

**State Project Number** 2785-330    **Federal Project No.** NHPP-I494 (002)

**Trunk Highway:** Interstate 494 (I-494)

**From:** I-394            **To:** I-94 / I-494 / I-694 (Fish Lake Interchange)

**Proposed Improvement:** Pavement rehabilitation and bridge reconstruction; construction of additional general purpose travel lanes within center median from TH 55 to Fish Lake Interchange; auxiliary lane construction on I-494 NB from I-394 to Carlson Parkway; auxiliary lane construction between CSAH 6 to TH 55; stormwater pond construction; and installation of noise barriers.

**Environmental Document anticipated:** Categorical Exclusion (CATEX) Determination

**Project Manager:**    Name:    Chad Casey, P.E.  
                                 Title:    Design Engineer, MnDOT Metro District  
                                 Address: 1500 West County Road B2, Roseville, MN 55113  
                                 Phone:    (651) 234-7617  
                                 Email:    [chad.casey@state.mn.us](mailto:chad.casey@state.mn.us)

This project will impact the following Section 4(f) property.

1. Description of The Section 4(f) Property: Cedar Island Lake Linear Park is illustrated in the attached Exhibit 1 and Exhibit 2 from the City of Maple Grove Parks and Recreation *Comprehensive Park System and Recreation Plan* (December 2008). According to the *Maple Grove Comprehensive Park System and Recreation Plan* (page 15), a linear park is defined as follows:

*This type of park land provides a physical link between two or more areas. The corridor width is variable depending on the natural resources available for preservation, typically ranging between 30-100 feet wide. The width of a Linear Park is important because the amount of land included in the corridor is intended to reflect a park-like atmosphere.*

The location of Cedar Island Lake Linear Park in relation to the proposed I-494 Rehabilitation Project is illustrated in the attached Figure 1. The proposed project would impact a portion of the park located along the west side of Cedar Island Lake between East Fish Lake Road and Teakwood Lane (see attached figure 2). Potential impacts to Cedar Island Lake Linear Park are described in greater detail in Section 2 (Impacts to the Section 4(f) Property).

Name: Cedar Island Lake Linear Park

Size (acre): Cedar Island Lake Linear Park is comprised of several different parcels surrounding Cedar Island Lake. The total park size is 18.1 acres. The proposed action would impact park parcels along the west side of Cedar Island Lake adjacent to I-494.

Location: City of Maple Grove. See attached Exhibit 1 and Exhibit 2.

Ownership: Local Government Unit (City of Maple Grove)

Type of Section 4(f) Property: Linear Park

Function of or Available Activities on the Property: Cedar Island Lake Linear Park provides a trail for walking and bicycling. Park amenities as described in the Maple Grove *Comprehensive Park System and Recreation Plan* are illustrated in the attached Exhibit 3. The existing trail segment at the south end of the park is shown in Exhibit 4. The remainder of the linear park is undeveloped open space.

Description and Location of Existing and Planned Facilities: A pedestrian / bicycle trail runs through Cedar Island Lake Linear Park adjacent to MnDOT right of way. There are no other existing facilities in Cedar Island Lake Linear Park (see Exhibit 3). According to the Maple Grove *Comprehensive Park System and Recreation Plan* (December 2008), there are no planned improvements to Cedar Island Lake Linear Park.

Access: There is no vehicular access to Cedar Island Lake Linear Park. Pedestrian and bicycle access to the portion of the park between I-494 and Cedar Island Lake is available from City streets, including East Fish Lake Road on the south and Teakwood Lane on the north.

Usage: Cedar Island Lake Linear Park usage includes walking and bicycling. The number of trail users is unknown.

Relationship to Other Similarly Used Lands in the Vicinity: Several parks and trails are located in the vicinity of Cedar Island Lake Linear Park that offer similar, and more varied, activities. Nearby parks and trails (east of I-494 and south of I-94 / I-694) are summarized below in Table 1.

**TABLE 1  
PARKS AND TRAILS IN THE VICINITY OF CEDAR ISLAND LAKE LINEAR PARK**

<b>Parks and Trails</b>	<b>Acres</b>	<b>Activities</b>
Hemlock Ponds	2.96 acres	Basketball, play equipment, tennis court
Maple Grove Junior High School	50.76 acres	Ballfield, basketball, football / soccer, hockey, play equipment, tennis court, trails
Cedar Island School	46.61 acres	Ballfield, baseball field, basketball, football / soccer, hockey, tennis court, trails
Eagle Lake Woods	12.73 acres	Ballfield, play equipment, trails
Maple Tree	0.94 acres	Play equipment
Maple Meadows	14.10 acres	Ballfield, play equipment, trails
Sycamore	13.68 acres	Trails
Cedar Island Shores	2.35 acres	Trails

There are a total of 17 linear parks within the City of Maple Grove. These linear park facilities are illustrated in the attached Exhibit 2 and are listed in Exhibit 3.

Applicable Clauses Affecting Ownership: There are no known leases, easements, covenants, restrictions, or other conditions affecting the ownership of Cedar Island Lake Linear Park.

Unusual Characteristics Reducing or Enhancing the Value of the Property: None.

LAWCON Section 6(f) (or other Federal Encumbrances) Impacts: Not applicable. The project has been reviewed for potential Section 6(f) involvement. Cedar Island Lake Linear Park was not acquired or developed with funds from the Land and Water Conservation Fund (LAWCON). No Section 6(f) involvement exists on this project.

