



**COON CREEK**  
WATERSHED DISTRICT

## 2026 Springbrook Creek SWA Annual Update

3/17/2026



# Agenda

- Water Resource Situation Update
- 2025 Activity Highlights
- Goal/Objective Progress
- New Opportunities
- Implementation Plan
- Future Budget Needs

## *Expected Meeting Outcomes:*

- *Provide major updates to situation*
- *Identify any new opportunities to be included in Implementation Plan*
- *Discuss 2026 planned items on the Implementation Plan*
  - *Budgeting and project leads*



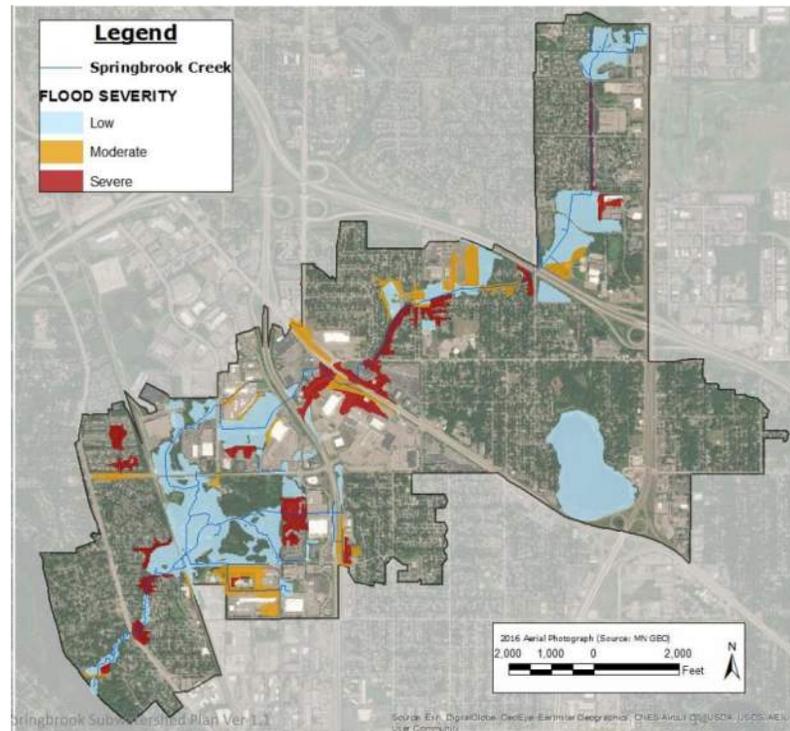
# Water Resource Situation

## Water Quality Impairments

- Aquatic Life
  - High phosphorus levels
  - **High chloride**
  - Poor habitat/altered hydro
- Aquatic Recreation
  - High E.coli
  - Sewage and pathogens

## Flooding Issues

- Multiple areas of high flood risk throughout watershed
- New 2D flood model



## Agenda

- **Resource Situation**
- Activity Highlight
- Goal/Objective Progress
- New Opportunities
- Implementation Plan
- Budget Needs

City/MS4	% Area of Watershed
ACHD	10
Blaine	41
CCWD	15
Coon Rapids	14
Fridley	6
Spring Lake Park	15



# 2025 Situation Updates

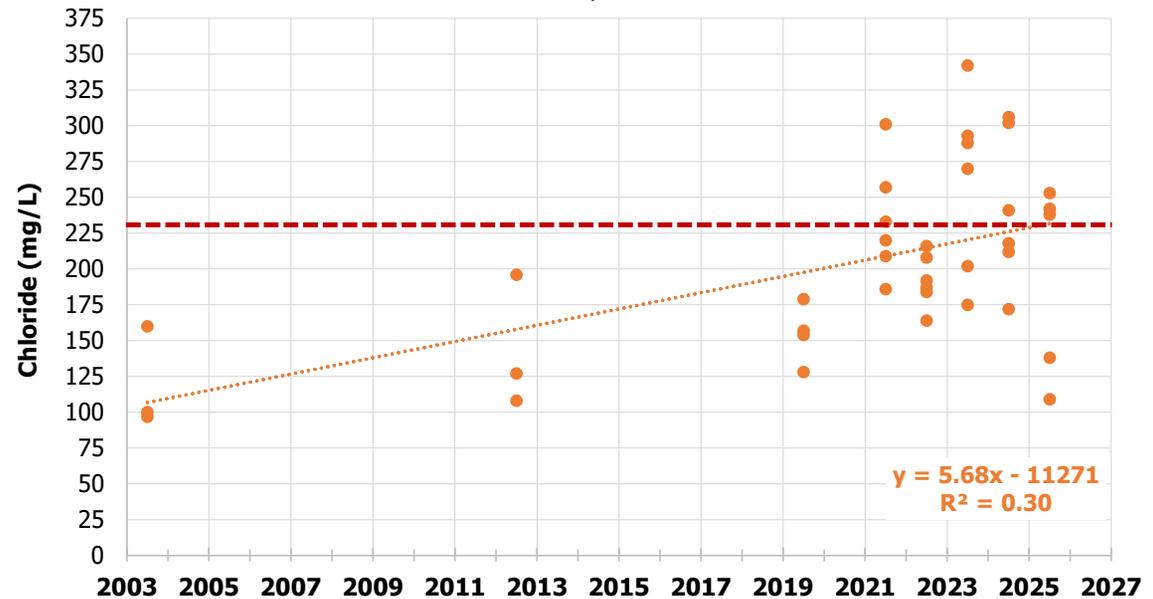
## Water Quality

- Chloride levels rising throughout (groundwater sourced)
- Perched shallow aquifer
- Evergreen Ponds and SBNC providing good treatment, conditions worsen downstream

## Agenda

- **Resource Situation**
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Springbrook Creek Growing Season [Cl-]  
2003-2025, **Baseflow**



# 2025 Situation Updates

## Flooding

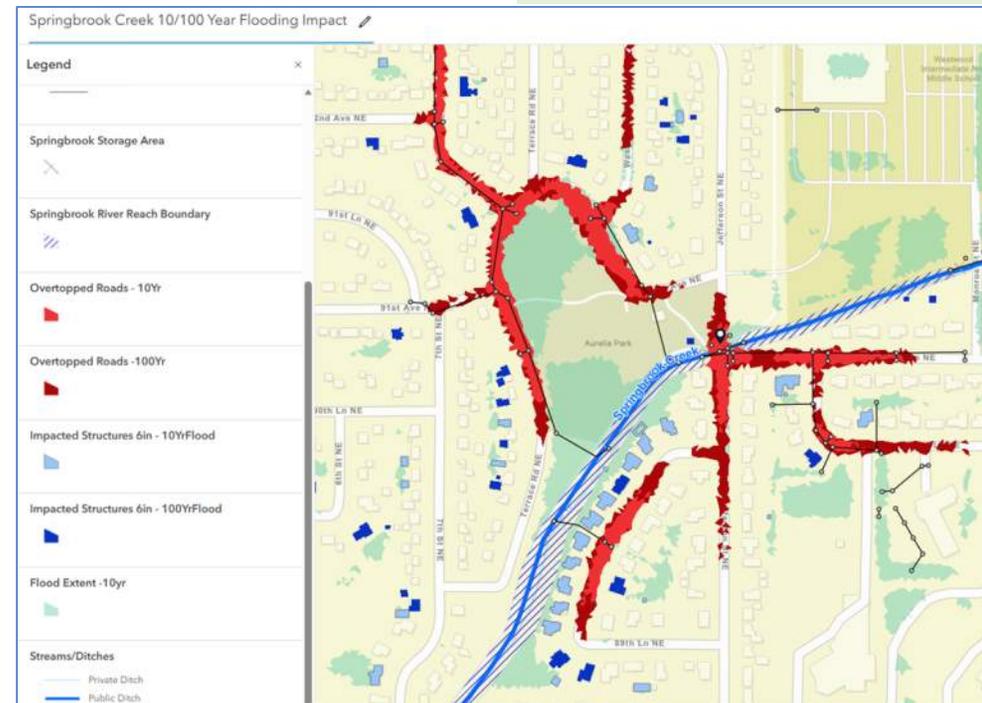
- 2D modeling project shows more “local” flooding
- **10yr event impacts**
  - >500 structures
  - 12 miles of roadway >6”
- **100yr event impacts**
  - ~1000 structures
  - 27 miles of roadway >6”

## Other

- HWY47 & 65 PEL study complete – 2030 construction
- Northtown Mall Master Plan not being implemented

## Agenda

- **Resource Situation**
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# 2025 Activity Highlights - 2D Flood Modeling

