



Title: Minnehaha Parkway Project Planning

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Purpose:

At the June 23, 2020 Policy and Planning Committee (PPC) meeting, staff will provide an update on the Minneapolis Park and Recreation Board's Minnehaha Parkway Regional Trail (MPRT) Master Plan's status, including:

- Summarizing the MPRT water resource project opportunities and the total projected natural resource benefits and costs;
- Outlining preliminary ideas on how to prioritize the project opportunities; and
- Facilitating a discussion to evaluate these project opportunities and how the District might proceed with staff time, resource allocation, and risk management

Background:

In February 2017, the District, Minneapolis Park and Recreation Board (MPRB), and City of Minneapolis (City) approved a Memorandum of Understanding (MOU) which outlined shared priorities and investment strategies to improve the natural and built environments within the Minnehaha Creek subwatershed in Minneapolis.

Between July 2018 and February 2020, MPRB in coordination with the District and the City, facilitated a [master planning process for the MPRT](#). As part of the master plan process, MPRB convened a Community Advisory Committee (CAC) and numerous community events to create a vision, guiding principles, review concepts and gather feedback for the MPRT. At their February 19, 2020 meeting, the MPRT CAC approved the master plan concepts for recommendation to the MPRB Park Board Commissioners. Between March 2020 - May 2020, the MPRB project team, in consultation with District and City staff, developed the master plan document. The MPRB will formally release the master plan document for a 45-day public comment period on June 19, 2020. Once the master plan documents are posted on June 19, 2020, staff will send an email to the MCWD Board of Managers to provide the link and any other relevant details.

Summary:

At the June 23, 2020 PPC meeting, staff will summarize the water resource elements in the MPRT master plan and identify the total projected natural resource benefits and their associated costs. Attachment 1 is a map of the MPRT corridor which outlines and summarizes the 35 water resource elements of the master plan and identifies the:

- Project Tag (unique project identifier)
- Project type: stormwater best management practice (BMP), creek remeander/restorations, creek access
- Natural resource benefits: length of creek restoration, acres restored, estimated total phosphorus (TP) removal, and floodplain storage
- Estimated cost

Attachments 2-5 break down the MPRT corridor wide map into segments 1, 2, 3, and 4 which aligns with how MPRB segmented the corridor for the master planning effort.

Staff will also outline preliminary ideas on how to prioritize the 35 water resource project opportunities. To assist with this project prioritization Attachments 6-10 are maps which show the current floodplain extent, the phosphorus loading,

the pipesheds that drain into the creek, the pipesheds to be treated with proposed stormwater BMPs, and the 2012 stream assessment findings.

Lastly, with a grounding in the water resource project elements and ideas on how those project elements might be prioritized, staff will facilitate a discussion with the PPC on how the District might proceed with these water resource project elements as they relate to District staff time, resource allocation, and risk management.

Supporting Documents:

