



COON CREEK
WATERSHED DISTRICT

2025 Pleasure Creek SWA Annual Update

3/25/2025



Agenda

- Water Resource Situation Update
- 2024 Activity Summary
- Goal/Objective Progress
- New Opportunities
- 2025 Implementation Planning
- Future Budget Needs

Expected Meeting Outcomes:

- *Provide major updates to situation*
- *Identify any new opportunities to be included in Implementation Plan*
- *Discuss 2025 planned items on the Implementation Plan*
 - *Budgeting and project leads*



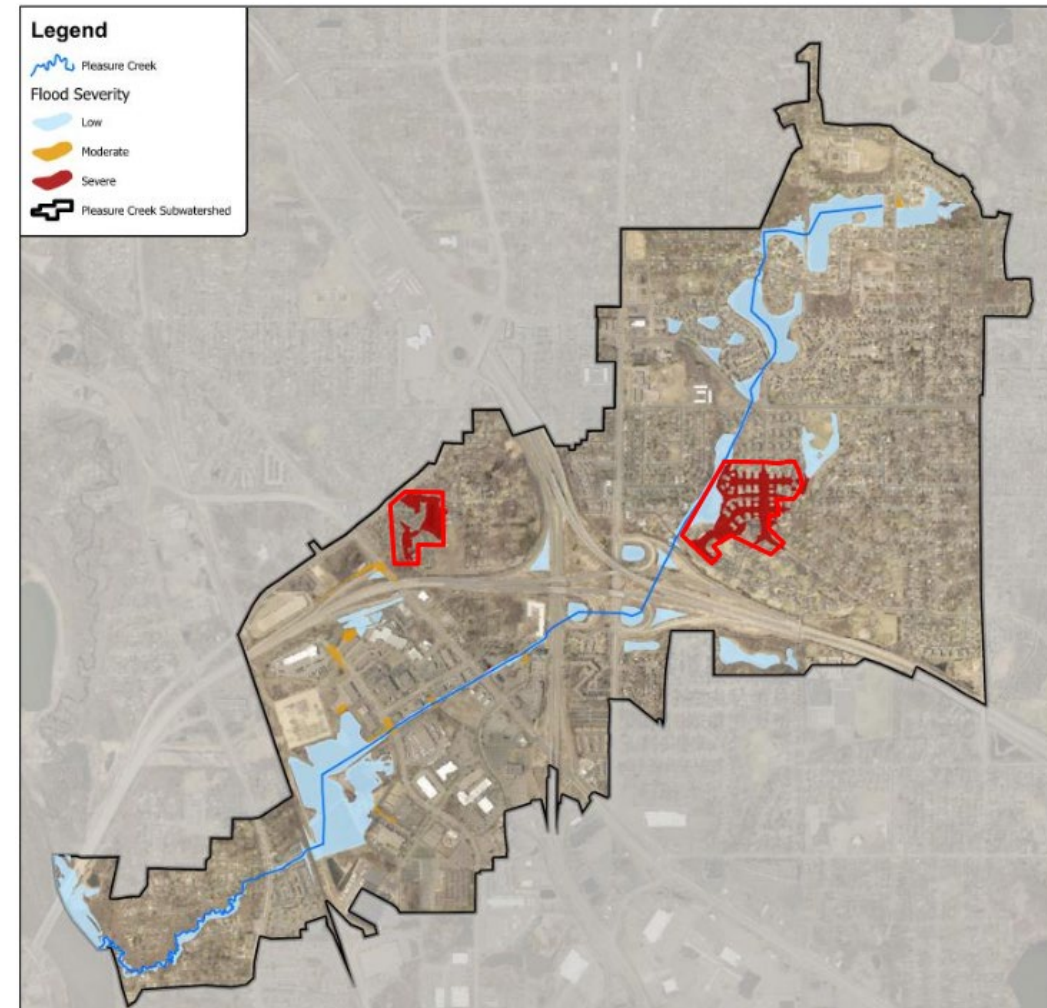
Water Resource Situation

Water Quality Impairments

- Aquatic Life
 - High sediment levels
 - Slightly high phosphorus (good progress!)
 - **High chloride**
 - Poor habitat/altered hydrology
- Aquatic Recreation
 - High E.coli
 - Sewage and pathogens

Flooding Issues

- 9 habitable structures in Coon Rapids (west area)
- ~~• 12 habitable structures in Blaine (east area)~~
- 0 habitable structures! Flooded streets ~ 96th Ln in Blaine (east area)