- ❑ Phase 1 complete – memo available  
[Springbrook Creek 10/100 Year Flooding Impact](#)
- ❑ Phase 2 ongoing

## Agenda

- Resource Situation
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## • **Project Overview – Phase 2**

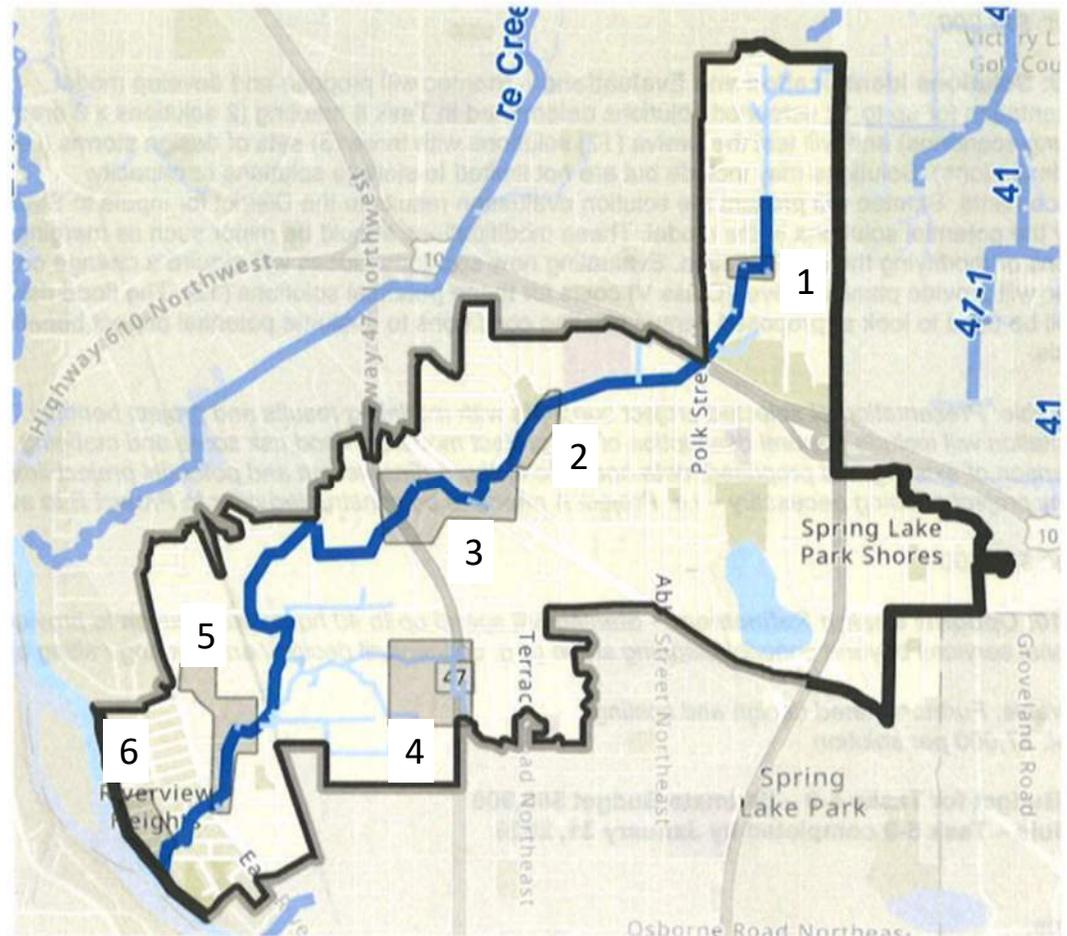
- Phase 2 includes the following task:
  - Model resiliency/500YR flooding extent (COMPLETED)
  - ID critical infrastructure at capacity (COMPLETED)
  - **Flood Risk Tool for evaluating project benefits (TODAY)**
  - **Evaluate local vs regional issues for priority areas (TODAY)**
  - Potential Solutions for REGIONAL ISSUES (NOT COMPLETED – expected summer 2026)

## • **Flood Risk Tool**

- Intended use - Compare existing score vs. score of potential project scenarios in Springbrook Creek watershed
- Absolute scoring, not relative/normalized
- Scoring categories - **impacted structures, submerged roadways (>0.5 ft) and areas at risk of isolation**
  - Frequency factor associated with return frequency of storm event
    - 2Y → 0.5; 10Y → 0.1; 100Y → 0.01
  - Scale factor for road type
    - Local → 0.1; Other → 1.0
  - Disconnected if vehicle access restricted by >0.5 ft water depth in 100-Yr storm event

## • Priority Areas

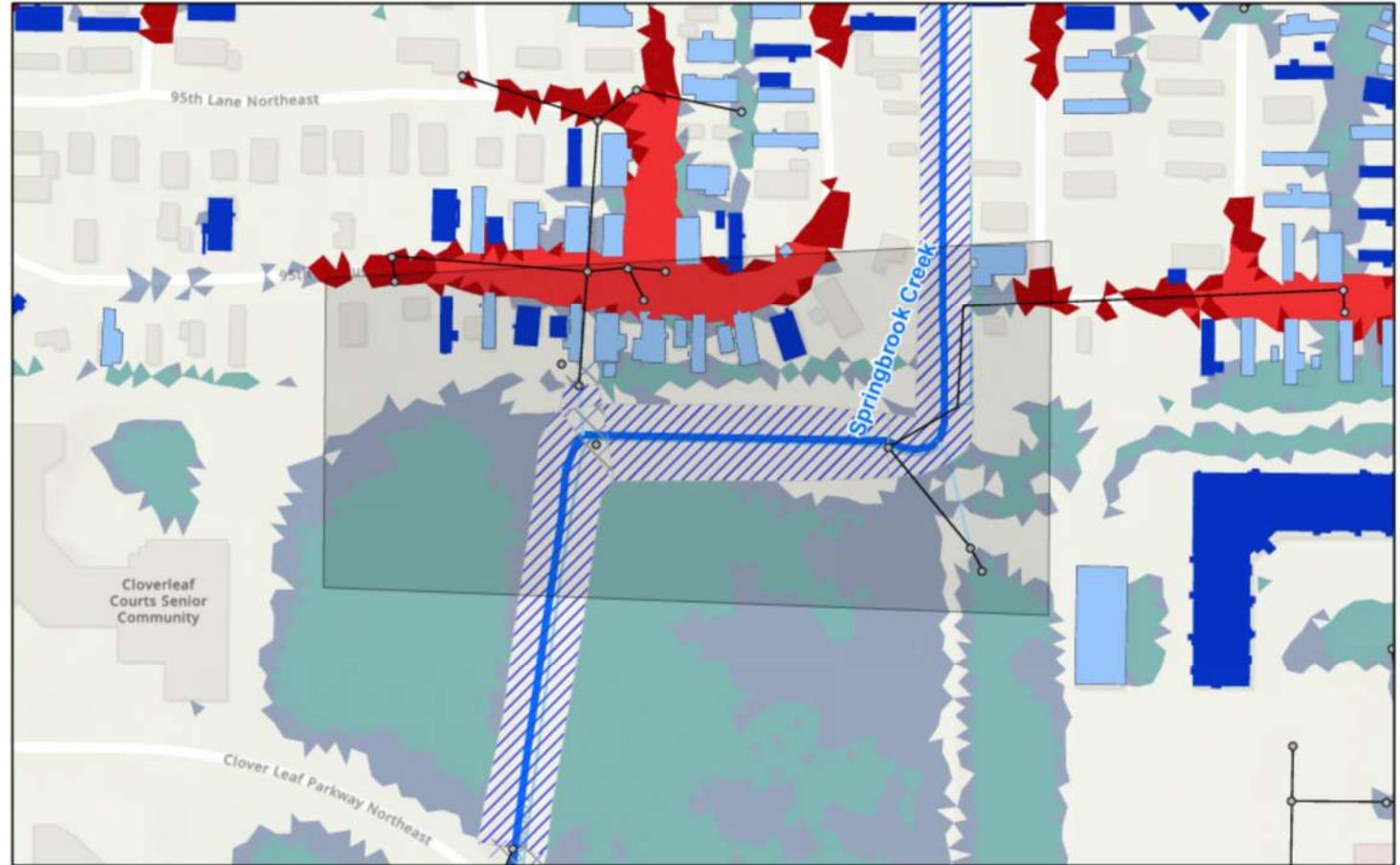
- Six priority areas
  - Area 1 (95<sup>th</sup> Ave)
  - Area 2 (Aurelia Park)
  - Area 3 (Northtown Mall)
  - Area 4 (Springbrook Apartments)
  - Area 5 (BNSF to ERR)
  - Area 6 (Apex Pond)