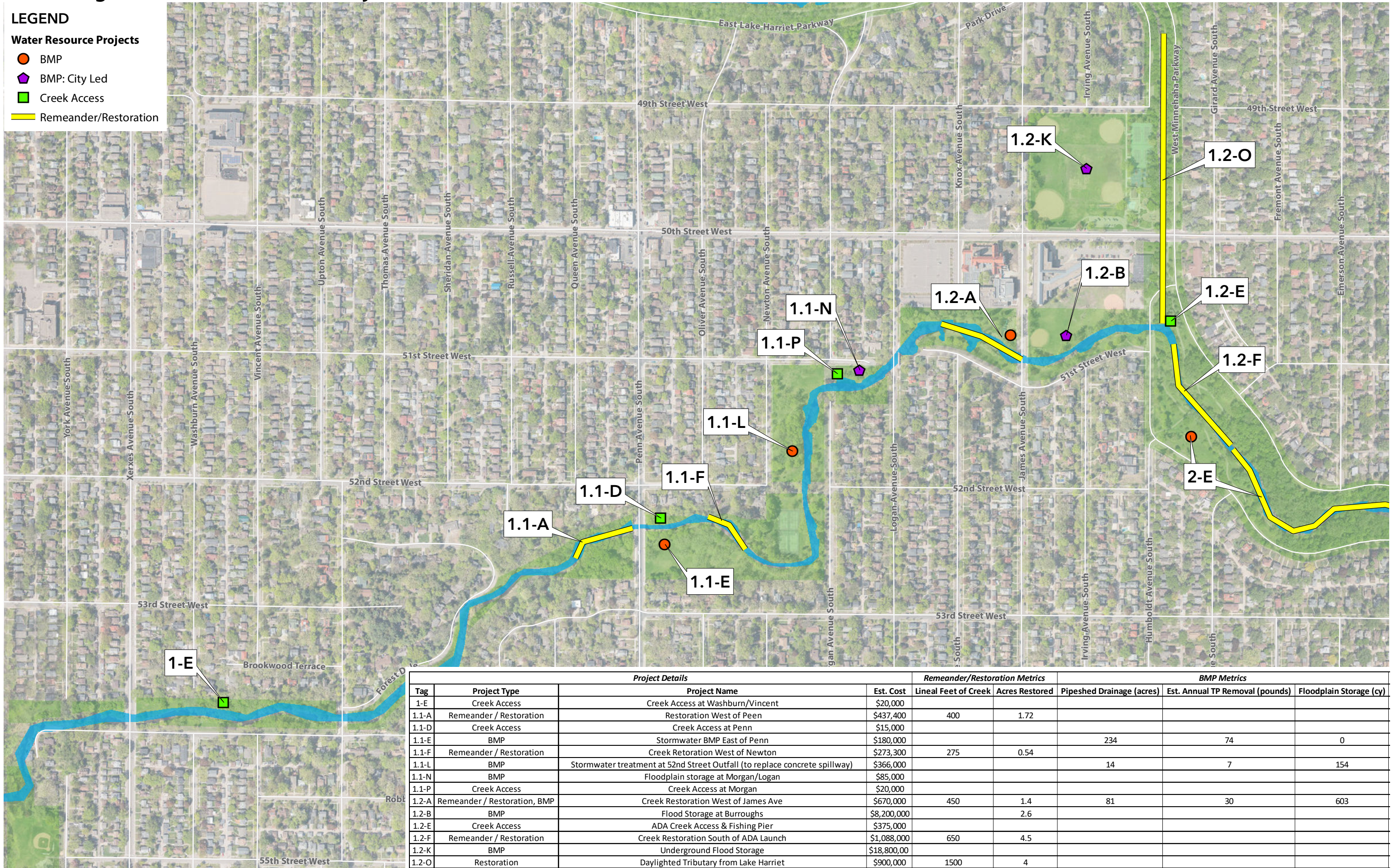
- Attachment 1: Minnehaha Parkway Regional Trail Master Plan - Water Resource Projects Map
- Attachment 2: MPRT Segment 1 Water Resource Projects Map
- Attachment 3: MPRT Segment 2 Water Resource Projects Map
- Attachment 4: MPRT Segment 3 Water Resource Projects Map
- Attachment 5: MPRT Segment 4 Water Resource Projects Map
- Attachment 6: Minnehaha Creek Flood Zones Map
- Attachment 7: Minnehaha Creek Phosphorus Loading Map
- Attachment 8: Minnehaha Creek Pipesheds to be Treated with Proposed BMPs
- Attachment 9: Minnehaha Creek Phosphorus Loading & Pipesheds
- Attachment 10: 2012 Stream Assessment Findings

