans developed	[see Table 5-1 Impl. Actions]					SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	SWCD	PSWCD: 2 Woodland Stewardship Plans written in Rock Creek Watershed. Total acreage under both plans are 254 acres.			
SUBTOTAL: Part C. Implementa	ation for Ecosystem Services (Part C does not assign dolla	ar amounts to numbered line items)			\$1,907,000		\$953,500		\$953,500					\$1,474,126		16.7 lb/yr phosphorus
Part D. Implementation for Pri 44 *STC 1A	ioritization and Analysis: Issues, Goals, Actions, Measura Basin wide	ble Outputs, and Priority Locations Evaluate the water quality metrics, set reporting standards, report on goal progress for the St. Croix River	Identify, appoint, and empower entity or person to lead/evaluate the water quality metrics, set reporting standards, report on goal progress.		\$50,000		\$25,000			Chisago SWCD for WBIF projects, see specific entity for non-WBIF projects	Partner local funds, state/federal					
45 GW 3A	Order of Priority: 1) Surrounding known contamination sites where data are lacking 2) DWSMAs 3) Townships without nitrate testing 4) Basin wide	Pollution sources (including mines), areas around chemical contamination sites, vulnerable areas, and surface water-GW interactions are studied and mapped	Work with State agencies and Metropolitan Council to study and map pollution sources (including mines), areas around chemical contamination sites, vulnerable areas, and surface water-GW interactions		\$0		\$0		\$0	SWCD/WMO/WD /CLUD	grants Partner local funds, state/federal grants					
46 GW 3A	Basin wide	100% of recharge areas and groundwatersheds of GW dependent natural resources are mapped	Support agencies such as DNR and Met Council in mapping recharge areas and groundwatersheds of GW dependent natural resources		\$0		\$0		\$0	SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants					
47 GW 3A	Basin wide where needed	Complete at least one county groundwater plan	Build on existing GRAPS to develop groundwater plans that lay out technical framework, issues, policies and implementation actions for the protection and conservation of groundwater resources.		\$0		\$0		\$0	SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants					
48 GW 3A	Maintain basin wide; expand in Isanti and Pine Co. 1) DWSMAs 2) Groundwatersheds of GW-dependent natural resources	Maintain existing or increase number of new observation wells	Work with MnDNR to maintain and expand observation well program	1	\$83,730		\$41,865		\$41,865	SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	LID	CLLID - 4 ground water monitoring wells are located in the CLLID. These wells are monitored to ensure that substantial drawdown of the aquafers does not occur which may affect drinking water wells.			
49 *LK 1D	Regionally Significant Lakes for Internal Loading Analyses Table 5-4	Calculate internal loading of phosphorus	Calculate internal loading of phosphorus on 15 lakes @ \$25,000 each		\$75,000		\$37,500		\$37,500	Chisago SWCD for WBIF projects, see specific entity for non-WBIF projects	FY21 WBIF					
50 LK 4A	Anoka Co. Lakes = Pet, Rice, South Coon, Skunk, Tamarack Chisago Co. Lakes = Sunrise, Little Horseshoe Isanti Co. Lakes = Hoffman, Horseleg, Horseshoe, Upper and Lower birch, East and West Twin, Tamarack (30-0001-00), Long (30-0002- 00,) Big Pine (30-0015-00), Grass (30-0017-00), Splittstoeser (30-00041-00)	Baseline data such as transparency, total phosphorus and chlorophyll- a are collected	Develop monitoring plan and collect data using available means such as volunteers, Met Council's CAMP, MPCA's citizen monitoring program, MPCA's Intensive watershed monitoring program, SWCDs, counties, parks departments, lake associations, etc.  Anoka Co annual costs (5 lakes * \$2,100/lake) = \$10,500  Chisago Co annual costs (2 lakes) = \$1,200  Isanti Co annual costs (12 lakes) = \$1,430/lake = \$17,160		\$57,720	\$28	8,860		\$28,860	SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	SWCD	ISWCD: Data collected on Hoffman, Horseleg, Horseshoe, Upper and Lower Birch, East and West Twin Lakes. (Funding Source: Oxford Twp)  SRWMO: In 2021 did 2 rounds of outreach at Pet, Rice, South Coon, Skunk	\$28,130	\$8,300	
													and Tamarack Lakes but secured volunteers at none.	]	7066	