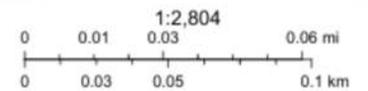
• **Priority Area 1**

- Local issue a result of undersized pipes
- Potential project –
  - Upsize outfall slope
  - Place parallel pipe to outlet

Priority Area 1



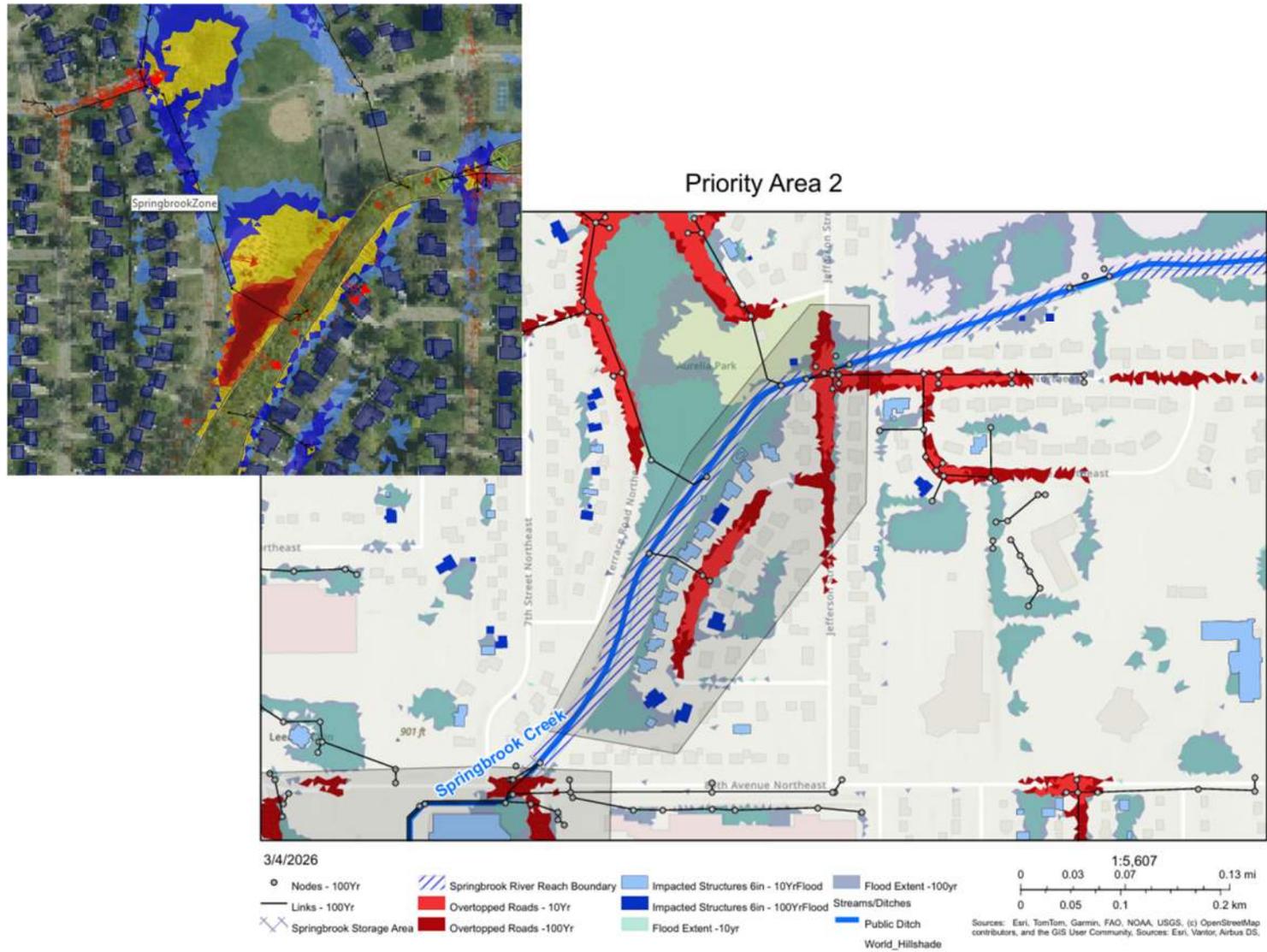
3/4/2026



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, Vantor, Airbus DS.

## • Priority Area 2

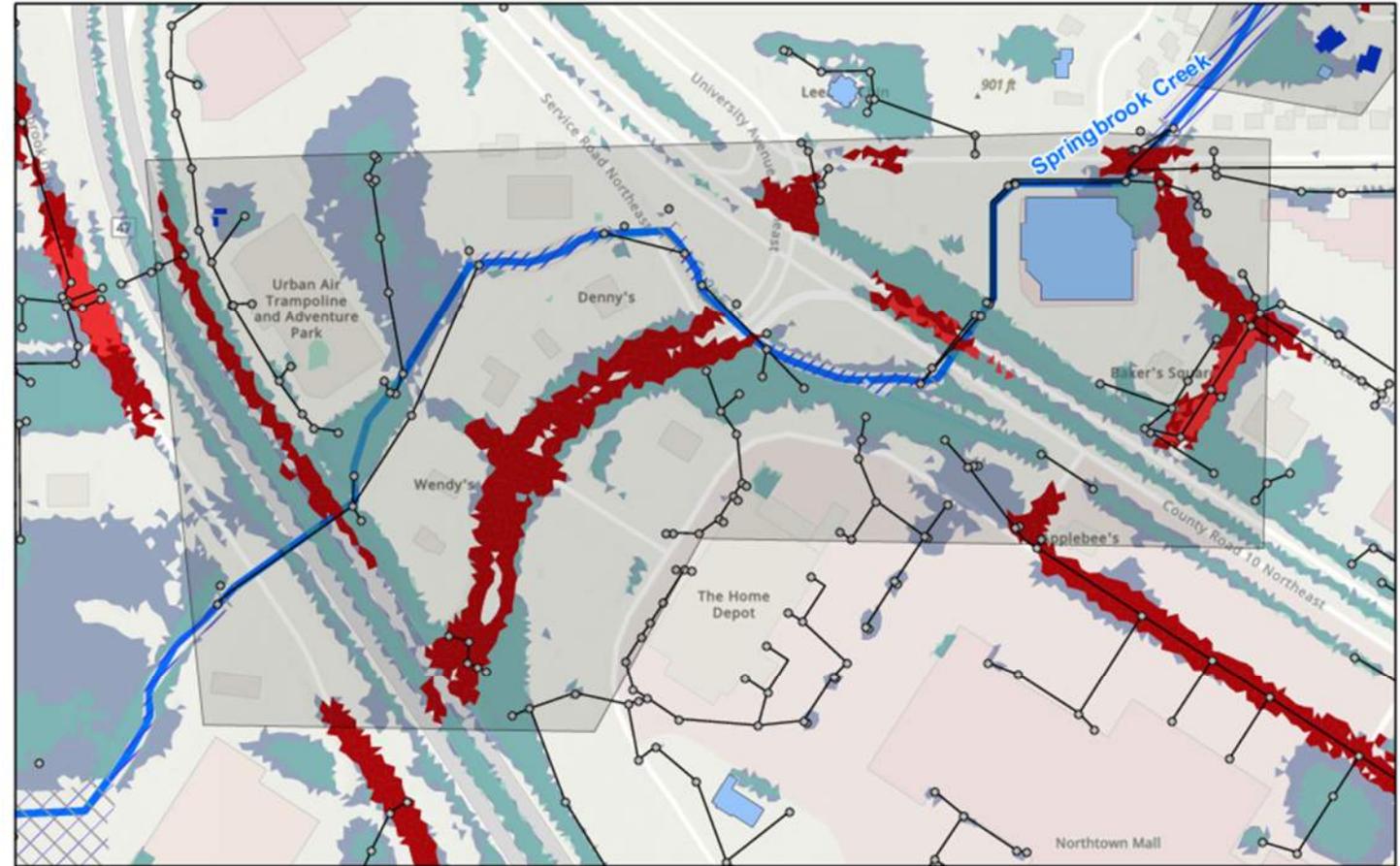
- Regional Issue - Cross sectional capacity & culvert capacity
- Note high levels of velocity along channel banks