MPRT Segment 1 Water Resource Projects

LEGEND

Water Resource Projects

- BMP
- ◆ BMP: City Led
- Creek Access
- ▬ Remeander/Restoration



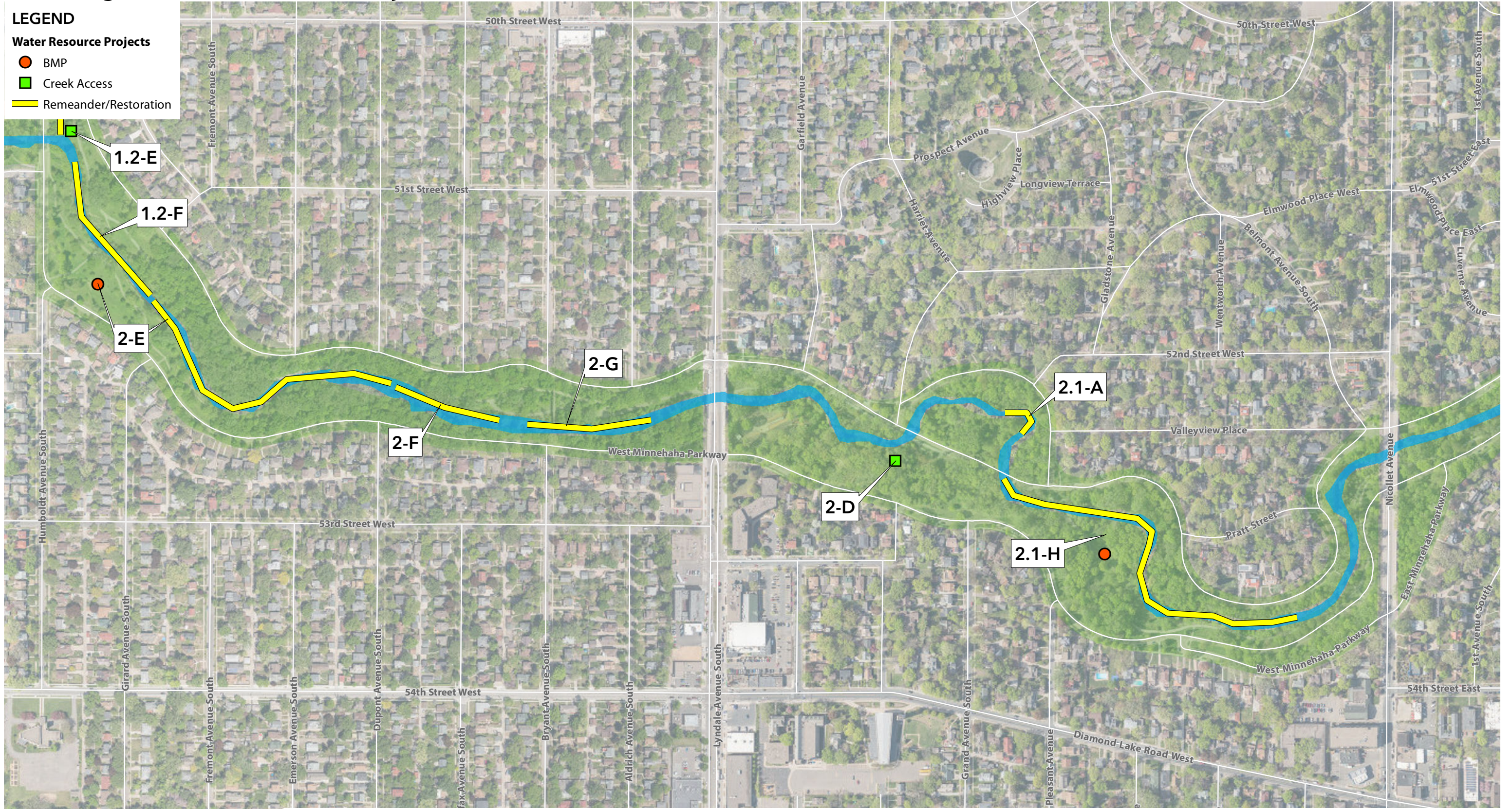
Project Details				Remeander/Restoration Metrics		BMP Metrics		
Tag	Project Type	Project Name	Est. Cost	Lineal Feet of Creek	Acres Restored	Pipeshed Drainage (acres)	Est. Annual TP Removal (pounds)	Floodplain Storage (cy)
1-E	Creek Access	Creek Access at Washburn/Vincent	\$20,000					
1.1-A	Remeander / Restoration	Restoration West of Peen	\$437,400	400	1.72			
1.1-D	Creek Access	Creek Access at Penn	\$15,000					
1.1-E	BMP	Stormwater BMP East of Penn	\$180,000			234	74	0
1.1-F	Remeander / Restoration	Creek Retoration West of Newton	\$273,300	275	0.54			
1.1-L	BMP	Stormwater treatment at 52nd Street Outfall (to replace concrete spillway)	\$366,000			14	7	154
1.1-N	BMP	Floodplain storage at Morgan/Logan	\$85,000					
1.1-P	Creek Access	Creek Access at Morgan	\$20,000					
1.2-A	Remeander / Restoration, BMP	Creek Restoration West of James Ave	\$670,000	450	1.4	81	30	603
1.2-B	BMP	Flood Storage at Burroughs	\$8,200,000		2.6			
1.2-E	Creek Access	ADA Creek Access & Fishing Pier	\$375,000					
1.2-F	Remeander / Restoration	Creek Restoration South of ADA Launch	\$1,088,000	650	4.5			
1.2-K	BMP	Underground Flood Storage	\$18,800,00					
1.2-O	Restoration	Daylighted Tributary from Lake Harriet	\$900,000	1500	4			

