Item #20:

Village Engineer Shrake

SMC Board Meeting - 12/10/2015

01/07/16

STORMWATER MANAGEMENT COMMISSION
MEMORANDUM

TO:	Watershed Management Board Members
FROM:	SMC Staff
RE:	Proposed Enhancements to WMB Policies and Procedures
DATE:	December 10, 2015

ACTION REQUESTED: APPROVAL of WMB Policy and Procedures Enhancements

The Lake County Watershed Management Board (WMB) Policies and Procedures document provides guidance to the WMB on its role, responsibilities, organization, and relationship to the Lake County Stormwater Management Commission (SMC). Specifically, the Policies and Procedures document governs how projects are developed and approved for SMC funding or staff resource allocations and outlines the compliance and prioritization criteria for projects seeking SMC funding or staff assistance.

SMC staff has developed three proposed modifications to the WMB Policies and Procedures document for your consideration which would become effective for the 2017 WMB Program:

(1) Adding in language into the WMB Policies and Procedures document to allow for partial reimbursements and to encourage applicants to complete the project deliverables. With the large number of proposals that SMC receives for the WMB program, this is another way to encourage applicants to submit their final deliverables and fully complete their WMB projects.

Therefore, the addition of **Project Compliance Criteria #9** to the WMB Policy and Procedures document is proposed to address this issue. The proposed modification is shown in Attachment 1 in ***red, bold, italicized font***.

(2) Adding in language into the WMB Policies and Procedures document to clarify that WMB applicants must be a part of an incorporated entity, nonprofit group, or local government or agency. This language was already incorporated into the WMAG Eligibility but was not made clear for the WMB program.

Therefore, the addition of **Project Compliance Criteria #10** to the WMB Policy and Procedures document is proposed to address this issue. The proposed addition is shown in Attachment 1 in ***red, bold, italicized font***.

(3) Adding in language into the WMB Prioritization Criteria to clarify the education component is Phosphorus based. This hasn't been consistently interpreted by applicants but does not change the intent of the criteria.

Therefore, the addition of **Project Prioritization Criteria #9** to the WMB Policy and Procedures document is proposed to address this issue. The proposed addition is shown in Attachment 1 in ***red, bold, italicized font***.

Additionally, the WMB Policies and Procedures document has been updated to match the language used in the most recent Request-for-Proposal Packet, to better define the role, organization and responsibilities of the WMB, and to clarify how projects are developed and approved for SMC funding or staff resource allocations. The updated WMB Policy and Procedures document has been attached for your consideration.

ATTACHMENT 1

WATERSHED ASSISTANCE AND FUNDING RECOMMENDATIONS

PROJECT COMPLIANCE CRITERIA:

9. *Interim project payments: Up to 50% of the WMB/WMAG funding can be invoiced by the applicant prior to submitting final deliverables, providing documentation of progress towards completion of the scope of work. The final 50% (or final balance) will be reimbursed upon receipt and approval by SMC of final deliverables.*

10. *The grant may be made directly to the applicant if it is an incorporated entity. If the applicant is not incorporated, the grant recipient may be a nonprofit group, or local government or agency that is an active participant in the program. In this case, the grantee needs to demonstrate strong support from the applicant for its role as grant recipient and coordinator of the funded activities.*

PROJECT PRIORITIZATION CRITERIA:

9. *(Phosphorous)* **Public Education Component -** Include a public education and outreach effort aimed at reducing the amount of phosphorus contained in stormwater runoff. This may include reducing the amount of fertilizer applied to lawns, using phosphorus-free fertilizers, and establishing buffer strips along lake shores, stream banks, and wetlands. Applicants may also choose to adopt an ordinance banning the use of fertilizers and detergents containing phosphorus.

WMB FY2015/FY2014 Project Status Summary		
Projects		Project Status – Project Completion Date
WMAG	Grandwood Park Water Quality Public Outreach & Education Program	To be completed in 2016
Des Plaines	Mallard Ridge Detention Basin	Completed
	Elm and River Oaks	Completed
	PCCS Bioswale and Rain Garden	Completed
	Third Lake Dam Study	To be completed in 2016
	Olsen Ct and Indian Creek stormsewer	Completed
	Valley Forge Detention Basin	To be completed in 2016
	Lakeridge Invasive Species Management	Completed
	Crooked Lake Shoreline Restoration	To be completed in 2016
North Branch	Academy Woods HOA	Completed
	Green Oaks Banbury Lake Cranbrook Road Ditch	To be completed in 2016
	Strawberry Condominiums Overland Flow Path	To be completed in 2016
Fox	Lake Antioch Dam Stabilization	Completed
	Woodhills Bay Stormwater Management Improvements	To be completed in 2016
	Flint Creek Watershed Monitoring	To be completed in 2016
	Lathan's Landing Restoration	To be completed in 2016
	Orchard Hills Townhomes Pond Restoration, Phase 1	Completed
	Tanneron Bay Shoreline Restoration, Phase 3	To be completed in 2016
	FY14 Project: Pines of Lakemoor HOA	To be completed in 2016
	FY14 Project: Kelsey Road Drainage Project	To be completed in 2016
Lake Michigan		

FY '16 WMB APPLICATION SUMMARY

WATERSHED MANAGEMENT ASSISTANCE ($12,000 available)

Project	Applicant	Score	Total Cost	Requested Amount	SMC Staff Recommended Funding
Greater Pistakee Lake Watershed Group	Fox Waterway Agency	220	$ 24,000	$ 12,000	$ 9,270
	WMAG TOTAL		$ 24,000	$ 12,000	$ 9,270

DES PLAINES RIVER ($67,620 available)

Project	Applicant		Total Cost	Requested Amount	Recommended Funding
Indian Creek Stream Improvement at Longview Meadow	Long Grove Park District	325	$ 30,500	$ 14,000	$ 14,000
Suburban Country Club Tributary Stream Maintenance	Village of Beach Park	325	$ 16,000	$ 8,000	$ 8,000
Libertyville Township Casey Road Tile Restoration	Libertyville Township	305	$ 85,000	$ 30,000	$ 30,000
Bob Diehl Stoneroller Creek Study	Village of Gurnee	300	$ -	80 staff hrs	DPR IEPA Grant
Andover Drive Drainage Improvements	Village of Kildeer	290	$ 250,450	$ 50,000	SIRF rec.
Lakeridge restoration association ADID wetland	Lakeridge Restoration Association	260	$ 14,500	$ 9,000	up to $9,000
Shenandoah Lane Drainage Improvements	Village of Long Grove	260	$ 262,016	$ 50,000	SIRF rec.
29th Street Culvert Installation	Village of Beach Park	245	$ 14,750	$ 7,375	SIRF rec.
Ravinia and Hiawatha land bridge and stream restoration	Sylvan Lake Improvement Association	215	$ 8,200	$ 4,000	$ 4,000
PCCS Aquatic Habitat Demonstration	Prairie Crossing Charter School	190	$ 10,350	$ 5,175	$ -
Dady and Decker HOA shoreline protection	Warren Township	180	$ 14,525	$ 5,645	$ -
Valley Lake Lake Study	Wildwood Park District	180	$ 4,600	$ 2,300	$ -
Detention Basin Dredging	Mallard Ridge HOA	160	$ 68,200	$ 10,000	$ -
	WMB TOTAL		$ 779,091	$ 195,495	$ 65,000

NORTH BRANCH CHICAGO RIVER ($33,800 available)

Project	Applicant	Score	Total Cost	Requested Amount	Recommended Funding
Strawberry Condo Pond Outfall Reconfiguration	Strawberry HOA (RHMG)	340	$ 26,500	$ 13,000	$ 13,000
Hybernia shoreline stabilization	Hybernia HOA	215	$ 27,350	$ 13,200	$ 13,200
Skokie River Headwaters Restoration Planting	LCFPD	195	$ 36,750	$ 15,000	319/ Chi-Cal Rivers Fund
	WMB TOTAL		$ 90,600	$ 41,200	$ 26,200

FOX RIVER ($33,800 available)

Project	Applicant	Score	Total Cost	Requested Amount	Recommended Funding
Timber Lake Bioswales & Stream Restoration	Timberlake Estates Civic Association	325	$ 176,743	$ 10,000	$ 10,000
Stormwater Management System Enhancements, Phase 1	Dunn's Lake Shoreline Estates HOA	300	$ 23,479	$ 10,750	$ 10,750
Bays Park Rain Garden	Tower Lakes Improvement Association	285	$ 119,000	$ 10,000	$ 10,000
Paulus Park Stormwater Management Improvements	Village of Lake Zurich	225	$ 55,000	$ 20,000	$ 20,000
Eton Park Resoration	Village of North Barrington	180	$ 24,500	$ 5,000	$ -
	WMB TOTAL		$ 398,722.20	$ 55,750.00	$ 50,750

LAKE MICHIGAN ($25,780 available)

Project	Applicant	Score	Total Cost	Requested Amount	Recommended Funding
Talmadge Ave Culvert Replacement	Village of Beach Park	305	$ 250,000	$ 25,780	SIRF rec.
Bowen Park Rain Garden, Ravine Stabilization Buffer, PermPaver	Waukegan Park District	295	$ 102,400	$ 25,780	$ 25,780
	WMB TOTAL		$ 352,400	$ 51,560	$ 25,780

FY 2016 SUMMARY			Total Cost	Requested Amount	SMC Staff Recommended Funding
GRAND TOTAL $177,000					
Total includes $4,000 Contingency			$ 1,644,813	$ 356,005	$ 177,000

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

To: Watershed Management Board Members

From: Kurt Woolford, Chief Engineer

RE: ***December 10, 2015 WMB Meeting 6:00 P.M.***

Date: November 20, 2015

The Lake County Watershed Management Board (WMB) will meet at 6:00 PM December 10, 2015 at Lake County Stormwater Management Commission, 500 W. Winchester Road, Libertyville.

YOU ARE A WATERSHED MANAGEMENT BOARD MEMBER IF YOU ARE:

- ✓ **THE CHIEF ELECTED OFFICIAL OF ANY LAKE COUNTY MUNICIPALITY**
- ✓ **A LAKE COUNTY TOWNSHIP SUPERVISOR**
- ✓ **THE PRESIDENT OF AN ACTIVE LAKE COUNTY DRAINAGE DISTRICT**
- ✓ **A LAKE COUNTY BOARD MEMBER**
- ✓ **A DELEGATE OF ONE OF THE ABOVE (See delegate form enclosed)**

The primary purpose of this annual WMB meeting is to evaluate and recommend WMB project funding for 2016. Project recommendations will be forwarded to the Stormwater Management Commission (SMC) for approval in January of 2016. Please review the attached project proposal summaries and staff recommendations in this packet prior to the meeting. Application summaries are included, and the full applications are available upon request. SMC staff will present the projects at the meeting. Project applicants are welcome to provide additional information as desired. Staff will also provide a brief update on the status of this year's projects at the meeting.

WMB members who are unable to attend, but have not yet delegated an alternate, may do so by submitting a delegate form (enclosed) prior to the meeting. You can reach me at 847-377-7720 if you have any questions. Delegate forms may be submitted by e-mail to kwoolford@lakecountyil.gov.

STORMWATER MANAGEMENT COMMISSION

WATERSHED MANAGEMENT BOARD
ANNUAL MEETING

December 10, 2015
6:00 PM

Lake County Stormwater Management Commission
500 W. Winchester Road
Libertyville, IL

Meeting Agenda

1.0 CALL TO ORDER
Changes/Additions to Agenda

2.0 ELECT CHAIRMAN PRO-TEM
Pledge of Allegiance
Self-introductions of all meeting attendees and identification of voting members

3.0 STAFF REPORTS/ PROJECT STATUS UPDATES
FY2015 WMB Projects – Kurt Woolford

4.0 OLD BUSINESS

5.0 NEW BUSINESS
FY2016 WMB project proposals
SMC staff evaluation and recommendations
Public comment and information
WMB Project recommendations to the Stormwater Management Commission
Proposed Modifications to the WMB Policies and Procedures

6.0 ADJOURNMENT

STORMWATER MANAGEMENT COMMISSION

STORMWATER MANAGEMENT COMMISSION

DES PLAINES RIVER, FOX RIVER, LAKE MICHIGAN & NORTH BRANCH CHICAGO RIVER WATERSHED MANAGEMENT BOARD REPRESENTATIVE APPOINTMENT FORM

Name of Chief Elected Officer: _____

Representing: _____
(City, village, township, active drainage district)

Watershed(s): _____

Appointed Delegate: _____

Address: _____

_____

_____

Phone: _____

FAX: _____

E-MAIL: _____

The above named shall be my representative on the Watershed Management Board(s) in my absence and may vote on my behalf during my term of office, or until otherwise notified.

_____
(Signature of Chief Elected Officer)

_____
(Date)

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Lake Michigan	FY14 Project: Pines of Lakemoor HOA	To be completed in 2016
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FY '16 WMB APPLICATION SUMMARY

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Detention Basin Dredging	Mallard Ridge HOA	160	$ 68,200	$ 10,000	$ -
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GRAND TOTAL $177,000					
Total includes $4,000 Contingency			**$ 1,644,813**	**$ 356,005**	**$ 177,000**

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

November 20, 2015

TO: Watershed Management Board Members
FR: Ashley Warren, Water Resource Professional
Michael E. Novotney, Principal Water Resource Professional
RE: FY2016 WMB Requests; Funding Recommendations for Watershed Management Assistance Grants

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SMC received 1 request for Watershed Management Assistance Grant (WMAG) funding. A total of $12,000 is available for WMAGs for Fiscal Year 2016. The primary purpose of the WMAG program is to support the growth and sustainability (i.e., organizational capacity) of local watershed partnerships in Lake County. For the purposes of the program, a "watershed partnership" is defined as an inclusive, enduring, diverse, community-based group organized to identify and resolve watershed problems and issues. The attached table, "WMB Funding Evaluation – Watershed Management Assistance Grant Requests," provides SMC staff's evaluation of submitted WMAG applications based on the WMB-approved prioritization criteria for WMAG requests.