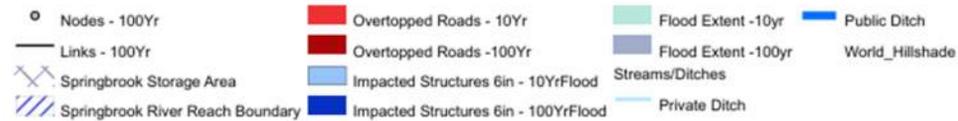
# • Priority Area 3

- Regional Issue - Undersized culverts throughout the area (public and private)
- Lack of connection back to creek from overflow
- Potential project
  - Underground storage
  - Additional connections

Priority Area 3



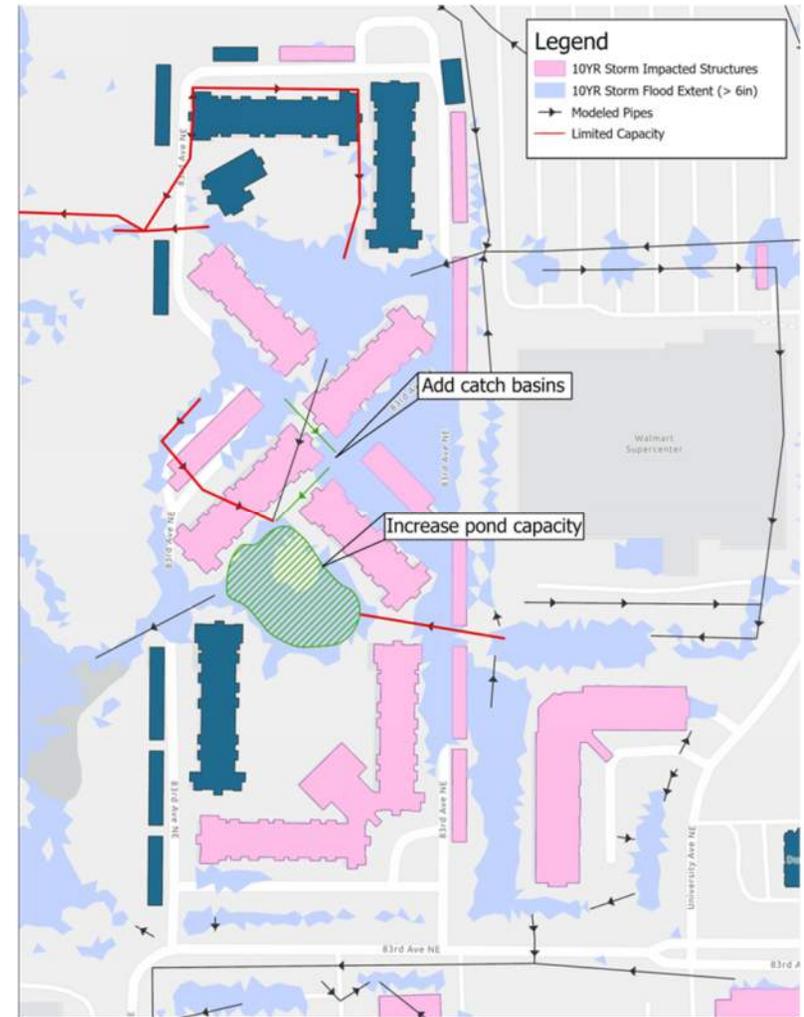
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 0 0.03 0.07 0.13 mi  
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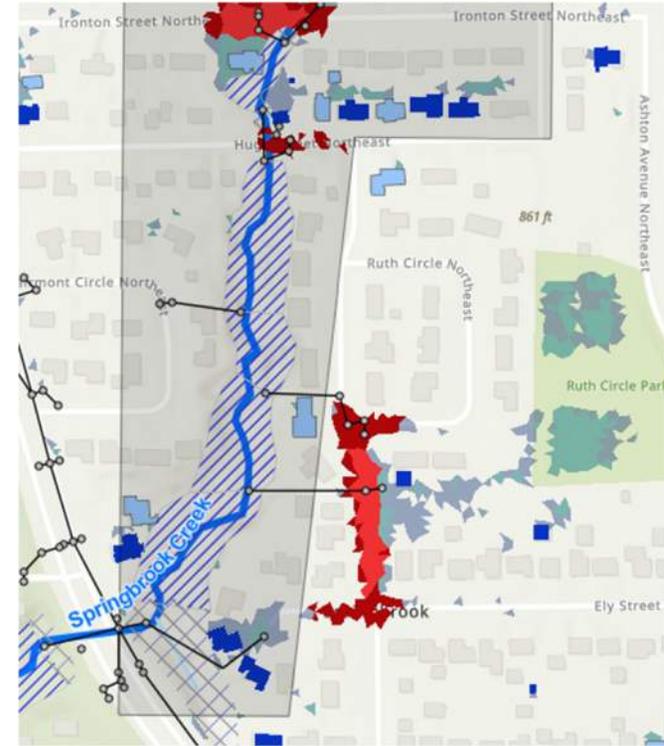
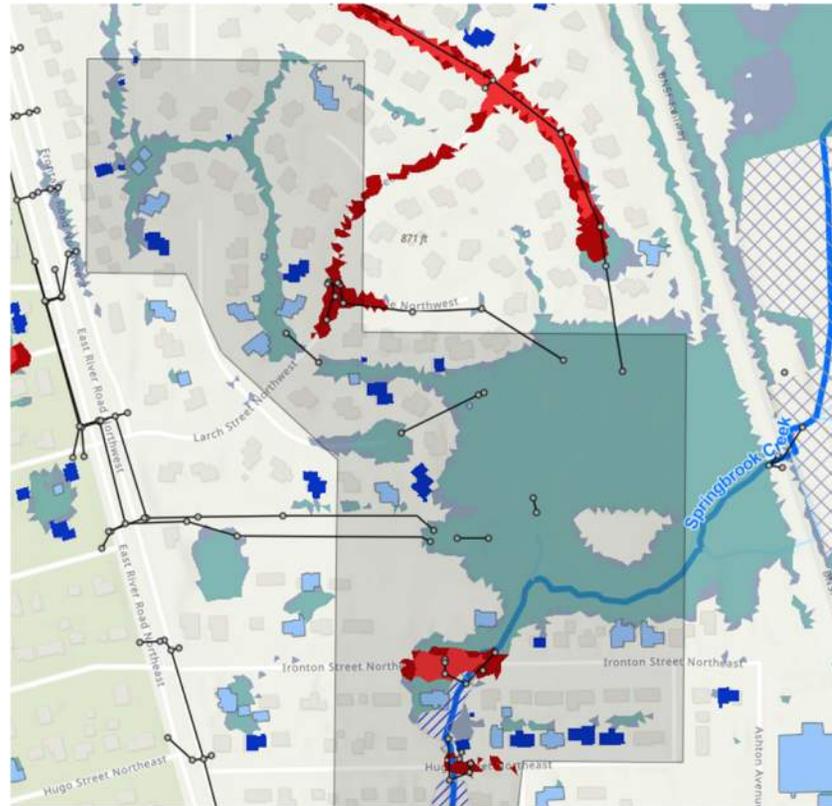
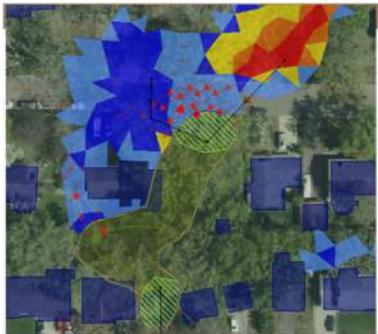
## • Priority Area 4

- Local Issue – Inlets and pipe capacity
- Regional Issue if you consider flows from upstream
- Potential project – See figure to the right



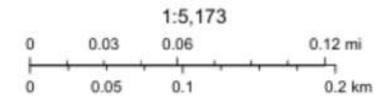
# • Priority Area 5

- Three parts
  - Northern - Regional
  - Mid - Regional
  - Southern - Regional
  - Timing, storage
- Potential project - Storage & Conveyance



3/4/2026

- |                                       |  |
|---------------------------------------|--|
| ○ Nodes - 100Yr                       | ■ Impacted Structures 6in - 100YrFlood |
| — Links - 100Yr                       | ■ Flood Extent -10yr                   |
| ▨ Springbrook Storage Area            | ■ Flood Extent -100yr                  |
| ▨ Springbrook River Reach Boundary    | Streams/Ditches                        |
| ■ Overtopped Roads - 10Yr             | — Private Ditch                        |
| ■ Overtopped Roads -100Yr             | — Public Ditch                         |
| ■ Impacted Structures 6in - 10YrFlood | World_Hillshade                        |