MPRT Segment 2 Water Resource Projects

LEGEND

Water Resource Projects

- BMP
- Creek Access
- Remeander/Restoration



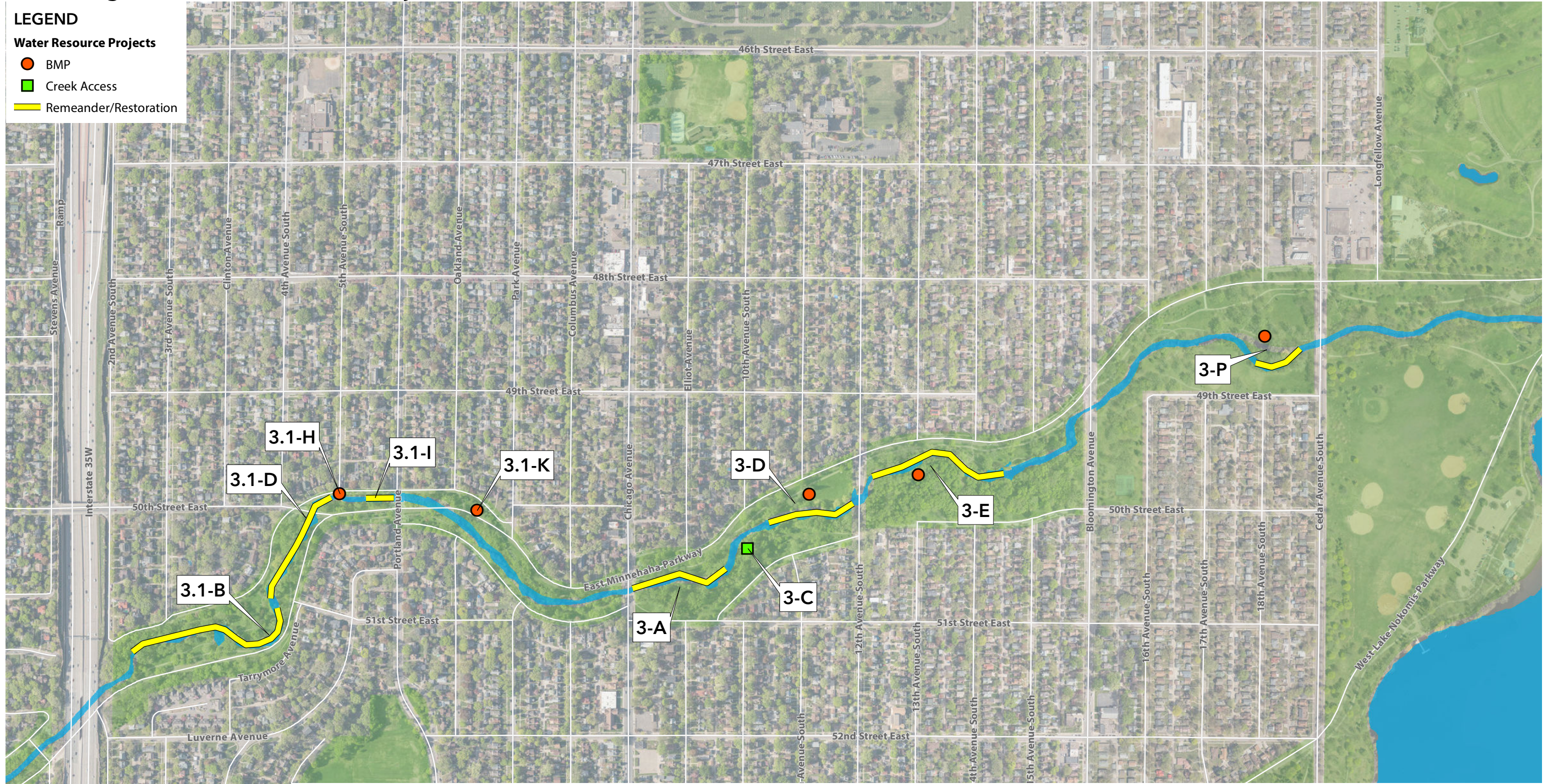
Project Details				Remeander/Restoration Metrics			BMP Metrics	
Tag	Project Type	Project Name	Est. Cost	Lineal Feet of Creek	Acres Restored	Pipeshed Drainage (acres)	Est. Annual TP Removal (pounds)	Floodplain Storage (cy)
2-D	Creek Access	Creek Access at Harriet Ave	\$98,000					
2-E	Remeander / Restoration, BMP	Creek Restoration at Humboldt/Girard	\$1,400,000	1400	5.5	56	19	7643
2-F	Remeander / Restoration	Creek Restoration at Dupont	\$457,500	420	1.1			
2-G	Remeander / Restoration	Creek Restoration at Bryant	\$490,000	470	0.81			
2.1-A	Remeander / Restoration	Creek Restoration Near Valleyview Drive	\$202,500	175	1			
2.1-H	Remeander / Restoration, BMP	Creek Restoration & Remeander and Constructed Wetlands at Nicollet Hollow	\$1,598,000	1500	4.5	152	44	1684