City/MS4	% Area of Watershed
ACHD	13
Blaine	44
CCWD	9
Coon Rapids	34



2024 Situation Updates

Water Quality

- Chloride levels rising (groundwater sourced)
- Altered hydrology/flashiness

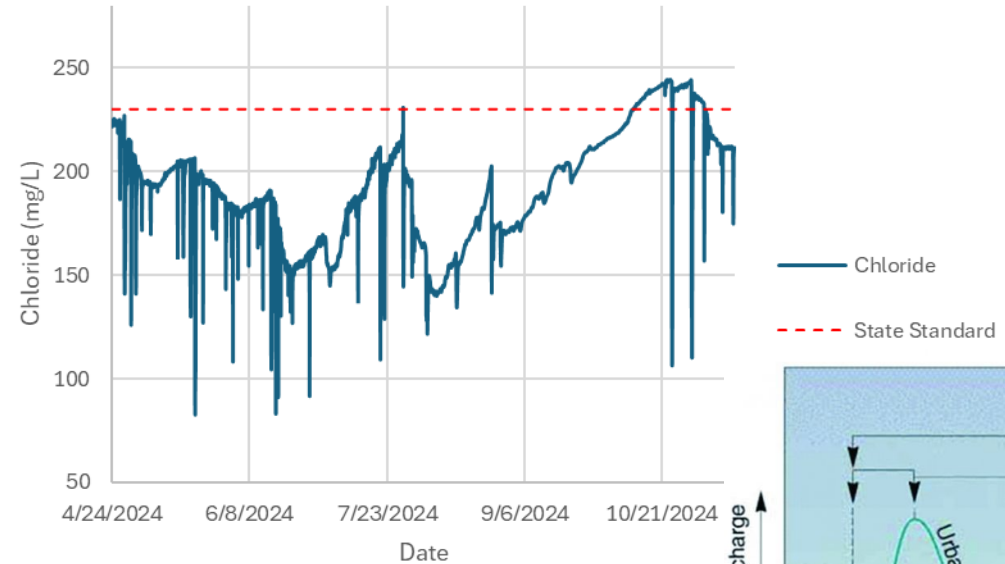
Flooding

- No structural flooding in “East Area” in Blaine
- Confirmed potential severe structural flooding in “West Area” in Coon Rapids

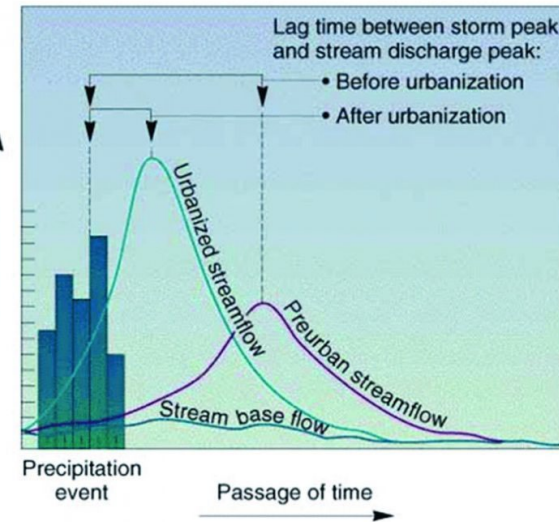
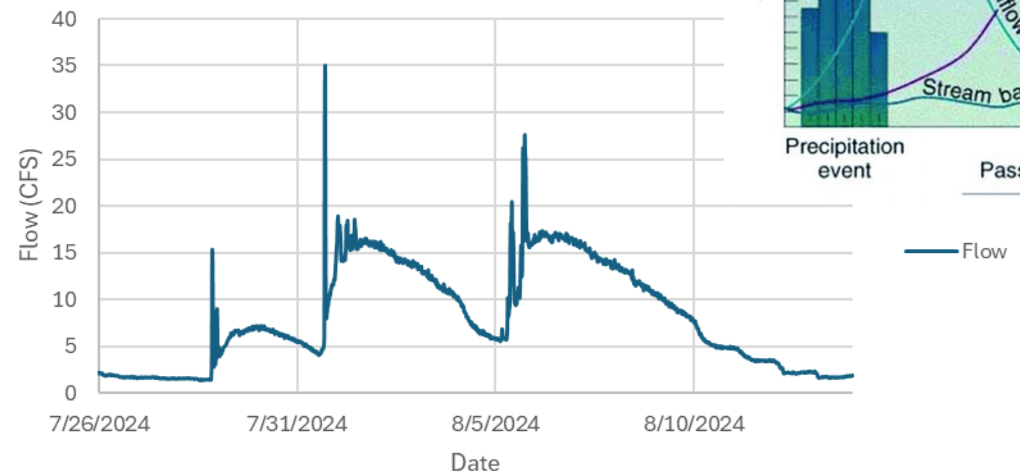
Other

- Mostly normal precipitation (3.3” or 15% above average precip)

Pleasure Creek Chloride



Pleasure Creek Flow



2024 Activity Highlights

West Area Flood Study

- Model was calibrated/verified for Mason Park Pond
- ~10 units with 3' flooding in 100y event
- No obvious solution. City to consider potential options.

East Area Flood Study

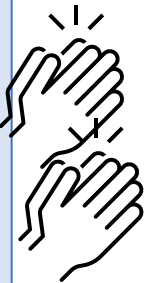
- Calibration verified model results
- Model updates removed structures from FP
- 96th Ln & Cloverleaf Prkwy have about 2' flooding in 100yr event

Shallow GW Chloride Study



- Projects to model/measure GW chloride kicked off
- UofM project installed 6 monitoring wells
- USGS model to be completed in 2025
- Goal is to refine understanding, eventually inform mitigation strategies

Sweeping/Sweeping Piles!