2. Impacts to the Section 4(f) Property.

Amount of land impacted: Impacts to Cedar Island Lake Linear Park are the result of a proposed stormwater pond. The proposed pond is needed to treat stormwater runoff from the I-494 corridor prior to discharge to Cedar Island Lake. The drainage area from I-494 that discharges to Cedar Island Lake extends from south of East Fish Lake Road to the Fish Lake Interchange (see Figure 3). Cedar Island Lake is listed on the 303(d) List of Impaired Waters for Minnesota. Cedar Island Lake is impaired for its designated use of aquatic recreation, and the pollutant is excessive nutrients. The proposed stormwater pond is designed to meet Shingle Creek Watershed Management Commission standards, as well as provide as much treatment as possible in order for MnDOT to meet its total maximum daily load (TMDL) waste load allocation (WLA) to Cedar Island Lake.

Construction of the proposed stormwater pond will require the removal of trees between the trail and the west shoreline of Cedar Island Lake. Views of Cedar Island Lake from the trail are currently obstructed by trees and other vegetation. With construction of the proposed stormwater pond, it is likely that the shoreline and lake would be visible from the adjacent trail segment. Trees that are removed will not be replaced.

The total amount of land impacted on Cedar Island Lake Linear Park is approximately 1.7 acres. The pond location and impacted area (i.e., preliminary pond contours) are illustrated in Figure 2.

Permanent R/W Acquisition / Easements: The proposed stormwater pond will require approximately 1.7 acres permanent right of way, including the outlet pipe / ditch to Cedar Island Lake. Right of way acquisition will be in-fee or a permanent drainage easement.

Temporary Easements: None

Functions Affected: None

Facilities Affected: A segment of the Cedar Island Lake Linear Park trail may be temporarily affected during construction of the proposed stormwater pond and associated infrastructure. An existing storm pipe crosses under the trail approximately half way between East Fish Lake Road and Teakwood Lane. This pipe currently conveys runoff from the highway into Cedar Island Lake Linear Park. One option to convey stormwater runoff from I-494 would be to utilize this existing pipe, and tie in a new pipe that would discharge to the proposed pond.

A second option would be to construct a new storm pipe that would discharge directly from I-494 to the proposed pond. Construction of this new pipe could require a portion of the trail to be temporarily removed. The segment of trail will be replaced / restored following pipe construction. Decisions regarding storm pipe construction for discharge to the proposed pond will be made during later stages of final design.

3. Coordination with Responsible Official with Jurisdiction Over the Section 4(f) Property:

MnDOT met with representatives from the City of Maple Grove on June 10, 2014 to discuss Cedar Island Lake Linear Park and the proposed stormwater pond. See the attached meeting summary.

4. Considerations.

Impact Avoidance: Several options were considered to avoid Cedar Island Lake Linear Park (see attached June 10, 2014 meeting summary). The first option was to construct the stormwater pond on residential property between Cedar Island Lake Linear Park and East Fish Lake Road. This option was considered not feasible because it would require the acquisition and relocation of at least one residence.

The second option was to construct stormwater management facilities within existing MnDOT right of way. However, there is not enough available right of way to accommodate construction of a stormwater pond of sufficient size to provide water quality treatment. Small stormwater pockets could be accommodated between the outside shoulder of I-494 and right of way limits. However, these pockets would only provide rate control, and would provide very little water quality benefits. Therefore, this option was considered not feasible.

A third option would include construction of a stormwater pond within the Fish Lake Interchange area. A stormwater pond within the Fish Lake Interchange area would not provide enough treatment to meet MnDOT's phosphorus wasteload allocation reduction goal for Cedar Island Lake. In addition, a pond within the Fish Lake Interchange area would interfere with future reconstruction of the interchange. Therefore, this option was considered not feasible.

Planning to minimize harm: The proposed pond is designed to meet Shingle Creek Watershed Management Commission standards for stormwater management. The proposed pond is also sized to provide as much treatment as possible in order for MnDOT to meet its waste load allocation to Cedar Island Lake. While a smaller sized pond would reduce the amount of parkland impacted, this would also reduce the treatment capacity of the ponds, resulting in fewer water quality benefits to Cedar Island Lake.

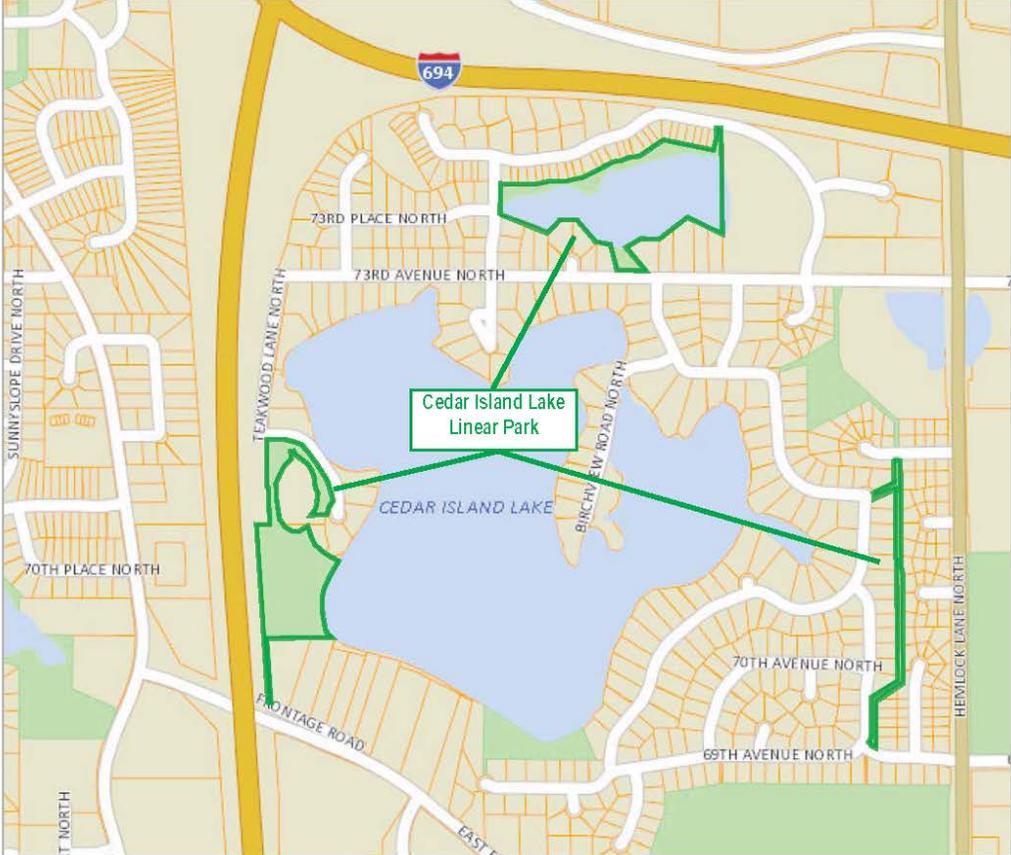
The approximate pond location is illustrated in Exhibit 2. The proposed pond will be located at least 100 feet from the residential property to the south of the park. A tree survey of the affected Cedar Island Lake Linear Park property will be completed in July 2014. Efforts will be made to minimize tree loss and to minimize impacts to mature trees to the extent feasible. Trees that are removed will not be replaced.