The prioritization criteria are:

1. **Participant Involvement:** Explanation of how stakeholders representing interests and perspectives reflective of the watershed community will be involved in developing sound approaches and lasting solutions to identified problems.
2. **Problem Identification:** Identification of one or more clearly defined watershed problems that will be addressed.
3. **Desired Results:** Identification of realistic and clear goals and objectives.
4. **Progress Measures:** Identification of a method for evaluating the immediate and long-term effects of the partnership.
5. **Outreach Efforts:** Demonstration of how the proposed actions will develop the partnership and increase its sustainability.
6. **Action Plan:** Development of a clear work plan with tasks, end results, products to be completed, and a time frame.

Below is a brief summary of each proposed project, describing how each application addresses the six prioritization criteria and containing staff's recommendation to the WMB regarding each project:

1. **Greater Pistakee Lake Watershed Group.** An application was submitted by the Fox Waterway Agency to create and develop the Greater Pistakee Lake Watershed Group. The estimated project cost is $24,000 of which $12,000 is requested from the WMB. There is no local match requirement for the WMAG. The proposed project scope includes identifying and engaging as many watershed stakeholders as possible via open meetings, online mapping, and social media

to cooperatively review and understand the problems and impairments associated with Pistakee Lake and the Lower Fox River (i.e., between IL 176 and US 12), and the role that watershed planning and the watershed community can play in addressing those problems. The goal of this initial effort, which will be managed and coordinated by the Fox Waterway Agency, is to reach and engage as many stakeholders as possible, build the capacity of the group, and use the process to prepare the group to undertake a watershed-based planning process.

Project evaluation:

1. The application identifies several watershed stakeholders that are expected to participate in the group, including statements of interest from seven of these stakeholders, but indicates that additional work is needed to identify and engage additional local stakeholder groups and municipalities.
2. The application indicates that the focus of the group will be on the impairments in Pistakee Lake and the Lower Fox River identified by the Illinois Environmental Protection Agency.
3. The application indicates that the desired result of this initial effort is to reach and engage as many stakeholders as possible, build the capacity of the group, and use the process to prepare the group to undertake a watershed-based planning process.
4. The application states that progress toward the desired result will be measured by tracking attendance at meetings, analyzing the use of online applications (e.g., number of website views), and gathering input from stakeholders throughout the process.
5. The application states that stakeholder outreach and engagement will occur primarily through e-mail, online applications (e.g., websites, social media), and stakeholder meetings.
6. Supplemental information provided by the applicant includes a basic work plan, identifying and describing the tasks to be completed; the timeframe for the project will extend through September 2017.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $9,270 and 24 hours of SMC staff time.

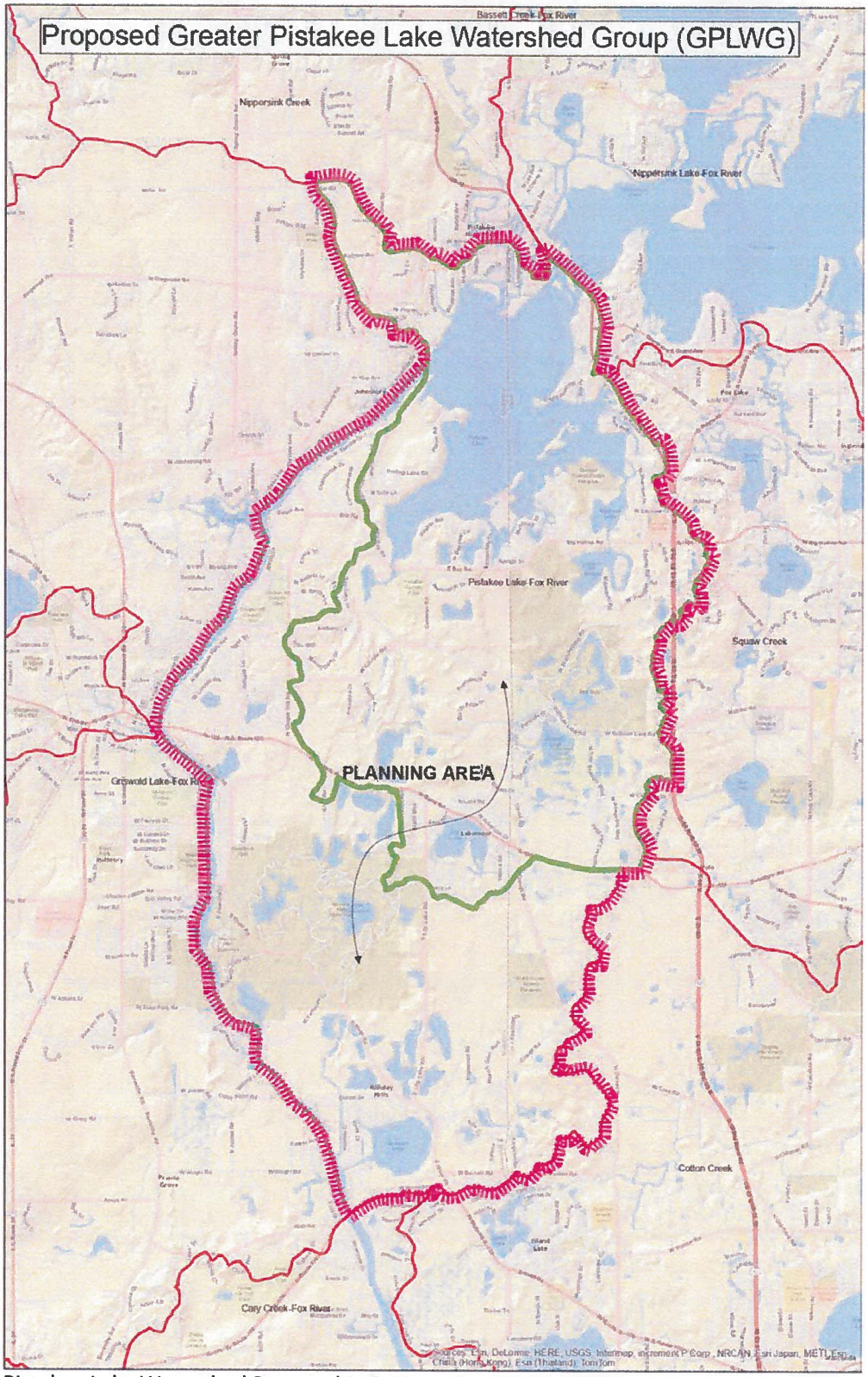
WATERSHED MANAGEMENT ASSISTANCE

WMB Funding Evaluation – Watershed Management Assistance Grant Requests

	Prioritization Criteria		Greater Pistakee Lake Watershed Group		WMAG Total
Rank	WMAG	Maximum Possible Weight	Rating	Score	
1	Participant Involvement	20	2	40	
2	Problem Identification	20	2	40	
3	Desired Results	15	3	45	
4	Progress Measures	15	2	30	
5	Outreach Efforts	15	2	30	
6	Action Plan	10	2	20	
	Bonus Credit: First-Time WMAG Funding	5	5	5	
	Bonus Credit: Subwatershed Representation	5	1	1	
	Bonus Credit: Local Unit of Government Support	5	1	1	
	Bonus Credit: Outside Funding Utilization	5	5	5	
	Bonus Credit: Demonstrate Partnership Sustainability	5	1	1	
	Bonus Credit: Includes Restoration Plan Component	5	2	2	
	Weighted Score Total (Minimum score greater than 210 required for funding)			220	
	Total project cost			$24,000	$24,000
	Applicant in-kind hours			120	120
	Applicant cost share			$12,000	$12,000
	Applicant's WMB funding request			$12,000	$12,000
	Applicant's request for SMC in-kind hours			0	0
	Total Available Funds for the program =	$12,000			
	Staff recommendation for watershed funding			$9,270	$9,270
	Staff recommendation for SMC in-kind hours			24	24

Rating: 0=no effect, 1=minimal effect, 2=below average effect, 3=average effect,
4=above average effect, 5=maximum effect practicable

WATERSHED MANAGEMENT ASSISTANCE



Pistakee Lake Watershed Partnership Project Location Map

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

November 19, 2015

TO: Watershed Management Board Members
FR: Neil Schindelar, Engineering Tech
RE: FY2016 WMB Requests; Funding Recommendations for Projects in Des Plaines River Watershed

SMC has received thirteen requests for WMB funding for projects in the Des Plaines River Watershed with a total project cost of $779,141 and a requested funding amount of $195,545. The amount of funding available for projects in the Des Plaines River Watershed for Fiscal Year 2016 is $67,620. SMC staff recommends funding of six projects in the amount of $65,000. SMC staff evaluated each of the applications based on the following WMB-approved prioritization criteria:

1. **Interjurisdictional Benefits** - Benefit multiple jurisdictions (government entities, HOAs, not-for-profits), will have interjurisdictional impacts, and/or will benefit the major "trunk"/regional scale drainage system of the watershed. ("Trunk" defined as that part of the drainage system that drains more than 100-acre drainage areas and has the potential to have inter-jurisdictional impacts.)

2. **Flood Hazard Reduction Benefits** - Have beneficial results or impacts, including non-transportation related flood hazard reduction, during flood events up to and including 100-year events. (A 100-year event being a flood event with the probability of occurrence in any given year of 1%.)

3. **Structural Damage Reduction** - Mitigate structural damages due to floods and other stormwater related causes with consideration of the number of structures affected including, but not limited to, removing, elevating, flood-proofing or otherwise protecting buildings from future danger of flood damage or structural damage related to flood-induced erosion. Also, this criteria includes Lake Michigan Watershed specific mitigation of damages due to stormwater, flood and wave induced problems on bluff, ravine and lakeshore areas.

4. **Water Quality Benefits** - Reduce surface water quality impairments utilizing best management practices.

5. **Natural Resource Benefits** - Benefit the environment with an emphasis on non-structural natural resource protection strategies.

6. **Nuisance Flood Reduction -** Alleviate major nuisance flooding and/or blocked transportation access.

7. **Multiple Use Benefits -** Provide multiple-use benefits to communities such as recreation, public education, data collection or others.

8. **Outside Funding Utilization -** Utilize federal and\or state funding to the maximum extent possible.

9. **Public Education Component -** Include a public education and outreach effort aimed at reducing the amount of phosphorus contained in stormwater runoff. This may include reducing the amount of fertilizer applied to lawns, using phosphorus-free fertilizers, and establishing buffer strips along lake shores, stream banks, and wetlands. Applicants may also choose to adopt an ordinance banning the use of fertilizers and detergents containing phosphorus.

Incremental bonus credit will be given for the following:

- Critical facilities.
- Projects that have a greater than 50% non-SMC cost-share.
- Measure recommended in a SMC-adopted watershed management plan.

Below is a brief summary of each proposed project, describing how each application addresses the nine prioritization criteria, and containing staff's recommendation to the WMB.

1. **Indian Creek Stream Improvement at Longview Meadow**. An application was submitted by the Long Grove Park District. The estimated project cost is $30,000 of which $16,500 is the applicant's share and $14,000 is being requested from the WMB, with 8 SMC in-kind hours. The proposed project scope includes remediation of 21 logjams within Indian Creek on 2-3 properties in Long Grove between the culvert under State Highway Route 83 and Longview Meadow Lake.

Project evaluation:

1. The project will provide significant interjurisdictional benefits.
2. The project will provide flood hazard reduction benefits.
3. The project will provide structural damage reduction benefits to the residential properties and roads.
4. The project will improve water quality.
5. The project will provide benefits to natural resources as a result of enhanced water quality.
6. The project will provide some nuisance flood reduction benefits.
7. The project will provide multiple use benefits.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $14,000 and 8 hours of SMC staff time.

2. **Suburban Country Club Tributary Stream Maintenance.** An application was submitted by the Village of Beach Park, with support from the Lake County Department of Transportation. The estimated project cost is $16,000 of which $8,000 is the applicant's share and $8,000 is being requested from the WMB, with 8 SMC in-kind hours. The proposed project scope includes 3,000 feet of obstruction removal, removal of invasive vegetation, and installation of stream bank stabilization and permanent erosion control measures at various locations throughout the project area. One of the goals is to enhance and maintain the flow of the tributary to the watershed outlet.

Project evaluation:

1. The project will provide interjurisdictional benefits between Beach Park, property owners, and LCDOT.
2. The project will result in significant flood hazard reduction benefits.
3. The project will provide some structural damage reduction.
4. The project will provide water quality improvements.
5. The project will provide natural resource benefits.
6. The project will provide significant nuisance flooding reduction benefits.
7. The project will not provide multiple use benefits;
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $8,000 and 8 hours of SMC staff time.

3. **Libertyville Township Casey Road Tile Restoration**. An application for this project was submitted by Libertyville Township. The estimated project cost is $85,000 of which $55,000 is the applicant's share and a requested WMB amount of $30,000 with 10 SMC in-kind hours. The project scope includes converting 303 acres of farm fields to natural areas in 2016. The first phase of the project will include the disabling of 915 linear feet of drain tile on a farm parcel south of Casey Road, removal of two hedgerows, restoring 108 acres including, a 5-acre parcel adjacent to an Illinois Nature Preserve, and engaging support from an SMC engineer to determine the best approach for disabling the drain tile north of Casey Road.

Project evaluation:

1. The project will have significant interjurisdictional benefits
2. The project will result in flood hazard reduction benefits
3. The project will provide structural flood damage benefits.
4. The proposed project will provide some water quality benefits.
5. The project will provide significant natural resource benefits.
6. The project will provide nuisance flooding benefits.
7. The project will provide multiple use benefits.
8. Federal and state funding are not proposed.
9. Public education and outreach is not proposed.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $30,000 and 10 hours of SMC staff time.

4. **Bob Diehl Stoneroller Creek Study.** An application was submitted by the Robert Diehl, supported by the Village of Gurnee. The estimated project in-kind services requested of SMC staff is 80 hours. The proposed project scope includes surveying the creek, then assessing all facets of damage due to erosion caused by stormwater. The next step would be to develop a plan and costs for stream bank stabilization and restoration for properties along the creek.