- Coon Rapids removed entire MnDOT pond sweeping pile!
- Coon Rapids planning to increase efforts for 2025
- Blaine planning to increase efforts in 2025



Goal Progress

Goal 1: Limit the potential for flood damages within the Pleasure Creek subwatershed by 2035.																					
1.1 Identify and remove or protect all habitable structures within the 1% annual exceedance probability (100-year) event floodplain.	<ul style="list-style-type: none"> - Survey data for all potential structures in 1% floodplain was collected - Removed East Area structures (12) with updated model and info 																				
1.2 Identify locations where road inundation depth for the 10% annual exceedance probability (10-year) may exceed 6" at the crown and develop and implement actions to minimize extent and duration of street flooding.	<ul style="list-style-type: none"> - Model predicts no roads are inundated 6" in 10-yr event - Objective accomplished 																				
Goal 2: To reduce flooding and flood damage																					
2.1 Undertake load reduction projects and practices to achieve and maintain the wasteload reductions set forth in the Coon Creek Watershed TMDL or other TMDLs that apply to discharge from the Coon Creek Watershed.		<table border="1"> <thead> <tr> <th></th> <th>TMDL Goal</th> <th>Reduction to date</th> <th>TMDL % Achievement</th> </tr> </thead> <tbody> <tr> <td>TP</td> <td>30 lbs</td> <td>27 lbs</td> <td>90%</td> </tr> <tr> <td>TSS</td> <td>73 tons</td> <td>4 tons</td> <td>5%</td> </tr> <tr> <td>E. Coli</td> <td>10,082 bill orgs</td> <td>1,526 billion orgs</td> <td>15%</td> </tr> </tbody> </table>		TMDL Goal	Reduction to date	TMDL % Achievement	TP	30 lbs	27 lbs	90%	TSS	73 tons	4 tons	5%	E. Coli	10,082 bill orgs	1,526 billion orgs	15%			
	TMDL Goal	Reduction to date	TMDL % Achievement																		
TP	30 lbs	27 lbs	90%																		
TSS	73 tons	4 tons	5%																		
E. Coli	10,082 bill orgs	1,526 billion orgs	15%																		
2.2 Implement the non-pollutant stressor mitigation actions identified in the Biotic TMDL.	<ul style="list-style-type: none"> - none in 2024 																				
Goal 3: Work jointly and cooperatively with CCWD, City, County, State, and private partners to achieve the goals and objectives of this Subwatershed Plan.																					
3.1 Meet at least annually, prior to March 15, to review progress and plan future implementation actions.	<ul style="list-style-type: none"> - Objective accomplished 																				
3.2 At least every five years formally review progress and update this Subwatershed Plan.	<ul style="list-style-type: none"> - Scheduled for 2027 																				
3.3 At least every five years complete a Community Survey to assess awareness gaps of residents.	<ul style="list-style-type: none"> - Scheduled for 2027 																				



2024 Implementation Plan

Color Coding Key	
	= activity will be cost-shared
	= activity will be funded by lead MS4/owner

Project Info				Responsible Parties		Project Timeline					Notes
ID	Type	Name	Status	Lead	Involved	2024	2025	2026	2027	2028	
1	Planning	Detailed Study and Survey of East Area	Ongoing	CCWD	CCWD, BL	\$ 20,000					data collected, all \$ carried over. JJ scheduling kickoff soon.
2	Planning	Detailed Study of West Area	Ongoing	CCWD	CCWD, CR	\$ 10,000					data collected, all \$ carried over
1	Improvement	Cloverleaf Park WQ BMP	Not started	Blaine	CCWD, BL, CR	\$ 440,000					Design in Feb 2024. Construction likely in late 2024 - 2025. Above and beyond TBD
2	Improvement	Swan Park WQ BMP	Not started	Blaine	CCWD, BL, CR	\$ 170,000					Design in late 2024. Construction likely in 2025. Above and beyond TBD
3a	Improvement	96th Lane Pond (Study)	Not started	Blaine	BL	\$ 40,000					Blaine leading survey and feasibility in 2024.
3b	Improvement	96th Lane Pond (Design and Construction)	Not started	Blaine	CCWD, BL, CR			\$ 560,000			Contingent on 96th Ln Pond study. Construction (450K) budgeted for design & construction in 2026
4	Improvement	Sweeping Pile Housekeeping	Ongoing	Coon Rapids	CCWD, CR	\$ 20,000					Need to install temporary measures at least
5	Improvement	MnDOT Pond Outlet Retrofit	Not started	CCWD	All	\$ 21,000	\$ 150,000	\$ 12,000	\$ 12,000	\$ 12,000	Study and then implementation (range is 22-100K) follows % of subwatershed area
5.1	Improvement	Woodbridge Channel Improvement	Not Started	CCWD	All +HOA		\$ 100,000				Channel between ERR and BNSF - clearing trees around channel and improve channel bank stability - would help with MNDOT pond outlet retrofit - HOA would cost share
7	Improvement	Streambank Repairs and Stabilization	Not started	CCWD	CCWD		\$ 10,000		\$ 10,000		Every 2-3 years, range of 5-15K, none schedule for 2024, pending results of outlet study
9	Improvement	Implement enhanced street sweeping	Not started	BL, CR, ACHD	All		TBD	TBD	TBD	TBD	CR to purchase trommel screener for future added capacity
4	Protection	Chloride Management	Ongoing	All	All						Encourage smart salting training for applicators
1	Engagement	Comms and Engagement Plan and Implementation	Ongoing	CCWD	All	TBD	TBD	TBD	TBD	TBD	
1	Engagement	Pet Waste	Ongoing	CCWD	All	\$ 2,870	\$ 2,870	\$ 2,870	\$ 2,870	\$ 2,870	
Totals						\$ 723,870	\$ 262,870	\$ 574,870	\$ 24,870	\$ 14,870	