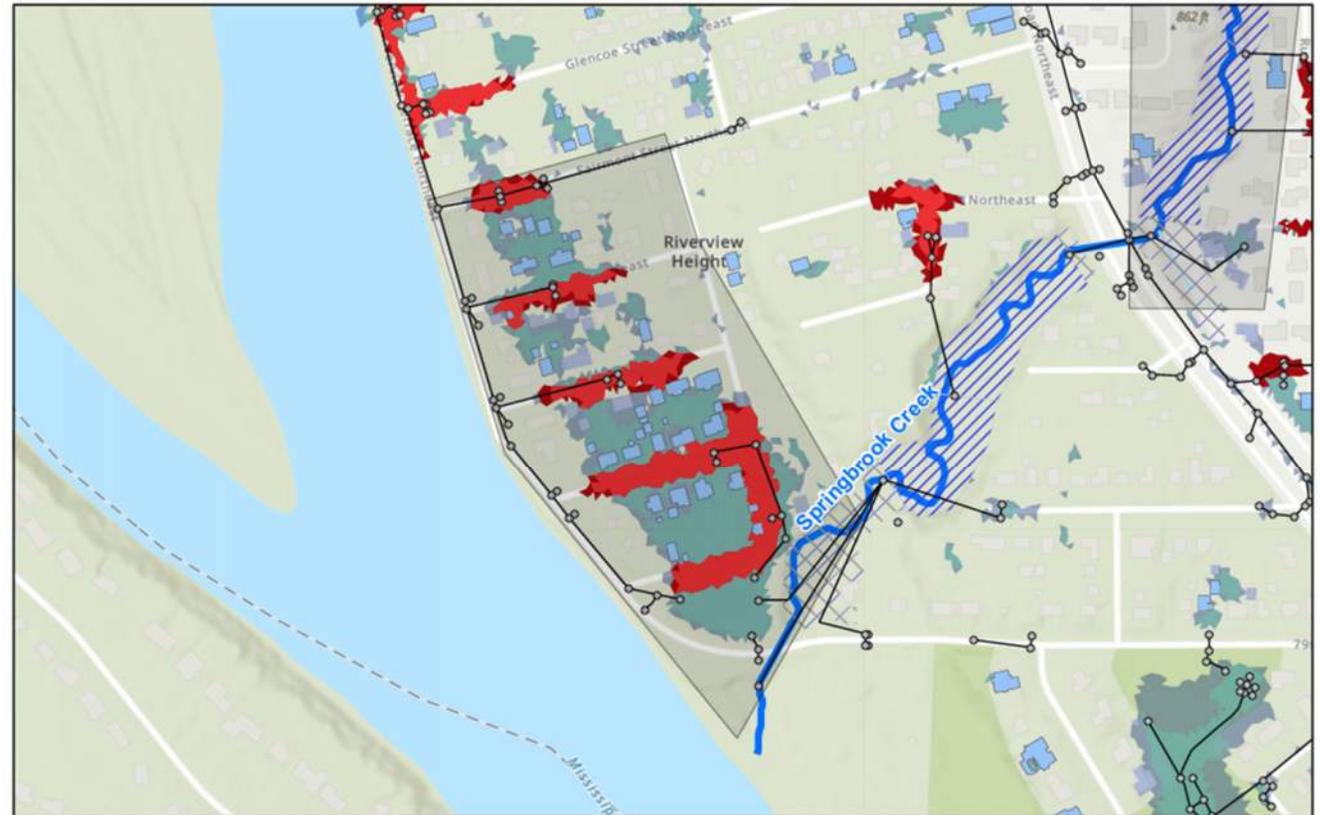


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# • Priority Area 6

- Combination based on current model setup. Mostly undersized pipes and lack of storage for drainage area
- Potential project –
  - Direct connection to creek

Priority Area 6



3/4/2026

- |                                    |  |                       |                 |
|------------------------------------|--|-----------------------|-----------------|
| ○ Nodes - 100Yr                    | ■ Overtopped Roads - 10Yr              | ■ Flood Extent -10yr  | ■ Public Ditch  |
| — Links - 100Yr                    | ■ Overtopped Roads -100Yr              | ■ Flood Extent -100yr | World_Hillshade |
| ▨ Springbrook Storage Area         | ■ Impacted Structures 6in - 10YrFlood  | — Streams/Ditches     |                 |
| ▨ Springbrook River Reach Boundary | ■ Impacted Structures 6in - 100YrFlood | — Private Ditch       |                 |

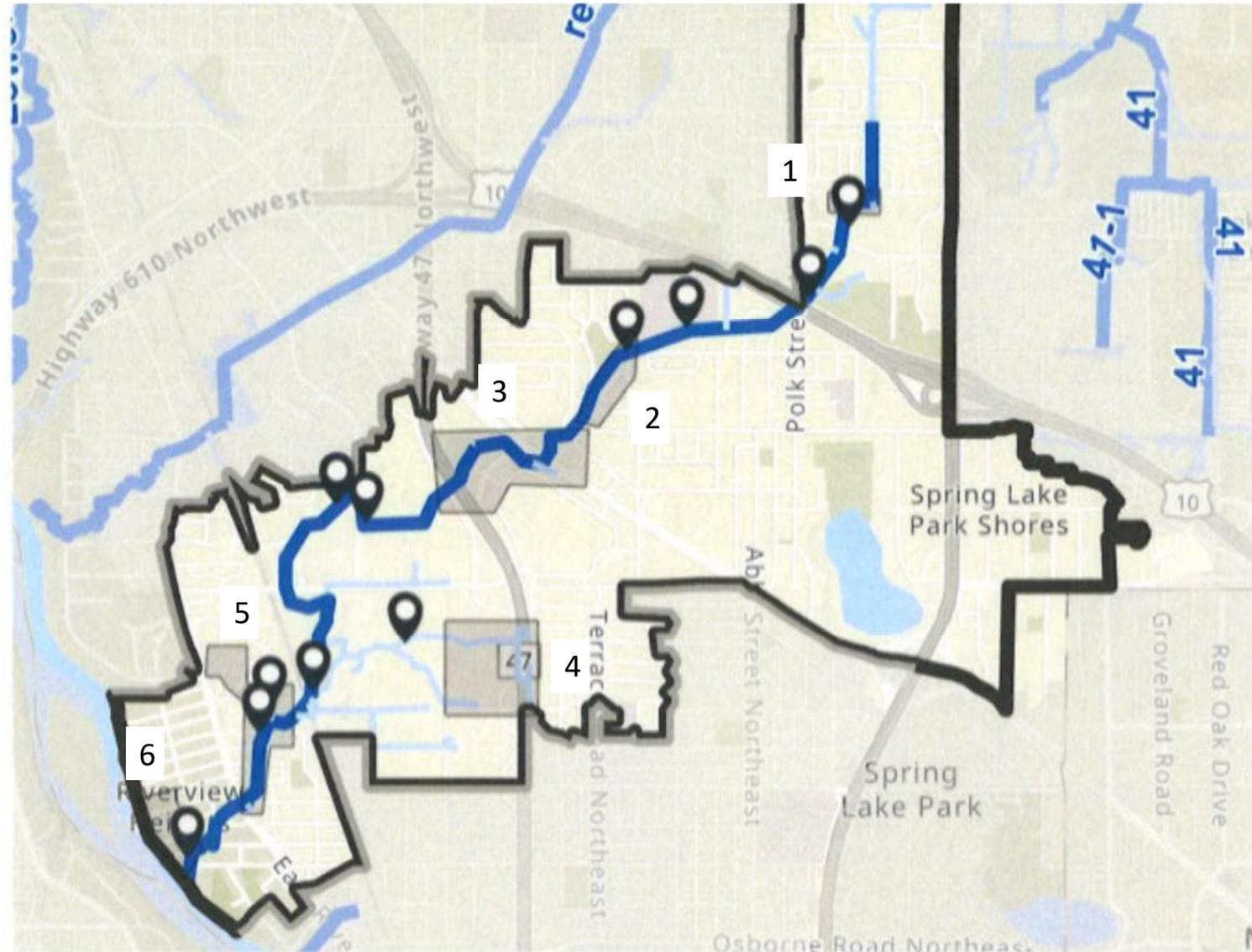
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# • Next Steps

## Task 9 - Solutions Identification and Evaluation Steps

1. Propose and develop up to 12 flood solutions
2. Conduct model runs for 2-, 10-, and 100-year storms of 12 solutions
3. Provide Class V OPCs
4. Score flood risk tool for proposed projects