MPRT Segment 3 Water Resource Projects

LEGEND

Water Resource Projects

- BMP
- Creek Access
- ▬ Remeander/Restoration



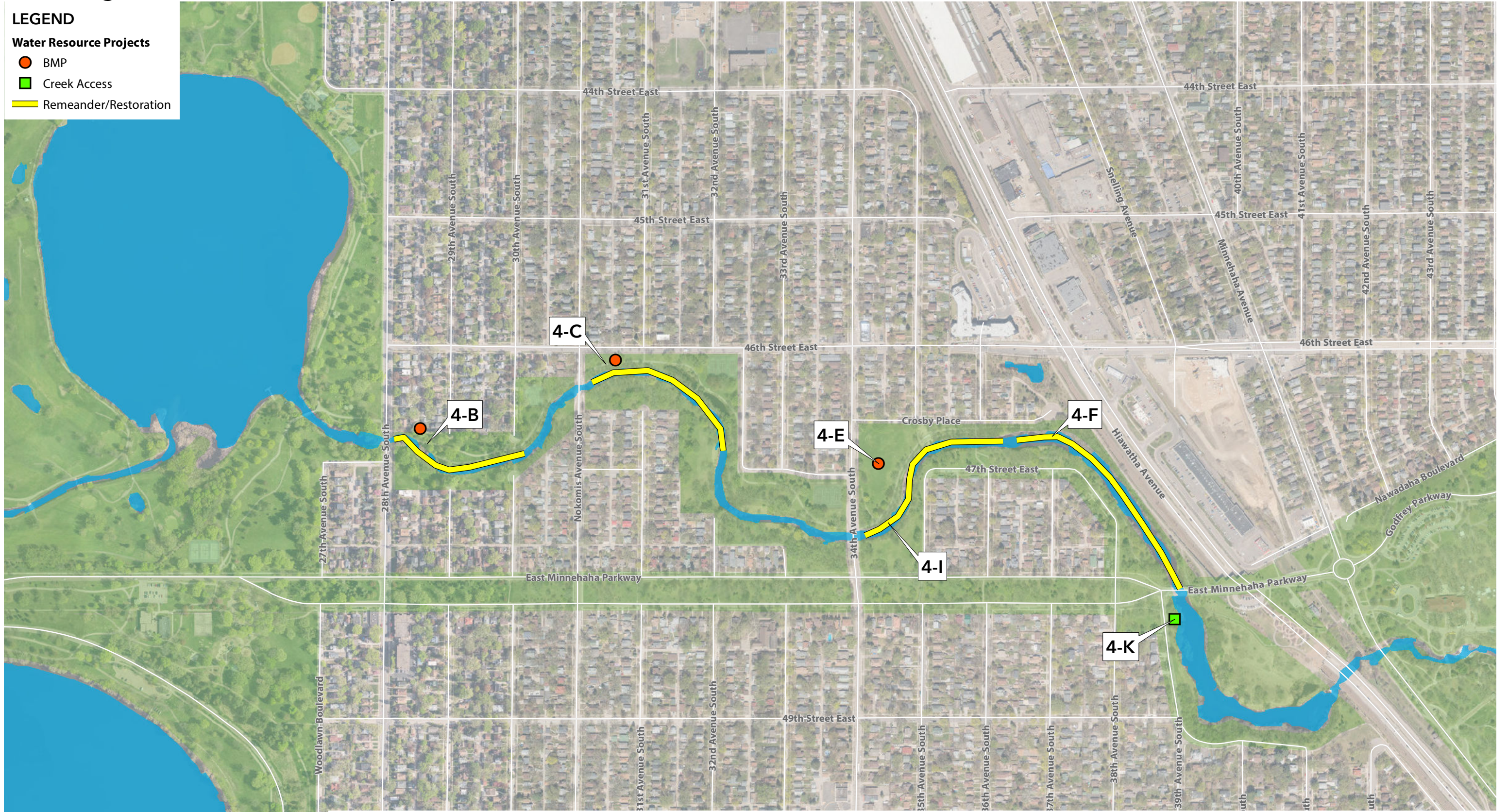
Project Details				Remeander/Restoration Metrics			BMP Metrics	
Tag	Project Type	Project Name	Est. Cost	Lineal Feet of Creek	Acres Restored	Piped Drainage (acres)	Est. Annual TP Removal (pounds)	Floodplain Storage (cy)
3-A	Remeander / Restoration	Creek Restoration at Elliot	\$375,000	560	2.2			
3-D	Remeander / Restoration, BMP	Remeander/ Stormwater BMP at 11th Ave	\$922,200	533	1.5	20	7.5	6988
3-E	Remeander / Restoration, BMP	Remeander/ Stormwater BMP at 13th Ave	\$1,266,000	880	2.2	50	28	40850
3-P	Remeander / Restoration, BMP	Remeander/ Stormwater BMP at 18th Ave	\$346,600	270	2.3	115	52	11121
3.1-B	Remeander / Restoration	Braided Channel at 51st Street/ Tarrymore	\$1,137,000	1050	2.6			
3.1-D	Remeander / Restoration	Creek Restoration at 50th Street Bridge	\$698,000	700	1.5			
3.1-H	BMP	Stormwater BMP at 5th Ave Outlet	\$450,000		0.32			
3.1-I	Remeander / Restoration	Creek Restoration	\$150,000	150				
3.1-K	BMP	BMP at Oakland & Park Ave	\$175,890		0.5	236	30	0

MPRT Segment 4 Water Resource Projects

LEGEND

Water Resource Projects

- BMP
- Creek Access
- Remeander/Restoration



Project Details				Remeander/Restoration Metrics			BMP Metrics	
Tag	Project Type	Project Name	Est. Cost	Lineal Feet of Creek	Acres Restored	Pipeshed Drainage (acres)	Est. Annual TP Removal (pounds)	Floodplain Storage (cy)
4-B	Remeander / Restoration, BMP	Remeander and BMP 28th Ave to 30th Ave	\$662,000	710		6	31	1748
4-C	Remeander / Restoration, BMP	BMP and Creek Restoration Nokomis to 32nd Ave	\$962,000	885	1.7	229	94	119
4-E	BMP	Underground Flood Storage at 34th Ave	\$4,792,000			23	18	19500
4-F	Remeander / Restoration	Creek Restoration 36th Ave to Hiawatha	\$1,733,000	1635	5.8			
4-I	Remeander / Restoration	Restoration at 34th Ave	\$687,000	1040	3.5			
4-K	Creek Access	ADA Creek Takeout	\$120,000					