2025 Implementation Plan

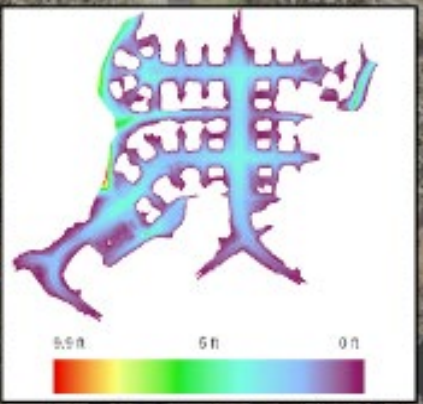
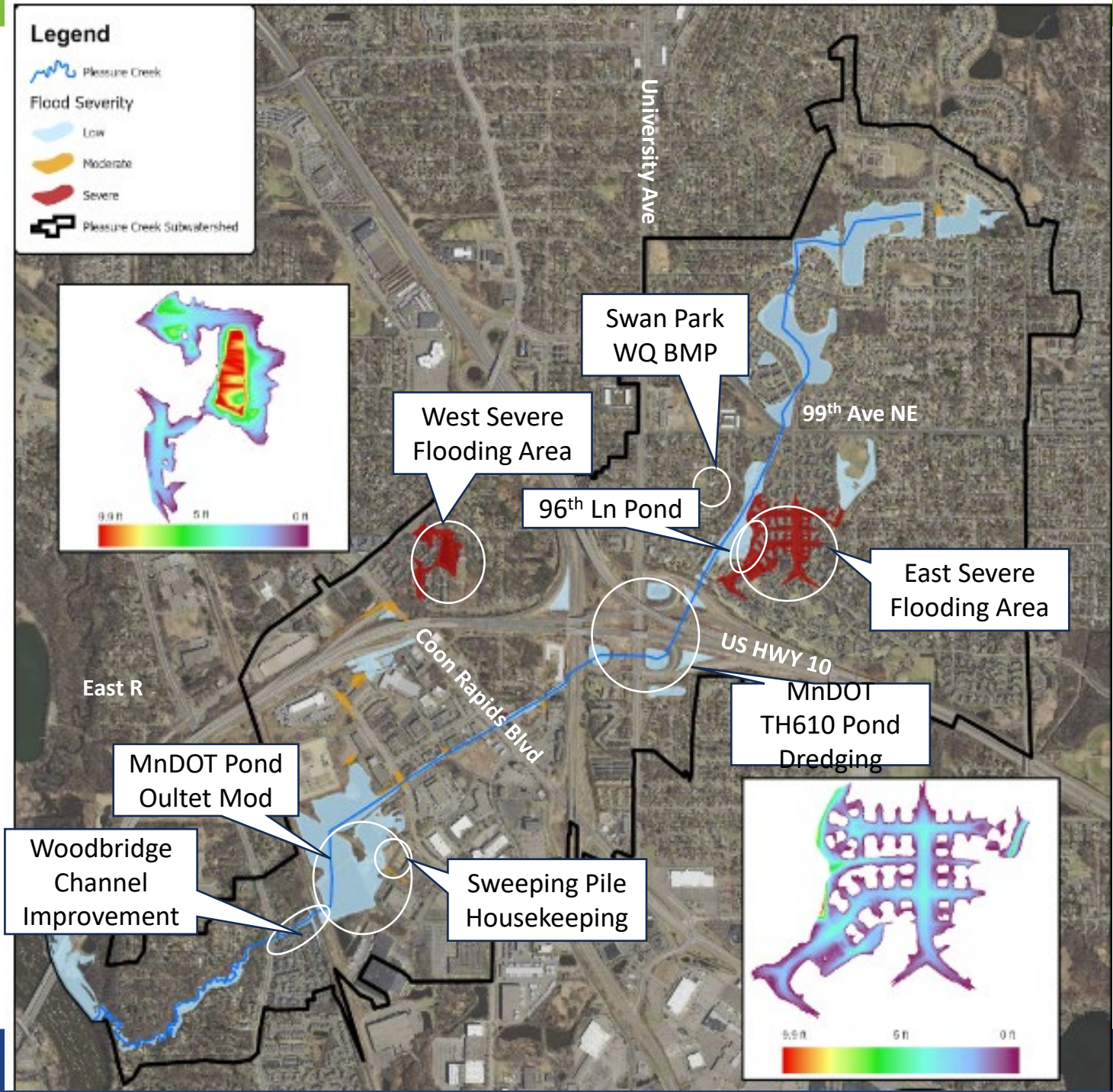
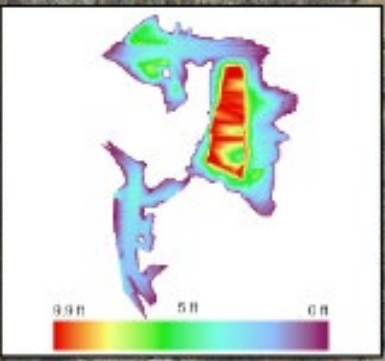
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Project Info				Responsible Parties		Years					
ID	Type	Name	Status	Lead	Involved	2024	2025	2026	2027	2028	Totals
1	Planning	Detailed Study and Survey of East Area	Complete	CCWD	CCWD, BL	\$ 20,000					\$ 20,000
2	Planning	Detailed Study of West Area	Complete	CCWD	CCWD, CR	\$ 10,000					\$ 10,000
2	Improvement	Swan Park WQ BMP	Not started	Blaine	CCWD, BL, CR			\$ 170,000			\$ 170,000
3a	Improvement	96th Lane Pond (Study)	Not started	Blaine	BL		\$ 40,000				\$ 40,000
3b	Improvement	96th Lane Pond (Design and Construction)	Not started	Blaine	CCWD, BL, CR				\$ 560,000		\$ 560,000
4	Improvement	Maximize MnDOT Pond Treatment (sweeping piles)	Complete	Coon Rapids	CCWD, CR	\$ 20,000					\$ 20,000
5	Improvement	MnDOT Pond Outlet Retrofit (Design)	Ongoing	CCWD	All	\$ 21,000	\$ 87,000				\$ 108,000
5.1	Improvement	MnDOT Pond Outlet Retrofit (Construct)	Not started	CCWD	All		\$ 110,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 116,000
5.2	Improvement	Woodbridge Channel Improvement	Ongoing	CCWD	CCWD		\$ 100,000				\$ 100,000
6	Improvement	Habitat Enhancement	On Hold	CCWD	All						\$ -
7	Improvement	Streambank Repairs and Stabilization	Not started	CCWD	CCWD		\$ 10,000				\$ 10,000
9	Improvement	Implement enhanced street sweeping	Ongoing	BL, CR, ACHD	All						\$ -
4	Protection	Chloride Management	Ongoing	All	All						\$ -
1	Engagement	Communications and Engagement Plan and Implementation	Ongoing	CCWD	All	\$ 19,900	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 39,900
1	Engagement	Pet Waste	Ongoing	CCWD	CCWD	\$ 2,870	\$ 2,870	\$ 2,870	\$ 2,870	\$ 2,870	\$ 17,220
TOTALS						\$ 93,770	\$ 354,870	\$ 179,870	\$ 569,870	\$ 9,870	\$ 1,316,520