Project evaluation:

1. The project will provide significant interjurisdictional benefits.
2. The project will provide future flood hazard reduction benefits.
3. The project will provide structural damage reduction benefits.
4. The project will provide significant water quality benefits.
5. The project will provide natural resources benefits.
6. The project will provide nuisance related flooding reduction benefits.
7. The project will provide significant multiple use benefits.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS RECOMMENDED*** for 80 hours of SMC staff time.

5. **Andover Drive Drainage Improvements.** An application was submitted by Village of Kildeer. The estimated project cost is $250,450, of which $200,450 is the applicant's share and $50,000 is being requested from the WMB, with 8 SMC in-kind hours. The proposed project scope includes the Village of Kildeer proposing a drainage improvement project that will re-route the flows to Buffalo Creek within the Andover Road right-of-way. Proposed improvements will be the abandonment of the existing drain tile in-place and construction of approximately 950-feet of new 15" diameter reinforced concrete storm sewer pipe with associated drainage structures from East Cuba Road to Buffalo Creek. Due to the scope and character of this project, it has been referred to SMC's Stormwater Infrastructure Repair Fund (SIRF) program and is recommended for SIRF funding ($50,000).

Project evaluation:

1. The project will provide direct interjurisdictional benefits.
2. The project will provide significant flood hazard reduction benefits.
3. The project will provide some structural damage reduction.
4. The project will provide significant water quality benefits by reducing erosion.
5. The project will provide natural resources benefits.
6. The project will provide significant nuisance flooding reduction benefits.
7. The project will provide multiple use benefits.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS NOT RECOMMENDED*** for WMB funding.

6. **Lakeridge restoration association ADID wetland.** An application was submitted by the Lakeridge Restoration Association. The estimated project cost is $14,500, of which $5,500 is the applicant's share and $9,000 is being requested from the WMB, with 10 SMC in-kind hours. The proposed project scope includes aggressively restoring the function (filtering, and infiltration) of the wetland by restoration of the nearly 15 acre site. Work will focus on replacing existing aggressive/invasive plant communities with a broader range of native species appropriate for the site.

Project evaluation:

1. The project will provide interjurisdictional benefits.
2. The project will provide some flood hazard reduction benefits.
3. The project will provide some structural damage reduction benefits.
4. The project will provide significant water quality benefits.
5. The project will provide significant natural resources benefits.
6. The project will provide some nuisance flooding reduction benefits.
7. The project will provide some multiple use benefits.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $9,000 and 10 hours of SMC staff time.

7. **Shenandoah Lane Drainage Improvements.** An application was submitted by the Village of Long Grove. The estimated project cost is $262,016, of which $ 212,016 is the applicant's share and $50,000 is being requested from the WMB, with 8 SMC in-kind hours. The proposed project scope includes a drainage improvement project that re-routes the storm sewer from the drainage structure on the east side of Shenandoah Lane, south to the side yard of 2546 Shenandoah Lane, east to Checker Road, and then a n in-kind replacement along Checker Road. The re-routing will include abandonment of the existing storm sewer in place. Due to the scope and character of this project, it has been referred to SMC's Stormwater Infrastructure Repair Fund (SIRF) program and is recommended for SIRF funding ($50,000).

Project evaluation:

1. The project will provide interjurisdictional benefits.
2. The project will provide flood hazard reduction benefits.
3. The project will provide structural damage reduction benefits.
4. The project will provide water quality benefits.
5. The project will provide natural resources benefits.
6. The project will provide minor nuisance flooding reduction benefits.
7. The project will not provide multiple use benefits.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS NOT RECOMMENDED*** for WMB funding.

8. **29th Street Culvert Installation.** An application was submitted by the Village of Beach Park. The estimated project cost is $14,750, of which $7,375 is the applicant's share and $7,375 is being

requested from the WMB, with 8 SMC in-kind hours. The proposed project scope includes the installation of a 24-inch culvert, 30 feet in length underneath 29th Street in the Village of Beach Park. Due to the scope and character of this project, it has been referred to SMC's Stormwater Infrastructure Repair Fund (SIRF) program and is recommended for SIRF funding ($7,375).

Project evaluation:

1. The project will provide some interjurisdictional benefits.
2. The project will provide significant flood hazard reduction benefits.
3. The project will provide structural damage reduction benefits.
4. The project will provide water quality benefits.
5. The project will provide natural resources benefits.
6. The project will provide nuisance flooding reduction benefits.
7. The project will provide some multiple use benefits.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS NOT RECOMMENDED*** for WMB funding.

9. **Ravinia and Hiawatha land bridge and stream restoration.** An application was submitted by the Sylvan Lake Improvement Association. The estimated project cost is $8,200, of which $4,200 is the applicant's share and $4,000 is being requested from the WMB, with 20 SMC in-kind hours. The proposed project scope includes replacing an old wood footbridge over the tributary and the related stairs in that area. The creek bed will be widened and the turf reinforcement matting added with 8 ton RR#3 rip rap stone.

Project evaluation:

1. The project will provide some interjurisdictional benefits.
2. The project will provide some flood hazard reduction benefits.
3. The project will provide some structural damage reduction.
4. The project will provide water quality benefits.
5. The project will provide natural resources benefits.
6. The project will provide some nuisance flooding reduction benefits.
7. The project will provide some multiple use benefits.
8. This project will utilize outside funding.
9. Public education and outreach is not proposed.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $4,000 and 20 hours of SMC staff time.

10. **PCCS Aquatic Habitat Demonstration.** An application was submitted by Prairie Crossing Charter School. The estimated project cost is $10,350, of which $5,175 is the applicant's share and $5,175 is being requested from the WMB, with 8 SMC in-kind hours. The proposed project scope includes creating an aquatic habitat retention area to capture stormwater from the buildings and use it to feed a pond that will recycle water through it.

Project evaluation:

1. The project will provide some interjurisdictional benefits.
2. The project will provide some flood hazard reduction benefits
3. The project will provide some structural damage reduction.
4. The project will provide some water quality benefits.
5. The project will provide some natural resources benefits.
6. The project will provide some nuisance flooding reduction benefits.
7. The project will provide multiple use benefits for residents and students.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS NOT RECOMMENDED*** for WMB funding.

11. **Dady and Decker HOA shoreline protection.** An application was submitted by Warren Township. The estimated project cost is $14,525, of which $8,880 is the applicant's share and $5,645 is being requested from the WMB and 8 SMC in-kind hours. The proposed project scope includes a shoreline stabilization project, by removing the existing timber sea wall and timber jelly and constructing a new timber jetty, excavating the shoreline and placing boulders from the shoreline to the table land, and installing a native buffer strip in certain areas of the shoreline.

Project evaluation:

1. The project will provide interjurisdictional benefits.
2. The project will not provide flood hazard reduction benefits.
3. The project will not provide structural damage reduction.
4. The project will provide water quality benefits.
5. The project will provide natural resources benefits.
6. The project will not provide nuisance flooding reduction benefits.
7. The project will provide multiple use benefits.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS NOT RECOMMENDED*** for WMB funding.

12. **Valley Lake Lake Study.** An application was submitted by the Wildwood Park District. The estimated project cost is $4,600, of which $2,300 is the applicant's share and $2,300 is being requested from the WMB. The proposed project scope includes a long range lake management and prevention plan with natural ways to minimize the threat of swimmer's itch and benefits of the lake.

Project evaluation:

1. The project will provide interjurisdictional benefits.
2. The project will not provide flood hazard reduction benefits.
3. The project will not provide structural damage reduction benefits.
4. The project will provide water quality benefits.
5. The project will provide natural resources benefits.
6. The project will not provide nuisance flooding reduction benefits.
7. The project will provide multiple use benefits.
8. The use of Federal or State funding is not proposed.

9. Public education and outreach is not proposed.

This project ***IS NOT RECOMMENDED*** for WMB funding.

13. Detention Basin Dredging. An application was submitted by the Mallard Ridge HOA. The estimated project cost is $68,200, of which $58,200 is the applicant's share and $10,000 is being requested from the WMB and 8 SMC in-kind hours. The proposed project scope includes a dredging project to improve retention capacity in the detention basin, stabilization of the slopes, and education for landowners.

Project evaluation:

1. The project will provide some interjurisdictional benefits.
2. The project will provide some flood hazard reduction benefits.
3. The project will not provide structural damage reduction benefits.
4. The project will provide some water quality.
5. The project will provide some natural resources benefits.
6. The project will not provide nuisance flooding reduction benefits.
7. The project will provide some multiple use benefits.
8. The use of Federal or State funding is not proposed.
9. Public education and outreach is not proposed.

This project ***IS NOT RECOMMENDED*** for WMB funding.

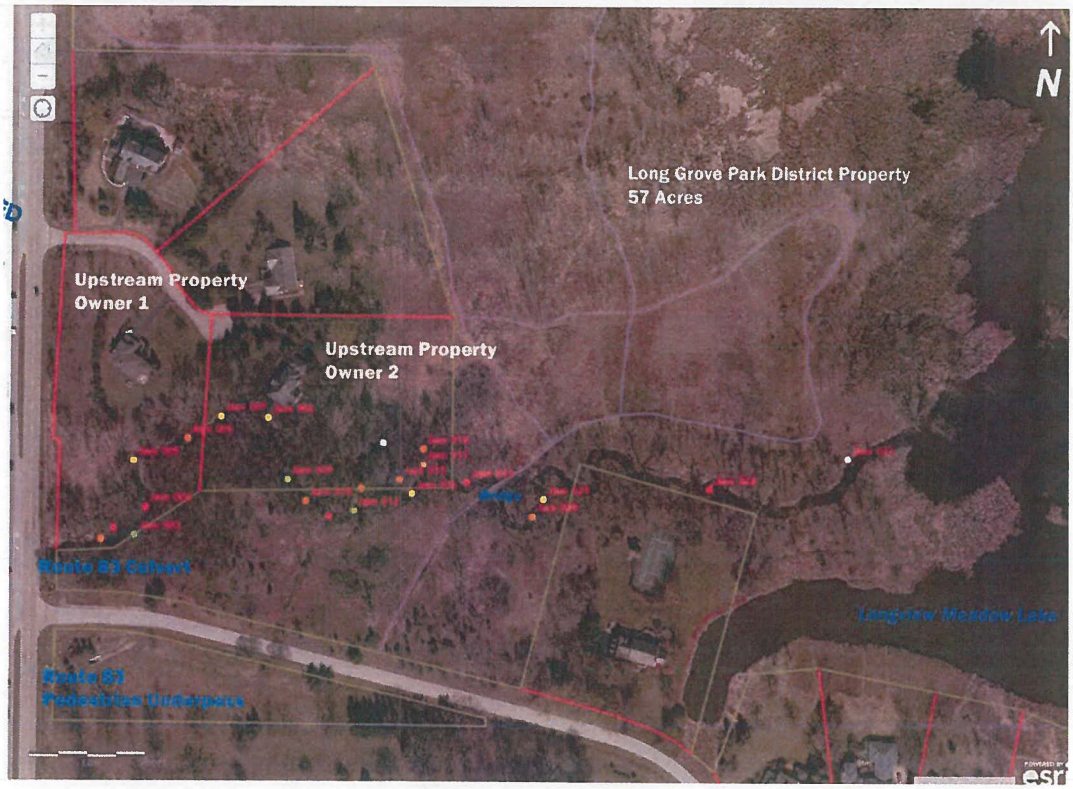
WMB Funding Evaluation – Des Plaines Watershed

Prioritization criteria		29th Street Culvert Installation		Andover Drive Drainage Improvements		Bob Diehl Stoneroller Creek Study		Dady and Decker HOA shoreline protection		Detention Basin Dredging	
Des Plaines	**Maximum Possible Weight**	Rating	**Score**	Rating	**Score**	Rating	**Score**	Rating	**Score**	Rating	**Score**
Interjurisdictional benefits	25	1	25	3	75	4	100	3	75	1	25
Flood hazard reduction benefits	20	4	80	4	80	3	60	0	0	2	40
Structural damage reduction	15	3	45	1	15	1	15	0	0	0	0
Water quality benefits	15	3	45	4	60	4	60	3	45	3	45
Natural resource benefits	10	3	30	2	20	3	30	3	30	3	30
Nuisance flood reduction	5	3	15	4	20	2	10	0	0	0	0
Multiple use benefits	5	1	5	3	15	5	25	3	15	2	10
Outside funding utilization	5	0	0	0	0	0	0	0	0	0	0
Public education component	5	0	0	0	0	0	0	2	10	0	0
Bonus Credit: Critical facilities	5	0	0	0	0	0	0	0	0	0	0
Bonus Credit: Greater than 50% non-SMC cost-share	5	0	0	1	5	0	0	1	5	1	5
Bonus Credit: Measure Recommended in a SMC-adopted watershed management plan	5	0	0	0	0	0	0	0	0	1	5
Weighted Score Total (Minimum score greater than 210 required for funding)			245		290		300		180		160
Total project cost		$14,750		$250,500				$14,525		$68,200	
Applicant in-kind hours		50		0		80		140		80	
Applicant cost share		$7,375		$200,450				$8,880		$58,200	
Applicant's WMB funding request		$7,375		$50,050		$0		$5,645		$10,000	
Applicant's request for SMC in-kind hours		8		8		80		8		8	
Total Available Funds for the watershed =	$67,620										
Staff recommendation for watershed funding		$7,375		$50,000							
Staff recommendation for SMC in-kind hours		8		8		80					