Mitigation: As described above, a segment of the pedestrian / bicycle trail within Cedar Island Lake Linear Park may be affected by storm pipe construction. If necessary, this segment of trail will be restored following storm pipe construction. Acquisition will be

conducted in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. Just compensation (i.e., fair market value) will be paid for the acquired parkland.

Enhancement: Stormwater runoff from the segment of I-494 south of East Fish Lake Road to the Fish Lake Interchange discharges to Cedar Island Lake (see Figure 3). Under existing conditions, this runoff is largely untreated. Some infiltration occurs as the highway runoff is conveyed through ditches prior to discharge; however, this treatment is limited. The proposed stormwater pond will treat stormwater runoff from I-494 prior to discharge, helping to improve the water quality in Cedar Island Lake. A two-celled pond is under consideration that would include one wet basin and one filtration basin. Ultimately, treatment of stormwater runoff within the Cedar Island Lake area is necessary for MnDOT to meet its waste load allocation reduction goals for Cedar Island Lake.

 Interactive MapsPark Map



**Cedar Island Lake Linear Park**  
Teakwood Ave and 73rd Ave, Maple Grove

Trails:  


Map Scale: 1" = 800 ft.  
Print Date: 6/20/2014



This map is a compilation of data from various sources and is furnished "AS IS" with no representation or warranty expressed or implied, including fitness of any particular purpose, merchantability, or the accuracy and completeness of the information shown.

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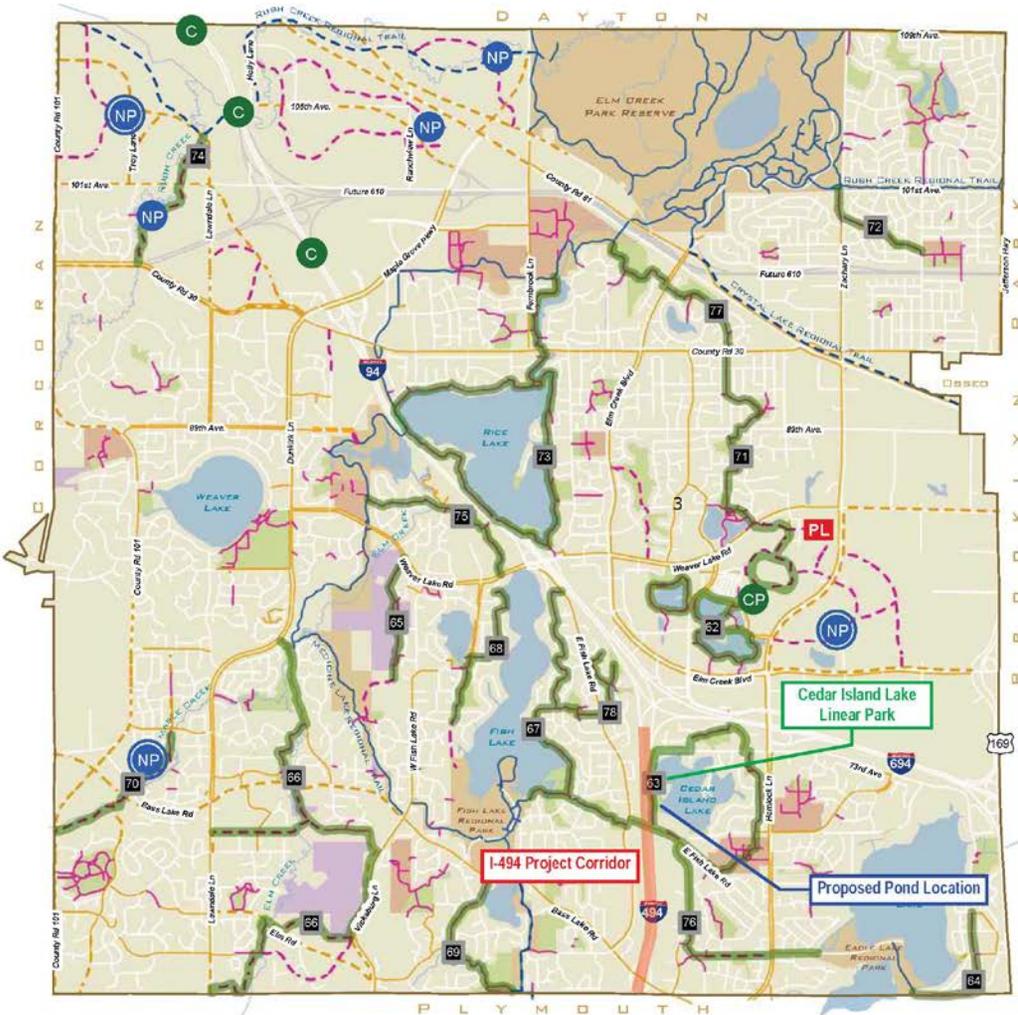
**Exhibit 2 - Linear Parks Map**

Source: City of Maple Grove Parks and Recreation Board. *Comprehensive Park System and Recreation Plan*. December 2008.