Legend

- Pleasure Creek
- Flood Severity**
- Low
- Moderate
- Severe
- Pleasure Creek Subwatershed



Critical Project Discussion

- ✓ MnDOT Pond Outlet Retrofit



MnDOT Pond Outlet Retrofit

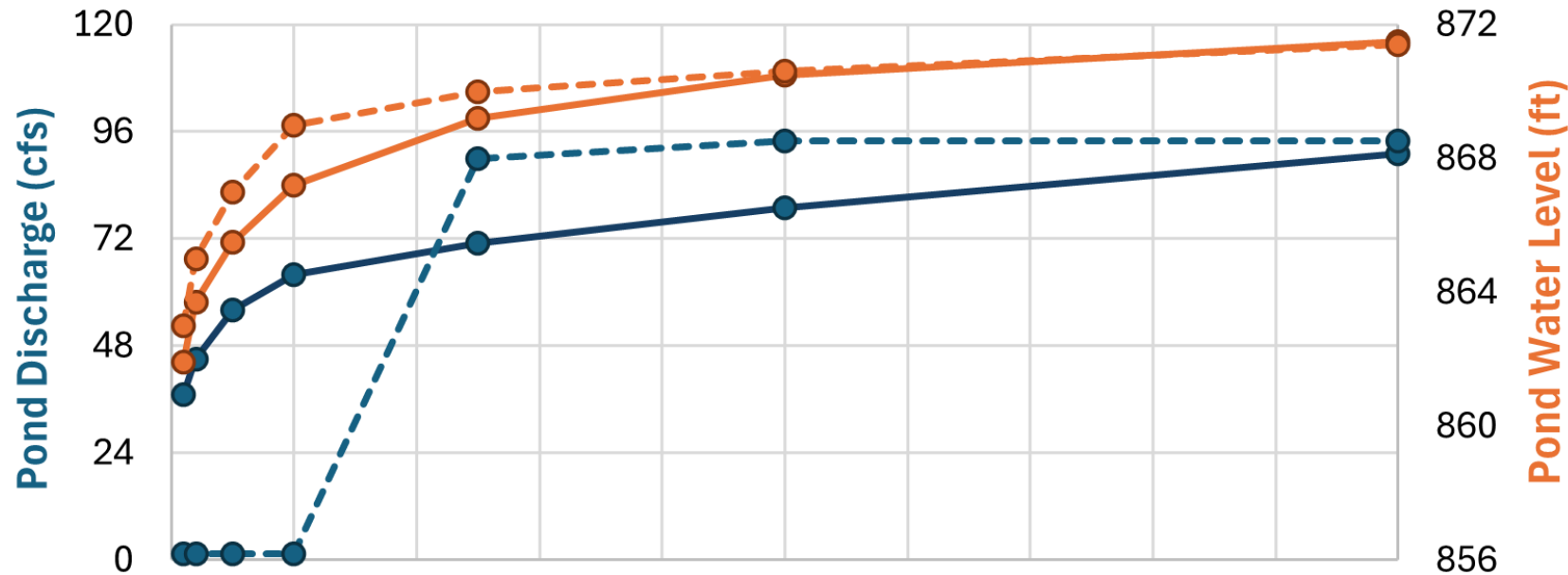
Figure 1: Project Location

What: Adding a “smart” valve to outlet pipe to optimize water storage capabilities

Benefits:

- ✓ 127 lbs Phos. (>100% of goal!)
- ✓ 10 tons Sediment (14% of goal)
- ✓ Lower erosive forces
- ✓ Improved conditions for fish/bugs
- ✓ Decreased flood risk
- ✓ Decreased maintenance needs
- ✓ Potentially lower chloride levels!

Existing Fixed Orifice vs Proposed Smart Outlet



Project Info			Status	Responsible Parties		Cost - % contribution				Project Timeline						
ID	Type	Name		Lead	Involved	CCWD	Blaine	CR	ACHD	2023	2024	2025	2026	2027	2028	Totals
5	Improvement	MnDOT Pond Outlet Retrofit (Design)	Ongoing	CCWD	All	100%	0%	0%	0%		\$ 21,000	\$ 87,000				\$ 108,000
5.1	Improvement	MnDOT Pond Outlet Retrofit (Construct)	Not started	CCWD	All	9%	44%	34%	13%			\$ 110,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 116,000
5.2	Improvement	Woodbridge Channel Improvement	Ongoing	CCWD	CCWD	100%						\$ 100,000				\$ 100,000

