MINNEHAHA CREEK
WATERSHED DISTRICT
QUALITY OF WATER, QUALITY OF LIFE

Meeting: Board of Managers
Meeting date: 6/27/2024
Agenda Item #: 7.1
Request for Board Action

Title:	Authorization to distribute Capital Improvement Plan for annual review and comment
Resolution number:	24-035
Prepared by:	Michael Hayman (952) 471-8226 mhayman@minnehahacreek.org
Recommended action:	Authorization to distribute the revised draft Capital Improvement Plan (CIP) to MCWD counties and municipalities for 30-day review and comment. This year's CIP distribution includes a more detailed five-year look into MCWD's capital project planning cycle and incorporates a minor plan amendment comment period for the Lake Minnetonka Subwatershed.
Schedule:	June 2024 – Release of draft CIP for 30-day review August 2024 – Revisions and approval of 2025 CIP
Budget considerations:	Not applicable
Past Board action:	Not applicable

Summary:
The Minnehaha Creek Watershed District (MCWD) is a mission-driven organization that centers its work on the delivery of high-impact capital projects that integrate water and natural resources with the built environment. MCWD has progressively improved its approach to capital project planning through cycles of implementation and deliberate reflection that have increased the sophistication and efficacy of its capital project implementation model.

2024 marks another exciting change and opportunity for MCWD to continue advancing its capital project program and refining its Multi-Year Capital Improvement Plan (CIP) initiative. 2024 is the official inaugural year for MCWD's Land and Water Partnership (LWP) Program. For consistency and transparency, the CIP now also reflects projects moving through that partnership program.

Each year, as described in MCWD's Watershed Management Plan (WMP), MCWD revises and distributes its 10-year CIP (attachment 1) to its member cities and counties for 30-day review and comment. The purpose of this annual process is to allow MCWD to adjust its 10-year CIP based on feasibility analysis of projects described in the WMP, identification of new project opportunities through coordination with land use planning, shifts in District priorities, and assessment of staff and financial capacity. As projects are continually being developed, this process also allows MCWD to provide its stakeholders with a greater level of specificity. The MCWD uses the annual distribution of its CIP to remind its communities of MCWD's implementation approach and its desire to coordinate and align its plans and investments with its member communities. The CIP will be accompanied by a cover letter that reinforces MCWD's model of integrated planning and promotes early coordination, while highlighting some of the changes to the 2025 CIP.

Annual circulation of the draft CIP for review and comment will include two additional Multi-Year CIP tools:

- The five-year CIP table, which shows the forecasted project timelines and cost estimates for capital projects from 2025-2029 (attachment 2).

- Project summary pages, which provide high level information on each project including its goals, scope, and justification; a summary of its near term workplan; and its projected schedule and budget (attachment 3).

In addition, a partnership opportunity was identified through early coordination with the city of Deephaven. The city submitted a request for funding support for the Calvary Church Stormwater Management project, which was reviewed by the Board of Managers at its June 13, 2024, meeting. Based on the LWP program evaluation, the Board of Managers approved resolution 24-034, directing staff to initiate the minor plan amendment process to incorporate this project opportunity into MCWD's CIP for funding support. In accordance with Minnesota Rules 8410, MCWD is requesting review and comment on this proposed minor amendment to adjust the Lake Minnetonka Subwatershed's CIP under Table 3.8 (attachment 4).

The CIP and minor plan amendment will be distributed to the municipalities and counties for a 30-day review and comment period. Following the comment period, any comments received will be brought to the Board for consideration, with revisions to the final 2025 CIP and minor plan amendment being made prior to approval.

Supporting documents (list attachments):

- Attachment 1: Draft 2025 CIP
- Attachment 2: Draft five-year CIP Table
- Attachment 3: Complementary project summary pages
- Attachment 4: Table 3.8 Lake Minnetonka Subwatershed CIP

MINNEHAHA CREEK
WATERSHED DISTRICT
QUALITY OF WATER, QUALITY OF LIFE

RESOLUTION

Resolution number: 24-035

Title: Authorization to distribute Capital Improvement Plan for annual review and comment

WHEREAS the MCWD's Watershed Management Plan (Plan), adopted on January 11, 2018, included a proposed 10-year Capital Improvement Plan (CIP);

WHEREAS the Plan requires that the MCWD annually release its revised draft CIP for 30-day review and comment to the counties and municipalities in the MCWD;

WHEREAS the Draft CIP has been revised to reflect current MCWD priorities and provide added specificity for projects that are currently in development;

WHEREAS release of the Draft 2025 CIP includes MCWD's Multi-Year CIP effort, designed to improve clarity around near-term project initiatives, create a better framework to forecast the capital budget and funding needs over multiple years, and improve the effectiveness of the CIP as a communications tool for MCWD and its partner communities;

WHEREAS the Draft CIP and draft Multi-Year CIP was reviewed by the MCWD Citizen Advisory Committee on May 15, 2024, and by the MCWD Planning and Policy Committee, as part of its 2025 budget review process, on June 27, 2024;

WHEREAS on June 13, 2024, the Board of Managers approved resolution 24-034 directing staff to initiate the minor plan amendment process to incorporate language for opportunities to reduce stormwater volume and pollutant loading to non-impaired bays of Lake Minnetonka into MCWD's Lake Minnetonka Subwatershed CIP table 3.8;

WHEREAS in accordance with Minnesota Rules 8410, MCWD is requesting review and comment on this proposed minor amendment to adjust the Lake Minnetonka Subwatershed's CIP as part of its annual draft CIP review and comment period.

NOW, THEREFORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers authorizes staff to distribute the Draft CIP and Lake Minnetonka Subwatershed minor plan amendment for 30-day review and comment.

Resolution Number 24-035 was moved by Manager _____, seconded by Manager _____. Motion to adopt the resolution ___ ayes, ___ nays, ___abstentions. Date: 6/27/2024

_____ Date: _____
Secretary

Attachment 1

DRAFT Minnehaha Creek Watershed District 2018-2027 Capital Improvement Plan

Subwatershed	Capital Projects	Estimated Cost	Potential Funding Sources*	Proposed Implementation Year
Minnehaha Creek	Arden Park Stream Restoration and Stormwater Management	$5,020,272	MCWD levy, City of Edina ($2,732,870), BWSR grant ($125,000)	Complete - 2020
	Minnehaha Creek FEMA Flood Damage Repairs	$900,000	MCWD levy, FEMA grant ($336,459)	Complete - 2020
	325 Blake Road Regional Stormwater and Greenway	$5,639,250	MCWD levy, BWSR grants ($495,000), PFA grants (TBD)	2024-2027
	Cottageville Park Phase II Riparian Restoration	$1,300,000	MCWD levy, partner contributions	2024-2027
	Greenway to Cedar Trail Connection and Streambank Restoration	$884,000	MCWD levy, partner contributions, grants	2024-2026
	Minnehaha Parkway Stormwater Management	$3,293,000	MCWD levy, partner contributions, grants	2024-2028
	Meadowbrook Golf Course Ecological Restoration	$2,006,730	MCWD levy, partner contributions, grants	2025-2028
	Meadowbrook Greenway Expansion	$950,000	MCWD levy, partner contributions, grants	2025-2028
	Boone-Aquilla Floodplain	$500,000	MCWD levy, partner contributions, grants	2027-2029
	Louisiana Trail Greenspace and Stormwater	$300,000	MCWD levy, partner contributions, grants	2027-2029
	West Blake Greenway Enhancement	$420,000	MCWD levy, partner contributions, grants	2028-2030
	Hiawatha Golf Course Restoration	$1,940,000	MCWD levy, partner contributions, grants	2027-2030
	Channel/Streambank Restoration	$3,120,000	MCWD levy, partner contributions, grants	Opportunity-based
	Stormwater Volume and Pollutant Load Reduction	$2,450,000	MCWD levy, partner contributions, grants	Opportunity-based
Six Mile Creek-Halsted Bay	East Auburn Stormwater Enhancement Project	$327,500	BWSR grant ($262,520), City of Victoria ($64,980)	Complete - 2018
	Wassermann West External Load Reduction and Landscape Restoration	$2,761,786	City of Victoria ($2,184,660), BWSR grant ($93,879), MCWD levy	Complete - 2021
	Wassermann Internal Load Management	$335,900	MCWD levy, BWSR grant ($284,720)	Complete - 2022
	Six Mile Marsh Prairie Restoration (Trail)	$347,851	MCWD levy	Complete- 2023
	East Auburn Wetland Restoration	$550,000	MCWD levy, partner contributions	2023-2025
	Turbid-Lundsten Wetland Restoration	$3,100,000	MCWD levy, partner contributions, grants	2024-2026
	Halsted Bay Watershed Load Management	$13,000,000	MCWD levy, partner contributions, grants	2026-2028
	Mud Lake Watershed Load Reductions	$3,090,000	MCWD levy, partner contributions, grants	2027-2029
	Pierson Lake Headwaters Restoration	$367,800	MCWD levy, partner contributions, grants	2028-2030
	Whole Lake Drawdown	$770,000	MCWD levy, partner contributions, grants	Opportunity-based
	Internal Load Management	$980,000	MCWD levy, partner contributions, grants	Opportunity-based
	Stormwater Volume and Pollutant Load Reduction	$2,000,000	MCWD levy, partner contributions, grants	Opportunity-based
	Stream Restoration	$870,000	MCWD levy, partner contributions, grants	Opportunity-based
	Wetland Restoration	$3,000,000	MCWD levy, partner contributions, grants	Opportunity-based
Long Lake Creek	County Road Six Pond Retrofit	$728,000	MCWD levy	2023-2025
	Holbrook Park Regional Stormwater Treatment	$1,200,000	MCWD levy, partner contributions, grants	2024-2027
	Stormwater Volume and Pollutant Load Reduction	$1,320,000	MCWD levy, partner contributions, grants	Opportunity-based
Painter Creek	Morningside Ravine Stabilization	$234,200	MCWD levy, USACE Section 206, partner contributions, grants	2023-2025
	Potato Marsh Restoration	$870,000	MCWD levy, USACE Section 206, partner contributions, grants	2027-2029
	South Katrina Marsh Restoration	$1,270,000	MCWD levy, USACE Section 206, partner contributions, grants	2027-2029
	SOBI Marsh Restoration	$240,000	MCWD levy, USACE Section 206, partner contributions, grants	2028-2030
	Upper and Lower Painter Marsh Restoration	$2,800,000	MCWD levy, USACE Section 206, partner contributions, grants	2028-2030
	Stream Restoration	$2,990,000	MCWD levy, partner contributions, grants	Opportunity-based
	Wetland Restoration	$330,000	MCWD levy, partner contributions, grants	Opportunity-based
	Stormwater Volume and Pollutant Load Reduction	$980,000	MCWD levy, partner contributions, grants	Opportunity-based
Christmas Lake	Stormwater Volume and Pollutant Load Reduction	$200,000	MCWD levy, partner contributions, grants	Opportunity-based
Dutch Lake	Stormwater Volume and Pollutant Load Reduction	$780,000	MCWD levy, partner contributions, grants	Opportunity-based
Gleason Lake	Maple Creek Pond Improvement Project	$100,000	MCWD levy, partner contributions, grants	Complete - 2023
	Stormwater Volume and Pollutant Load Reduction	$600,000	MCWD levy, partner contributions, grants	Opportunity-based
Lake Minnetonka	Halsted Bay Internal Phosphorus Load Reduction	$1,400,000	MCWD levy, partner contributions, grants	2026-2027
	Stormwater Volume and Pollutant Load Reduction	$1,000,000	MCWD levy, partner contributions, grants	Opportunity-based
Lake Virginia	Stormwater Volume and Pollutant Load Reduction	$650,000	MCWD levy, partner contributions, grants	Opportunity-based
Langdon Lake	Stormwater Volume and Pollutant Load Reduction	$230,000	MCWD levy, partner contributions, grants	Opportunity-based
Schutz Lake	Stormwater Volume and Pollutant Load Reduction	$250,000	MCWD levy, partner contributions, grants	Opportunity-based