**LINEAR PARKS**

**99** Linear Park  
 - Refer to the Park Inventory table on page 12 to find more Linear Parks data.

-  City Park
-  School District Property
-  Three River Park District Facility
-  City Forest Preservation Land
-  Park Trail
-  City Pathway
-  Three Rivers Park District Trail
-  Proposed Park Trail
-  Proposed City Pathway
-  Proposed Three Rivers Park Dist Trail
-  Neighborhood Park with Athletic Fields
-  Neighborhood Park
-  Community Park
-  Conservancy
-  Playlot/Pocket Park



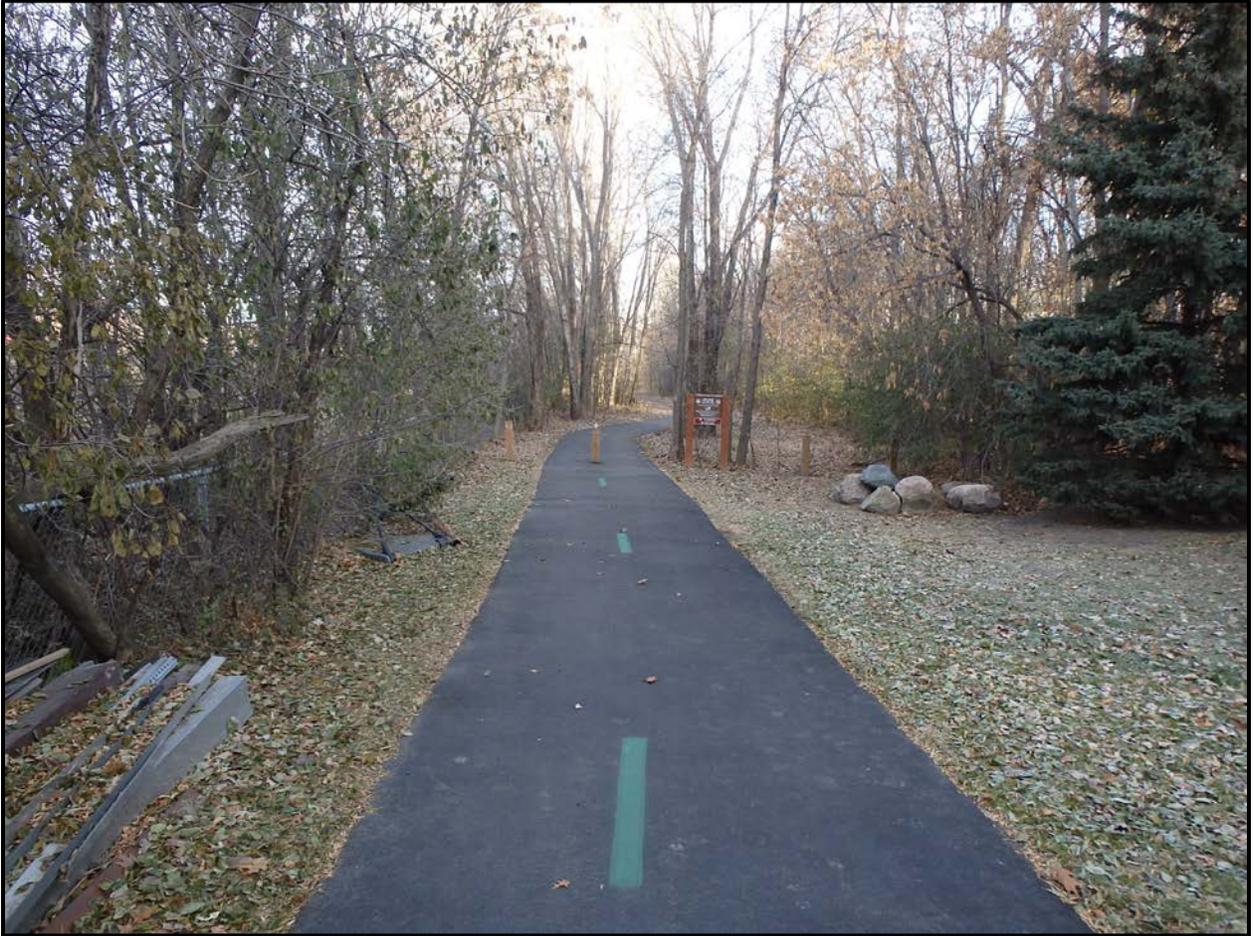
# Maple Grove Comprehensive Park System and Recreation Plan