				From CW	MP	2	2-year ouputs and	d costs divided b	y 2				2021 Yearend Progress R	eporting		
# Activity	Priority Location	Measurable Output	Implementation Actions	Years 1-2 Outputs	Years 1-2 Estimated Cost	Fiscal Year 1 (Jul '21-Jun '22) Outputs	Fiscal Year 1 (Jul '21-Jun '22) Estimated Cost	Fiscal Year 2 (Jul '22-Jun '23) Outputs	Fiscal Year 2 (Jul '22-Jun '23) Estimated Cost	Fiscal Agent/ Responsible Party	Funding Sources	WD, WMO, SWCD, County LID, or Multiple	, Year 1 (2021) Description of Outputs Accomplished	Year 1 Dollars		Year 1 (2021) Phosphorus Removal
												LID	Chisago County: Data collected on Little Horseshoe Lake and at 8 additional sites located in northern Chisago County. See #50 CLLID - for water quality monitoring procedures and summary report process.  CLLID - Conducted monthly (May-September) water quality monitoring at 23 lake sites. Monitoring included secchi disk readings, chlorophyll a, ammonia nitrogen and total phosphorus levels. This included a summary report which provided trophic state index values for each lake monitored. The long term water quality monitoring program provided data to support delisting North & South Center Lakes from the impaired waters list for nutrients.		\$2,423 \$16,500	
51 LK 4A STC 2B, 4C	Basin wide	Participate in studies and/or stay informed of latest science to assess the impact of a changing climate on lakes and the St. Croix River	adaptive management	Included in existing work			\$0		\$0	SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	SWCD	ACD: Completed SWCD comp plan in which climate change is a consideration in implementation.			
												Multiple	CMSCWD, BCWD, CLFLWD, MSCWMO hosted a floodplain resiliency planning work session for Wash Co., LGUs, and state entities to identify best approaches for evaluating floodplain resiliency. Final report is guiding floodplain resiliency modeling and planning efforts in 2022/2023.	\$20,000	\$20,000	
52 LK 4A	Chisago Chain of Lakes	100% of lakes prone to anthropogenic water level variation are identified	Manage the channel and weir system with an approved operation and maintenance plan.		\$72,000	)	\$36,000		\$36,000	SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants	LID	The CLLID has an approved Channel & Weir Operation and Maintenance plan. The channel & weir system controls water levels during high water conditions. The CLLID conducts inspections and maintenance of the system as needed. The system is well maintained and functioning properly.	\$31,000	\$31,000	
53 LK 4A	Basin wide	100% of lakes prone to direct anthropogenic water level variation are identified	Participate in DNR lake level monitoring program to routinely collect lake level data		\$26,000		\$13,000		\$13,000	SWCD/WMO/WD /CLLID		LID	The CLLID monitors 15 lake level gauges weekly during open water season. Lake levels, observed from the gauges, help determine when to open and close the weirs during high water conditions. In 2021, the Lake Ellen weir, which controls water levels on Green, Little Green and Lake Ellen, was opened from April through October.  Chisago County: Staff and volunteers monitor 4 lake level gauges to	\$4,800	\$3,600	
54 *LK 1A, 1B, 4A	Subwatersheds of Regionally Significant Lakes Table 5-3 and Figure 5-3	20 subwatershed project targeting analyses are completed (estimated \$10,000-\$50,000/SWA or \$30,000 ave)	Conduct analyses to identify and prioritize water quality improvement projects within a priority subwatershed. Methods and analyses can include site or field scale	5 SWAs	\$150,000		\$75,000		\$75,000	Chisago SWCD	FY21 WBIF (Activity 8)	SWCD	determine implementation of countywide Slow-No-Wake Ordinance. (along with 15 gauges located in the CLLID).  CSWCD: Goose Lake.	\$8,000		
			subwatershed analyses, diagnostic monitoring, spatial analysis and													