Attachment 2

MCWD 5-Year CIP Projection

		2025		2026		2027		2028		2029	
	Estimated Cost*	Est. Budget	Category	Est. Budget	Category	Est. Budget	Category	Est. Budget	Category	Est. Budget	Category
MINNEHAHA CREEK SUBWATERSHED											
~~Arden Park Stream Restoration and Stormwater Management~~	~~$5,020,272~~	*Complete*									
~~Minnehaha Creek FEMA Flood Damage Repairs~~	~~$900,000~~	*Complete*									
325 Blake Road Regional Stormwater and Greenway	$5,639,250	$1,632,285	Construction	$1,305,828	Construction	$326,457	Construction	[Carryover]	Warranty	--	--
Cottageville Park Phase II Riparian Restoration	$1,300,000	$650,000	Construction	$520,000	Construction	$130,000	Construction	[Carryover]	Warranty	--	--
Greenway to Cedar Trail Connection and Streambank Restoration	$884,000	$177,000	Design	$707,000	Construction	[Carryover]	Warranty	--	--	--	--
Minnehaha Parkway Stormwater Management	$3,293,000	$659,000	Design	$2,634,000	Construction	[Carryover]	Construction	[Carryover]	Warranty	--	--
Meadowbrook Golf Course Ecological Restoration and Greenway Expansion	$2,956,730	$75,000	Planning	$587,066	Design	$1,174,132	Construction	$1,174,132	Construction	[Carryover]	Warranty
Boone-Aquilla Floodplain	$500,000	--	--	--	--	$50,000	Planning	$100,000	Design	$400,000	Construction
Louisiana Trail Greenspace and Stormwater	$300,000	--	--	--	--	$40,000	Planning	$60,000	Design	$240,000	Construction
West Blake Greenway Enhancement	$420,000	--	--	--	--	--	--	$25,000	Planning	$84,000	Design
Hiawatha Golf Course Restoration	$1,940,000	--	--	--	--	$50,000	Planning	$388,000	Design	$1,502,000	Construction
Channel/Streambank Restoration	$3,120,000	*Opportunity Driven*									
Stormwater Volume and Pollutant Load Reduction	$2,450,000	*Opportunity Driven*									
SIX MILE CREEK HALSTED BAY SUBWATERSHED											
~~East Auburn Stormwater Enhancement Project~~	~~$327,500~~	*Complete*									
~~Wassermann Internal Load Management~~	~~$335,900~~	*Complete*									
~~Six Mile Marsh Prairie Restoration (Trail)~~	~~$347,851~~	*Complete*									
~~Wassermann Lake Preserve~~	~~$2,761,786~~	*Complete*									
East Auburn Wetland Restoration	$550,000	$482,000	Construction	[Carryover]	Construction	[Carryover]	Warranty	--	--	--	--
Turbid-Lundsten Wetland Restoration	$3,100,000	$250,000	Design	$2,800,000	Construction	[Carryover]	Construction	[Carryover]	Warranty	--	--
Halsted Bay Watershed Load Management	$13,000,000	$55,000	Planning	$55,000	Planning	$2,600,000	Design	$5,200,000	Construction	$5,200,000	Construction
Mud Lake Watershed Load Reductions	$3,090,000	--	--	$50,000	Planning	$25,000	Planning	$618,000	Design	$2,472,000	Construction
Pierson Lake Headwaters Restoration	$367,800	--	--	--	--	--	--	$73,560	Design	$294,240	Construction
Whole Lake Drawdown	$770,000	*Opportunity Driven*									
Internal Load Management	$980,000	*Opportunity Driven*									
Stormwater Volume and Pollutant Load Reduction	$2,000,000	*Opportunity Driven*									
Stream Restoration	$870,000	*Opportunity Driven*									
Wetland Restoration	$3,000,000	*Opportunity Driven*									
LONG LAKE CREEK SUBWATERSHED											
County Road Six Stormwater Pond Retrofit	$728,000	$560,000	Construction	[Carryover]	Construction	[Carryover]	Warranty	--	--	--	--
Holbrook Park Regional Stormwater Treatment	$1,200,000	$174,000	Design	$1,026,000	Construction	[Carryover]	Construction	[Carryover]	Warranty		
Stormwater Volume and Pollutant Load Reduction	$1,320,000	*Opportunity Driven*									
PAINTER CREEK SUBWATERSHED											
Morningside Ravine Stabilization	$234,200	$234,200	Construction	[Carryover]	Warranty						
Potato Marsh Restoration	$870,000	--	--	--	--	TBD	Planning	TBD	Design		
South Katrina Marsh Restoration	$1,270,000	--	--	--	--	TBD	Planning	TBD	Design		
SOBI Marsh Restoration	$240,000	--	--	--	--	--	--	TBD	Planning	TBD	Design
Upper and Lower Painter Marsh Restoration	$2,800,000	--	--	--	--	--	--	TBD	Planning	TBD	Design
Stream Restoration	$2,990,000	*Opportunity Driven*									
Wetland Restoration	$330,000	*Opportunity Driven*									

Stormwater Volume and Pollutant Load Reduction	$980,000	*Opportunity Driven*				
CHRISTMAS LAKE						
Stormwater Volume and Pollutant Load Reduction	$200,000	*Opportunity Driven*				
DUTCH LAKE						
Stormwater Volume and Pollutant Load Reduction	$780,000	*Opportunity Driven*				
GLEASON LAKE						
Maple Creek Pond Improvement Project	~~$100,000~~	*Complete*				
Stormwater Volume and Pollutant Load Reduction	$600,000	*Opportunity Driven*				
LAKE MINNETONKA						
Halsted Bay Internal Phosphorus Load Reduction	$1,400,000	*Planning Phase to run concurrent with Halsted Alum Facility*	$280,000	Design	$1,120,000	Construction
Stormwater Volume and Pollutant Load Reduction	$1,000,000	*Opportunity Driven*				
LAKE VIRGINIA						
Stormwater Volume and Pollutant Load Reduction	$650,000	*Opportunity Driven*				
LANGDON LAKE						
Stormwater Volume and Pollutant Load Reduction	$230,000	*Opportunity Driven*				
SCHUTZ LAKE						
Stormwater Volume and Pollutant Load Reduction	$250,000	*Opportunity Driven*				

BUDGET SUMMARY	2025	2026	2027	2028	2029
Planning Budget	$130,000	$105,000	$165,000	$25,000	$0
Capital Budget	$4,818,485	$9,579,894	$4,510,589	$8,733,692	$10,192,240
Total	$4,948,485	$9,684,894	$4,675,589	$8,758,692	$10,192,240

KEY

Opportunity Driven: projects in the CIP that are dependent on factors external to MCWD, including projects that would be identified through the Land and Water Partnership

[Carryover]: Funds for design and construction are typically levied in the year that project phase is intiatied. If the activity spans multiple years, it will use carryover from the previous year and not impact the following years' levy.

MINNEHAHA CREEK WATERSHED DISTRICT

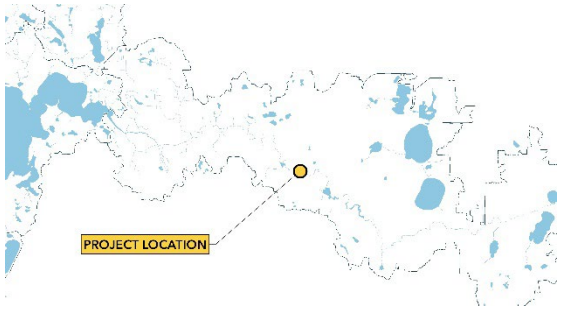
MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME
Greenway to Cedar Trail Connection and Streambank Restoration

LOCATION
St. Louis Park (Minnehaha Creek)

TARGET WATERBODY
Minnehaha Creek



DESCRIPTION

SCOPE
Planned streambank stabilization, riparian restoration, and construction of a trail connection along Minnehaha Creek from the Minnehaha Creek Preserve to the Cedar Lake LRT Regional Trail. This link in the Minnehaha Creek Greenway will be planned in partnership with the City of St. Louis Park and Metropolitan Council and timed to coinicide with Southwest LRT (SWLRT) construction completion.