Minnehaha Creek Phosphorus Loading

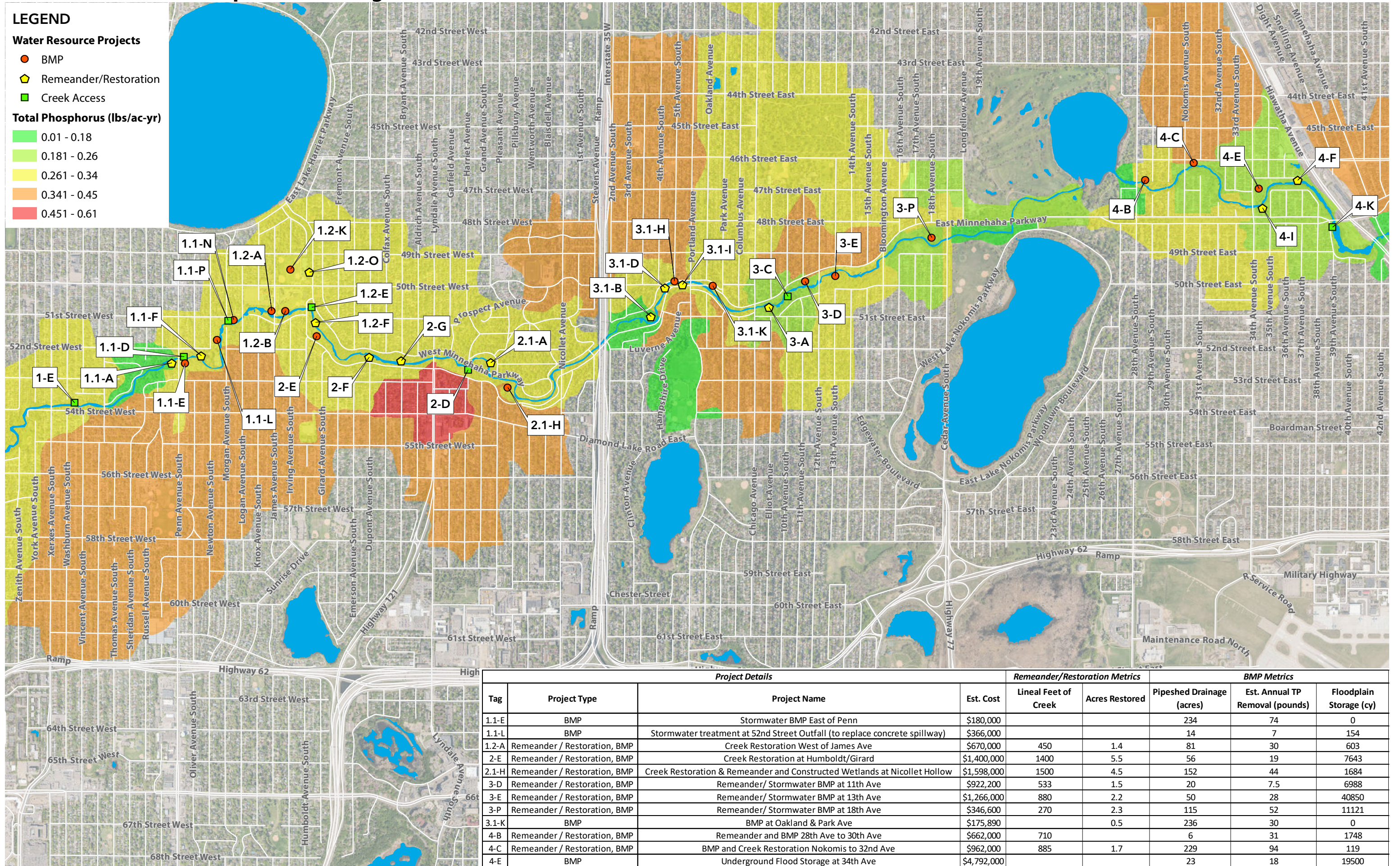
LEGEND

Water Resource Projects

- BMP
- ◆ Remeander/Restoration
- Creek Access

Total Phosphorus (lbs/ac-yr)