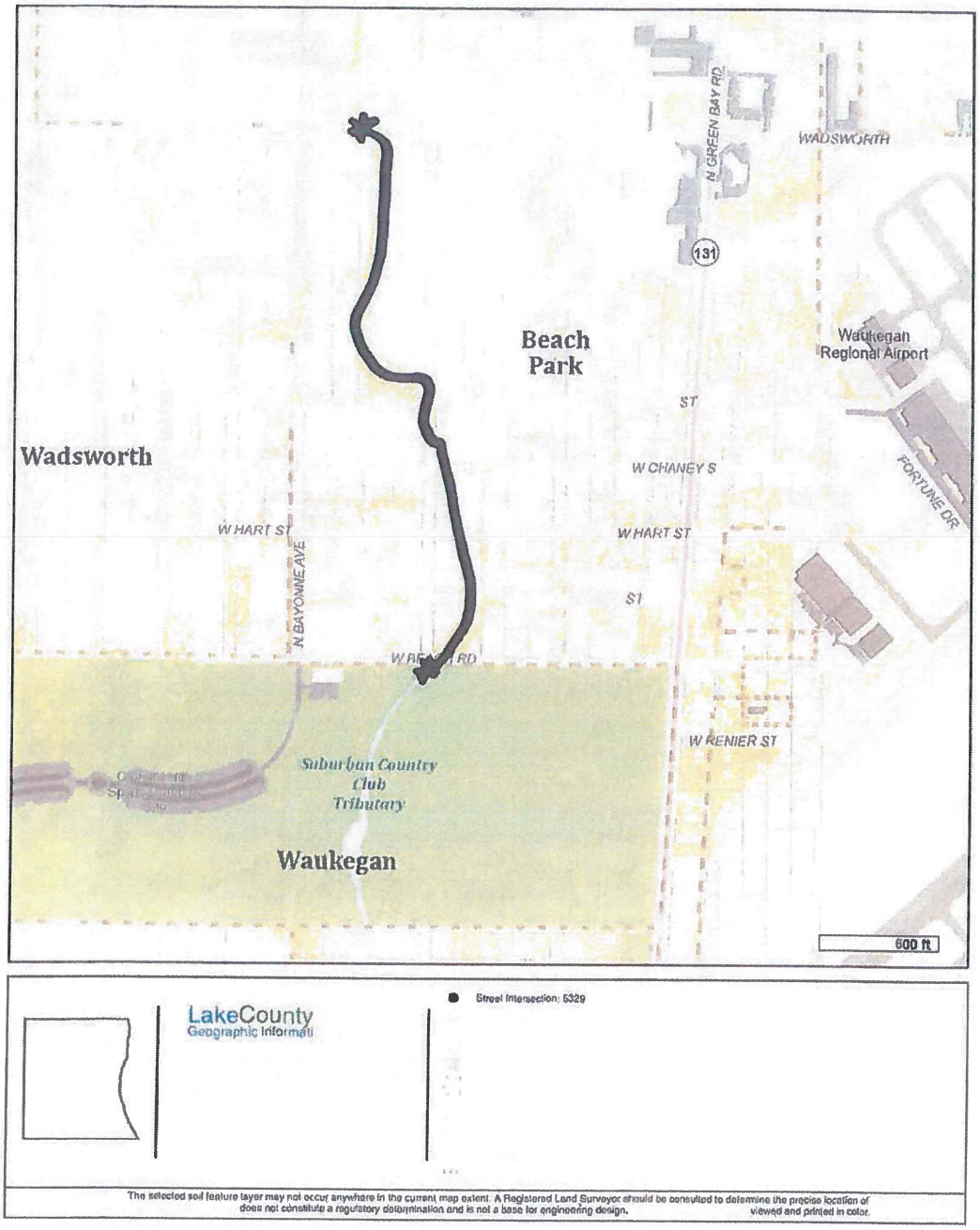
WMB Funding Evaluation – Des Plaines Watershed continued

Indian Creek Stream Improvement at Longview Meadow		Lakeridge restoration association ADID wetland		Libertyville Township Casey Road retirement		PCCS Aquatic Habitat Demonstration		Ravinia and Hiawatha land bridge and stream restoration		Shenandoah Lane Drainage Improvements		Suburban Country Club Trib Cleanup		Valley Lake Lake Study		Des Plaines Watershed Total
Rating	Score	Rating	Score	Rating	Score	Rating	Score	Rating	Score	Rating	Score	Rating	Score	Rating	Score	
3	75	3	75	3	75	2	50	2	50	3	75	4	100	3	75	
5	100	2	40	3	60	1	20	2	40	3	60	4	80	0	0	
2	30	1	15	2	30	1	15	1	15	3	45	2	30	0	0	
4	60	4	60	4	60	3	45	3	45	3	45	4	60	4	60	
3	30	5	50	5	50	3	30	3	30	2	20	3	30	3	30	
2	10	2	10	2	10	1	5	1	5	2	10	4	20	0	0	
2	10	1	5	2	10	5	25	2	10	0	0	1	5	3	15	
0	0	0	0	0	0	0	0	3	15	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	5	0	0	1	5	0	0	1	5	1	5	0	0	0	0	
1	5	1	5	1	5	0	0	0	0	0	0	0	0	0	0	
	325		260		305		190		215		260		325		180	
$30,500		$14,500		$85,000		$10,350		$8,200		$262,016		$16,000		$4,600		$779,141
353		50		200		100		100		0		0		0		1103
$16,500		$5,500		$55,000		$5,175		$4,200		$212,016		$8,000		$2,300		$576,221
$14,000		$9,000		$30,000		$5,175		$4,000		$50,000		$8,000		$2,300		$195,545
8		10		10		8		20		8		8		0		184
$14,000		$9,000		$30,000				$4,000		$50,000		$8,000		$0		$172,375
8		10		10				20		8		8		0		64