## Exhibit 3 - Park Amenities

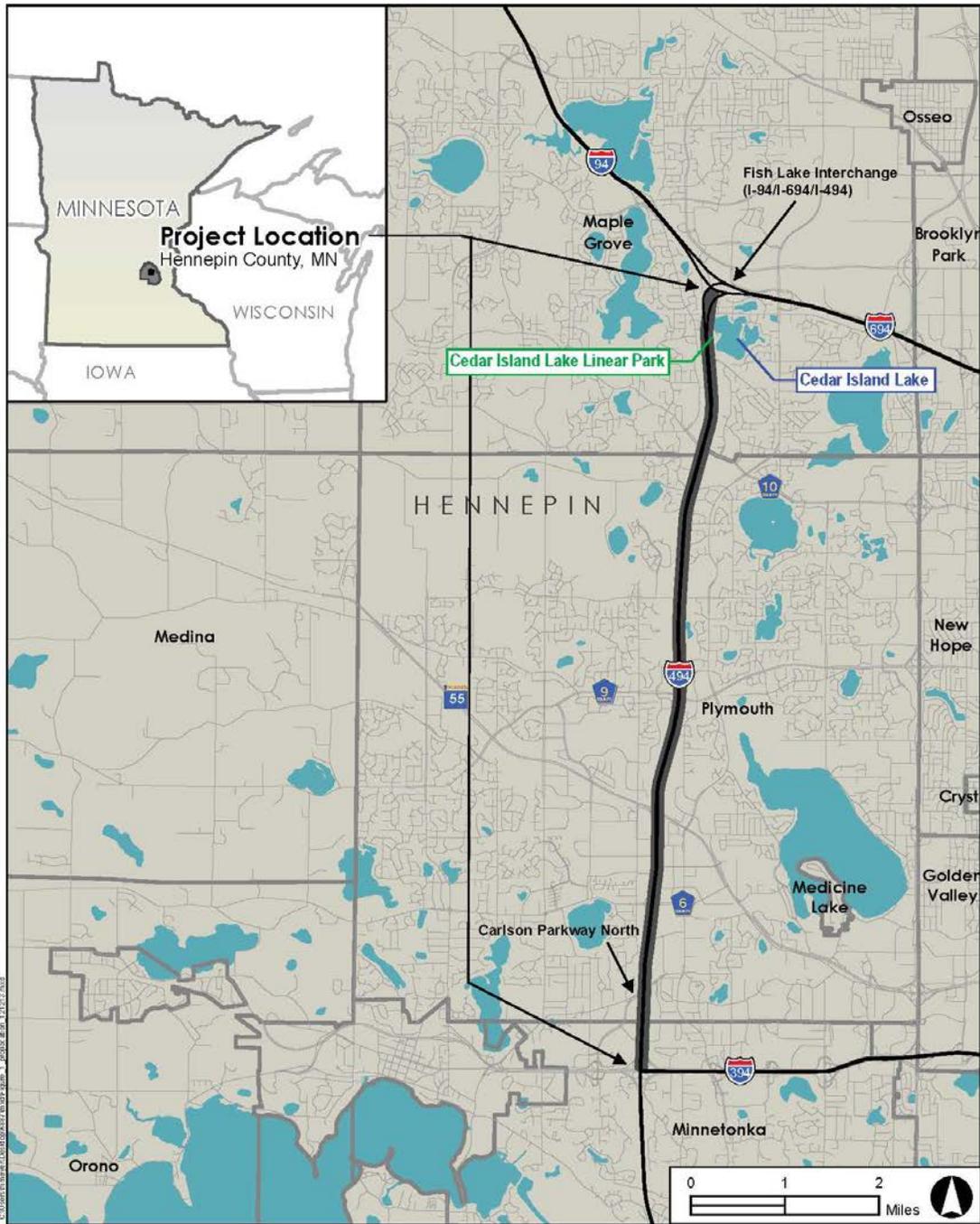
Source: City of Maple Grove Parks and Recreation Board. *Comprehensive Park System and Recreation Plan*. December 2008.