## ANNUAL REPORTING AND PLAN OF WORK (Does not include WBIF grant)

				From CWI	MP	2-	year ouputs and	costs divided b	y 2				2021 Yearend Progress	Reporting	
# Activity	Priority Location	Measurable Output	Implementation Actions	Years 1-2 Outputs	Years 1-2 Estimated Cost	Fiscal Year 1 (Jul '21-Jun '22) Outputs	Fiscal Year 1 (Jul '21-Jun '22) Estimated Cost	Fiscal Year 2 (Jul '22-Jun '23) Outputs	Fiscal Year 2 (Jul '22-Jun '23) Estimated Cost	Fiscal Agent/ Responsible Party	Funding Sources	WD, WMO, SWCD, County LID, or Multiple	, Year 1 (2021) Description of Outputs Accomplished		(2021) Year 1 (2021) Spent Phosphorus Removal
55 *R&S 1A, STC 4B	Regionally Significant Rivers and Streams:  - Streams and tributaries in Sunrise R. Watershed  - Direct drainage areas to St. Croix River through Rock, Rush, Goose, and Browns Creeks and Trout Brook and other small streams as shown in Table 5-2 and Figure 5-2.	20 subwatershed project targeting analyses are completed (estimated \$10,000 - \$50,000/SWA or \$30,000 ave)	mapping, modeling, cost benefit analyses, or other data-driven targeting activities.  See Section VII.B. for further description.	5 SWAs	\$150,000		\$75,000		\$75,000	Chisago SWCD	FY21 WBIF (Activity 8)	SWCD	CSWCD: Direct Drainage and City of NB	\$9,000	\$9,000
56 STC 4A, 4C	Tributaries to the St. Croix	Coordinated hydrologic, chemical, and biological monitoring of the St. Croix River and its tributaries; nutrient loading data of major tributaries to the St. Croix River is evaluated.	Operate up to 10 new monitoring stations that lack data (quality and quantity) to evaluate progress toward achieving the TMDL and to identify priority subwatersheds. @ \$10,000/year/station		\$100,000		\$50,000		\$50,000	SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants				
57 STC 3A	Land use authorities in the St. Croix Riverway.	Evaluate the floodplain and zoning ordinances for consistency and effectiveness in protecting the floodplain function and preventing flood damages. Include impacts of variances in the evaluation.	Work with land use authorities along St. Croix River and MnDNR Area Hydrologists to evaluate floodplain and zoning ordinances and update where appropriate.		\$50,000		\$25,000			SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants				
58 *STC 4B & UP 2A	Intermittent and perennial tributaries and watercourses flowing directly to St. Croix River	Inventory and prioritize active erosion sites.	Identify, evaluate, and rank active gullies directly discharging into the St. Croix or its tributaries [LIDAR to identify gully locations; RUSLE & BWSR pollution reduction calculator to determine pollution reduction numbers]		\$50,000		\$25,000		\$25,000	Chisago SWCD	FY21 WBIF (Activity 8)				
59 *STC 2B, 4C UP 1A	Basin wide	Map priority restoration and protection areas for acquisition, easements, and voluntary stewardship	Complete level 4/5 MLCCS basin wide. Expand the Washington County Natural Resource Framework and use their methodology in Anoka, Chisago, Isanti, and Pine Counties. (MLCCS = \$1,000/sq mi * 640 sq miles)		\$240,000		\$120,000		\$120,000	Chisago SWCD	FY21 WBIF (Activity 8)				
60 UP 1E	First priority: Public lands or near public lands; areas may be further prioritized thru cooperative weed mgmt area Second priority: Basin wide	Map and target "eradicate and control list" invasive species populations for each county Contact 50% of landowners for species on restricted list	management area (including MNDOT when possible) and promote associated		\$0		\$0			SWCD/WMO/WE /CLLID	Partner local funds, state/federal grants	Multiple	Chisago County and Chisago Lakes Lake Improvement District: Please see #35.		
61 WTL 3E	Pine County	Complete soil survey	Complete soil survey as developed by NRCS, USDA & shown in Soil Survey Geographic (SSURGO) Database	To be completed by NRCS			\$0		\$0	SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants				
62 *WTL 3D	Wetlands upstream of nutrient impaired streams and lakes	Monitor 10 identified wetlands for nutrient and volume contribution to impaired lakes and streams	Use subwatershed analyses or monitoring/modeling data to identify degraded wetlands with the potential of contributing high nutrient loads to downstream resources.		\$150,000		\$75,000		\$75,000	Chisago SWCD	FY21 WBIF (Activity 8)				
63 *WTL 3D	Basin wide	Identify 5 degraded wetlands with best restoration potential in each HUC 10	Use existing Restorable Wetland Prioritization Tool to focus effort	To be completed in conjunction with existing activities			\$0		\$0	Chisago SWCD	FY21 WBIF (Activity 8)				
64 WTL 3E & 1D	1st priority: Public ditches in Isanti Co. 2nd priority: Basin wide	Obtain Nutrient Loading Data in basins/wetlands near Ditch outlets to identify areas for ditch improvements to filter runoff	Collect water quality data near ditch outlets of 25 ditches (estimated \$2,000 per ditch)	-	\$10,000		\$5,000			SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants				
65 WTL 3A, 3B, 3C	1 <sup>st</sup> Priority: Isanti County 2 <sup>nd</sup> Priority: Basin wide	Create wetland inventory based on MLCCS, and function and value assessment and/or floristic quality assessment	Increase by 5 the number of LGUs with policies requiring wetland function and value assessments with project proposals such as developments or ditch work.		\$20,000		\$10,000			SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants				
66 WTL 3B	Pine County and Isanti County	An inventory and map of all areas of wetland loss and historic wetlands is locally verified	Verify recently completed inventory and map % of areas of wetland loss and historic wetlands		\$12,000		\$6,000			SWCD/WMO/WD /CLLID	Partner local funds, state/federal grants				
	ntation for Prioritization and Analysis: Issues, Goals, Actio	ns, Measurable Outputs, and Priority Locati	ons T		\$1,296,450		\$648,225		\$648,225					\$100,930	
TOTAL: Table 5-1 Parts A,	В, С, D				\$7,317,850		\$3,658,925		\$3,658,925					\$4,885,322	<b>1239.27</b> lb/ phosphor