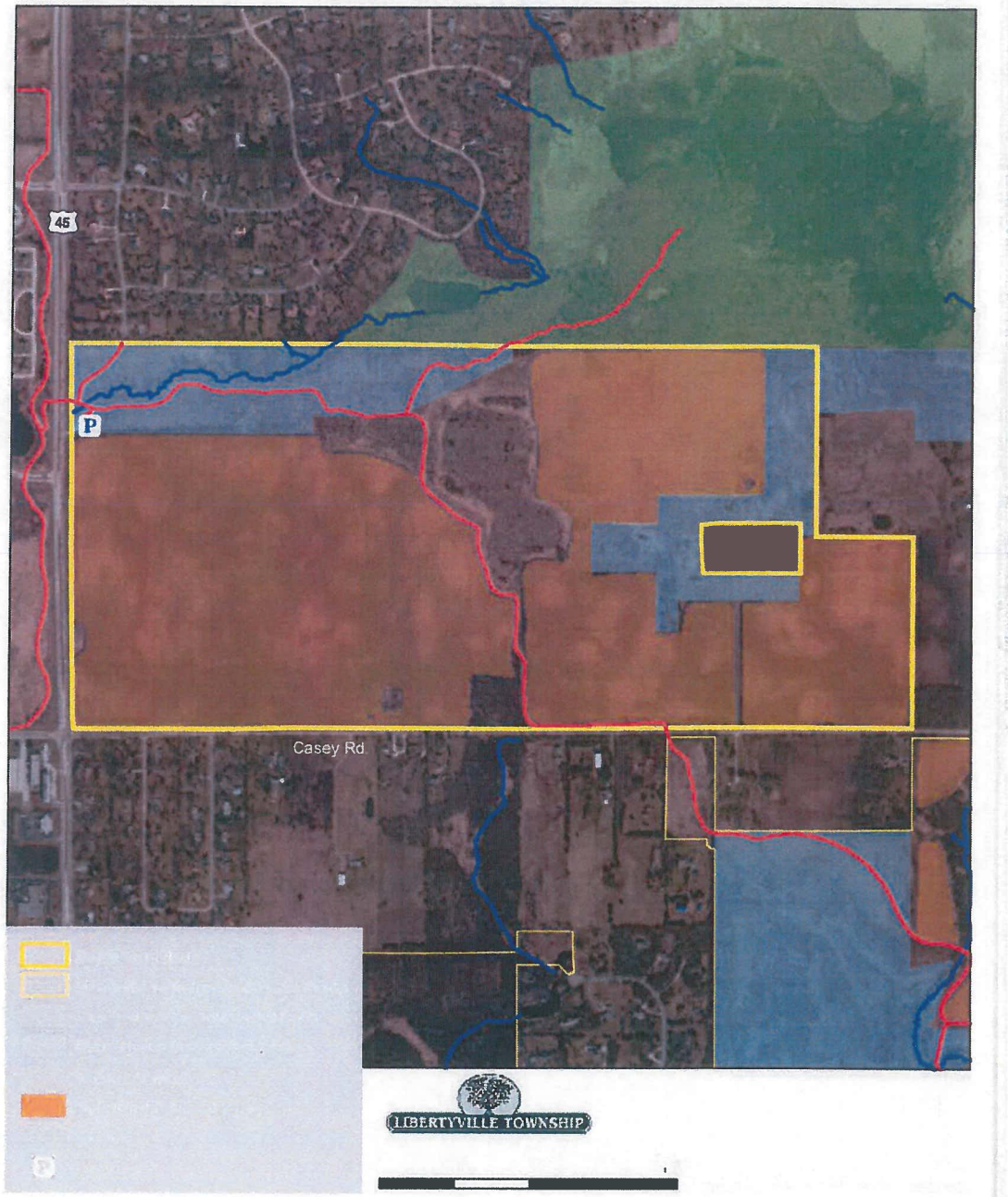
DES PLAINES RIVER



Indian Creek Stream Improvement at Longview Meadow

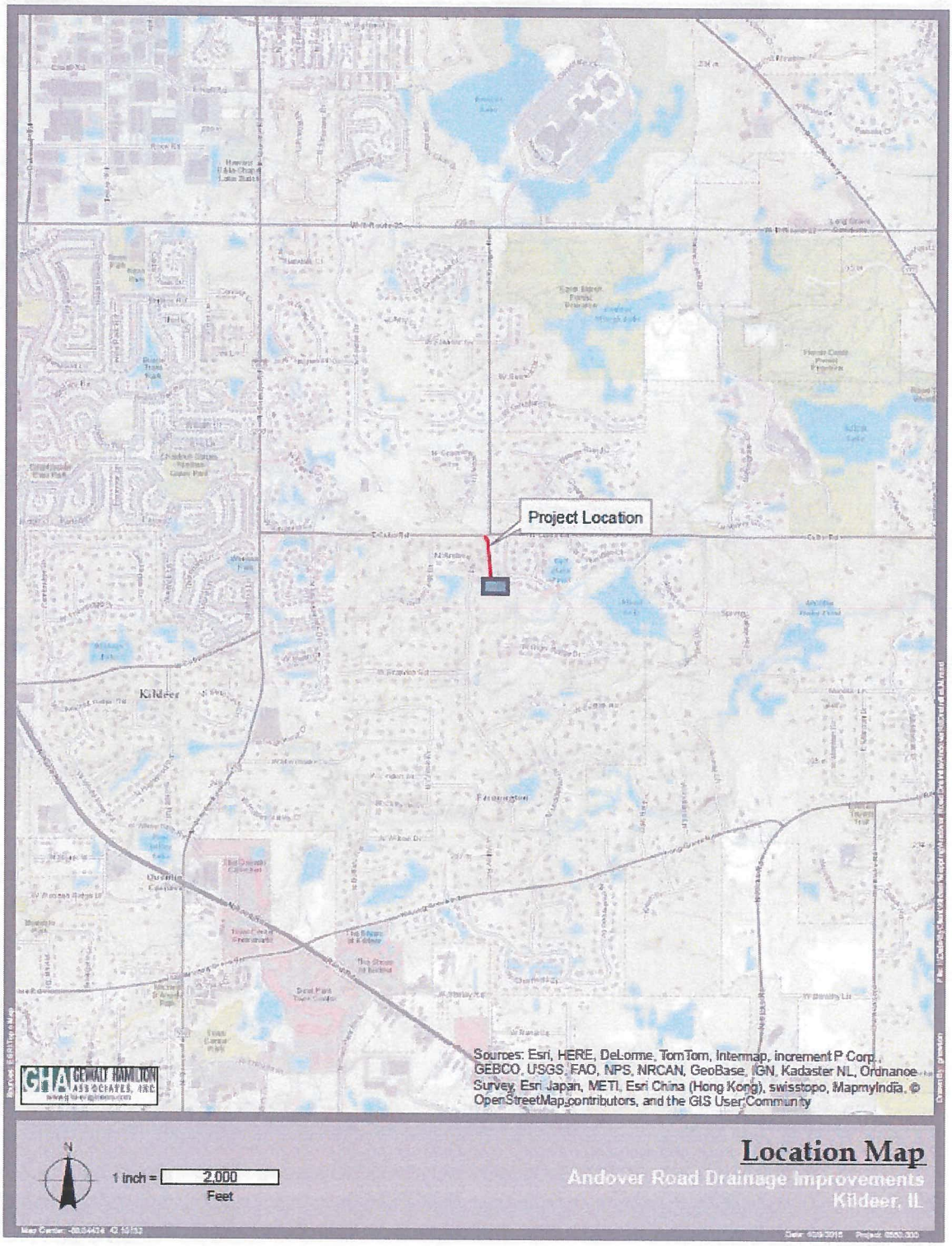


Suburban Country Club Trib maintenance

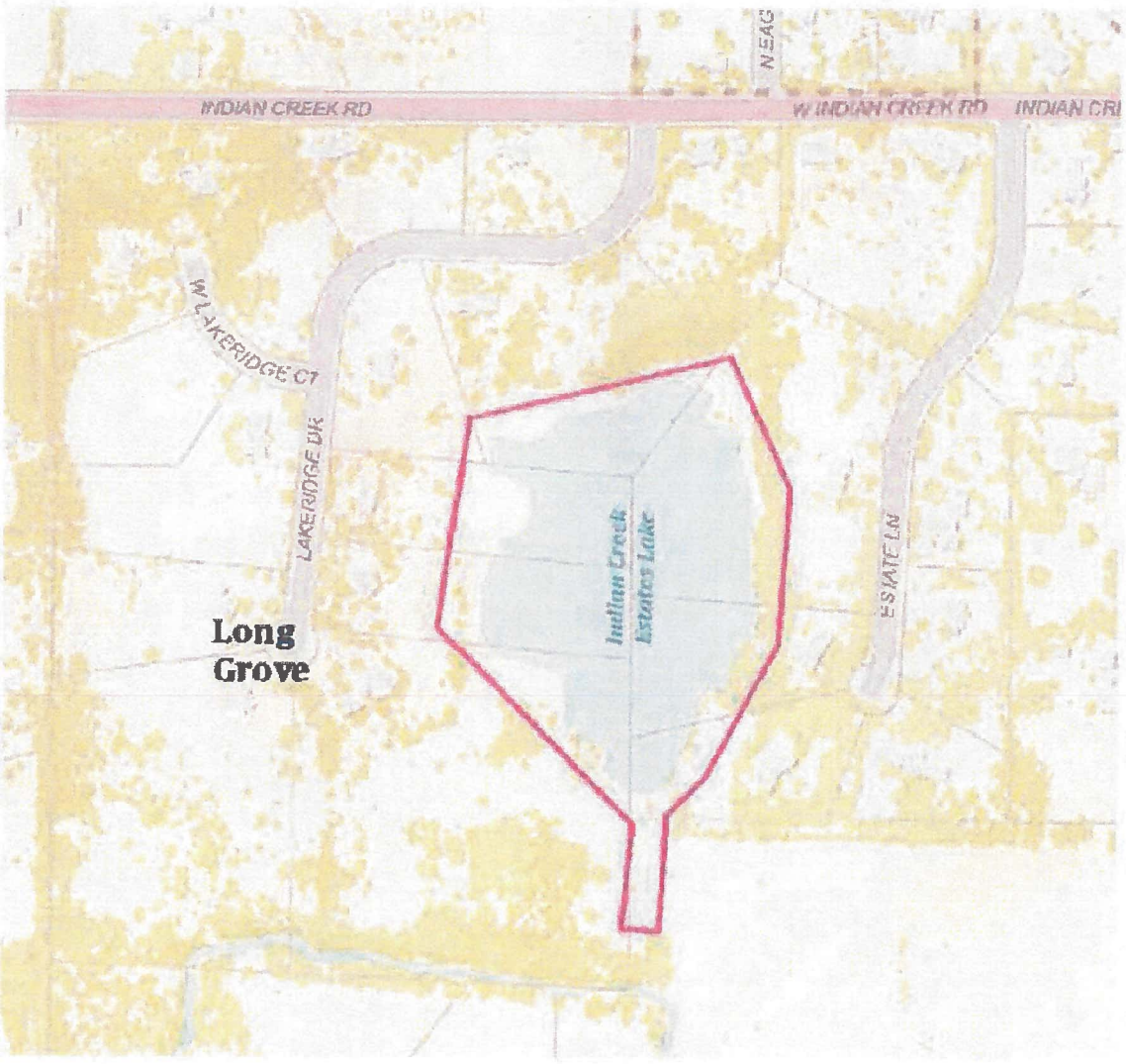


Libertyville Township Casey Road Tile Retirement

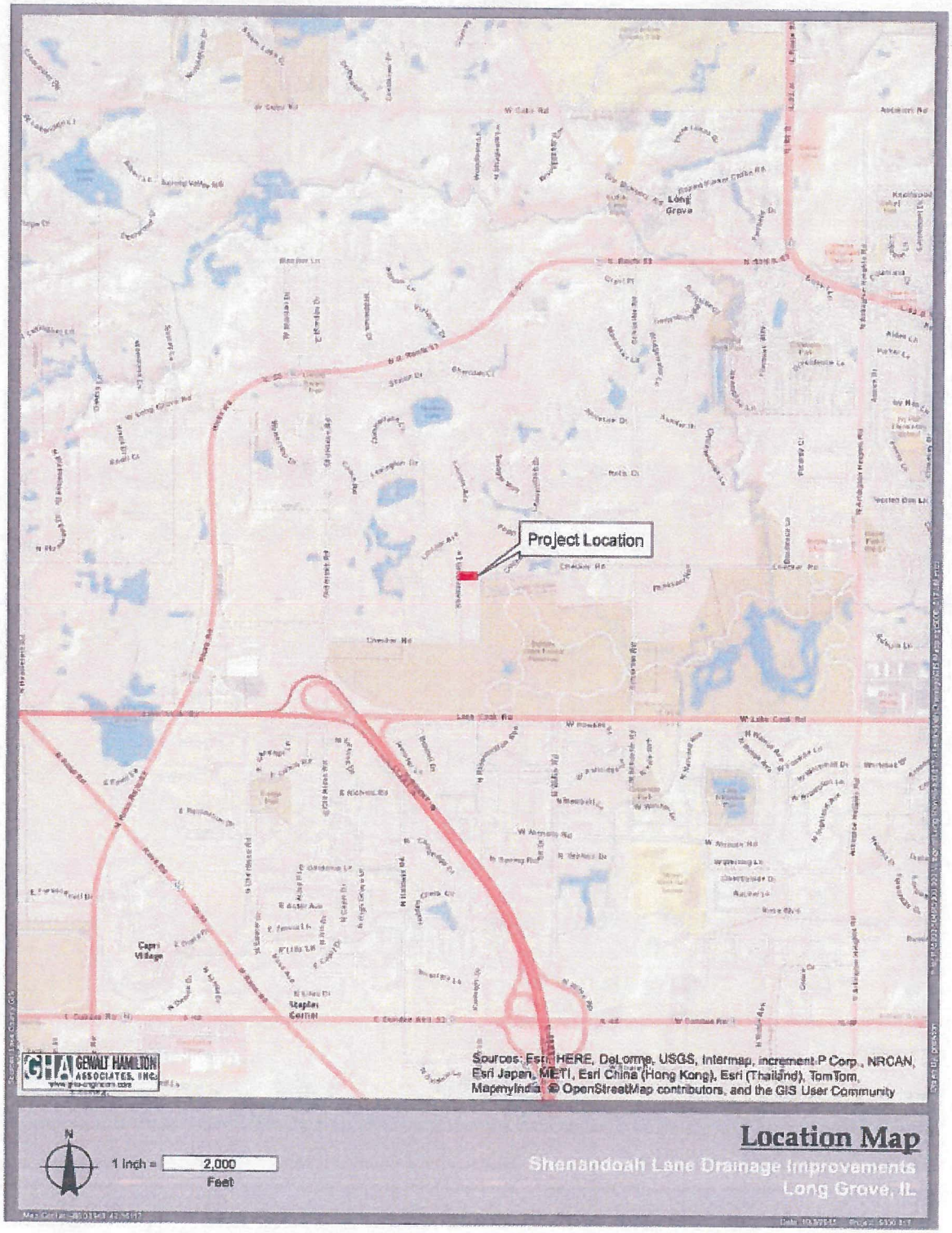
Bob Diehl Stoneroller Creek Study



Andover Drive Drainage Improvements



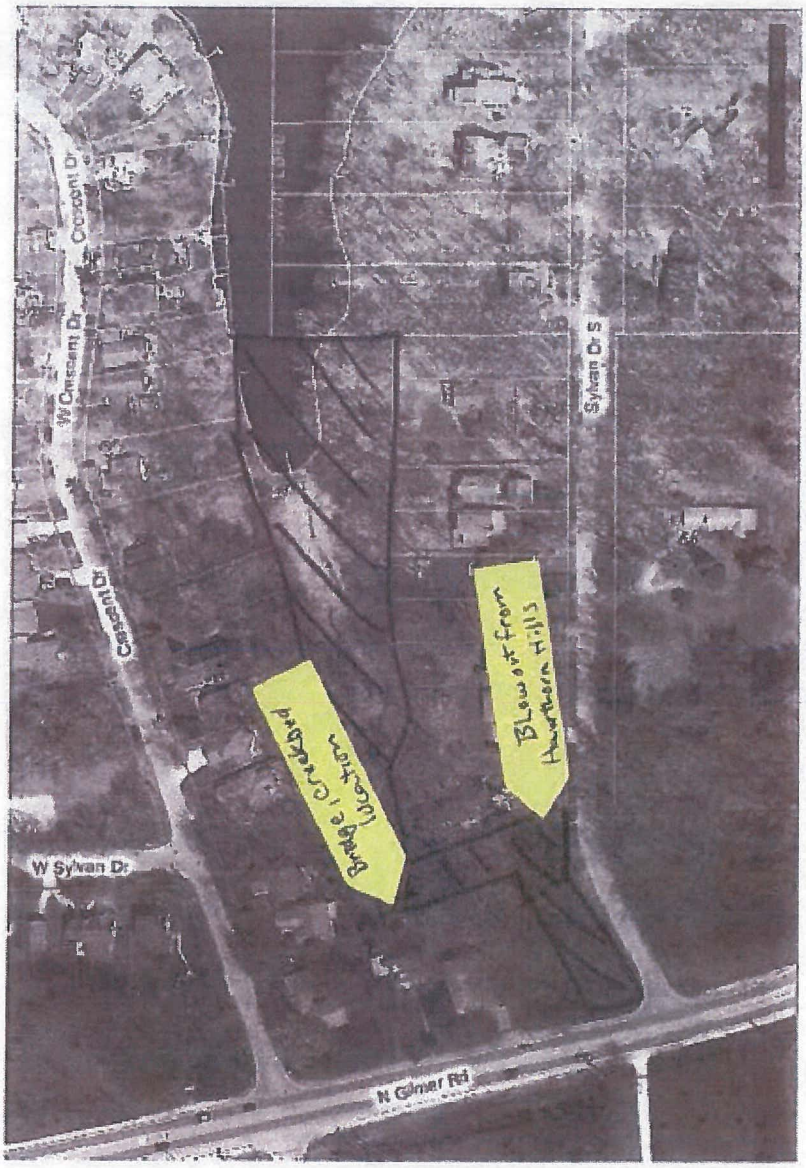
Lakeridge Restoration Association ADID Wetland Improvements