### Park Inventory

Map Key		Park Service Area	Total Acres	Acres Owned by City	Acres Owned by Others	Open Space Acres	Ballfield	Baseball Field	Basketball Court	Boat Launch	Building with Restrooms	Fishing Pier/Dock/Bridge	Football / Soccer Field	Hockey Rink	Horsehoe Pit	Parking Stall	Picnic Pavillion	Play Equipment	Skating Rink	Swimming Beach	Tennis Court	Trail	Volleyball Court	
<b>CONSERVANCY</b>																								
63	EAGLE LAKE MARSH	25	0.55	0.55	0.00	0.55																		
64	FOREST PRESERVATION AREA A	29	88.14	88.14	0.00	88.14																		
65	FOREST PRESERVATION AREA B	32	102.55	102.55	0.00	102.55																		
66	HIDDEN MEADOWS	18	4.81	4.81	0.00	4.81						f												
67	HILLPOINTE HILLS	33	27.30	27.30	0.00	26.00															f			
68	RICE LAKE WOODS	14	43.62	43.62	0.00	43.62																		
69	TIMBERCREST FOREST	27/34	37.47	37.47	0.00	34.00															f			
80	ULSTER GREEN	33	20.79	20.79	0.00	20.79																		
81	WEAVER LAKE KNOLLS	17	10.96	10.96	0.00	10.96																		
	<b>SUBTOTAL</b>		<b>336.19</b>	<b>336.19</b>	<b>0.00</b>	<b>331.42</b>	0	0	0	0	0	f	0	0	0	0	0	0	0	0	0	2	0	
<b>LINEAR PARKS</b>																								
82	ARBOR LAKE	23	55.40	55.40	0.00	15.00																	f	
83	CEDAR ISLAND LAKE	26	18.70	18.70	0.00	18.10																	f	
84	EAGLE LAKE	36	2.00	2.00	0.00	0.00																		
95	ELM CREEK FOREST	29	2.05	2.05	0.00	2.00																		
96	ELM CREEK VALLEY	32	16.84	16.84	0.00	16.84																	f	
97	FISH LAKE - EAST	27	3.93	3.93	0.00	3.40						f											f	
98	FISH LAKE - WEST	28	14.98	14.98	0.00	10.20																	f	
68	HIGHPOINTE HILLS LINEAR	33	11.22	11.22	0.00	10.00						f											f	
70	MAPLE CREEK	30/31	1.32	1.32	0.00	1.32																		
71	MAPLE LAKES LINEAR	14	11.65	11.65	0.00	10.50						f											f	
72	MAPLE VALLEY	12	12.93	12.93	0.00	11.30																	f	
73	RICE LAKE	39/15	49.30	49.30	0.00	41.43							4										f	
74	RUSH CREEK LINEAR	6	6.20	6.20	0.00	6.20						f											f	
75	SHADOW CREEK	17	11.28	11.28	0.00	10.20						f											f	
76	SYCAMORE	35	13.68	13.68	0.00	13.00																	f	
77	TEAL LAKE LINEAR	10	38.13	38.13	0.00	36.00																	f	
78	WEDGEWOOD LINEAR	27	11.69	11.69	0.00	11.00																	f	
	<b>SUBTOTAL</b>		<b>281.30</b>	<b>281.30</b>	<b>0.00</b>	<b>214.49</b>	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	13	0
<b>MAPLE GROVE TOTAL</b>			<b>1,580.28</b>	<b>1,193.84</b>	<b>386.71</b>	<b>824.51</b>	<b>53</b>	<b>10</b>	<b>31</b>	<b>1</b>	<b>13</b>	<b>16</b>	<b>20</b>	<b>12</b>	<b>10</b>	<b>3629</b>	<b>4</b>	<b>48</b>	<b>17</b>	<b>1</b>	<b>45</b>	<b>53</b>	<b>12</b>	
<b>FACILITIES PROGRAMMED IN OTHER CITIES</b>																								
NA	BASS LAKE (PLYMOUTH)	NA	18.81	0.00	18.81	0.00	1	1																
39	OSSEO JR. HIGH (ISD #275, Osseo)	NA	12.88	0.00	12.88	0.00	2																	
40	OSSEO SR. HIGH (ISD #279, Osseo)	NA	30.26	0.00	30.26	0.00	3	2																
	<b>SUBTOTAL</b>		<b>61.95</b>	<b>0.00</b>	<b>61.95</b>	<b>0.00</b>	<b>6</b>	<b>3</b>																
<b>TOTAL FACILITIES PROGRAMMED</b>							<b>59</b>	<b>13</b>																
<b>THREE RIVERS PARK DISTRICT FACILITIES</b>																								
79	EAGLE LAKE REGIONAL PARK		66.82	-	66.82																			
80	ELM CREEK PARK RESERVE		1,260.98	-	1,260.98																			
81	FISH LAKE REGIONAL PARK		149.38	-	149.38																			
82	MEDICINE LAKE REGIONAL TRAIL		330.24	-	330.24																			
83	RUSH CREEK REGIONAL TRAIL		18.24	-	18.24																			
<b>PARK DISTRICT TOTAL</b>			<b>1,825.66</b>	<b>0.00</b>	<b>1,825.66</b>																			
<b>NOTES:</b>																								
*Open Space* is land which is currently undeveloped, and where major future improvements are unlikely or not practical such as wetlands, forests, conservancies.																								
Linear Park acres do not include acres that are also part of other park classification.																								



**Exhibit 4.** South end of Cedar Island Lake Linear Park and trail (facing north). Interstate 494 is on the left side of the picture. The proposed stormwater pond would be located along the east side of the trail, between the trail and Cedar Island Lake.