GOALS
Provide a key connection between existing and future MCWD projects upstream and downstream of the rail corridor, increasing pedestrian and bicyclist safety and improving recreation and transportation access to the Cedar Lake LRT Regional Trail and future SWLRT stations at Blake Road and Louisiana Avenue. The overall ecological integrity of the stream corridor will be improved through approximately 1,500 lineal feet of streambank stabilization and riparian restoration.

JUSTIFICATION
Upstream and downstream Minnehaha Creek Greenway projects are currently separated by freight rail and the future Southwest LRT line, and there is no direct pedestrian or bicycle connection between these investments or the Cedar Lake LRT Regional Trail. The bridge crossing at Minnehaha Creek is the site of past creek manipulation, and Minnehaha Creek is currently impaired for fecal coliform bacteria, chloride, low dissolved oxygen, and fish and macroinvertebrate communities. Lake Hiawatha, Minnehaha Creek's receiving waterbody, is impaired for nutrients due to sediment and nutrient loads transported by Minnehaha Creek and both waterbodies have TMDLs.

WORKPLAN SUMMARY
In 2024 and 2025, MCWD will finalize partnership agreements, including a design and construction agreement with St. Louis Park, and target Q3 2024 to iniate design. Construction will be coordinated between MCWD and the other agencies who own or operate the SWLRT right-of-way.

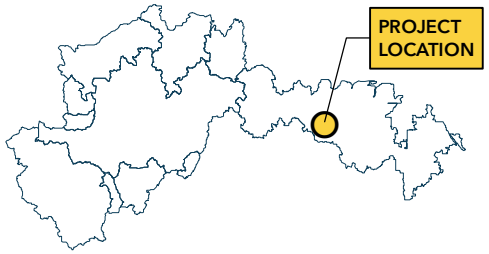
SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2023	2024 – 2025	2025 – 2026
$25,000	$177,000	$707,000

MCWD CIP OVERVIEW
MINNEHAHA CREEK

Legend

- MCWD Project Location
- Minnehaha Creek Subwatershed



GREENWAY TO CEDAR TRAIL CONNECTION

Cedar Lake Road
Louisiana Avenue South
28th Street W
29th Street
Minnetonka Boulevard
31st Street West
Kentucky Avenue South
Jersey Avenue South
Idaho Avenue South
Texas Avenue South
Sumter Avenue South
Rhode Island Avenue South
St. Louis Park
Lake
Highway 100 South
36th Street West
Highway 7
Cambridge Street
Minnehaha Creek
Highway 169
Hopkins
Excelsior Boulevard
Yosemite Avenue South
Meadowbrook
Belmore Lane
Interlachen Boulevard
Edina Mill Pond
Minnetonka
Edina
Malibu Drive
Schaefer Road
Blake Road South
Highway 100
Harvey
Vernon Avenue
Melody

N

0 0.125 0.25 0.5
Miles

MINNEHAHA CREEK WATERSHED DISTRICT

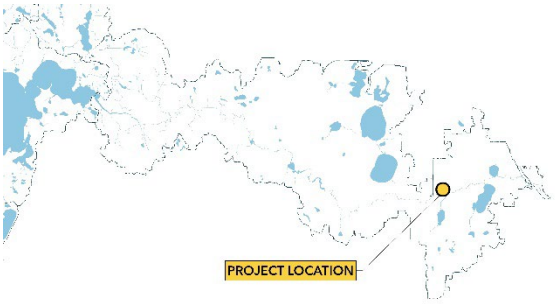
MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME
Minnehaha Parkway Stormwater Management

LOCATION
Minneapolis (Minnehaha Creek)

TARGET WATERBODY
Minnehaha Creek, Lake Hiawatha



DESCRIPTION

SCOPE
Partnership with the City of Minneapolis and Minneapolis Park and Recreation Board (MPRB) to create a shared implementation framework for the Minnehaha Parkway Regional Trail Master Plan, a 30-year vision to enhance recreation, improve ecological function of the creek corridor, improve public safety, address flooding, and improve water quality in the Minneapolis segment of the Minnehaha Creek corridor.

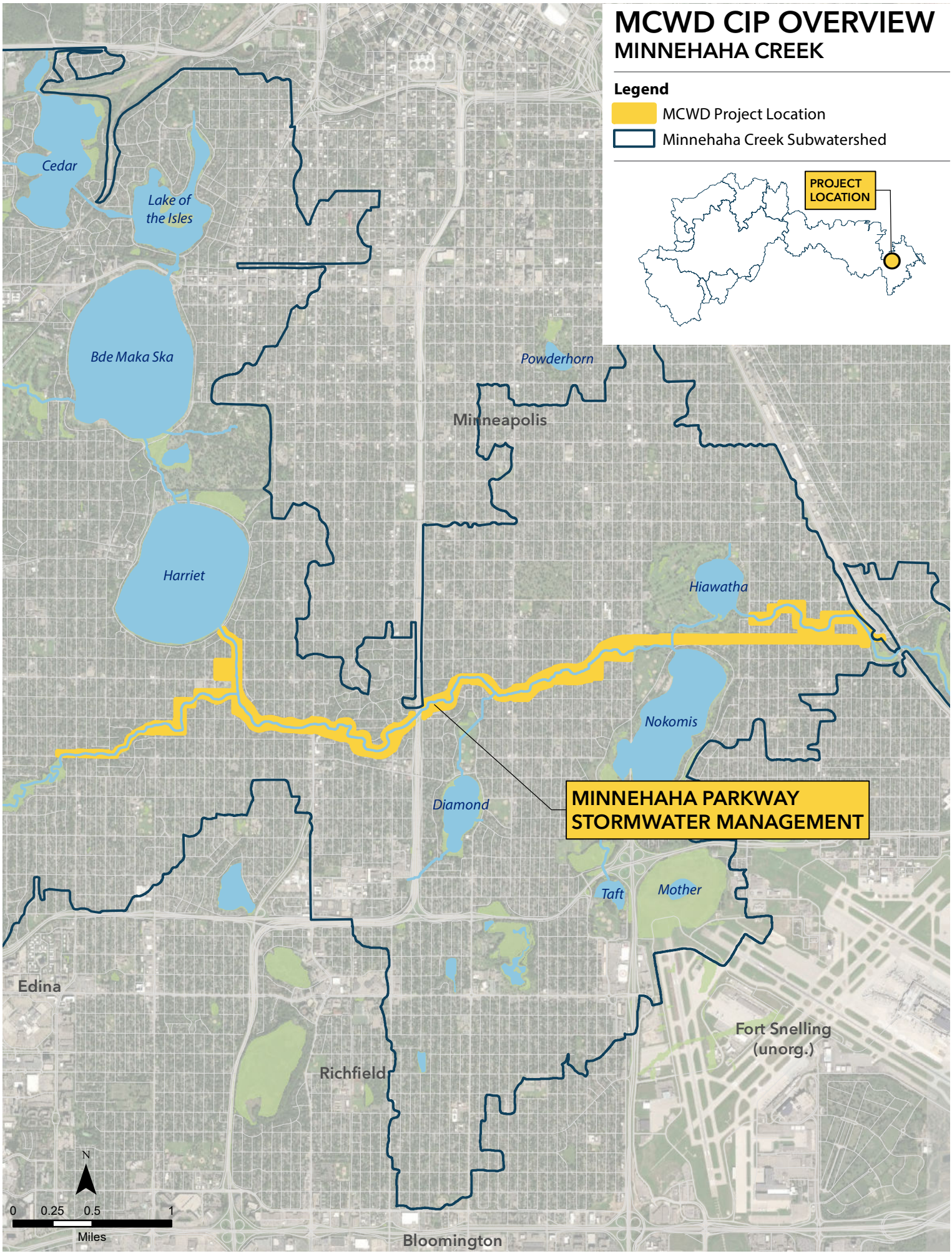
GOALS
The Minnehaha Parkway Regional Trail Master Plan includes 35 water resource projects, which together would remeander 2.65 miles of creek, restore 51.8 acres of upland landscape, reduce annual phsophorus loading to Lake Hiawatha by 434 lbs/year; increase floodplain storage by 56 acre-feet; and create six new creek access points.

JUSTIFICATION
Minnehaha Creek is an iconic regional and cultural natural resource. It is an impaired water body for multiple parameters, including fecal coliform bacteria, chloride, low dissolved oxygen, and fish and macroinvertebrate communities. Further, the MPCA has listed downstream receiving water body Lake Hiawatha as impaired for excess nutrients. Minnehaha Creek is further impacted by rapidly fluctuating water flows that contribute to bank erosion and impair the biotic integrity of the stream.

WORKPLAN SUMMARY
The focus for 2024-2025 will be on conducting feasibility for design and construction for several projects (Phase I) identified in the Minnehaha Parkway Regional Trail Master Plan and developing a shared implementation plan between MCWD, MPRB, and Minneapolis to identify and implement future priority capital improvements in the Minnehaha Parkway. Phase I includes projects from: Segment 1-Penn/Newton/Morgan Focus Area, Segment 2-Nicollet Focus Area, and Segment 3-Cedar/Bloomington Focus Area. The below schedule and budget is for Phase I project implementation.

SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2024– 2025	2025	2026 – 2028
$150,000	$659,000	$2.6 million


MCWD CIP OVERVIEW
MINNEHAHA CREEK
Legend
MCWD Project Location
Minnehaha Creek Subwatershed
PROJECT LOCATION
Cedar
Lake of the Isles
Bde Maka Ska
Harriet
Powderhorn
Minneapolis
Hiawatha
Nokomis
Diamond
MINNEHAHA PARKWAY STORMWATER MANAGEMENT
Taft
Mother
Edina
Richfield
Fort Snelling (unorg.)
Bloomington
N
0 0.25 0.5 1
Miles

MINNEHAHA CREEK WATERSHED DISTRICT

MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

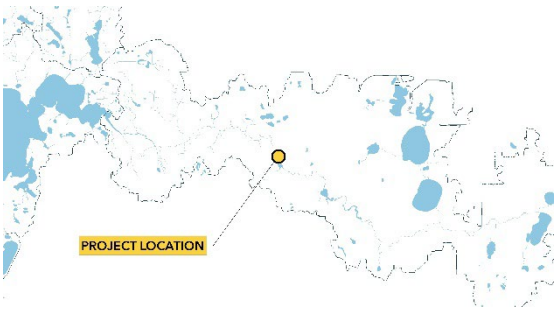
OVERVIEW

PROJECT NAME

Meadowbrook Golf Course Ecological Restoration and Greenway Expansion

LOCATION

St. Louis Park, Hopkins, and Edina (Minnehaha Creek)



TARGET WATERBODY

Minnehaha Creek

DESCRIPTION

SCOPE

Reevaluate plan to reconfigure and enhance Meadowbrook Golf Course to restore and improve the ecological integrity of the Minnehaha Creek stream corridor, enhance on-site flood storage and resilience, and connect the Minnehaha Creek Greenway through Minneapolis Parks and Recreation Board land to the City of Edina parks and trails system.