**Timeline: present to task force in Fall 2026.**



# 2025 Activity Highlights – Spbk Nature Center Outlet Retrofit

- Phase 1 (feasibility) complete
  - Minimal flood benefit
  - Significant water quality benefit
- Phase 2 (design) upcoming
  - Design alternatives and final design
  - Permitting
  - Construction bid package by early Fall 2026

*Timing of construction will depend on permitting*

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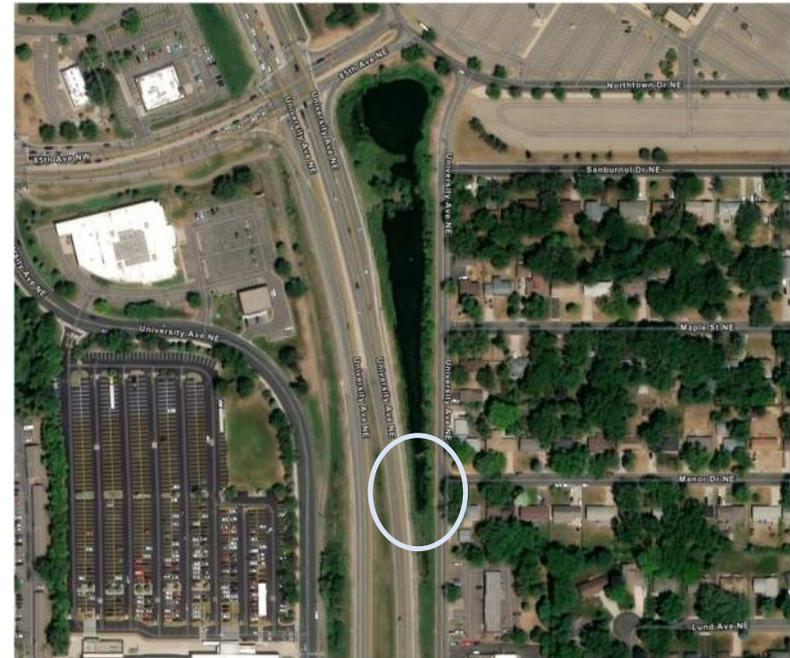


# 2025 Activity Highlights – University Avenue (Orphan) Pond

- ❑ Status (design): incorporating comments into final plans, construction this summer

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# 2025 Activity Highlights – Other

- ❑ Spring Lake Park, Coon Rapids, & Fridley enhanced sweeping (>16 lbs TP)

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# Goal Progress

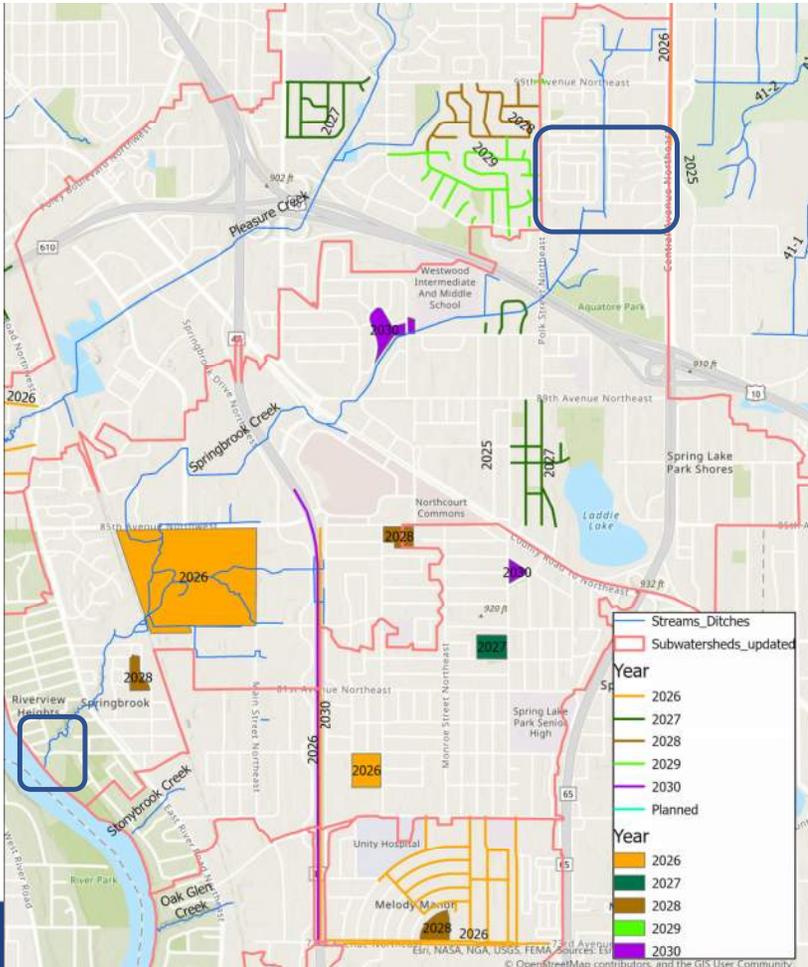
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Goal/Objective	2024 Cumulative Progress
<b>Goal 1: To restore the water quality of Springbrook Creek to remove from the impaired waters list by 2045</b>	
1.1) Reduce <i>E. coli</i> loading by 52% (~15,738 billion organisms per year) from 2012 condition.	- 1,239 bill orgs (8% of needed reductions)
1.2) Reduce Total phosphorus loading by 16% (~490 lbs per year) from 2012 condition	- 65 lbs TP (13% of needed reduction)
1.3) Improve Minnesota Stream Habitat Assessment score by 18%, from 'Fair' to 'Good'	
1.4) Lake Pepin Impairment: Reduce Total phosphorus loading by 69% (~2,055 lbs per year) from 2012 condition.	See 1.2
1.5) Reduce winter/spring chloride concentrations by 54% from 2019 conditions.	- Fridley reduction**, CL groundwater study initiated
1.6) Reduce Laddie Lake's winter/spring chloride concentrations by 5% from 2019 conditions	- Fridley reduction **, CL groundwater study initiated
<b>Goal 2: To reduce flooding and flood damage</b>	<ul style="list-style-type: none"> <li>- Railroad culvert replaced</li> <li>- 89<sup>th</sup> Ave culvert crossing improvement to reduce potential blockage</li> <li>- 2D flood model to identify structural solutions</li> </ul>
<b>Goal 3: Increase the resilience of the subwatershed</b>	
3.1) Identify locations of severe flooding from 500-yr (resiliency) event in 2024.	- 2D flood model identified 500yr even impacts



# New Opportunities



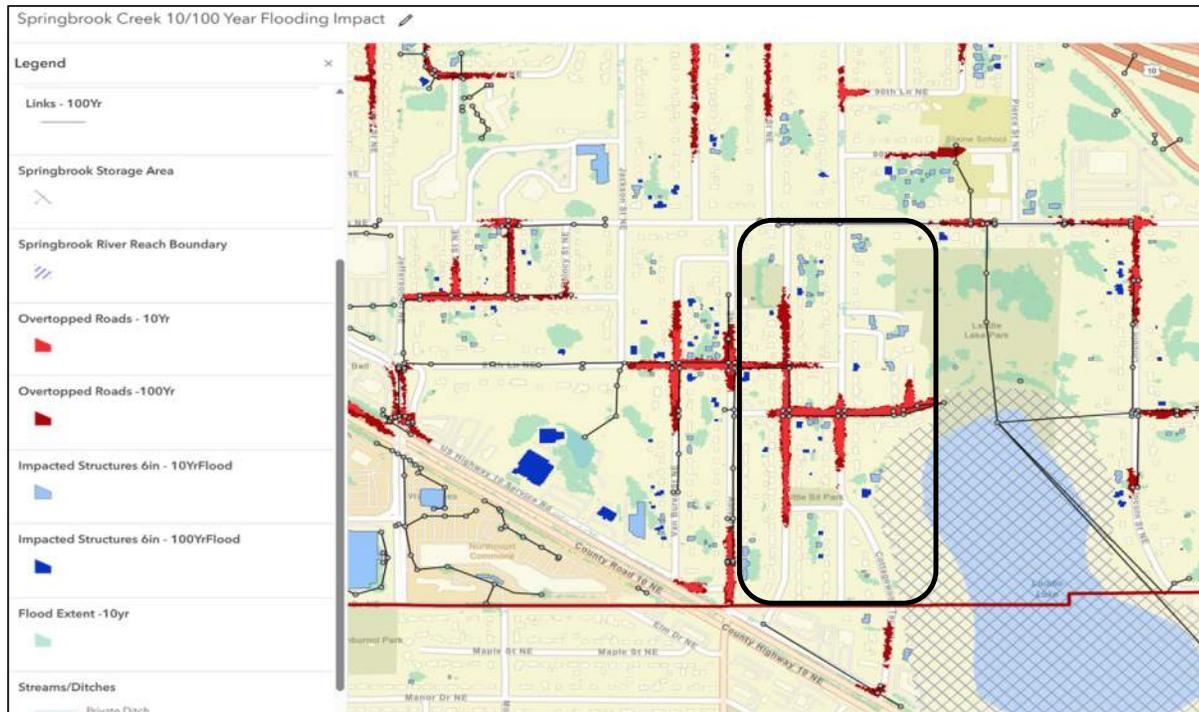
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- Sandpiper Bend and Northview Villas flood risk reduction – Blaine Manufactured Home Task Force
- Apex pond pumping optimization analysis
- Others?