GW = Groundwater UP = Upland Habitat WQ = Water Quality

R&S = Rivers & Streams STC = St. Croix River & Lake St. Croix LK = Lakes WTL = Wetlands

AIS = Aquatic Invasive Species SSTS = Subsurface Sewage Treatment Systems

\*LSC Implementation Plan activities related to FY21 WBIF grant work plan have an asterisk

EVALUATION OF PARTNERSHIP GOVERNANCE STRUCURE: During January and April 2022 the Policy Committee evaluated the adequacy and effectiveness of the partnership's governance structure. They recommend continuing with the joint powers collaboration model. Some operating procedure changes were recommended by the Steering Committee to increase efficiency, including: accepting funding requests approximately three times per year rather than continuously, reducing the use of subcommittees to review proposals and instead have proposals directly reviewed by the full Steering Committee, and seeking Policy Committee recommendations on all requests over \$50,000. The Policy Committee favored these changes and the Steering Committee will make them. The governance structure will be reviewed annually.

## Lower St. Croix Partnership Annual Plan of Work (based on LSC CWMP Table 5-1)

				From CW	MP	2-	-year ouputs and	d costs divided by	2				2021 Yearend Progress R	eporting			
# Activity	Priority Location	Measurable Output	Implementation Actions	Years 1-2 Outputs	Years 1-2 Estimated Cost	Fiscal Year 1 (Jul '21-Jun '22) Outputs	Fiscal Year 1 (Jul '21-Jun '22) Estimated Cost	Fiscal Year 2 (Jul '22-Jun '23) Outputs	Fiscal Year 2 (Jul '22-Jun '23) Estimated Cost	Fiscal Agent/ Responsible Party	Funding Sources	WD, WMO, SWCD, County, LID, or Multiple	Year 1 (2021) Description of Outputs Accomplished	Year 1 <u>WBIF</u> Doll			1 (2021) rus Removal
Part A. Implementation Actions	s for Agricultural Lands																
3 *Lake WQ from ag (Table 3-1 LK1A, 2A)	Regionally Significant Lakes for Agricultural BMPs See Table 5-3 for lakes and total phosphorus reduction goals; see <b>Figure 5-3</b> for map	Install conservation BMPs, near sensitive lakes or in direct lake catchments to reduce TP by 1,275 lbs (estimated 15		150 lbs TP (approx.300 ac and/or 10 BMPs)		75 lbs TP (approx 150 ac and/or 5		75 lbs TP (approx 150 ac and/or 5		Chisago SWCD for WBIF projects see specific entity			SWWD: McQuade Ravine Stabilization. 295 tons/yr TSS, 251 lbs/yr phosphorus. \$93,407 in LSC WBIFs, \$43,807 match provided. Reduce loading to St. Croix River and Lake St. Croix	\$97,985	\$93,407		l lb/yr phosphorus
		lbs/BMP) and reduce TSS, bacteria, N as secondary benefit				BMPs)		BMPs)		for non-WBIF projects	Partner local funds,		Pine SWCD: Rock Lake: Cattle exclusion and buffer strip 3.5 lbs/yr. \$4,578 in LSC WBIFs, \$807 match provided		\$4,578		lb/yr phosphorus
SUBTOTAL: Part A. Implementa	tion Actions for Agricultural Lands (Part A does not assi	ign dollar amounts to numbered line items)			\$2,072,800		\$1,036,400		\$1,036,400					\$97,985	\$97,985	254.5	lb/yr phosphorus
Part B. Implementation for Dev	reloped and Developing Lands																риоэриогиз
SUBTOTAL: Part B. Implementa	tion for Developed and Developing Lands (Part B does r	not assign dollar amounts to numbered line	e items)		\$2,041,600		\$1,020,800		\$1,020,800					\$0	\$0	C	lb/y phosphoru
Part C. Implementation for Ecos	system Services																
38 *Shoreland (Table 3-1 UP 1A, R&S 2A, LK 2B)	Basin wide	Increase the number of LGUs (including counties) by 2 that adopt innovative shoreland standards			[see Table 5-1 Impl. Actions]					Chisago SWCD	FY21 WBIF (Activity 3)		Hired Shared Services Educator. 2021 WBIF expenditures on Educator: \$39,449. Applies to multiple education-related implementation actions.	\$39,449	\$39,449		