GOALS

The project would improve the ecological integrity and upland areas of the golf course along a 1,200-foot stretch of the Minnehaha Creek corridor, improve water quality in Minnehaha Creek and Lake Hiawatha through buffers and imprved stromwater managment, and restore weltand function. It may explore the potential to reduce flooding impacts to Meadowbrook Golf Course and surrounding neighborhoods via the creation of additional storage, and connect the Minnehaha Creek Greenway to the City of Edina parks and trails system.

JUSTIFICATION

The project is within a degraded section of the Minnehaha Creek corridor, which historically experienced ditching, wetland loss, and habitat fragmentation. Minnehaha Creek is currently impaired for fecal coliform bacteria, chloride, low dissolved oxygen, and fish and macroinvertebrate communities. Lake Hiawatha, Minnehaha Creek's receiving waterbody, is impaired for nutrients due to sediment and nutrient loads transported by Minnehaha Creek and both waterbodies have TMDLs. This project would connect to the upstream Minnehaha Creek Corridor, supporting both recreation access and ecological integrity through this contiguous stretch of restored greenway.

WORKPLAN SUMMARY

The Meadowbrook Golf Course Project underwent feasibility and design in 2015-2016. MCWD has identified 2025 as a possible target to reinitiate project planning and partnership development. Advancing the project, either as designed or of a modified scope, is contingent on developing partnership agreements with MPRB. The timeline below is reliant on partnership alignment, and therefore illustrative only.

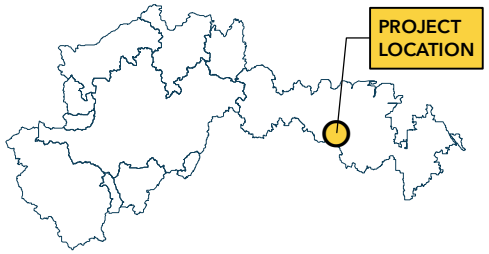
SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2025-2026	2026-2027	2027-2028
$75,000	$587,066	$2.4 million

MCWD CIP OVERVIEW
MINNEHAHA CREEK

Legend

- MCWD Project Location
- Minnehaha Creek Subwatershed



MEADOWBROOK GOLF COURSE ECOLOGICAL RESTORATION

Cedar Lake Road
Louisiana Avenue South
28th Street W
29th Street
Minnetonka Boulevard
31st Street West
Kentucky Avenue South
Jersey Avenue South
Idaho Avenue South
Texas Avenue South
Sumter Avenue South
Rhode Island Avenue South
St. Louis Park
Lake
Highway 100 South
36th Street West
Highway 7
Cambridge Street
Minnehaha Creek
Highway 169
Hopkins
Excelsior Boulevard
Yosemite Avenue South
Meadowbrook
Belmore Lane
Interlachen Boulevard
Edina Mill Pond
Minnetonka
Edina
Malibu Drive
Schaefer Road
Blake Road South
Highway 100
Harvey
Vernon Avenue
Melody

N

0 0.125 0.25 0.5
Miles

MINNEHAHA CREEK WATERSHED DISTRICT

MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME
Boone-Aquila Floodplain Restoration

LOCATION
St. Louis Park (Minnehaha Creek)

TARGET WATERBODY
Minnehaha Creek

DESCRIPTION

SCOPE
Evaluate opportunity for floodplain restoration, stormwater management, and enhanced recreational access along Minnehaha Creek in the Aquila neighborhood of St. Louis Park near Target-Knollwood.

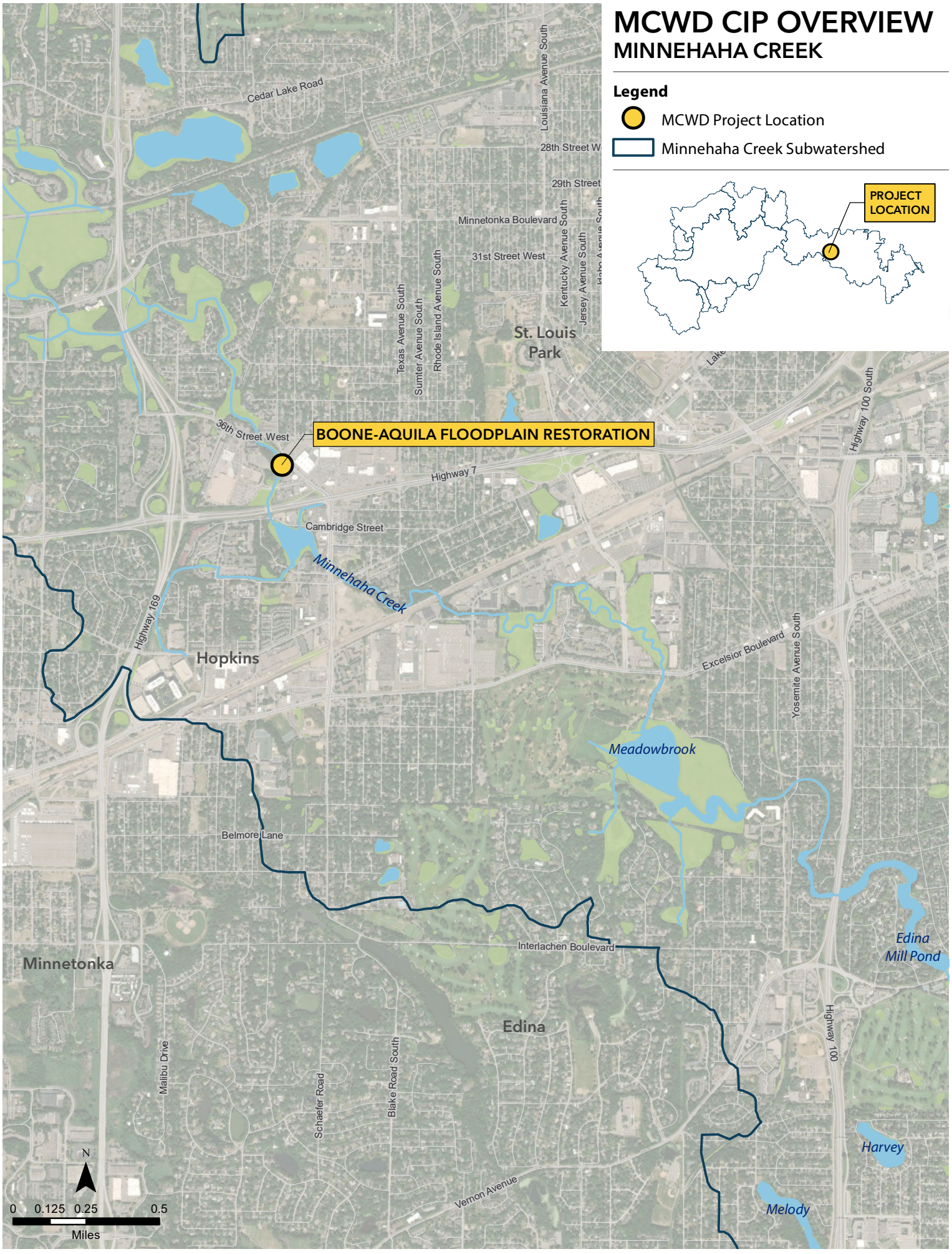
GOALS
This project may improve the ecological integrity along approxiomately 1,000-feet of an urbanized stretch of Minnehaha Creek, explore expansion of floodplain storage over a three-acre area, enhance riparian habitats, and provide safe recreational access to Minnehaha Creek and connections to the Minnehaha Creek Greenway.

JUSTIFICATION
Historic development of this urban stretch of Minnehaha Creek resulted in filling large areas of floodplain, localized flooding, and impervious surfaces within the floodplain. Minnehaha Creek is currently impaired for fecal coliform bacteria, chloride, low dissolved oxygen, and fish and macroinvertebrate communities. Lake Hiawatha, Minnehaha Creek's receiving waterbody, is impaired for nutrients due to sediment and nutrient loads transported by Minnehaha Creek and both waterbodies have TMDLs.

WORKPLAN SUMMARY
The ability to design and execute a project is dependent on landowner interest in either integrating a project on their property through redevelopment or conveying property to MCWD. MCWD will consider 2026 to reinitiate project planning, which may include technical review and data collection to better evaluate potential project developments, evaluation of partnership and land acquisition opportunities, and developing conceptual design and implementation scenarios. The timeline below is illustrative only based on the hypothetical advancement of a project out of the planning phase.

SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2026-2027	2027-2028	2029-2030
$50,000	$100,000	$400,000


MCWD CIP OVERVIEW
MINNEHAHA CREEK
Legend
MCWD Project Location
Minnehaha Creek Subwatershed
PROJECT LOCATION
BOONE-AQUILA FLOODPLAIN RESTORATION
Cedar Lake Road
Louisiana Avenue South
28th Street W
29th Street
Minnetonka Boulevard
31st Street West
Kentucky Avenue South
Jersey Avenue South
Texas Avenue South
Sumter Avenue South
Rhode Island Avenue South
St. Louis Park
36th Street West
Highway 7
Highway 100 South
Cambridge Street
Minnehaha Creek
Highway 169
Hopkins
Excelsior Boulevard
Yosemite Avenue South
Meadowbrook
Belmore Lane
Interlachen Boulevard
Edina Mill Pond
Minnetonka
Edina
Malibu Drive
Schaefer Road
Blake Road South
Highway 100
Harvey
Vernon Avenue
Melody
N
0 0.125 0.25 0.5
Miles

MINNEHAHA CREEK WATERSHED DISTRICT

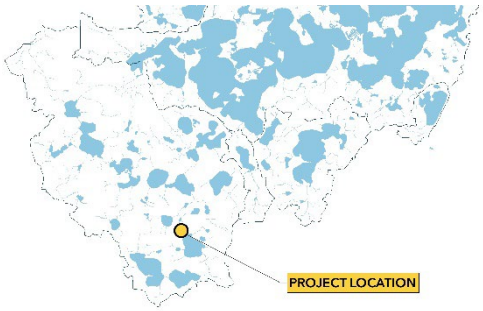
MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME
East Auburn Wetland Restoration

LOCATION
Victoria (Six Mile Creek-Halsted Bay)

TARGET WATERBODY
East Auburn Lake



DESCRIPTION

SCOPE
This project will reduce phosphorus export from an 11-acre degraded wetland at the outlet of Wassermann Lake through hydrologic restoration via a sheetpile weir.