- 0.01 - 0.18
- 0.181 - 0.26
- 0.261 - 0.34
- 0.341 - 0.45
- 0.451 - 0.61



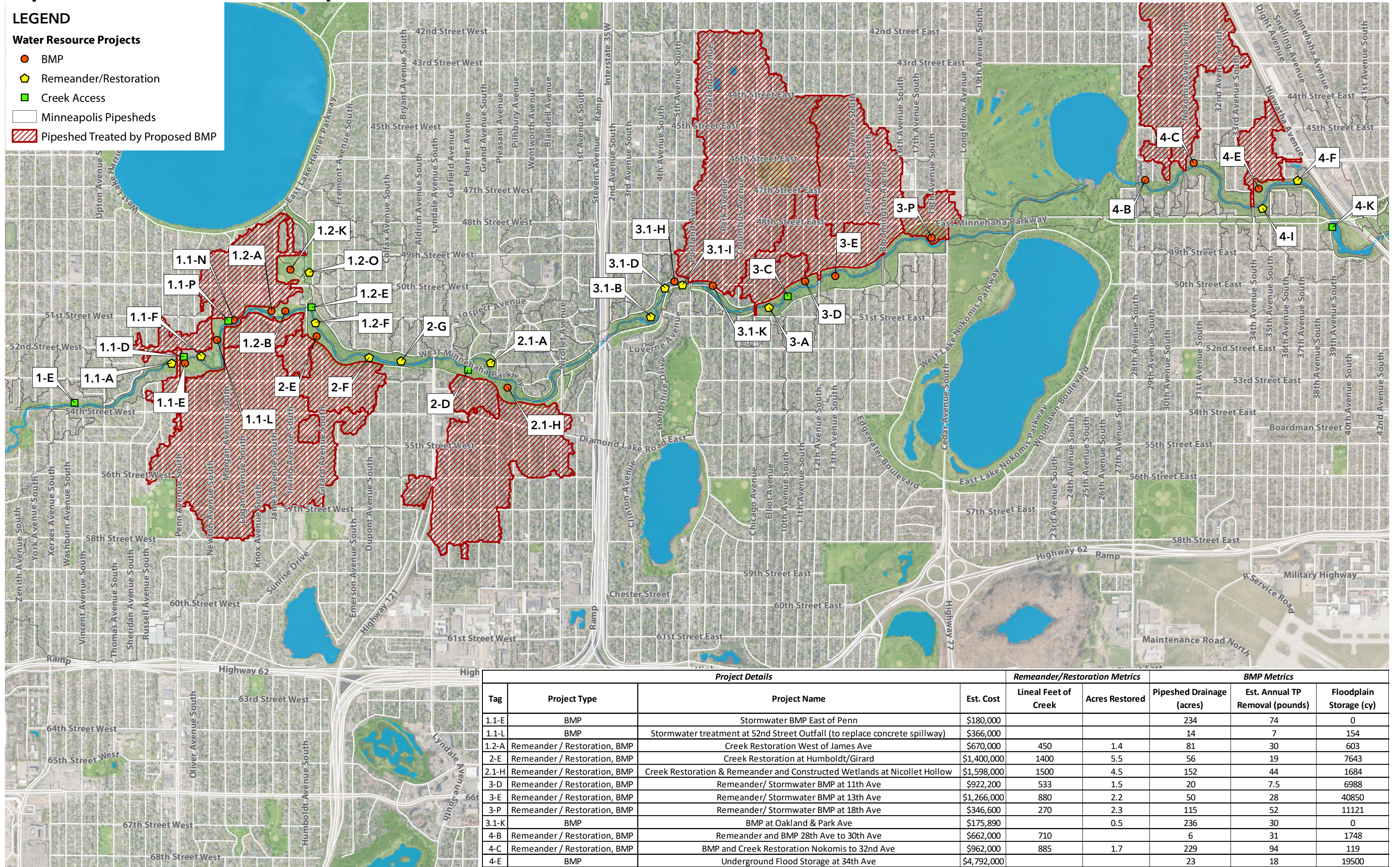
Project Details				Remeander/Restoration Metrics		BMP Metrics		
Tag	Project Type	Project Name	Est. Cost	Lineal Feet of Creek	Acres Restored	Pipeshed Drainage (acres)	Est. Annual TP Removal (pounds)	Floodplain Storage (cy)
1.1-E	BMP	Stormwater BMP East of Penn	\$180,000			234	74	0
1.1-L	BMP	Stormwater treatment at 52nd Street Outfall (to replace concrete spillway)	\$366,000			14	7	154
1.2-A	Remeander / Restoration, BMP	Creek Restoration West of James Ave	\$670,000	450	1.4	81	30	603
2-E	Remeander / Restoration, BMP	Creek Restoration at Humboldt/Girard	\$1,400,000	1400	5.5	56	19	7643
2.1-H	Remeander / Restoration, BMP	Creek Restoration & Remeander and Constructed Wetlands at Nicollet Hollow	\$1,598,000	1500	4.5	152	44	1684
3-D	Remeander / Restoration, BMP	Remeander/ Stormwater BMP at 11th Ave	\$922,200	533	1.5	20	7.5	6988
3-E	Remeander / Restoration, BMP	Remeander/ Stormwater BMP at 13th Ave	\$1,266,000	880	2.2	50	28	40850
3-P	Remeander / Restoration, BMP	Remeander/ Stormwater BMP at 18th Ave	\$346,600	270	2.3	115	52	11121
3.1-K	BMP	BMP at Oakland & Park Ave	\$175,890		0.5	236	30	0
4-B	Remeander / Restoration, BMP	Remeander and BMP 28th Ave to 30th Ave	\$662,000	710		6	31	1748
4-C	Remeander / Restoration, BMP	BMP and Creek Restoration Nokomis to 32nd Ave	\$962,000	885	1.7	229	94	119
4-E	BMP	Underground Flood Storage at 34th Ave	\$4,792,000			23	18	19500