# New Opportunities

## ➤ 2027 Blaine road projects



## Agenda

- Resource Situation
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# 2026 Implementation Plan

## Agenda

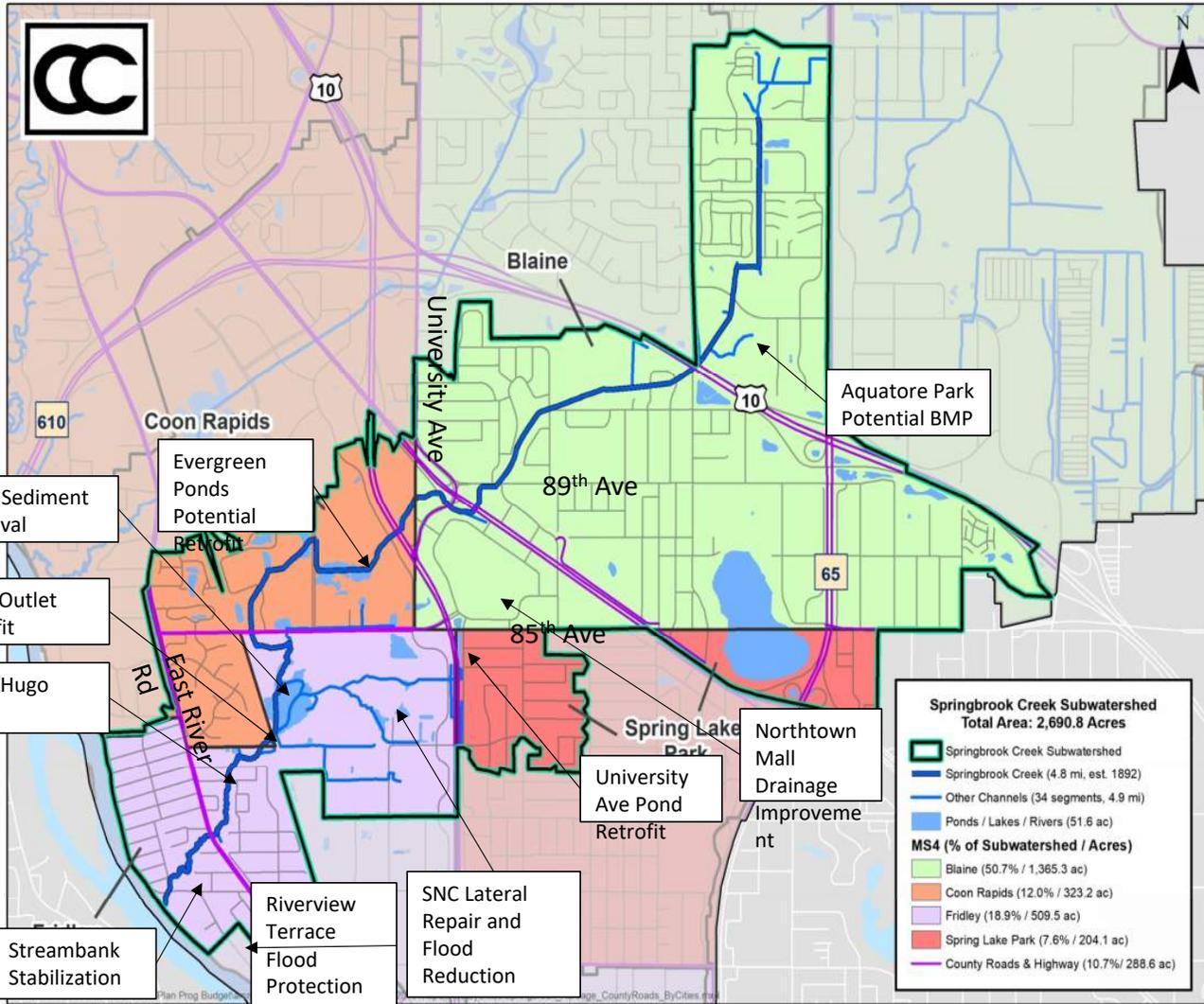
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Project Info			Responsible Parties		Year				
Type	Name	Status	Lead	Involved	2025	2026	2027	2028	2029
Protection	Pet Waste Management	Ongoing	CCWD	CCWD	\$ 3,200	\$ 3,200	\$ 3,200	\$ 3,200	\$ 3,200
Protection	Regulation	Ongoing	BL, CR, F, SLP	BL, CR, F, SLP					
Planning	Northtown Drainage Improvement	Ongoing	CCWD, BL	All					
Improvement	Springbrook Nature Center Pond Outlet Retrofit (Design)	Ongoing	CCWD, Frid	All	\$ 22,500				
Improvement	Springbrook Nature Center Pond Outlet Retrofit (Construction)	Not started	CCWD, Frid	All		\$ 160,000			
Improvement	Springbrook Nature Center Pond Sediment (Design)	Ongoing	CCWD, Frid	all	\$ 68,700				
Improvement	Springbrook Nature Center Pond Sediment (Construction)	Ongoing	CCWD, Frid	All				\$ 458,000	
Improvement	Springbrook Creek Conveyance Improvements/Culvert Capacity Analysis	Complete	CCWD	All					
Improvement	89th Ave Culvert replacement	Ongoing	Blaine	CCWD, BI					
Improvement	Springbrook Nature Center Lateral Repair and Flood Reduction	Not started	Fridley	All					
Improvement	2D Flood Model & Flood Analysis	Ongoing	CCWD	All	\$ 97,400				
Improvement	Flood Storage Project (top ranking)	Not started	CCWD	All				\$ 1,000,000	
Improvement	University & 85th Pond Retrofit	Ongoing	CCWD	All	\$ 51,400				
Improvement	Streambank stabilization	Not started	CCWD	CCWD					
Improvement	Riverview Terrace Flood Protection (LOMR)	Not started	Fridley	F, CCWD					
Improvement	Enhanced street sweeping	Ongoing	BL, CR, F, SLP, ACHD	All					
Engagement	Education/Outreach Activities	Not started	CCWD	BL, CR, F, SLP	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
<b>TOTALS</b>					\$ 266,200	\$ 186,200	\$ 8,200	\$ 1,466,200	\$ 8,200