**Area Location**

I-494 Rehabilitation Project  
 SP 2785-330  
 Mn/DOT

**Figure 1**

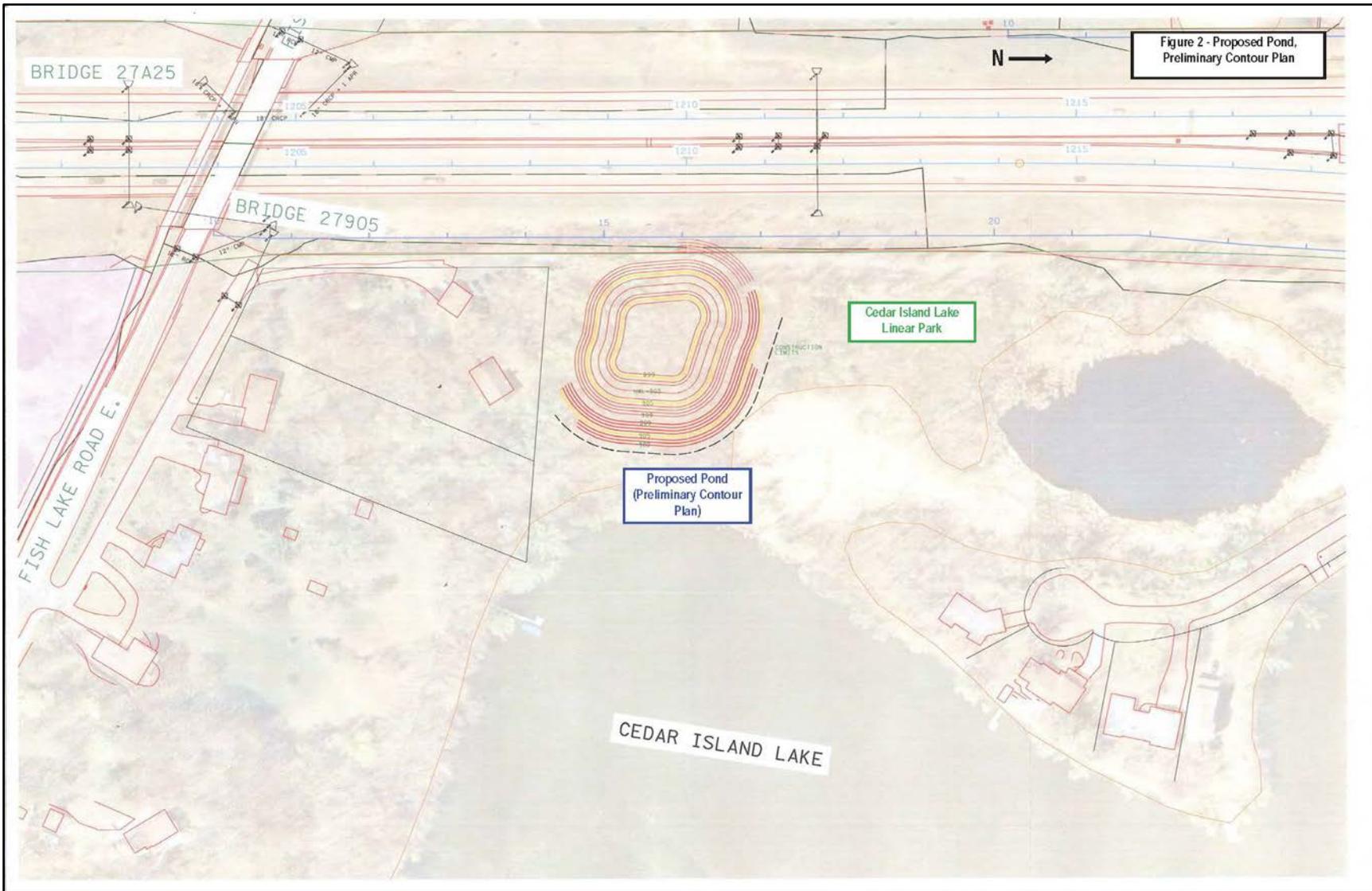


Figure 2 - Proposed Pond, Preliminary Contour Plan

Proposed Pond (Preliminary Contour Plan)

Cedar Island Lake Linear Park

CEDAR ISLAND LAKE

BRIDGE 27A25

BRIDGE 27905

FISH LAKE ROAD E.

N →

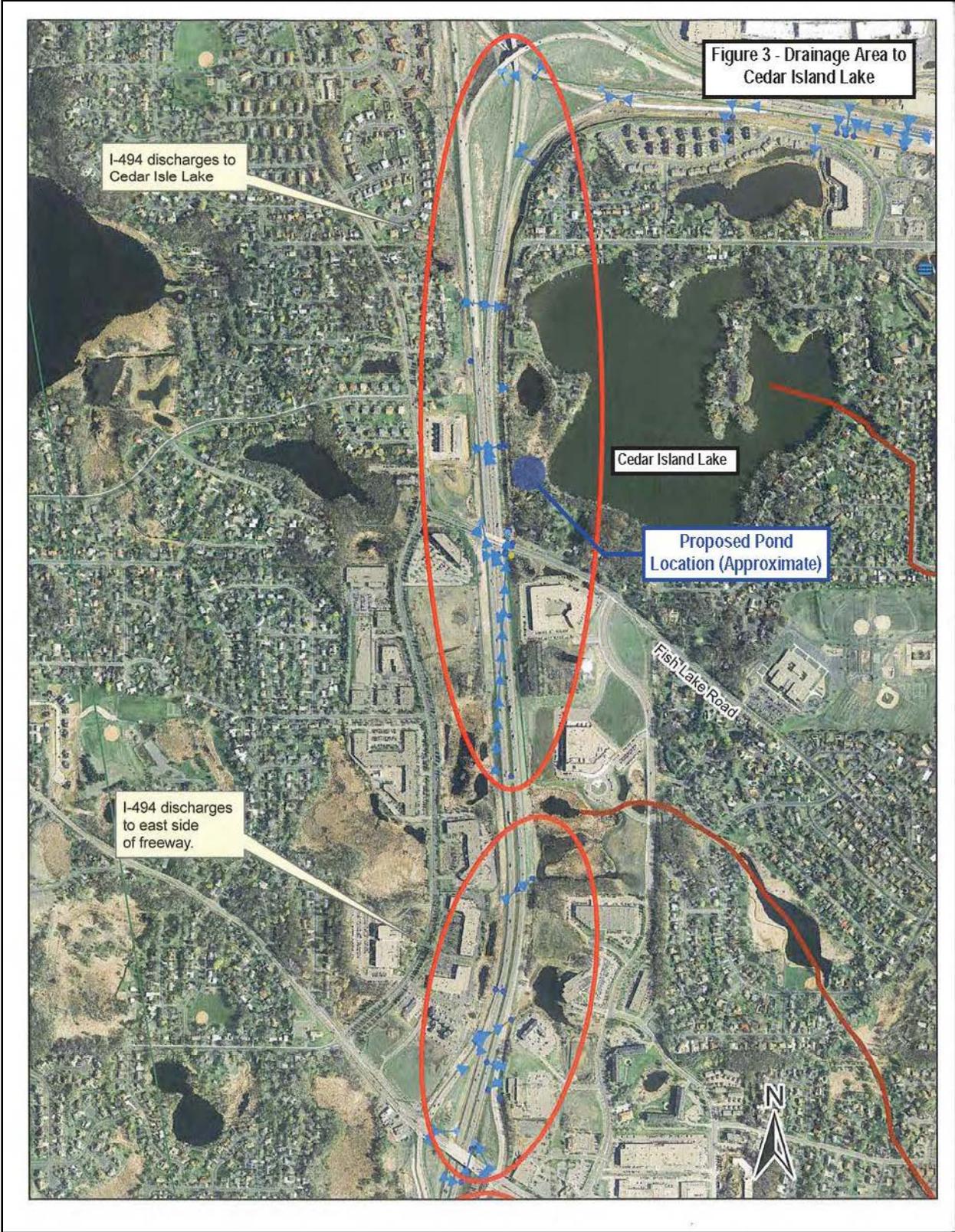


Figure 3 - Drainage Area to Cedar Island Lake

I-494 discharges to Cedar Isle Lake

Cedar Island Lake

Proposed Pond Location (Approximate)

Fish Lake Road

I-494 discharges to east side of freeway.