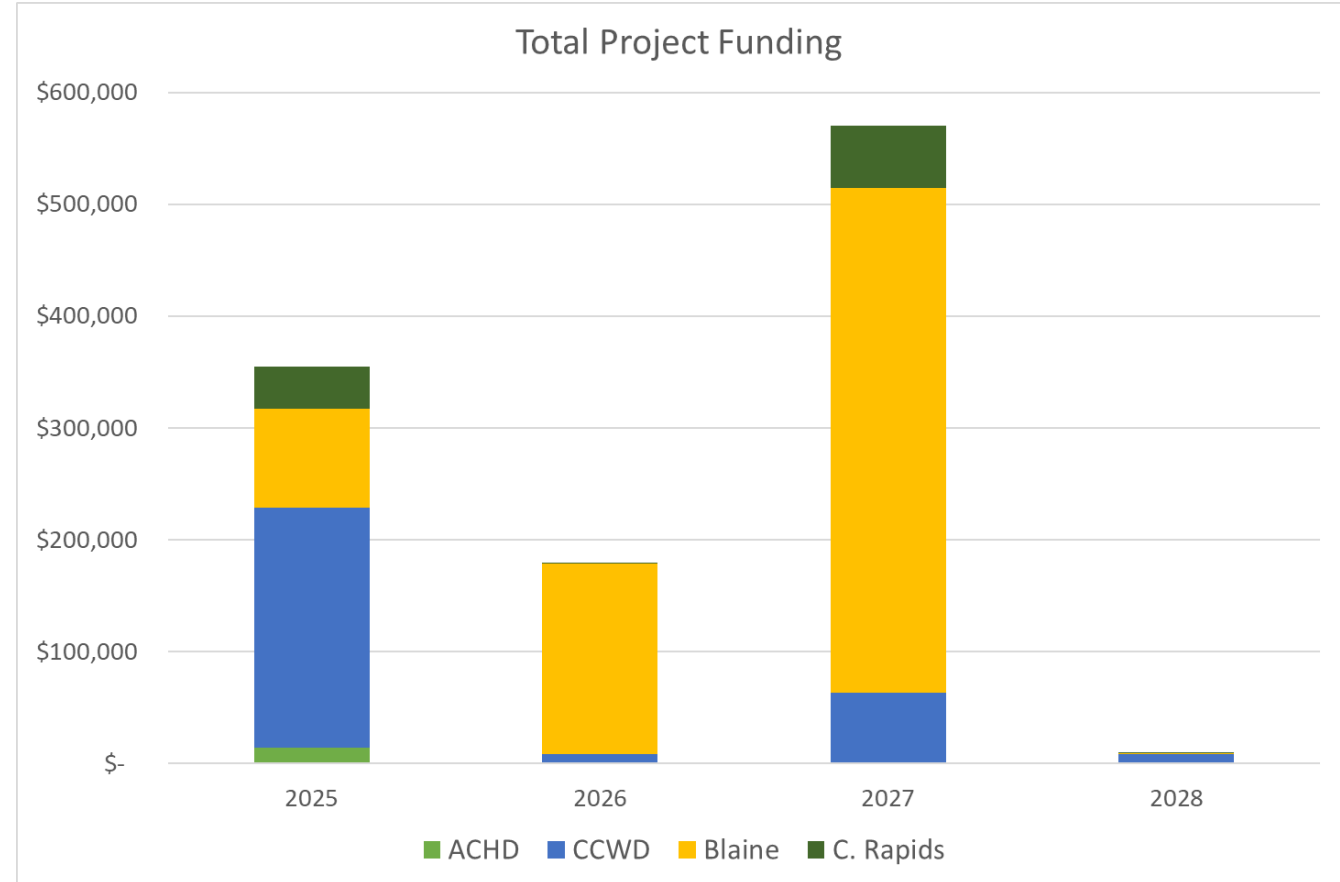
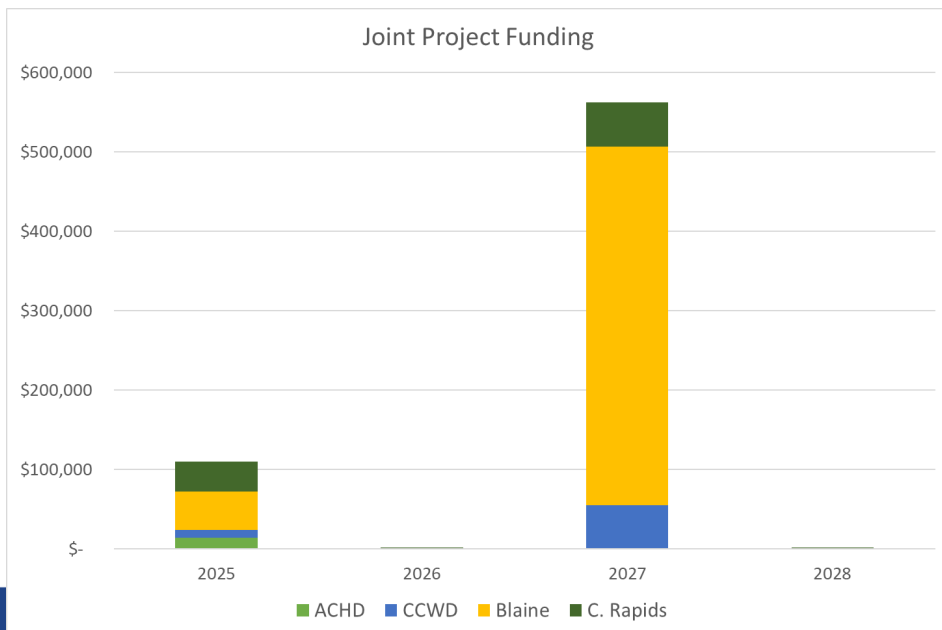