### Color Coding Key

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



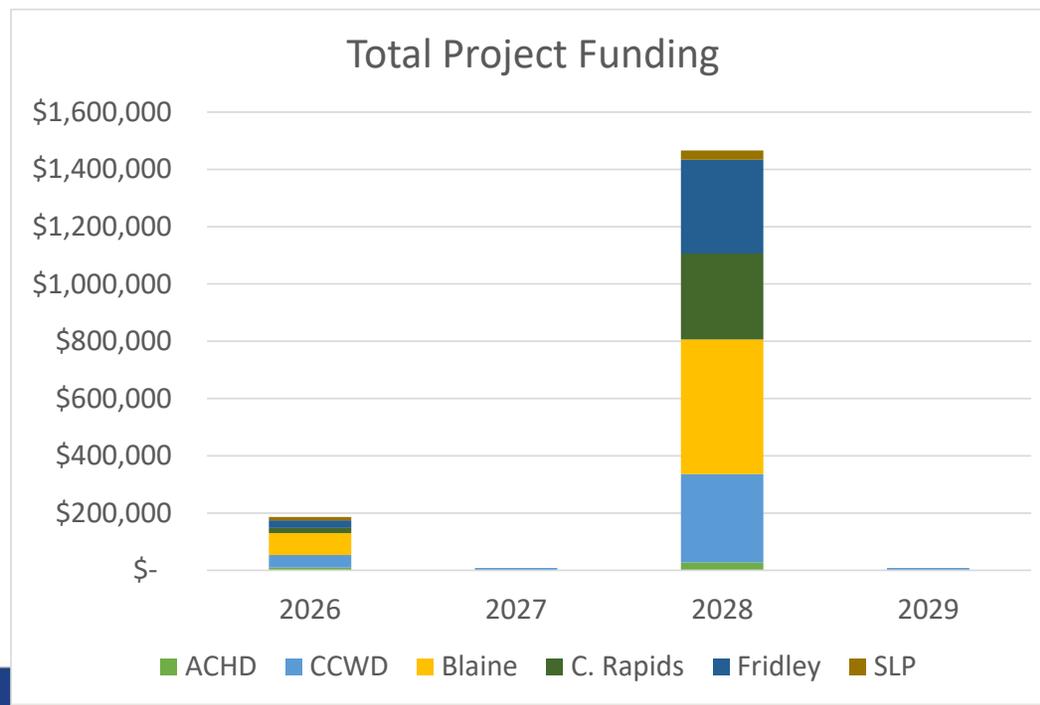
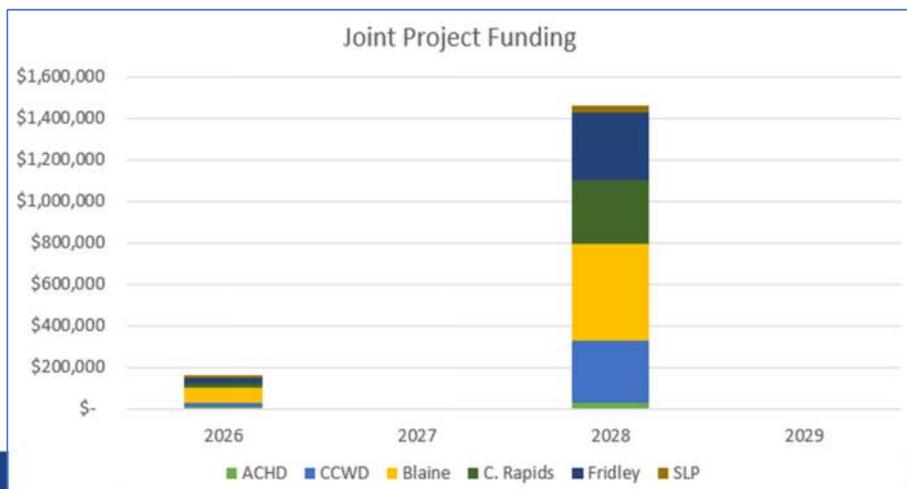
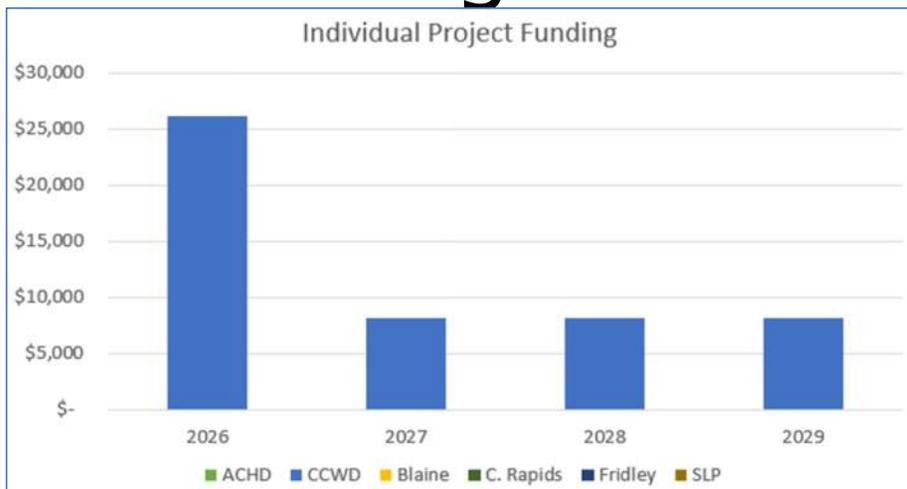


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# Funding Needs



## Agenda

- Resource Situation
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# Funding Needs

## Agenda

- Resource Situation
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- **Budget Needs**

Individual Project Funding				
	2026	2027	2028	2029
ACHD	\$ -	\$ -	\$ -	
CCWD	\$ 26,200	\$ 8,200	\$ 8,200	\$ 8,200
Blaine	\$ -	\$ -	\$ -	
C. Rapids	\$ -	\$ -	\$ -	
Fridley	\$ -	\$ -	\$ -	
SLP	\$ -	\$ -	\$ -	
<b>Total</b>	\$ 26,200	\$ 8,200	\$ 8,200	\$ 8,200



Joint Project Funding				
	2026	2027	2028	2029
ACHD	\$ 9,600	\$ -	\$ 27,480	\$ -
CCWD	\$ 17,600	\$ -	\$ 300,380	\$ -
Blaine	\$ 76,800	\$ -	\$ 469,840	\$ -
C. Rapids	\$ 17,600	\$ -	\$ 300,380	\$ -
Fridley	\$ 27,200	\$ -	\$ 327,860	\$ -
SLP	\$ 11,200	\$ -	\$ 32,060	\$ -
<b>Total</b>	\$ 160,000	\$ -	\$ 1,458,000	\$ -

Total Project Funding				
	2026	2027	2028	2029
ACHD	\$ 9,600	\$ -	\$ 27,480	
CCWD	\$ 43,800	\$ 8,200	\$ 308,580	\$ 8,200
Blaine	\$ 76,800	\$ -	\$ 469,840	
C. Rapids	\$ 17,600	\$ -	\$ 300,380	
Fridley	\$ 27,200	\$ -	\$ 327,860	
SLP	\$ 11,200	\$ -	\$ 32,060	
<b>Total</b>	\$ 186,200	\$ 8,200	\$ 1,466,200	\$ 8,200



# Next Steps

- ✓ CCWD to provide updated finalized costs at June/July TAC
- ✓ Kickoff or continue 2026 project/activities
- ✓ Considering major plan update in 2027



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The end



# Project Funding

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

Project Name	Status	Lead	Involved	CCWD	Blaine	C.					Total %	2025	2026	2027	2028	2029
						Rapids	Fridley	SLP	ACHD							
Pet Waste Management	Ongoing	CCWD	CCWD	100%	0%	0%	0%	0%	0%	0%	100%	\$ 3,200	\$ 3,200	\$ 3,200	\$ 3,200	\$ 3,200
Regulation	Ongoing	BL, CR, F, SLP	BL, CR, F, SLP								na					
Northtown Drainage Improvement	Ongoing	CCWD, BL	All	11%	48%	11%	17%	7%	6%	100%						
Springbrook Nature Center Pond Outlet Retrofit (Design)	Ongoing	CCWD, Frid	All	100%	0%	0%	0%	0%	0%	100%	\$ 22,500					
Springbrook Nature Center Pond Outlet Retrofit (Construction)	Not started	CCWD, Frid	All	11%	48%	11%	17%	7%	6%	100%		\$ 160,000				
Springbrook Nature Center Pond Sediment (Design)	Ongoing	CCWD, Frid	all	100%						100%	\$ 68,700					
Springbrook Nature Center Pond Sediment (Construction)	Ongoing	CCWD, Frid	all	11%	48%	11%	17%	7%	6%	100%				\$ 458,000		
Springbrook Creek Conveyance Improvements/Culvert Capacity Analysis	Complete	CCWD	All	100%						100%						
89th Ave Culvert replacement	Ongoing	Blaine	CCWD, BI		100%					100%						
Springbrook Nature Center Lateral Repair and Flood Reduction	Not started	Fridley	All				100%			100%						
2D Flood Model & Flood Analysis	Ongoing	CCWD	All	100%						100%	\$ 97,400					
Flood Storage Project (top ranking)	Ongoing	CCWD	All	25%	25%	25%	25%			100%				\$ 1,000,000		
University & 85th Pond Retrofit	Ongoing	CCWD	All	100%	0%	0%	0%	0%	0%	100%	\$ 51,400					
Streambank stabilization	Not started	CCWD	CCWD	100%						100%						
Riverview Terrace Flood Protection	Not started	Fridley	F, CCWD				100%			100%						
Enhanced street sweeping	Ongoing	BL, CR, F, SLP, ACHD	All													
Education/Outreach Activites	Not started	CCWD	BL, CR, F, SLP	100%	0%	0%	0%	0%	0%	100%	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	
<b>TOTALS</b>											\$ 266,200	\$ 186,200	\$ 8,200	\$ 1,466,200	\$ 8,200	