**Meeting Notes**  
 Metro District  
 1500 West County Road B2  
 Roseville, MN 55113

**I-494 General Purpose Lane (SP 2785-330)**

**Stormwater Treatment – Maple Grove Area**

**Tuesday, June 10, 2014**

• **Attendees:**

Maple Grove	MnDOT	SRF
Chuck Stifter	John Griffith (Area Manager)	Lisa Goddard
Terry Just	Rick Dalton (Project Documentation)	
Ken Ashfeld	Beth Neuendorf (Water Resources)	
	Nick Olson (Water Resources)	
<b>FHWA</b>	Doug Nelson (Right of Way)	
Emeka Ezekwemba	Shane Rowbotham (Designer)	
	Chad Casey (Project Manager)	

• **Project Rescoped**

The project scope has changed from the addition of a dynamic shoulder on the outside to the addition of a general purpose lane on the inside. This change has increased our added impervious and required additional storm water ponding.

• **Stormwater Requirements**

MnDOT has committed to a TMDL phosphorus WLA reduction goal of 32 lb/yr under MS4 for discharges to Cedar Island Lake. This reduction does not have to occur all at once, it can be spread over time. However, we do need to show progress toward the goal.

• **Discussion of Cedar Island Lake Linear Park Site**

The Cedar Island Lake Linear Park site was selected for several reasons:

- It was the only viable and vacant parcel in the area.
- It is in the right location to meet the design requirements
- It was thought to be a Hennepin County Tax forfeited parcel, simplifying the acquisition process

The pond shown at this location provides roughly one-quarter to one-third of the treatment needed to meet the TMDL, depending on its depth.

• **Potential Park Impacts**

- This is a 4(f) impact since it involves use of City of Maple Grove parkland for another purpose (drainage).
- Based on the preliminary design, the pond would take approximately 1.7 acres of the 18.1 acre park, but would not affect the primary purpose of the park – conveyance of the trail connection between Teakwood Ln and E. Fish Lake Rd.
- The pond would require some tree removal.

• **City Feedback**

The City has some concerns with the loss of trees in the park with respect to potentially negative reaction from the public, both neighbors and trail users. There was some discussion whether tree removal and an open water feature could actually enhance the



## Meeting Notes

Metro District  
1500 West County Road B2  
Roseville, MN 55113

trail user experience, though this would be subjective. There was also a concern the public may comment on potential issues posed by the depth of the pond (10'). MnDOT is proceeding with a 4' pond with a shallower 10' bench around the pond to alleviate these concerns. The City did agree the pond would benefit water quality in Cedar Island Lake, and the Cedar Island Lake Homeowners Association is very concerned with water quality in the lake..

- **Alternatives**

The City inquired about possible alternatives in meeting the TMDL WLA reduction requirements.

- Two existing ponds built in the TH 694 area account for about a third of the required TMDL reduction.
- The Fish Lake Interchange is a possibility, but could only generate another third of the required reduction. Use of the interchange for ponding on the current project would also be a challenge during a future project to rebuild that interchange.
- Purchase of neighboring residential parcels would not be cost effective and would not be possible under the current schedule, placing the project at risk.
- Consider other opportunities to increase the water quality treatment provided at this site, such as adding alum treatment or an iron-enhanced sand filter

The group agreed in principle MnDOT should move ahead with design and public outreach due to the project benefits to water quality in Cedar Island Lake.

- **Potential Justification Methods**

- Net Benefit: It might be difficult to show the pond would be a net benefit to the park due to the subjective nature of the value of water vs. trees
- Section 4(f) De Minimis Impact Finding: Would need to show the impacts would not adversely affect the activities, features & attributes of the Linear Park. This would require a public hearing and comment period.

The group agreed the Section 4(f) De Minimis Finding would be the most logical process.

- **Minimization/Mitigation of Impacts**

The City had the following comments on minimizing/mitigating the impacts of the pond:

- Move the pond north as much as possible away from the neighbors, while still providing the desired phosphorus removals
- If possible, treat the mix of public/private off-site water coming from west of TH 494 through the north side of the park
- Access site off Teakwood Ln to the north for construction and long-term maintenance
- Consider Easement Agreement with local permit to allow watershed to do treatment (may not be necessary if MnDOT installs iron filter berm or a filtration basin cell.)

- **Miscellaneous Items**

- Right-of-way acquisition would be in-fee or permanent drainage easement. Limited use permit could be revoked, which would be problematic.
- The Administrative Park Board has policy making authority, but land decisions are in the Council's purview.
- John requested Municipal Consent wait until the ponding has been worked out, the City concurred.



## Meeting Notes

Metro District  
1500 West County Road B2  
Roseville, MN 55113

- **Next Steps**

- Rick will send out a sample De Minimus letter (Sent to Chuck Stifter, Emeka Ezekwemba & Chad Casey 6/11/14)
- Chad Casey will set up field walk ASAP (Occurred on 6/17/14 at)
- City will delay Municipal Consent
- Ken and Terry will start educating the City Council
- SRF will provide the City with water quality numbers.
- SRF will study the possibility of shifting the pond north and look at the impacts of the off-site water. They will also look at two-celled treatment: wet pretreatment pond followed by filtration cell.