SUBTOTAL: Part C. Implementat	tion for Ecosystem Services (Part C does not assign dolla				\$1,907,000	)	\$953,500	o	\$953,500					\$39,449	\$39,449	(	lb/y phosphoru
Part D. Implementation for Prio	pritization and Analysis: Issues, Goals, Actions, Measura	ble Outputs, and Priority Locations															phosphoru
49 *LK 1D	Regionally Significant Lakes for Internal Loading Analyses Table 5-4	Calculate internal loading of phosphorus	Calculate internal loading of phosphorus on 15 lakes @ \$25,000 each		\$75,000		\$37,500		\$37,500	Chisago SWCD for WBIF projects see specific entity for non-WBIF projects	FY21 WBIF , (Activity 7)		CLFLWD: Began planning for 2022 Forest Lake Internal Load Analysis. Study approved for WBIF grant funding (\$16,500 in WBIF grant, \$19,830 proposed match). None spent in 2021. Study to occur in 2022.	\$0	\$0		
54 *LK 1A, 1B, 4A	Subwatersheds of Regionally Significant Lakes Table 5-3 and Figure 5-3	20 subwatershed project targeting analyses are completed (estimated \$10,000-\$50,000/SWA or \$30,000 ave)	Conduct analyses to identify and prioritize water quality improvement projects within a priority subwatershed. Methods and analyses can include site or field scale subwatershed analyses, diagnostic monitoring, spatial analysis and	5 SWAs	\$150,000		\$75,000		\$75,000	Chisago SWCD	FY21 WBIF (Activity 8)		CLFLWD: Began drafting sequential diagnostic monitoring protocols.\$3,000 spent in 2021.  WCD & CSWCD: Other targeting protocols are in-progress as well, but have not incurred expenditures in 2021. Includes Revised Introduction to Prioritization Protocols, Rural SWA Protocol Update, and Urban SWA Protocol Update.  Total WBIF funds allocated = \$8,000	\$3,000	\$3,000		
SURTOTAL: Part D. Implements	tion for Prioritization and Analysis: Issues, Goals, Action	ns Massurable Outputs and Priority Locati	ions		\$225.000		\$112,500		\$112,500				Total Wall Talias allocated – 90,000	\$3,000	\$3,000		
Administration	tion for Frioritization and Analysis. Issues, Goals, Action	nis, ivicasurable outputs, and Friority Locati	UIIS		\$225,000		\$112,500	,	\$112,500			Multiple	WBIF 2021 Administrative Costs = \$24,219. Staff hiring and payroll oversight,	\$24,219	\$24,219		
TOTAL: Table 5-1 Parts A, B, (	C, D				\$6,246,400		\$3,123,200		\$3,123,200				committee meeting coordination, progress evaluation and reporting	\$164,653	\$164,653	254.5	i lb/y

**Activity Abbreviations** 

GW = Groundwater UP = Upland Habitat R&S = Rivers & Streams

STC = St. Croix River & Lake St. Croix

WQ = Water Quality

Projects funded by FY21 WBIF grant are highlighted in green
\*LSC Implementation Plan activities related to FY21 WBIF grant work plan have an asterisk

LK = Lakes AIS = Aquatic Invasive Species SSTS = Subsurface Sewage Treatment Systems WTL = Wetlands

EVALUATION OF PARTNERSHIP GOVERNANCE STRUCURE: During January and April 2022 the Policy Committee evaluated the adequacy and effectiveness of the partnership's governance structure. They recommend continuing with the joint powers collaboration model. Some operating procedure changes were recommended by the Steering Committee to increase efficiency, including: accepting funding requests approximately three times per year rather than continuously, reducing the use of subcommittees to review proposals and instead have proposals directly reviewed by the full Steering Committee, and seeking Policy Committee recommendations on all requests over \$50,000. The Policy Committee favored these changes and the Steering Committee will make them. The governance structure will be reviewed annually.