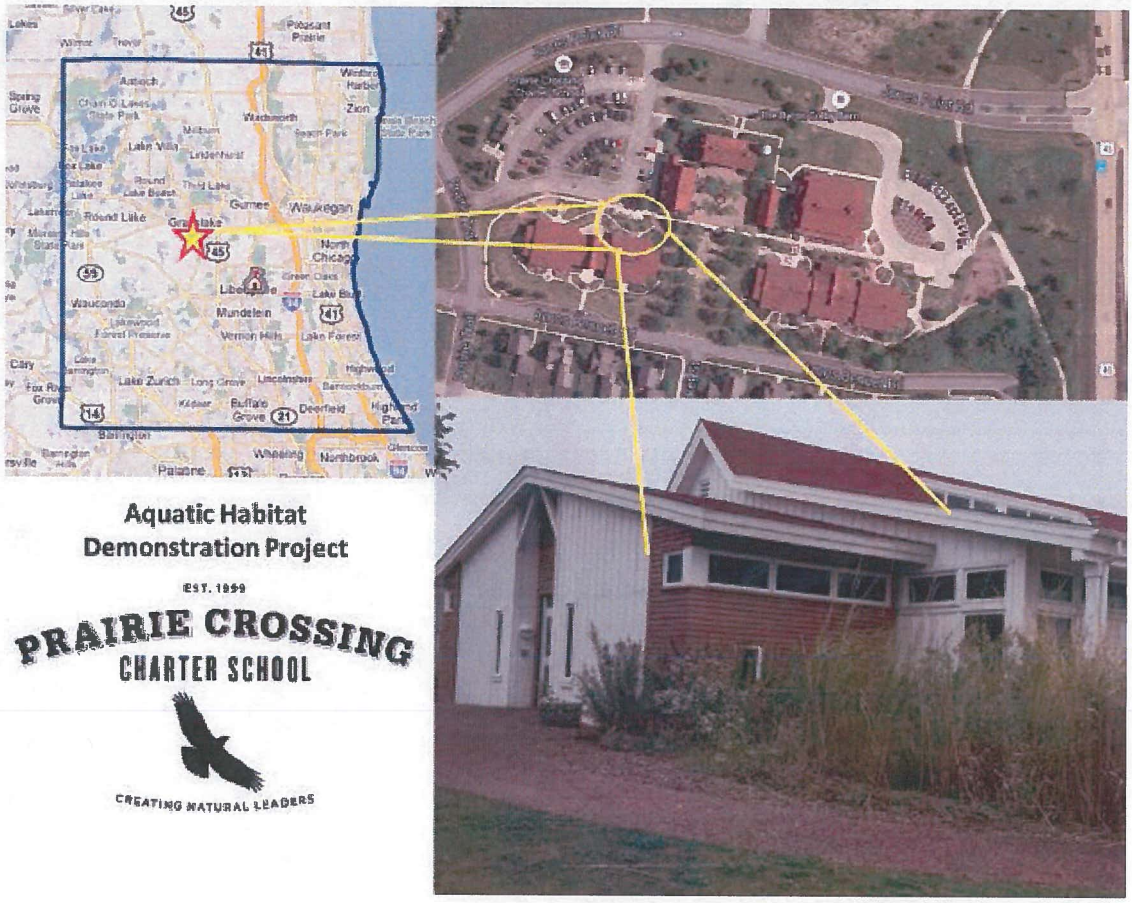
Shenandoah Lane Drainage Improvements

29th Street Culvert Installation

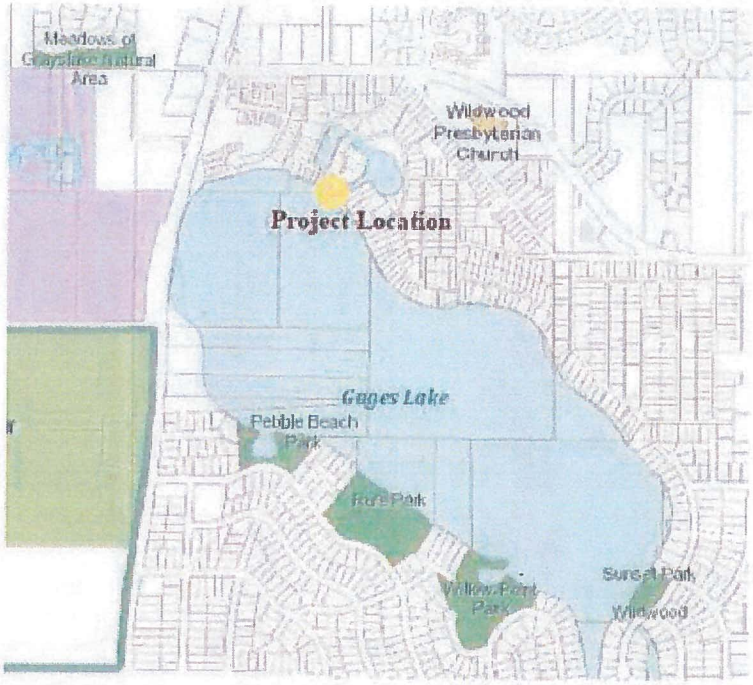
DES PLAINES RIVER



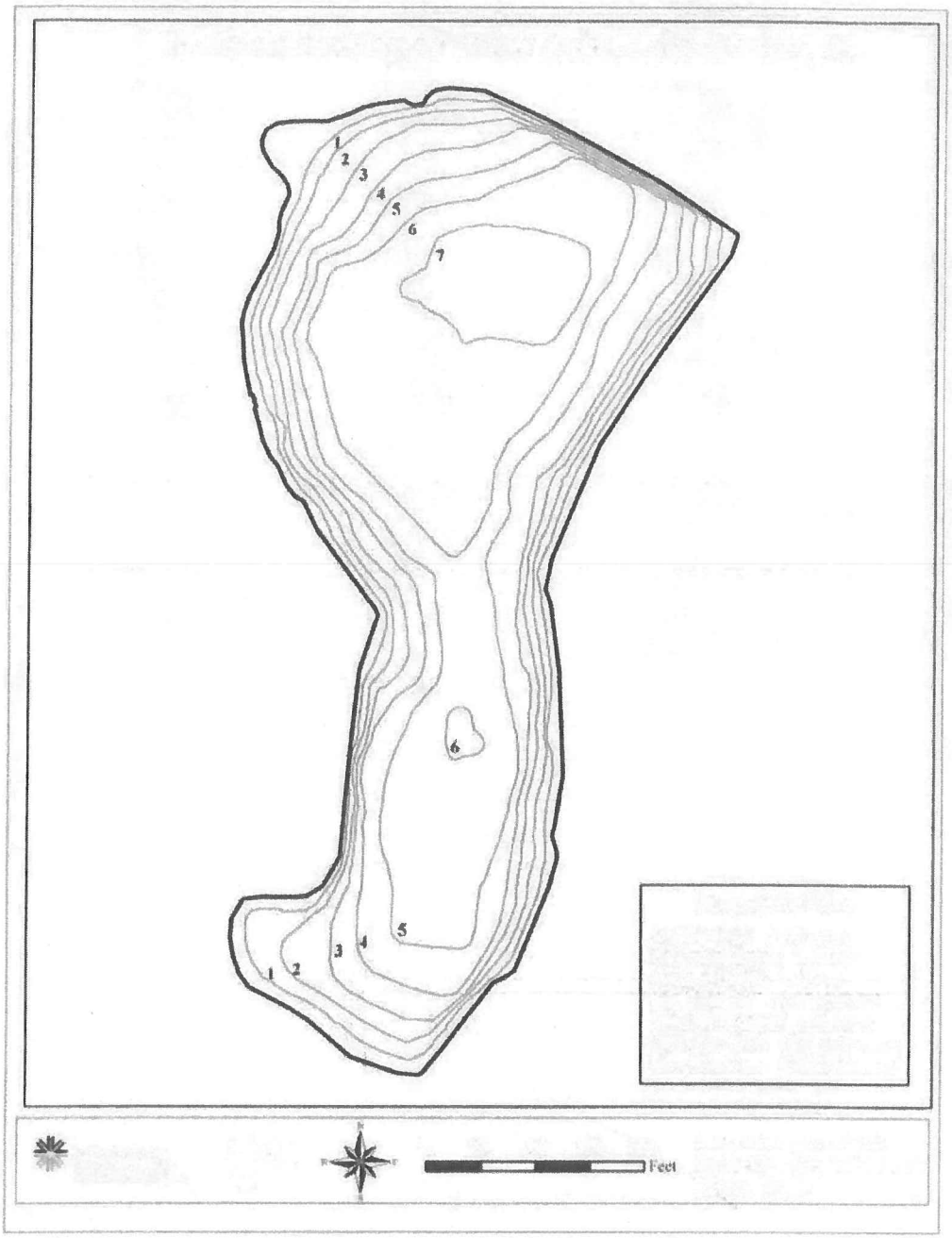
Ravinia and Hiawatha Land bridge and stream restoration



PCCS Aquatic Habitat Demonstration Project

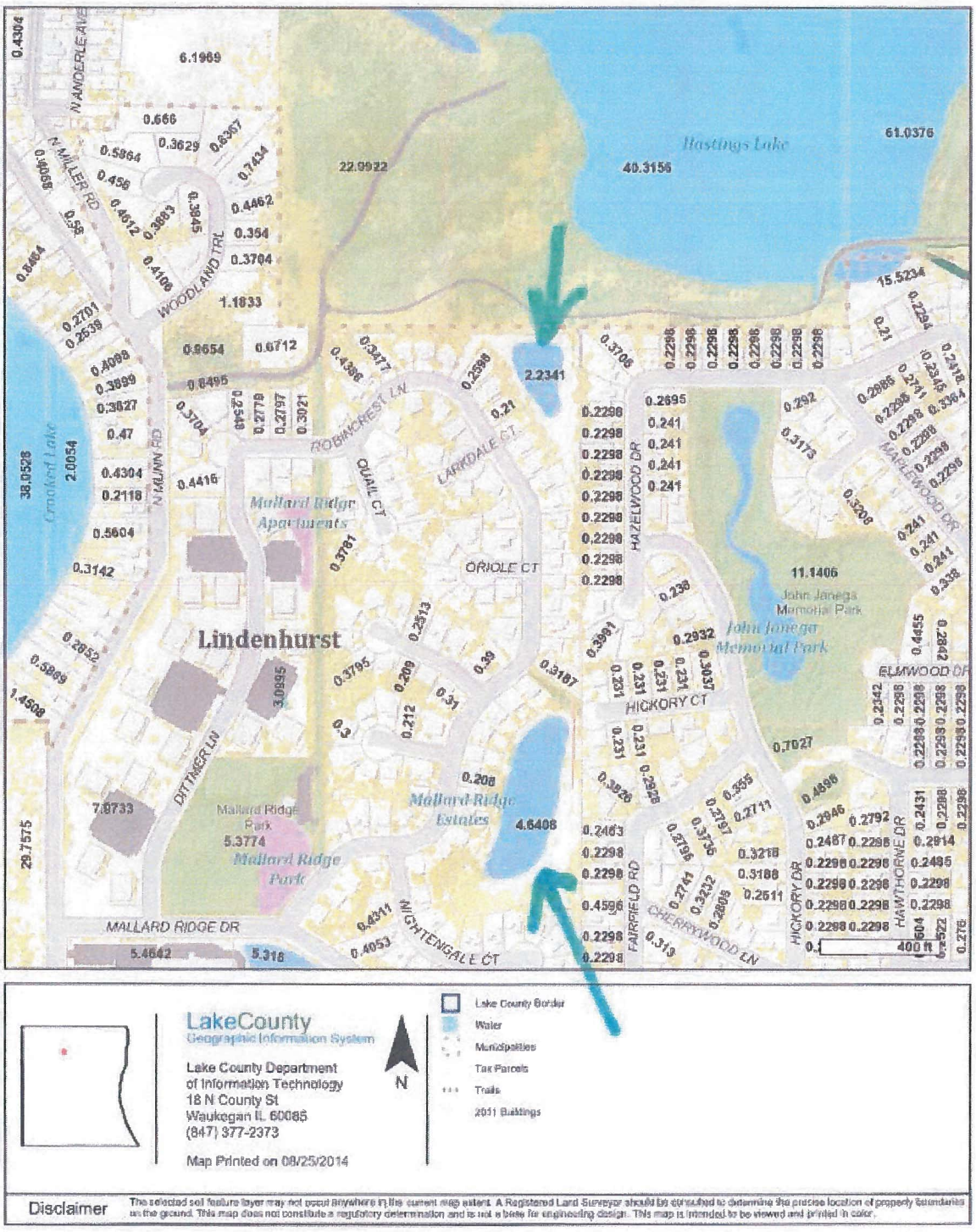


Dady and Decker HOA Shoreline Protection



Valley Lake Lake Study

Lake County, Illinois



Detention Basin Dredging

NORTH BRANCH CHICAGO RIVER

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

November 20, 2015

To: North Branch Chicago River Watershed Management Board
From: Ashley Warren, Water Resource Professional
Re: FY2016 WMB Grant – Funding Recommendations for Projects in the North Branch Chicago River Watershed

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SMC received three applications for projects in the North Branch Chicago River Watershed with a total project cost of $90,600 and requested funding in the amount of $41,200. The available funding for projects in the North Branch of the Chicago River Watershed for Fiscal Year 2016 is $33,800. SMC staff recommends funding two projects. The attached table, "WMB Funding Evaluation-North Branch Chicago River Watershed", provides the SMC staff evaluation of submitted applications based on the following prioritization criteria:

1. **Interjurisdictional Benefits -** Benefit multiple jurisdictions (government entities, HOAs, not-for-profits), will have interjurisdictional impacts, and/or will benefit the major "trunk"/regional scale drainage system of the watershed. ("Trunk" defined as that part of the drainage system that drains more than 100-acre drainage areas and has the potential to have inter-jurisdictional impacts.)

2. **Flood Hazard Reduction Benefits -** Have beneficial results or impacts, including non-transportation related flood hazard reduction, during flood events up to and including 100-year events. (A 100-year event being a flood event with the probability of occurrence in any given year of 1%.)

3. **Structural Damage Reduction -** Mitigate structural damages due to floods and other stormwater related causes with consideration of the number of structures affected including, but not limited to, removing, elevating, flood-proofing or otherwise protecting buildings from future danger of flood damage or structural damage related to flood-induced erosion. Also, this criteria includes Lake Michigan Watershed specific mitigation of damages due to stormwater, flood and wave induced problems on bluff, ravine and lakeshore areas.

4. **Water Quality Benefits -** Reduce surface water quality impairments utilizing best management practices.

5. **Natural Resource Benefits -** Benefit the environment with an emphasis on non-structural natural resource protection strategies.

6. **Nuisance Flood Reduction -** Alleviate major nuisance flooding and/or blocked transportation access.

7. **Multiple Use Benefits -** Provide multiple-use benefits to communities such as recreation, public education, data collection or others.

8. **Outside Funding Utilization -** Utilize federal and\or state funding to the maximum extent possible.

9. **Public Education Component -** Include a public education and outreach effort aimed at reducing the amount of phosphorus contained in stormwater runoff. This may include reducing the amount of fertilizer applied to lawns, using phosphorus-free fertilizers, and establishing buffer strips along lake shores, stream banks, and wetlands. Applicants may also choose to adopt an ordinance banning the use of fertilizers and detergents containing phosphorus.

Incremental bonus credit will be given for the following:

- Critical facilities.
- Projects that have a greater than 50% non-SMC cost-share.
- Measure recommended in a SMC-adopted watershed management plan.

The following provides brief project descriptions addressing each of the nine prioritization criteria and funding recommendations to WMB:

1. **Strawberry Condo Pond Outfall Reconfiguration.** An application was submitted by the Strawberry Condominium HOA, with support from RHMG. The estimated project cost is $26,500 of which $13,500 is the applicant's share and $13,000 is being requested from the WMB. The project's proposed scope includes reconfiguration of the onsite pond outfall, by connecting the two pipes via a storm structure to improve stormwater conveyance and minimize the impact of debris clogging the trash racks.

Project evaluation:

1. This project will provide some interjurisdictional benefits.
2. The project will provide flood hazard reduction.
3. The project will provide structural damage reduction.
4. The project will provide water quality benefits.
5. The project will provide minimal natural resource benefits.
6. The project will reduce nuisance flooding.
7. The project does provide a multiple use benefit.
8. No state or federal funding was identified for the project.
9. Public education and outreach is not proposed.

The project receives bonus credit for providing greater than 50% non-SMC cost-share and being recommended in an SMC adopted watershed management plan.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $13,000.

2. **Hybernia Shoreline Stabilization.** This application was submitted by the Hybernia HOA. The estimated project cost is $27,350 with a $14,150 local share and $13,200 requested from WMB, and 8 SMC in-kind hours. The project's proposed scope includes restoring 245 linear feet of eroding shoreline and native plant buffer for 3 ponds, evaluating the shorelines of 29 ponds in Hybernia, conducting community outreach and education survey, reset storm sewer flared end sections on pond 3, probing the 29 ponds to determine the amount of sediment in each, and developing a long-term BMP management plan for resulting of evaluation.

Project evaluation:

1. This project will provide some interjurisdictional benefits.
2. The project will provide minimal flood hazard reduction.
3. The project will not provide structural damage reduction.
4. The project will provide water quality benefits.
5. The project will provide some natural resource benefits.
6. The project will not reduce nuisance flooding within the subdivision.
7. The project does provide a multiple use benefit.
8. Other funding sources are not proposed for the project.
9. Public education and outreach is not proposed.

The project receives bonus credit for providing greater than 50% non-SMC cost-share.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $13,200 and 8 hours of SMC staff time.

3. **Skokie River Headwaters Restoration Planting.** This application was submitted by the Lake County Forest Preserve District. The estimated project cost is $36,750 with a $21,750 local share and $15,000 requested from WMB. The project's proposed scope includes revegetating an area that is current bare in the Greenbelt Forest Preserve. This will include using herbicide on non-native invasive plants, designing a planting plan, and installing native plant species.