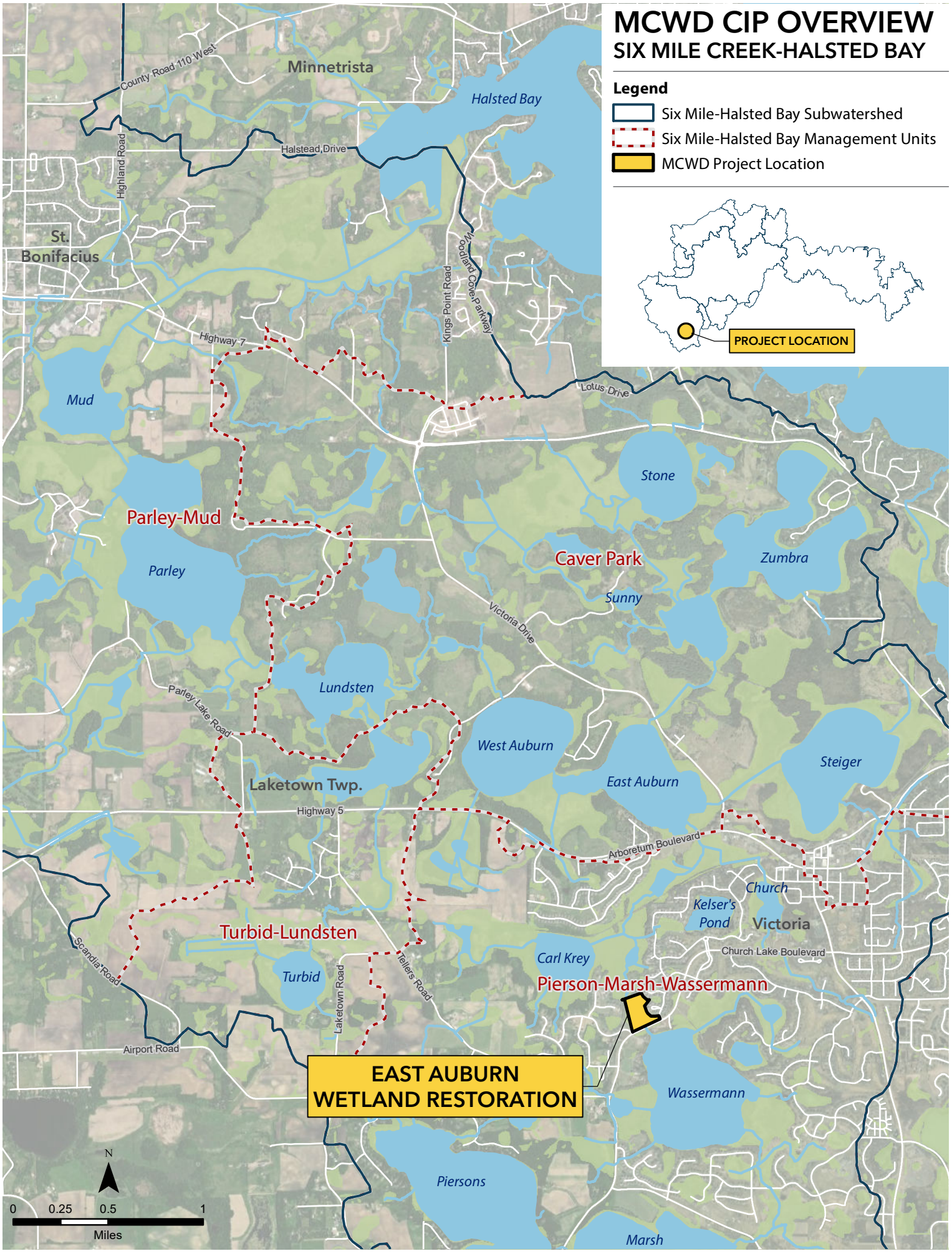
GOALS
The project will reduce phosphorus export to downstream East Auburn Lake by approximately 95 lbs/yr. Secondary benefits include wildlife habitat restoration and improvements to the city of Victoria's boardwalk trail.

JUSTIFICATION
East Auburn is an impaired waterbody requiring a total nutrient reduction of 626 lbs/yr, with 410 lbs/yr designated from the upstream watershed. This project will target a specific wetland cell at the outlet of Wassermann Lake that is identified to have the highest concentration of nutrient export to East Auburn Lake. Management methods for reducing nutrient output from degraded wetlands are not well established, and successful implementation may support the implementation of projects in similar wetland systems in the future.

WORKPLAN SUMMARY
In 2024, MCWD will seek to complete project design of the sheetpile weir and boardwalk improvement and establish partnership agreements with the City of Victoria. Pending design progress and Board consideration, construction is anticipated in 2025.

SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2023 – 2024	2024	2025
$50,000	$68,000	$482,000


MCWD CIP OVERVIEW
SIX MILE CREEK-HALSTED BAY
Legend
Six Mile-Halsted Bay Subwatershed
Six Mile-Halsted Bay Management Units
MCWD Project Location
PROJECT LOCATION
Minnetrista
St. Bonifacius
Halsted Bay
County Road 110 West
Halstead Drive
Highland Road
Kings Point Road
Woodland Cove Parkway
Highway 7
Lotus Drive
Mud
Stone
Parley-Mud
Parley
Caver Park
Zumbra
Sunny
Victoria Drive
Lundsten
Parley Lake Road
West Auburn
Steiger
East Auburn
Laketown Twp.
Highway 5
Arboretum Boulevard
Church
Kelser's Pond
Victoria
Church Lake Boulevard
Turbid-Lundsten
Scandia Road
Carl Krey
Pierson-Marsh-Wassermann
Turbid
Laketown Road
Telle's Road
Airport Road
EAST AUBURN WETLAND RESTORATION
Wassermann
Piersons
Marsh
N
0
0.25
0.5
1
Miles

MINNEHAHA CREEK WATERSHED DISTRICT

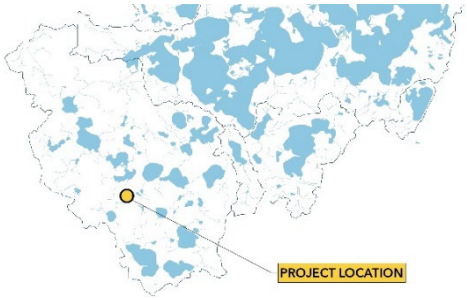
MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME
Turbid-Lundsten Corridor Restoration

LOCATION
Laketown Township (Six Mile Creek Halsted Bay)

TARGET WATERBODY
Turbid & South Lundsten Lakes



DESCRIPTION

SCOPE
Individual project(s) or a set of combined complementary projects will reduce phosphorus loading and export within this chain of lakes and the adjacent wetlands. Project opportunities to be evaluated include wetland and stream corridor restoration, internal load treatment using alum, and habitat corridor establishment.

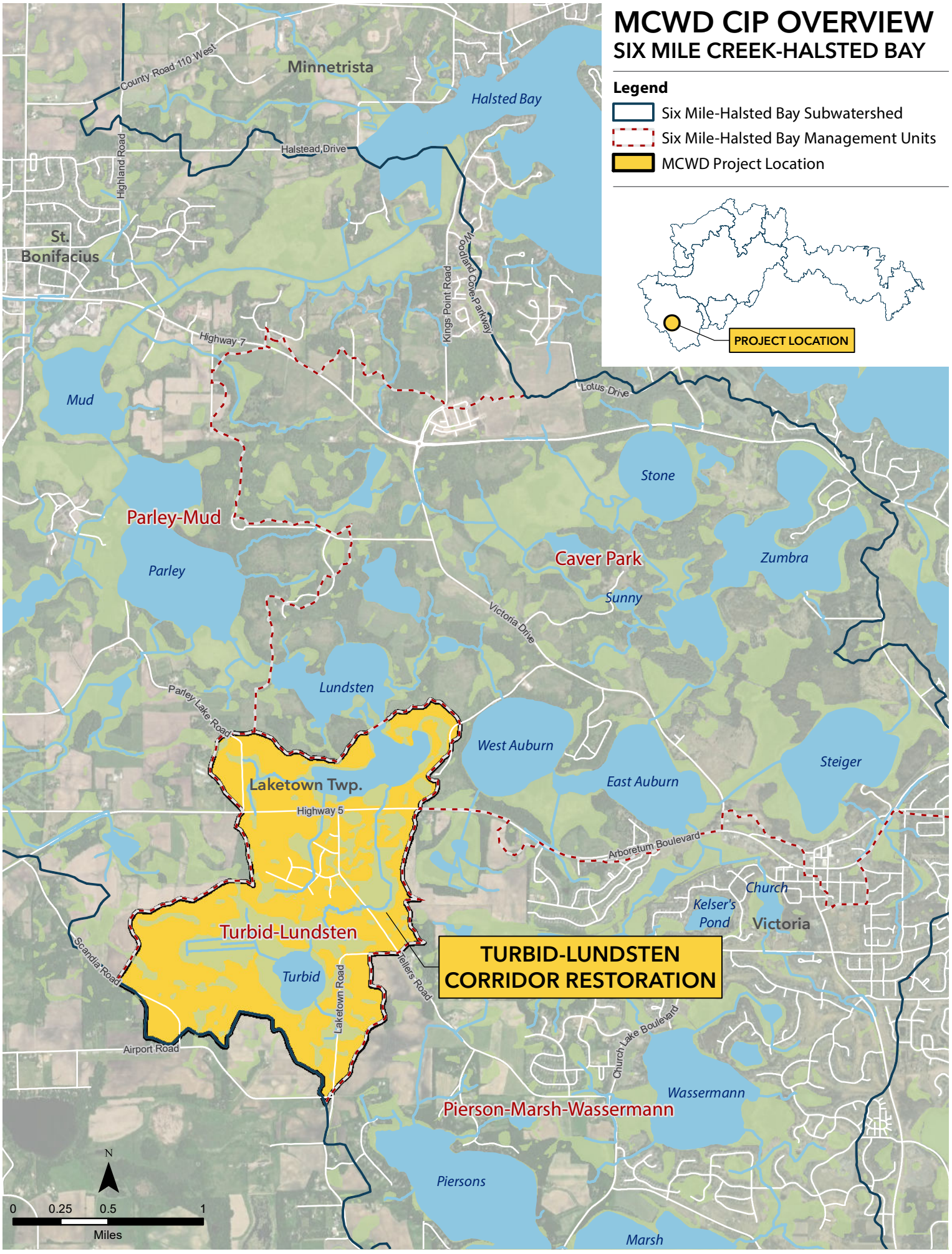
GOALS
Project benefits may include an approximate 35 lbs/yr nutrient reduction to Turbid Lake and 55 lbs/yr reduction to South Lundsten (based on 2012 feasibility); 90% reduction of the Turbid Lake internal phosphorus load; 95 acres of restored wetlands with associated ecological and hydrological benefits; and future integration with residential development and an expanding greenway corridor.