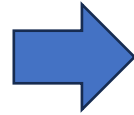
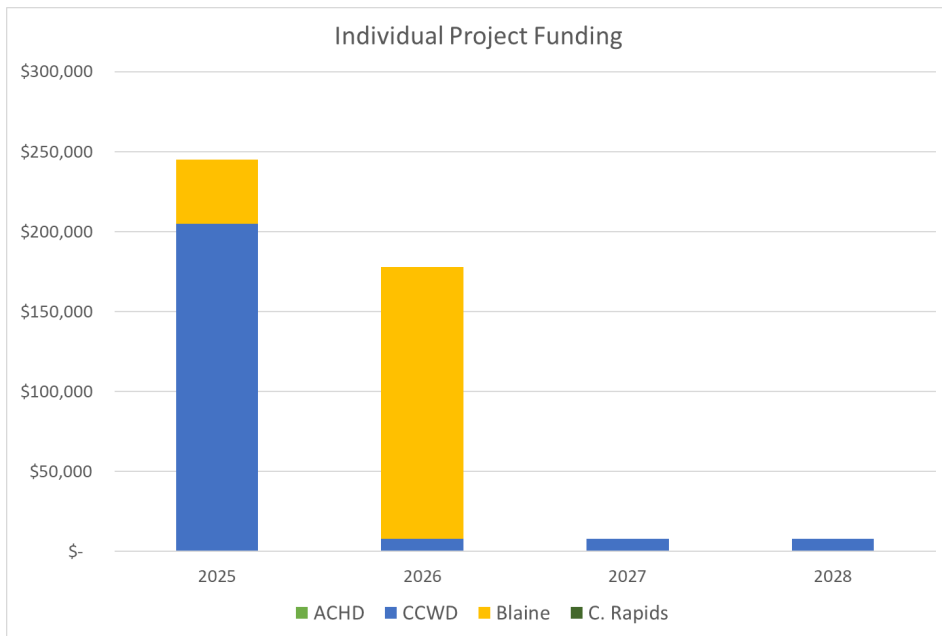