Project evaluation:

1. This project will provide some interjurisdictional benefits.
2. The project will provide minimal flood hazard reduction.
3. The project will not provide structural damage reduction.
4. The project will provide some water quality benefits.
5. The project will provide some natural resource benefits.
6. The project will not reduce nuisance flooding.
7. The project provides minimal multiple use benefit.
8. No state or federal funding was identified for the project.
9. Public education and outreach is not proposed.

The project receives bonus credit for providing greater than 50% non-SMC cost-share and being recommended in an SMC adopted watershed management plan.

This project ***IS NOT RECOMMENDED*** for WMB funding.

If you have any questions regarding these projects, please contact Ashley Warren at (847) 377-7710 or awarren@lakecountyil.gov.

WMB Funding Evaluation – North Branch Chicago River Watershed

	Prioritization criteria		Skokie River Headwaters Restoration Planting		Strawberry Condo Pond Outfall Reconfiguration		Hybernia shoreline stabilization		North Branch Watershed Total
Rank	North Branch	Maximum Possible Weight	Rating	Score	Rating	Score	Rating	Score	
1	Interjurisdictional benefits	25	3	75	3	75	3	75	
2	Flood hazard reduction benefits	20	1	20	4	80	1	20	
3	Structural damage reduction	15	0	0	4	60	0	0	
4	Water quality benefits	15	3	45	3	45	4	60	
5	Natural resource benefits	10	3	30	1	10	3	30	
6	Nuisance flood reduction	5	0	0	3	15	0	0	
7	Multiple use benefits	5	1	5	3	15	3	15	
8	Outside funding utilization	5	1	5	1	5	0	0	
9	Public education component	5	1	5	0	0	2	10	
	Bonus Credit: Critical facilities	5	0	0	5	25	0	0	
	Bonus Credit: Greater than 50% non-SMC cost-share	5	5	5	5	5	5	5	
	Bonus Credit: Measure Recommended in a SMC-adopted watershed management plan	5	5	5	5	5	0	0	
	Weighted Score Total (Minimum score greater than 210 required for funding)			195		340		215	
	Total project cost		$ 36,750		$ 26,500		$27,350		$90,600
	Applicant in-kind hours		465		81				546
	Applicant cost share		$21,750		$ 13,500		$14,150		$49,400
	Applicant's WMB funding request		$15,000		$13,000		$13,200		$41,200
	Applicant's request for SMC in-kind hours		0		0		8		8
	Total Available Funds for the watershed =	$33,800							
	Staff recommendation for watershed funding		15000		13000		$13,200		$41,200
	Staff recommendation for SMC in-kind hours		0		0		8		8

Rating: 0=no effect, 1=minimal effect, 2=below average effect, 3=average effect, 4=above average effect, 5=maximum effect practicable

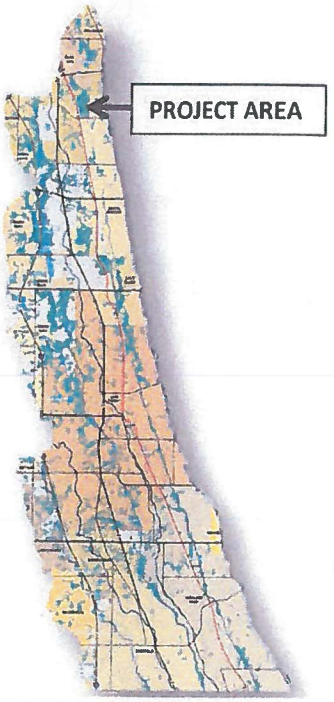
Strawberry Condominiums Pond Outfall Reconfiguration location map.

NORTH BRANCH CHICAGO RIVER

Hybernia Shoreline Stabilization location map.

Skokie River Headwaters Restoration Planting location map.

WATERSHED MANAGEMENT BOARD PROJECT PROPOSAL APPLICATION
SKOKIE RIVER HEADWATERS RESTORATION PLANTING
GREENBELT FOREST PRESERVE, NORTH CHICAGO



Chicago River Watershed in Lake County, Illinois
MAP SOURCE: Lake County Stormwater Management Commission

SKOKIE RIVER HEADWATERS RESTORATION PLAN

SUITABLE PLANTING ZONE

Lake County Forest Preserves

Date Created: 09/30/201
Aerial Date: 2014
Created By: Ken Klick
0 145 290 580

LAKE COUNTY

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

November 20, 2015

TO: Watershed Management Board Members
FR: Michael E. Novotney, Principal Water Resources Professional
RE: FY2016 WMB Requests; Funding Recommendations for Projects in Fox River Watershed

SMC received 5 requests for Watershed Management Board (WMB) funding for projects in the Fox River Watershed. The estimated total cost of these projects is $398,722.20 and the total amount of WMB funding requested for these projects is $55,750. The total amount of WMB funding allocated for projects in the Fox River Watershed this year is $33,800, which means that this year's demand for funding significantly exceeds the amount of WMB funding allocated to the watershed (i.e., $55,750 – $33,800 = $21,950).

Following review and evaluation of all requests, SMC staff recommends providing WMB funding for 4 of the projects in the amount of $50,750, with the additional $16,950 of WMB funding coming from unallocated funds from the Des Plaines River and North Branch Chicago River Watersheds and the Watershed Management Assistance Grant (WMAG) program.

SMC staff evaluated each of the applications based on the following 9 WMB-approved prioritization criteria:

1. **Interjurisdictional Benefits**: Benefit multiple jurisdictions, have inter-jurisdictional impacts, and/or benefit major "trunk"/regional scale drainage systems that serve more than 100 acres of drainage area and/or multiple jurisdictions.
2. **Flood Hazard Reduction Benefits**: Provide beneficial results or impacts, such as non-transportation related flood hazard reduction, during flood events up to and including the 100-year event.
3. **Structural Damage Reduction**: Alleviate structural damages due to floods and other stormwater related causes, including stormwater-induced erosion, with consideration of the number of structures affected.
4. **Water Quality Benefits**: Reduce surface water quality problems utilizing BMPs.
5. **Natural Resource Benefits**: Benefit the environment with an emphasis on non-structural natural resource protection strategies.
6. **Nuisance Flood Reduction**: Alleviate major nuisance flooding and/or blocked transportation access.
7. **Multiple Use Benefits**: Provide multiple-use benefits to communities (e.g., recreation, public education, data collection, etc.).

8. **Outside Funding Utilization**: Utilize federal, state, and/or private funding to the maximum extent possible.
9. **Public Education Component**: Include a public education and outreach effort aimed at reducing the amount of phosphorus contained in stormwater runoff or otherwise reduce the amount of phosphorus contained in stormwater runoff.

SMC staff also awarded bonus credit to those applications satisfying the following WMB-approved criteria:

- Projects for which the applicant's share of the estimated total project cost exceeds 50%.
- Projects that are recommended in a SMC-adopted watershed plan.
- Projects that protect or alleviate structural damages to critical facilities.

Below is a brief summary of each proposed project, describing how each application addresses the WMB-approved prioritization criteria. SMC staff recommendations are also presented below.

1. **Timber Lake Bioswales & Stream Restoration Project**. An application was submitted by the Timber Lake Estates Civic Association (Association). The estimated project cost is $176,743, of which $166,743 is the applicant's share. $10,000 is currently being requested from the WMB. The proposed project scope includes the design, permitting, and construction of a streambank and stream channel stabilization project on approximately 450 linear feet of an actively eroding ravine stream. It also include the design, permitting, and construction of a green infrastructure retrofit project, which will includes the installation of approximately 90 linear feet of bioswales along a roadway right-of-way. The proposed improvements will help reduce sedimentation within the south inlet of Timber Lake. The $10,000 currently being requested from the WMB would be used to fund construction of the proposed improvements. The acquisition of land rights by the Association will be necessary to complete the project and the Association's receipt of a 319 grant from the Illinois Environmental Protection Agency may be needed to complete the project as currently envisioned.

Project evaluation:

1. The project will provide inter-jurisdictional benefits, as the project will benefit Timber Lake, which is located within unincorporated Lake County, including Cuba Township and Wauconda Township, as well as downstream receiving waterbodies, and will involve collaboration between multiple jurisdictions.
2. The project will provide some flood hazard reduction benefits, as the project will help reduce stormwater runoff rates and volumes and reduce flood elevations during events up to and including the 100-year event.
3. The project will provide some structural damage reduction benefits, as the project will help reduce stream downcutting and widening (i.e., erosion) that is occurring within the roadway right-of-way and along the ravine stream.
4. The project will provide significant water quality benefits, as the project will help reduce the sediment load and other stormwater runoff pollutant loads delivered to Timber Lake as well as downstream receiving waterbodies.
5. The project will provide significant natural resource benefits.
6. The project will provide some nuisance and transportation-related flooding reduction benefits, as the project will help reduce sedimentation and related capacity issues within the downstream stormwater infrastructure.

7. The project will provide multiple use benefits, as the project will include a public outreach and education component to educate property owners on the improvements they can make on their own properties to protect and restore Timber Lake.
8. Significant use of non-WMB funding is proposed, as the Association has proposed to cover over 90% of the estimated total project cost.
9. Public education and outreach on reducing phosphorus loads is not proposed, but the project will provide a reduction in the phosphorus load delivered to Timber Lake as well as downstream receiving waterbodies.

Bonus credit was awarded to this project due to the Association proposing to cover more than the required minimum 50% of the estimated total project cost and due to the project being recommended in the 9 Lakes Watershed-Based Plan.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $10,000 and 8 hours of SMC staff time.

2. **Dunn's Lake Shoreline Estates Stormwater Management System Enhancements, Phase 1.** An application was submitted by the Dunn's Lake Shoreline Estates Homeowners Association (HOA). The estimated project cost is $23,479.20, of which $12,729.20 is the applicant's share. $10,750 is currently being requested from the WMB. The proposed project scope includes the planning and design of, and the completion of site preparation work for, a project on the subdivision's stormwater management system, which generally consists of seven small wooded wet ponds which receive, detain, and treat stormwater runoff generated within the subdivision. The proposed improvements will enhance the flood hazard reduction, water quality, and natural resource benefits provided by the subdivision's stormwater management system. The HOA is planning a second phase of the project to construct the improvements that will be planned, designed, and prepared for during this initial effort.

Project evaluation:

1. The project will provide inter-jurisdictional benefits, as the performance of the subdivision's stormwater management system affects not only adjacent property owners, but also downstream property owners, including residents of both the Village of Fox Lake as well as unincorporated Lake County.
2. The project will provide flood hazard reduction benefits, as the project will help reduce stormwater runoff rates and volumes and reduce flood elevations during events up to and including the 100-year event.
3. The project will provide limited structural damage reduction benefits.
4. The project will provide significant water quality benefits, as the project will help reduce the sediment load and other stormwater runoff pollutant loads delivered to receiving waterbodies.
5. The project will provide significant natural resource benefits.
6. The project will provide significant nuisance and transportation-related flooding reduction benefits, as the project will help reduce nuisance ponding that occurs on at least five lots within the subdivision.
7. The project will provide limited multiple use benefits.
8. The use of non-WMB funding is proposed, as the HOA has proposed to cover 55% of the estimated total project cost.

9. Public education and outreach on reducing phosphorus loads is not proposed, but the project will provide a reduction in the phosphorus load delivered to receiving water bodies.

Bonus credit was awarded to this project due to the HOA proposing to cover more than the required minimum 50% of the estimated total project cost.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $10,750 and 24 hours of SMC staff time.

3. **Bays Park Rain Garden**. An application was submitted by the Tower Lakes Improvement Association (TLIA). The estimated project cost is $119,000, of which $109,000 is the applicant's share. $10,000 is currently being requested from the WMB. The proposed project scope includes the design, permitting, and construction of a 7,800 square foot bioretention area to treat stormwater runoff before it reaches Tower Lake. The $10,000 currently being requested from the WMB would be used to fund construction of the proposed improvements. TLIA's receipt of a 319 grant from the Illinois Environmental Protection Agency may be needed to complete the project as currently envisioned.

Project evaluation:

1. The project will provide some interjurisdictional benefits, as the project will benefit Tower Lake, as well as downstream receiving waterbodies, and will involve collaboration between multiple jurisdictions.
2. The project will provide some flood hazard reduction benefits, as the project will help reduce stormwater runoff rates and volumes and reduce flood elevations during events up to and including the 100-year event.
3. The project will provide limited structural damage reduction benefits.
4. The project will provide water quality benefits, as the project will help reduce stormwater runoff pollutant loads delivered to Tower Lake as well as downstream receiving waterbodies.
5. The project will provide significant natural resource benefits.
6. The project will provide significant nuisance and transportation-related flooding reduction benefits, as the project will help reduce nuisance ponding that occurs in the park and on an adjacent roadway.
7. The project will provide significant multiple use benefits, as the project will support an existing public outreach and education component to educate property owners on the improvements they can make on their own properties to protect and restore Tower Lake.
8. Significant use of non-WMB funding is proposed, as the HOA has proposed to cover over 90% of the estimated total project cost.
9. Public education and outreach on reducing phosphorus loads is not proposed, but the project will provide a reduction in the phosphorus load delivered to Tower Lake as well as downstream receiving waterbodies.

Bonus credit was awarded to this project due to the HOA proposing to cover more than the required minimum 50% of the estimated total project cost and due to the project being recommended in the 9 Lakes Watershed-Based Plan.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $10,000 and 8 hours of SMC staff time.

4. **Paulus Park Stormwater Management Improvements**. An application was submitted by the Village of Lake Zurich. The estimated project cost is $55,000, of which $35,000 is the applicant's share. $20,000 is currently being requested from the WMB. The proposed project scope includes the design, permitting, and construction of improvements to the general access beach in Paulus Park to address ongoing nuisance flooding, water quality, and drainage issues. The proposed improvements include re-grading of the problem area, the installation of drainage infrastructure, the installation of a native vegetative buffer or other goose deterrent, and the replacement of an existing impervious trail with permeable pavement. The $20,000 currently being requested from the WMB would be used for construction of the proposed improvements.