JUSTIFICATION
Turbid Lake is impaired for nutrients which is primarily due to internal loading. The lake requires a 138 lbs/yr phosphorus reduction under an approved TMDL. South Lundsten has very high phosphorus concentrations and a TMDL is being actively developed. The lost and altered wetlands around this small chain of lakes and internal loading are the principal drivers of degraded water quality. Previous feasibility studies have identified viable management strategies in this corridor.

WORKPLAN SUMMARY
MCWD is in the early planning phase for opportunities in this corridor. The scale of work will be dependent on land acquisition, potential partnerships, and the identification of feasible project opportunities, all of which will be explored through planning work 2024 and 2025. Projects identified for near term implementation will be advanced through the CIP. The timeline below is based on the assumption that a specific project is advanced out of the planning phase for near term implementation.

SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2024-2025	2025-2026	2026-2028
$155,000	$250,000	$2.8 million


MCWD CIP OVERVIEW
SIX MILE CREEK-HALSTED BAY
Legend
Six Mile-Halsted Bay Subwatershed
Six Mile-Halsted Bay Management Units
MCWD Project Location
PROJECT LOCATION
Minnetrista
St. Bonifacius
County Road 110 West
Halsted Bay
Halstead Drive
Highland Road
Kings Point Road
Woodland Cove Parkway
Highway 7
Lotus Drive
Mud
Stone
Parley-Mud
Parley
Caver Park
Zumbra
Sunny
Victoria Drive
Lundsten
Parley Lake Road
West Auburn
Steiger
East Auburn
Laketown Twp.
Highway 5
Arboretum Boulevard
Church
Kelser's Pond
Victoria
Turbid-Lundsten
TURBID-LUNDSTEN CORRIDOR RESTORATION
Scandia Road
Turbid
Laketown Road
Weiler's Road
Airport Road
Church Lake Boulevard
Wassermann
Pierson-Marsh-Wassermann
Piersons
Marsh
N
0
0.25
0.5
1
Miles

MINNEHAHA CREEK WATERSHED DISTRICT

MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME

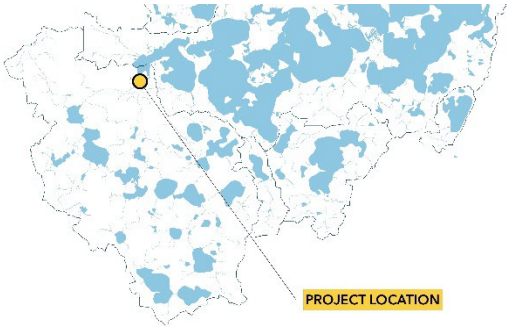
Lake Minnetonka-Halsted Bay Watershed Load Management

LOCATION

Minnetrista (Six Mile Creek Halsted Bay)

TARGET WATERBODY

Halsted Bay, Lake Minnetonka



DESCRIPTION

SCOPE

Evaluate the construction of a phosphorus removal facility which would pump water from Six Mile Creek, treat it using aluminum sulfate (alum), and discharge treated water into the Creek before entering Halsted Bay. Alum treatment to address internal loading in Halsted Bay may also be cosidered as a complementary component of this project.

GOALS

This project would reduce nutrient loading to Halsted Bay by an estimated 1,620 lbs/yr. If paired with an in-lake alum treatment, an additional 1,900 lbs/yr reduction could be achieved. Secondary benefits include increased water clarity, reemergence of aquatic habitat, and improved recreational value.

JUSTIFICATION

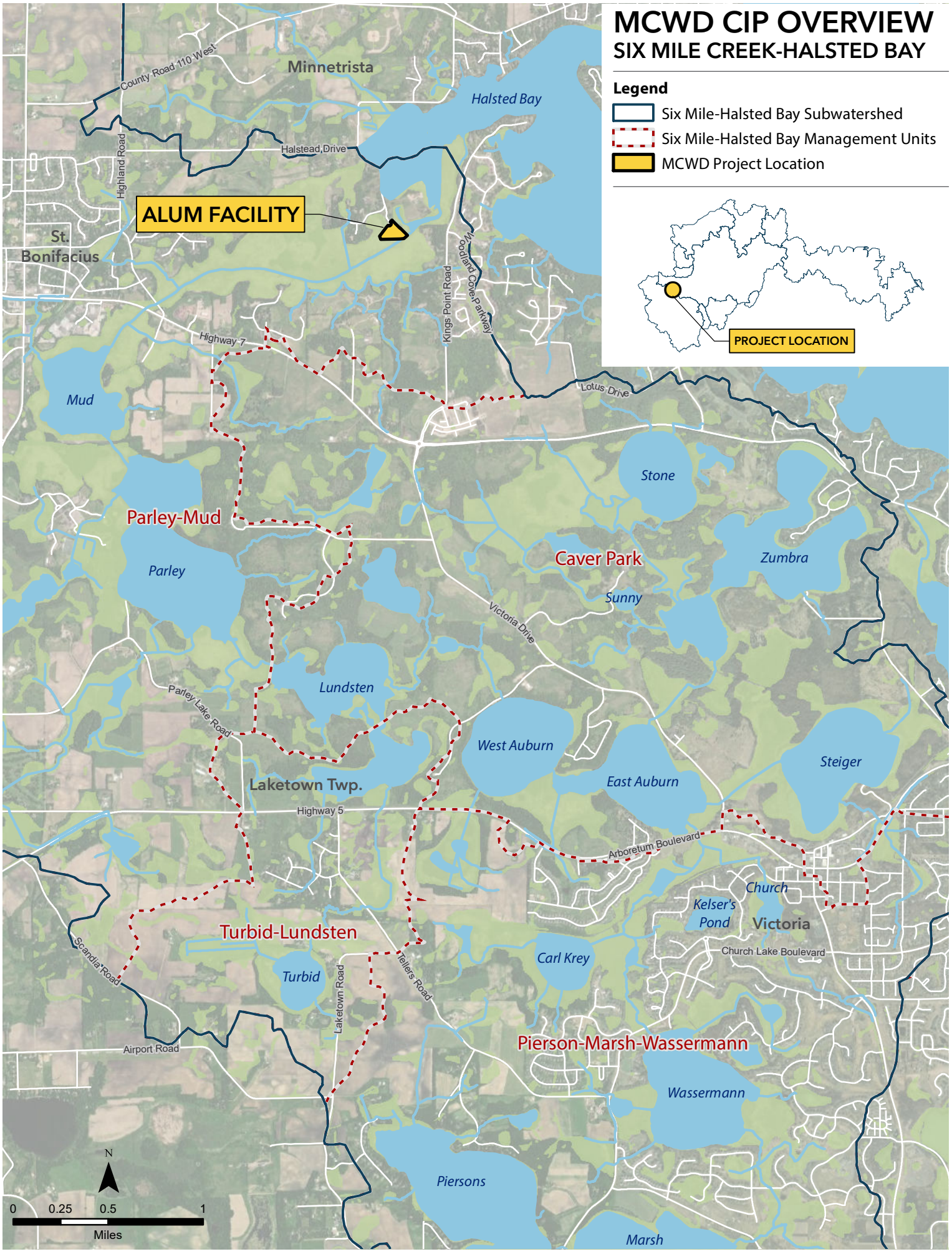
Halsted Bay is impaired for nutrients and requires the largest phosphorus load reduction of any waterbody in the MCWD. Preliminary feasibility assessments identified that 50% of the nutrient load to Halsted Bay is from the Six Mile Marsh wetland (40% internal load, 10% other watershed load), requiring a 2,000 lbs/yr nutrient load reduction. The vast majority of nutrient input to Halsted Bay is dissolved phosphorus, which requires chemical treatment for removal. Meeting state water quality standards in Halsted Bay will require addressing both watershed and internal loading.

WORKPLAN SUMMARY

MCWD plans to commence the project planning phase in fall 2024 and will continue through 2025. Preliminary work will focus on reviewing the 2012 feasibility report and validating the conceptual design; meeting with project partners to initiate discussions around facility operations, regulatory frameworks, and funding; and developing a project outreach plan. Consideration of advancing the project into design will be carefully considered by MCWD's Board in collaboration with project partners.

SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2024 – 2026	2027-2028	2028 – 2030
$125,000	$2,600,000	$10.4 million


MCWD CIP OVERVIEW
SIX MILE CREEK-HALSTED BAY
Legend
Six Mile-Halsted Bay Subwatershed
Six Mile-Halsted Bay Management Units
MCWD Project Location
PROJECT LOCATION
ALUM FACILITY
Minnetrista
Halsted Bay
County Road 110 West
Halstead Drive
Highland Road
St. Bonifacius
Kings Point Road
Woodland Cove Parkway
Highway 7
Lotus Drive
Mud
Stone
Parley-Mud
Parley
Caver Park
Zumbra
Sunny
Victoria Drive
Lundsten
Parley Lake Road
West Auburn
Steiger
East Auburn
Laketown Twp.
Highway 5
Arboretum Boulevard
Church
Kelser's Pond
Victoria
Church Lake Boulevard
Turbid-Lundsten
Scandia Road
Carl Krey
Turbid
Laketown Road
Keller's Road
Airport Road
Pierson-Marsh-Wassermann
Wassermann
Piersons
Marsh
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1
Miles

MINNEHAHA CREEK WATERSHED DISTRICT

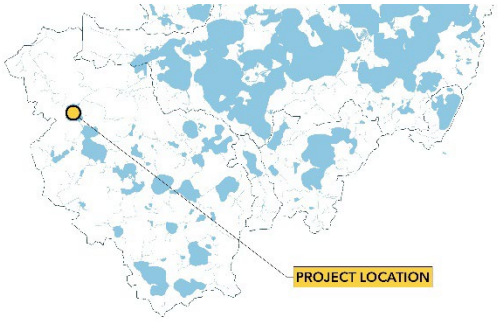
MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME
Mud Lake Watershed Load Reductions

LOCATION
Minnetrista, St. Bonifacius (Six Mile Creek Halsted Bay)

TARGET WATERBODY
Mud Lake, Halsted Bay



DESCRIPTION

SCOPE
Individual project or projects to reduce nutrient loading in the Mud Lake subwatershed which may include wetland retoration, regional stormwater treatment, and existing stormwater facility retrofits.

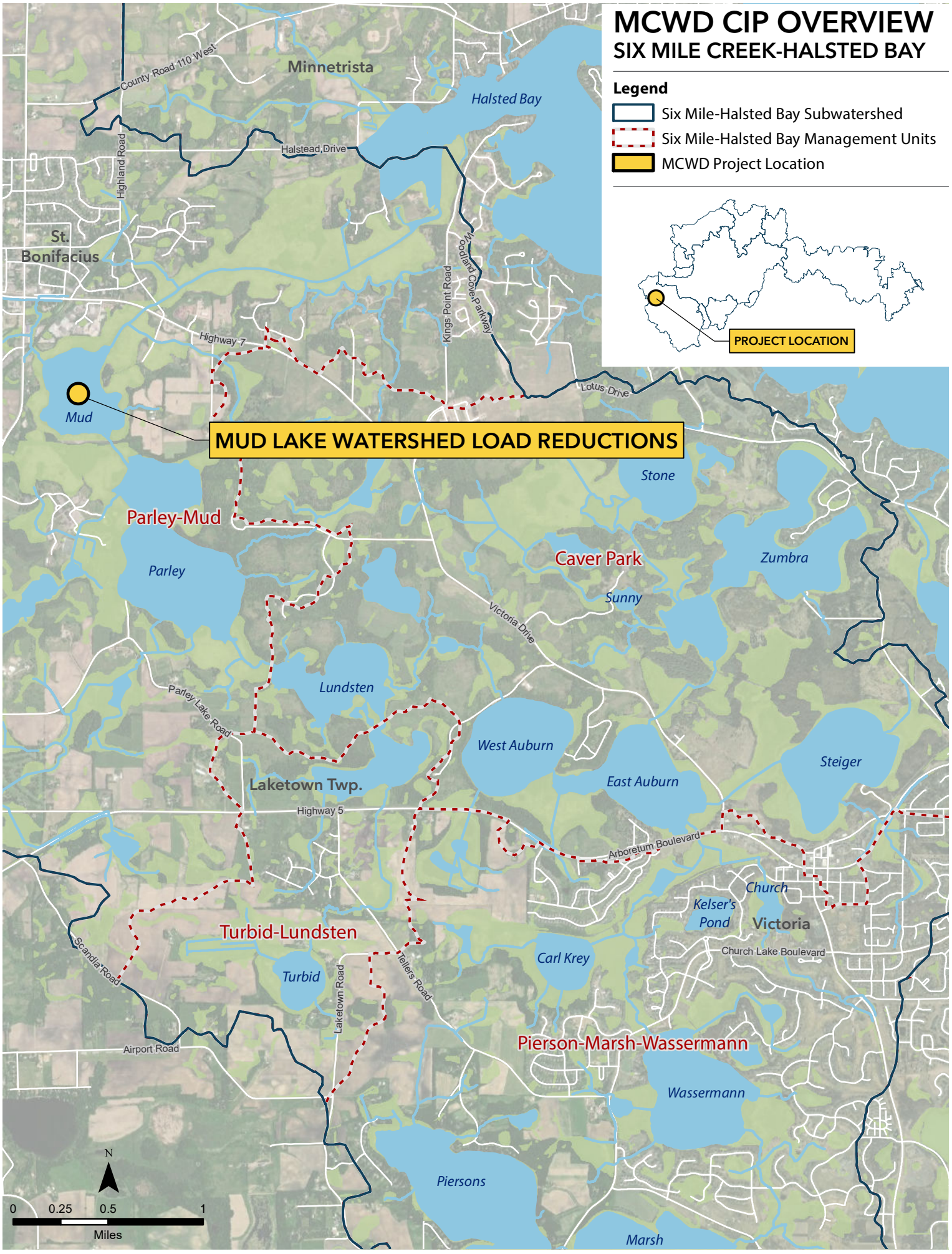
GOALS
The primary purpose of these projects are to reduce nutrient loading to Mud Lake. Phosphorus sources to Mud Lake are diffuse and implementation will take place in a phased approach, targeting the most cost-effective and highest impact projects first.

JUSTIFICATION
The 2013 Six Mile Diagnostic identified Mud Lake as having very poor water quality, driven by a combination of internal loading, upstream lake water quality, and watershed loading. Reductions between 78% and 95% (1,864 lbs/yr – 2,258 lbs/yr) from the direct watershed are needed to shift the ecological condition of Mud Lake and address downstream impacts to Halsted Bay. Halsted Bay requires the largest phosphorus load reduction in the District and 50% of its load comes from upstream Mud Lake via the Six Mile Marsh wetland complex.

WORKPLAN
MCWD completed a study in 2018 that evaluated a range of project opportunities to address nutrient loading to Mud Lake. In 2026, MCWD plans to initiate planning to reevaluate the technical assumptions, preliminary feasibility, and property rights in order to develop a multiphase implementation strategy. The timeline below is based on the hypothetical identification of a project or series of projects through that early planning work. The construction cost assumes a phased implementation approach.

SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2026-2027	2028	2029+
$75,000	$618,000	$2.4 million


MCWD CIP OVERVIEW
SIX MILE CREEK-HALSTED BAY
Legend
Six Mile-Halsted Bay Subwatershed
Six Mile-Halsted Bay Management Units
MCWD Project Location
PROJECT LOCATION
MUD LAKE WATERSHED LOAD REDUCTIONS
Minnetrista
Halsted Bay
County Road 110 West
Halstead Drive
Highland Road
St. Bonifacius
Highway 7
Kings Point Road
Woodland Cove Parkway
Lotus Drive
Mud
Stone
Parley-Mud
Parley
Caver Park
Zumbra
Sunny
Victoria Drive
Lundsten
Parley Lake Road
West Auburn
Steiger
East Auburn
Laketown Twp.
Highway 5
Arboretum Boulevard
Church
Kelser's Pond
Victoria
Church Lake Boulevard
Turbid-Lundsten
Scandia Road
Carl Krey
Turbid
Laketown Road
Telle's Road
Airport Road
Pierson-Marsh-Wassermann
Wassermann
Piersons
Marsh
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1
Miles

MINNEHAHA CREEK WATERSHED DISTRICT

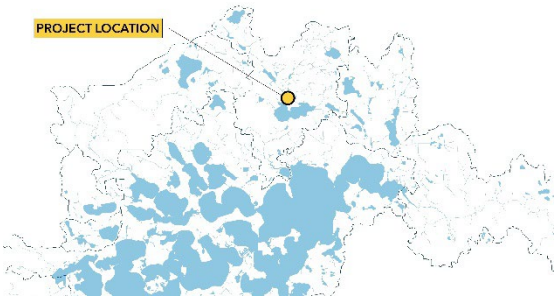
MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME
County Road 6 Pond Retrofit

LOCATION
Orono (Long Lake Creek)

TARGET WATERBODY
Long Lake



DESCRIPTION

SCOPE
Proposed retrofit of an existing MCWD stormwater pond providing downstream treatment of both the Wolsfeld and Holy Name management units through the addition of a sand filtration bench to improve water quality treatment capacity.

GOALS
Reduce phosphorus loading to Long Lake by approximately 67 lbs/yr while substantially reducing TSS loading.

JUSTIFICATION
Long Lake is impaired for nutrients and requires a 62% (411 lbs) reduction to meet state water quality standards, including 195 lbs/yr from watershed sources. Monitoring of the County Road 6 pond in 2021 indicates that the pond is underperforming its original design intent, presenting an opportunity for retrofitting to make additional progress towards the watershed load reduction goal. With other projects in the subwatershed reliant on land use change, this presents a short term implementation opportunity on land which MCWD presently owns and manages.

WORKPLAN SUMMARY
In 2024, MCWD intends to complete project design and bid the project. Pending the completion of project design, Board consideration, and bid outcomes, MCWD anticipates project construction in 2025.