Project Funding

Project Info				Responsible Parties		Cost - % contribution				Project Timeline					
ID	Type	Name	Status	Lead	Involved	CCWD	Blaine	CR	ACHD	2024	2025	2026	2027	2028	Totals
1	Planning	Detailed Study and Survey of East Area	Complete	CCWD	CCWD, BL	50%	50%			\$ 20,000					\$ 20,000
2	Planning	Detailed Study of West Area	Complete	CCWD	CCWD, CR	50%		50%		\$ 10,000					\$ 10,000
2	Improvement	Swan Park WQ BMP	Not started	Blaine	CCWD, BL, CR	0%	100%	0%				\$ 170,000			\$ 170,000
3a	Improvement	96th Lane Pond (Study)	Not started	Blaine	BL		100%				\$ 40,000				\$ 40,000
3b	Improvement	96th Lane Pond (Design and Construction)	Not started	Blaine	CCWD, BL, CR	10%	80%	10%					\$ 560,000		\$ 560,000
4	Improvement	Maximize MnDOT Pond Treatment (sweeping piles)	Complete	Coon Rapids	CCWD, CR	0%		100%		\$ 20,000					\$ 20,000
5	Improvement	MnDOT Pond Outlet Retrofit (Design)	Ongoing	CCWD	All	100%	0%	0%	0%	\$ 21,000	\$ 87,000				\$ 108,000
5.1	Improvement	MnDOT Pond Outlet Retrofit (Construct)	Not started	CCWD	All	9%	44%	34%	13%		\$ 110,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 116,000
5.2	Improvement	Woodbridge Channel Improvement	Ongoing	CCWD	CCWD	100%					\$ 100,000				\$ 100,000
6	Improvement	Habitat Enhancement	On Hold	CCWD	All	9%	44%	34%	13%						\$ -
7	Improvement	Streambank Repairs and Stabilization	Not started	CCWD	CCWD	100%					\$ 10,000				\$ 10,000
9	Improvement	Implement enhanced street sweeping	Ongoing	BL, CR, ACHD	All										\$ -
4	Protection	Chloride Management	Ongoing	All	All										\$ -
1	Engagement	Communications and Engagement Plan and Implementation	Ongoing	CCWD	All	100%				\$ 19,900	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 39,900
1	Engagement	Pet Waste	Ongoing	CCWD	CCWD	100%				\$ 2,870	\$ 2,870	\$ 2,870	\$ 2,870	\$ 2,870	\$ 17,220
TOTALS										\$ 93,770	\$ 354,870	\$ 179,870	\$ 569,870	\$ 9,870	\$ 1,316,520



Funding Breakdown



Funding Breakdown

Individual Project Funding				
	2025	2026	2027	2028
ACHD	\$ -	\$ -	\$ -	\$ -
CCWD	\$ 204,870	\$ 7,870	\$ 7,870	\$ 7,870
Blaine	\$ 40,000	\$ 170,000	\$ -	\$ -
C. Rapids	\$ -	\$ -	\$ -	\$ -
Total	\$ 244,870	\$ 177,870	\$ 7,870	\$ 7,870



Joint Project Funding				
	2025	2026	2027	2028
ACHD	\$ 14,300	\$ 260	\$ 260	\$ 260
CCWD	\$ 9,900	\$ 180	\$ 55,180	\$ 180
Blaine	\$ 48,400	\$ 880	\$ 450,880	\$ 880
C. Rapids	\$ 37,400	\$ 680	\$ 55,680	\$ 680
Total	\$ 110,000	\$ 2,000	\$ 562,000	\$ 2,000

Total Project Funding				
	2025	2026	2027	2028
ACHD	\$ 14,300	\$ 260	\$ 260	\$ 260
CCWD	\$ 214,770	\$ 8,050	\$ 63,050	\$ 8,050
Blaine	\$ 88,400	\$ 170,880	\$ 450,880	\$ 880
C. Rapids	\$ 37,400	\$ 680	\$ 55,680	\$ 680
Total	\$ 354,870	\$ 179,870	\$ 569,870	\$ 9,870



Next Steps

- ✓ CCWD to provide updated finalized costs at May TAC
- ✓ Kickoff or continue 2025 project/activities



The end