Pipesheds to be Treated with Proposed BMPs

LEGEND

Water Resource Projects

- BMP
- ◆ Remeander/Restoration
- Creek Access
- Minneapolis Pipesheds
- Pipeshed Treated by Proposed BMP



Project Details				Remeander/Restoration Metrics		BMP Metrics		
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Minnehaha Creek Phosphorus Loading & PIPesheds

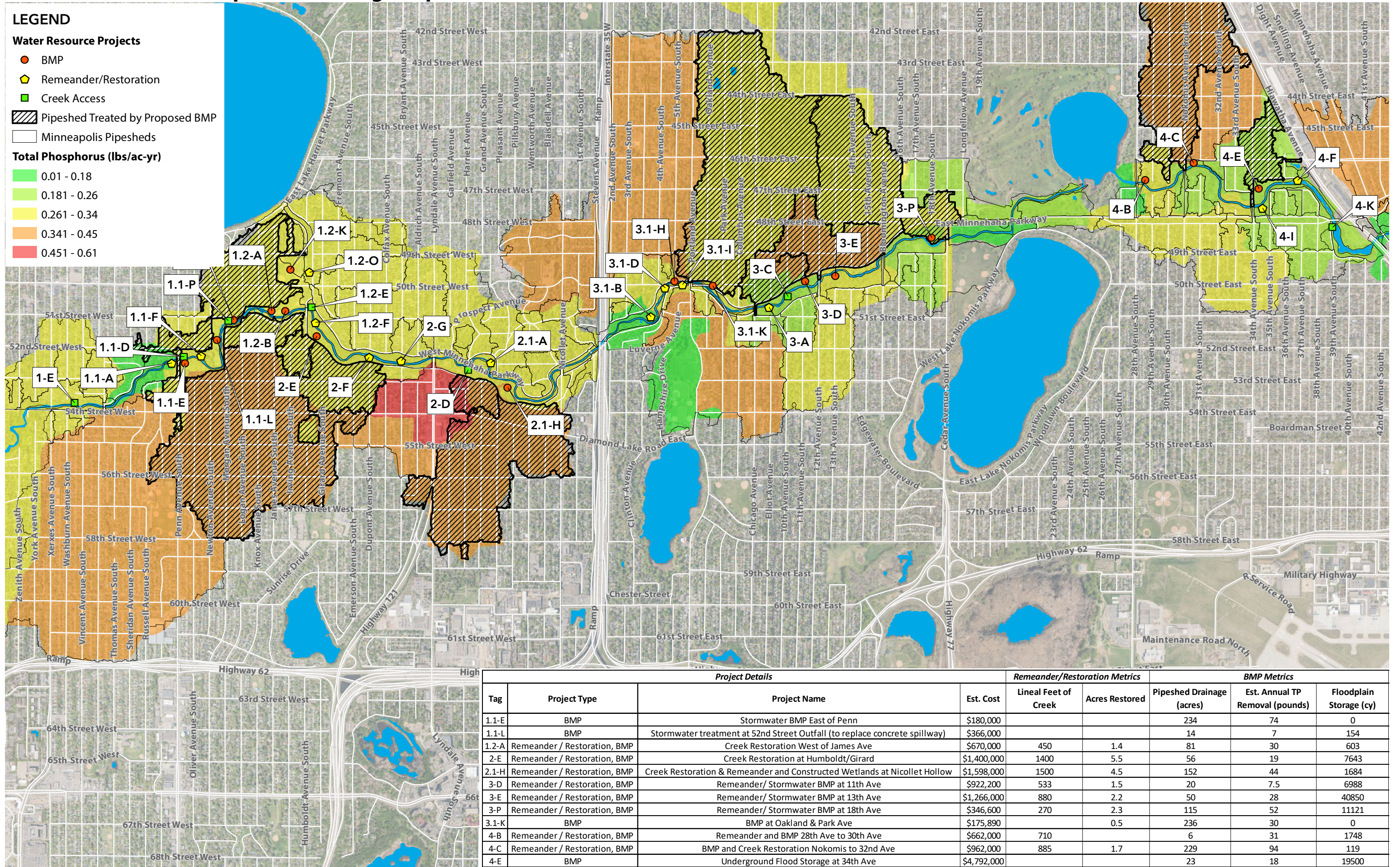
LEGEND

Water Resource Projects

- BMP
- ◆ Remeander/Restoration
- Creek Access
- PIPeshed Treated by Proposed BMP
- Minneapolis PIPesheds

Total Phosphorus (lbs/ac-yr)

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