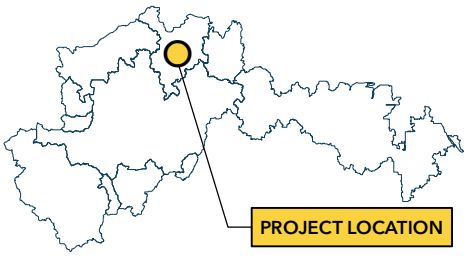
SCHEDULE + BUDGET

PLANNING	DESIGN	CONSTRUCTION
2023	2024	2025
$25,000	$168,000	$560,000

MCWD CIP OVERVIEW
LONG LAKE CREEK

Legend

- Long Lake Creek Subwatershed
- MCWD Project Location



COUNTY ROAD 6 POND IMPROVEMENT PROJECT

Hamel Road
School
Medina
County Road 24
Tamarack Drive
Homestead Trail
Deer Hill Road
Wolsfeld
Plymouth
6th Avenue North
Mooney
Dickey's
Classen
Lydiard
Long
Unnamed
Long Lake
Wayzata Boulevard West
Highway 12
Old Crystal Bay Road North
Watertown Road
Willow Drive South
Old Crystal Bay Road South
Fox Street
Brown Road South
Wayzata
Orono
Tanager
Shoreline Drive
North Shore Drive
Woodland
Deephaven
Minnetonka Beach
Minnetonka

N

0 0.25 0.5 1

Miles

MINNEHAHA CREEK WATERSHED DISTRICT

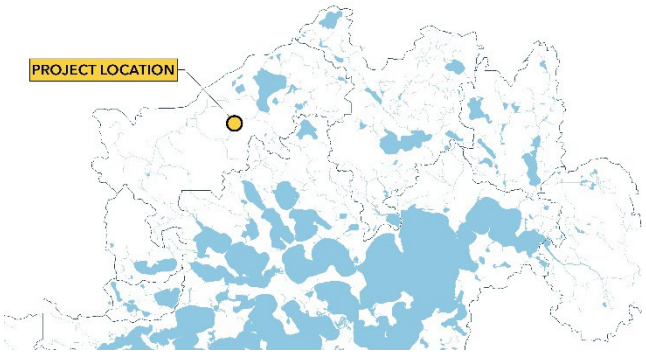
MULTI-YEAR CAPITAL IMPROVEMENT PLAN 2025-2029

OVERVIEW

PROJECT NAME
Painter Creek Wetland Restorations

LOCATION
Independence, Medina, Minnetrista, Orono
(Painter Creek Subwatershed)

TARGET WATERBODY
Jennings Bay, Lake Minnetonka



DESCRIPTION

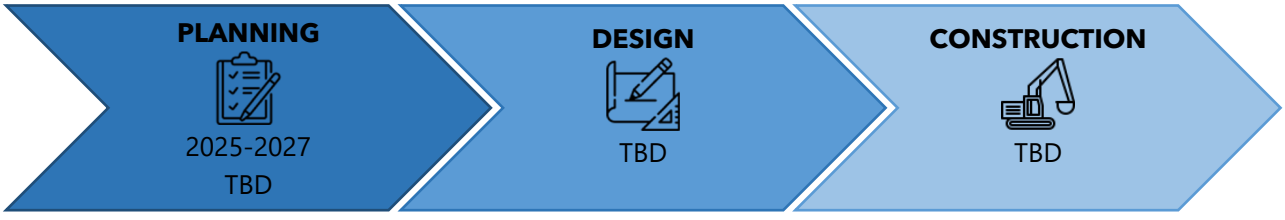
SCOPE
Proposed development of a systematic implementation plan for the subwatershed that protects and improves the ecological integrity of the extensive wetland network through hydrologic and vegetative wetland restorations while addressing nutrient loading to downstream Jenning's Bay.

GOALS
The development of specific project goals will be a component of the implementation plan. Target goals may include increased wetland habitat diversity, reduced sedimentation and pollutant loading, and hydrologic restoration.

JUSTIFICATION
The Painter Creek Subwatershed is a regionally significant subwatershed that contains a number of large wetlands, many of which have been ditched or otherwise altered, that are connected by Painter Creek. Painter Creek contributes an estimated 33-50% of the total annual phosphorus load to Jennings Bay on Lake Minnetonka, which is impaired. The MCWD has previously established a partnership with the United States Army Corps of Engineers (USACE), which identified the potential restoration of four of the major wetland marsh systems under the Federal Section 206 Program, which may provide funding and implementation assistance for projects in the subwatershed.

WORKPLAN SUMMARY
Prior to commencing project work in the Painter Creek Subwatershed, MCWD will systematically develop an implementation framework that integrates natural resource goals, local context, and the previous work completed in partnership with the USACE. Initial planning work will start in 2025 with a comprehenisve subwatershed assessment, lead by MCWD's Research and Monitoring team.

SCHEDULE + BUDGET



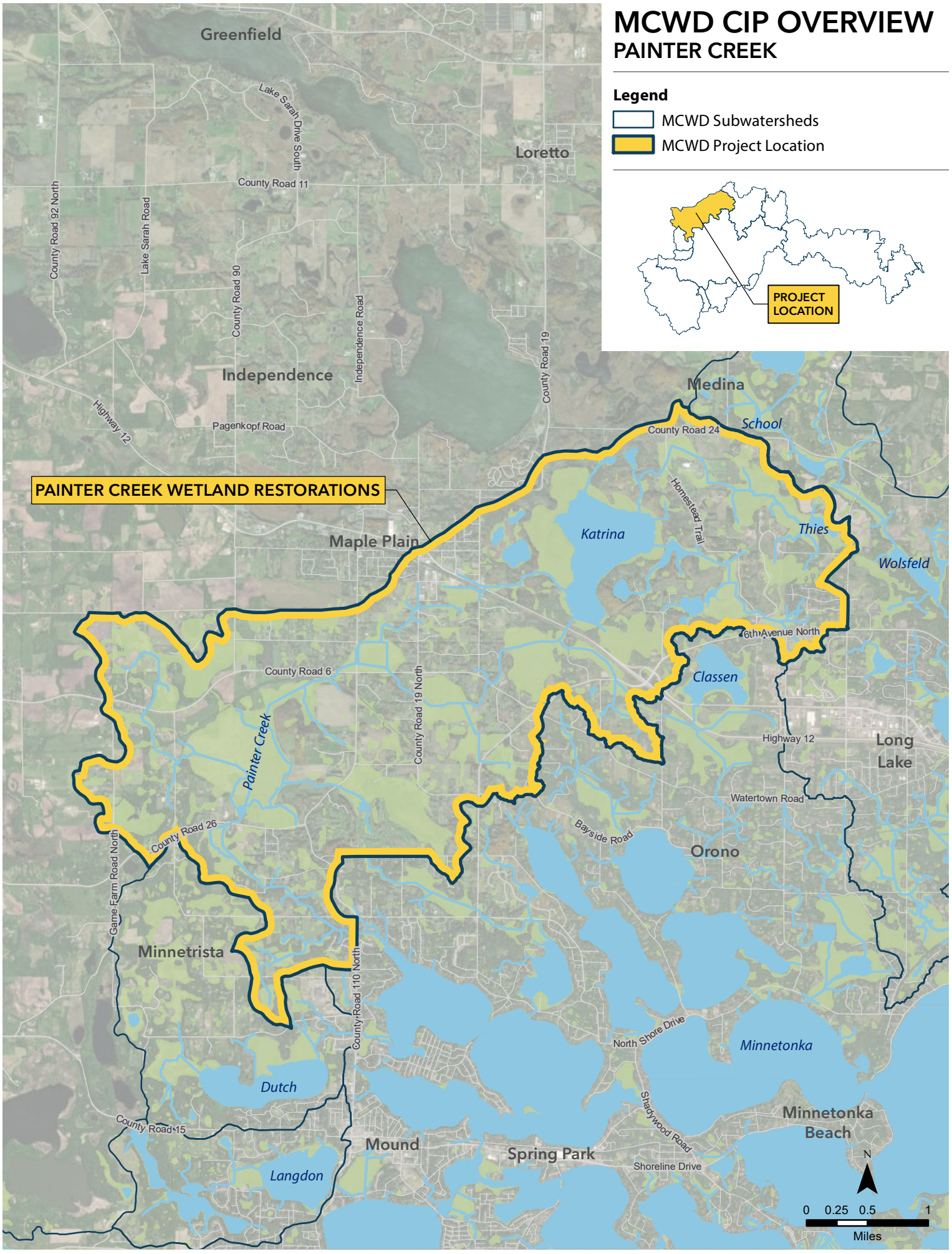

MCWD CIP OVERVIEW
PAINTER CREEK
Legend
MCWD Subwatersheds
MCWD Project Location
PROJECT LOCATION
PAINTER CREEK WETLAND RESTORATIONS
Greenfield
Loretto
Independence
Medina
Maple Plain
Minnetrista
Orono
Long Lake
Mound
Spring Park
Minnetonka Beach
Minnetonka
Dutch
Langdon
Katrina
Classen
Thies
Wolsfeld
School
Painter Creek
Lake Sarah Drive South
County Road 11
County Road 92 North
Lake Sarah Road
County Road 90
Independence Road
County Road 19
Highway 12
Pagenkopf Road
County Road 24
Homestead Trail
6th Avenue North
County Road 6
County Road 19 North
Watertown Road
Bayside Road
County Road 26
Game Farm Road North
County Road 110 North
North Shore Drive
Shadywood Road
Shoreline Drive
County Road 15
N
0 0.25 0.5 1
Miles

Table 3.8. Lake Minnetonka Subwatershed CIP

Project	Stormwater Volume and Pollutant Load Reduction
Description	Implementation of opportunities to reduce stormwater volumes and nutrient loading to Lake Minnetonka, including but not limited to construction of infiltration or filtration basins and devices, reforestation, revegetation, and stormwater detention or redirection.
Need	Four bays (Halsted, Jennings, West Arm, Stubbs) and Forest Lake are listed on the State's Impaired Waters List due to excess nutrients. A TMDL identified a need to reduce external phosphorus loading by 60% (116 pounds) to Forest Lake, 73% (2087 lbs) to Halsted Bay, 72% (1563 lbs) to Jennings Bay, and 51% (142 lbs) to Stubbs Bay. Opportunities to reduce stormwater volume and pollutant loading to non-impaired bays will also be considered to protect and improve water quality throughout Lake Minnetonka.
Outcome	Reduction of pollutant loading to Lake Minnetonka; reduction of stormwater runoff volume and rate and associated impacts; protection and enhancement of groundwater recharge, stream base flow, and wetland hydrology.
Estimated Cost	Capital costs: $1,000,000, excluding land, in 2017 dollars.
Potential Funding Sources	District levy, partner contributions, grants
Schedule	2018-2027