Project evaluation:

1. The project will provide limited interjurisdictional benefits.
2. The project will provide some flood hazard reduction benefits, as the project will help reduce stormwater runoff rates and volumes and reduce flood elevations during events up to and including the 100-year event.
3. The project will provide limited structural damage reduction benefits.
4. The project will provide water quality benefits, as the project will help reduce stormwater runoff pollutant loads delivered to Lake Zurich as well as downstream receiving waterbodies.
5. The project will provide natural resource benefits and will involve the use of green infrastructure practices (i.e., non-structural strategies).
6. The project will provide significant nuisance and transportation-related flooding reduction benefits, as the project will reduce nuisance ponding that affects the use of the general access beach.
7. The project will provide multiple use benefits, as the project will demonstrate the use of green infrastructure practices and will include a public outreach and education component to educate property owners about the project.
8. The use of non-WMB funding is proposed, as the Village has proposed to cover 65% of the estimated total project cost.
9. Public education and outreach on reducing phosphorus loads is not proposed, but the project will provide a reduction in the phosphorus load delivered to Lake Zurich as well as downstream receiving waterbodies.

Bonus credit was awarded to this project due to the Village proposing to cover more than the required minimum 50% of the estimated total project cost and due to the project supporting the recommendations of the Flint Creek Watershed-Based Plan.

This project ***IS RECOMMENDED*** for WMB funding in the amount of $20,000 and 8 hours of SMC staff time.

5. **Eton Park Restoration**. An application was submitted by the Village of North Barrington. The estimated project cost is $24,500, of which $19,500 is the applicant's share. $5,000 is currently being requested from the WMB. The proposed project scope includes vegetation management within a wetland located in Eton Park. The proposed project includes a controlled burn, herbicide treatment of undesired vegetation, physical removal of the root systems of undesired vegetation, and restoration of the wetland vegetative community via the existing seed bank.

Project evaluation:

1. The project will provide limited interjurisdictional benefits.
2. The project will provide limited flood hazard reduction benefits.
3. The project will provide limited structural damage reduction benefits.
4. The project will provide limited water quality benefits.
5. The project will provide significant natural resource benefits, as the project will involve the restoration and enhancement of a wetland vegetative community.
6. The project will provide limited nuisance and transportation-related flooding reduction benefits.
7. The project will provide significant multiple use benefits, as the project will demonstrate the management and restoration of a wetland vegetative community and will include a public outreach and education component to and educate property owners about the project.
8. Significant use of non-WMB funding is proposed, as the Village has proposed to cover 80% of the estimated total project cost.
9. Public education and outreach on reducing phosphorus loads is not proposed and the project will provide limited reduction of phosphorus loads.

Bonus credit was awarded to this project due to the Village proposing to cover more than the required minimum 50% of the estimated total project cost and due to the project supporting the recommendations of the Flint Creek Watershed-Based Plan.

This project ***IS NOT RECOMMENDED*** for WMB funding.

	Prioritization criteria		Timber Lake Bioswales & Stream Restoration		Dunns Lake Stormwater Management System Enhancements, Phase 1		Bays Park Rain Garden		Paulus Park Stormwater Management Improvements		Eton Park Restoration		Fox Watershed Total
Rank	Fox	Maximum Possible Weight	Rating	Score	Rating	Score	Rating	Score	Rating	Score	Rating	Score	
1	Interjurisdictional benefits	25	3	75	3	75	2	50	1	25	1	25	
2	Flood hazard reduction benefits	20	2	40	3	60	2	40	2	40	1	20	
3	Structural damage reduction	15	2	30	1	15	1	15	1	15	1	15	
4	Water quality benefits	15	5	75	4	60	4	60	3	45	1	15	
5	Natural resource benefits	10	4	40	4	40	4	40	3	30	5	50	
6	Nuisance flood reduction	5	2	10	4	20	4	20	5	25	1	5	
7	Multiple use benefits	5	3	15	1	5	4	20	3	15	4	20	
8	Outside funding utilization	5	5	25	3	15	5	25	3	15	3	15	
9	Public education component	5	1	5	1	5	1	5	1	5	1	5	
	Bonus Credit: Critical facilities	5	0	0	0	0	0	0	0	0	0	0	
	Bonus Credit: Greater than 50% non-SMC cost-share	5	5	5	5	5	5	5	5	5	5	5	
	Bonus Credit: Measure Recommended in a SMC-adopted watershed management plan	5	5	5	0	0	5	5	5	5	5	5	
	Weighted Score Total (Minimum score greater than 210 required for funding)			325		300		285		225		180	
	Total project cost		$176,743		$23,479		$119,000		$55,000		$24,500		$79,500
	Applicant in-kind hours		240		0		600		70		40		110
	Applicant cost share		$166,743		$12,729		$109,000		$35,000		$19,500		$54,500
	Applicant's WMB funding request		$10,000		$10,750		$10,000		$20,000		$5,000		$25,000
	Applicant's request for SMC in-kind hours		10		0		24		0		0		0
	Total Available Funds for the watershed =	$33,800											
	Staff recommendation for watershed funding		$10,000		$10,750		$10,000		$20,000		$0		$20,000
	Staff recommendation for SMC in-kind hours		8		24		8		8		0		8

Rating: 0=no effect, 1=minimal effect, 2=below average effect, 3=average effect, 4=above average effect, 5=maximum effect practicable

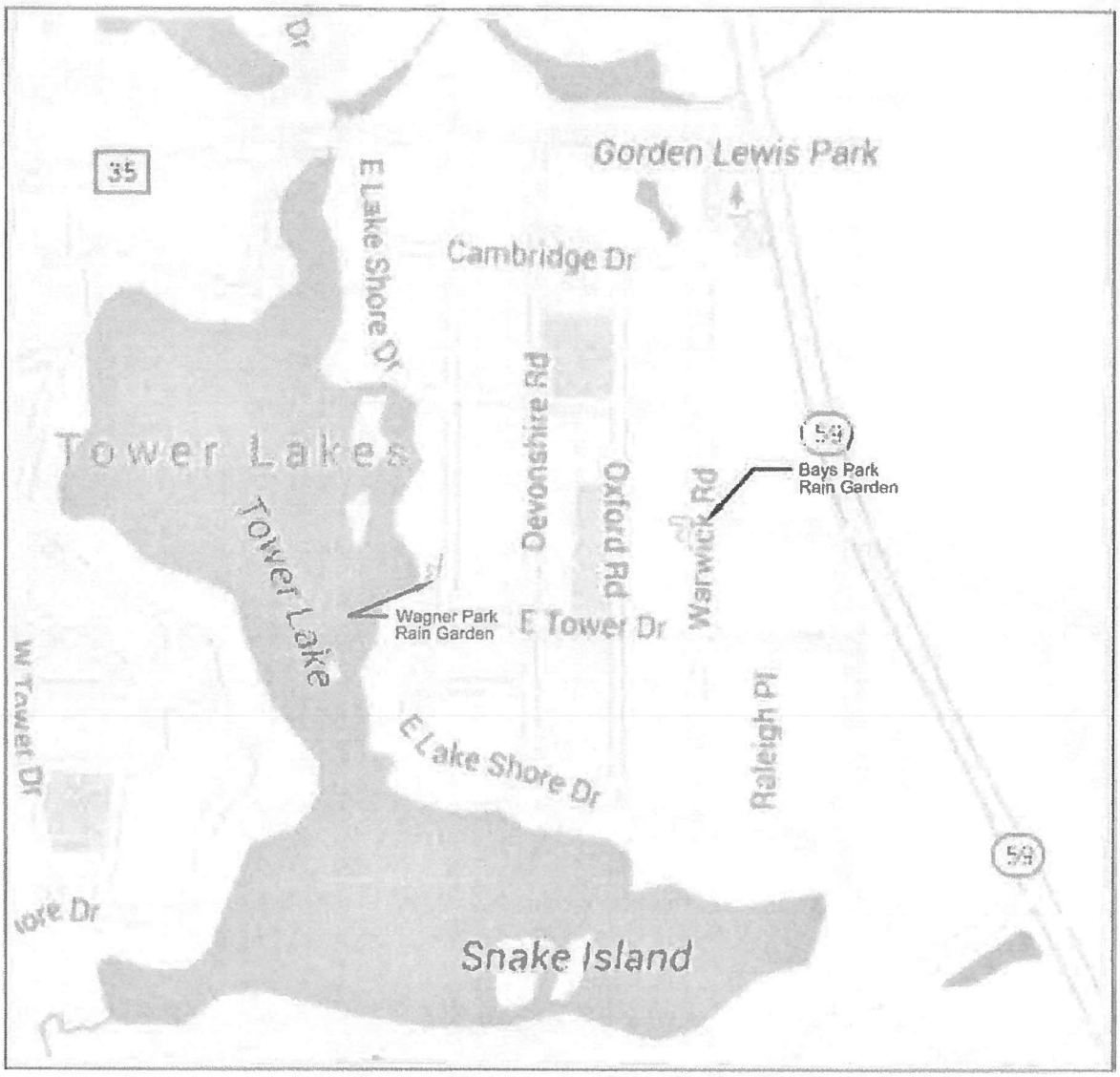
FY2016 WMB Projects Evaluation Summary - Fox River Watershed

PROJECT LOCATION

THE SOUTH INLET OF TIMBERLAKE IS LOCATED WEST OF RT. 12, NORTH OF TIMBERLAKE DRIVE, IN TIMBERLAKE ESTATES, WEST OF EAST OAKWOOD DRIVE. THE PROJECT AREA EXTENDS BOTH NORTH AND SOUTH OF WEST TIMBERLAKE DRIVE, VILLAGE OF NORTH BARRINGTON, LAKE COUNTY, ILLINOIS.

Timber Lake Bioswales & Stream Restoration

Dunns Lake Shoreline Estates Stormwater Management System Enhancements



SECTION 2 TOWNSHIP 43 NORTH RANGE 9 EAST

Wagner Park
25364 E Lake Shore Dr
Tower Lakes, IL 60010

Bays Park
25412 Warwick Road
Tower Lakes, IL 60010

Bays Park Rain Garden

General Site Map – Paulus Park

Paulus Park Stormwater Management Improvements

FOX RIVER

Eton Park Restoration

LAKE MICHIGAN

LAKE COUNTY

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

November 10, 2015

TO: Watershed Management Board Members
FR: Juli E. Crane, Principal Wetland Specialist
RE: FY2016 WMB Requests; Funding Recommendations for Projects in Lake Michigan Watershed

SMC received two requests for WMB funding for projects in the Lake Michigan Watershed, with total project costs of $352,400 and requested funding in the amount of $51,740. The amount of funding allocated for projects in the Lake Michigan Watershed for Fiscal Year 2016 is $25,780. SMC staff recommends WMB funding for one of the projects and alternate funding for the second project.

1. **Interjurisdictional Benefits -** Benefit multiple jurisdictions (government entities, HOAs, not-for-profits), will have interjurisdictional impacts, and/or will benefit the major "trunk"/regional scale drainage system of the watershed. ("Trunk" defined as that part of the drainage system that drains more than 100-acre drainage areas and has the potential to have inter-jurisdictional impacts.)

2. **Flood Hazard Reduction Benefits -** Have beneficial results or impacts, including non-transportation related flood hazard reduction, during flood events up to and including 100-year events. (A 100-year event being a flood event with the probability of occurrence in any given year of 1%.)

3. **Structural Damage Reduction -** Mitigate structural damages due to floods and other stormwater related causes with consideration of the number of structures affected including, but not limited to, removing, elevating, flood-proofing or otherwise protecting buildings from future danger of flood damage or structural damage related to flood-induced erosion. Also, this criteria includes Lake Michigan Watershed specific mitigation of damages due to stormwater, flood and wave induced problems on bluff, ravine and lakeshore areas.

4. **Water Quality Benefits -** Reduce surface water quality impairments utilizing best management practices.

5. **Natural Resource Benefits -** Benefit the environment with an emphasis on non-structural natural resource protection strategies.

6. **Nuisance Flood Reduction -** Alleviate major nuisance flooding and/or blocked transportation access.

7. **Multiple Use Benefits -** Provide multiple-use benefits to communities such as recreation, public education, data collection or others.

8. **Outside Funding Utilization** - Utilize federal and/or state funding to the maximum extent possible.

9. **Public Education Component** - Include a public education and outreach effort aimed at reducing the amount of phosphorus contained in stormwater runoff. This may include reducing the amount of fertilizer applied to lawns, using phosphorus-free fertilizers, and establishing buffer strips along lake shores, stream banks, and wetlands. Applicants may also choose to adopt an ordinance banning the use of fertilizers and detergents containing phosphorus.

Incremental bonus credit will be given for the following:

- Critical facilities.
- Projects that have a greater than 50% non-SMC cost-share.
- Measure recommended in a SMC-adopted watershed management plan.

The following provide brief project descriptions addressing the nine prioritization criteria and SMC staff funding recommendations to WMB:

1. **Talmadge Ave. Culvert Replacement.** This application was submitted by the Village of Beach Park. The estimated project cost is $250,000, with local share of $224,220 and a requested WMB amount of $25,780. The project scope involves replacing approximately 100 feet of failing 84-inch culvert under Talmadge Avenue to ensure continued conveyance of stormwater capacity on Bull Creek and alleviate potential exposure to roadway collapse.

   Project Evaluation:
   1. The project will benefit multiple jurisdictions and has a drainage area of more than 100 acres.
   2. The project will have indirect flood hazard reduction benefits.
   3. This project will have proactive structural damage reduction benefits by helping prevent conditions that could lead to road collapse and damage to sanitary and water lines.
   4. This project provides proactive water quality benefits, as culvert replacement will prevent a potential large influx of sediment and nutrients should the culvert collapse and the sanitary line break.
   5. The project is a structural strategy that will provide environmental benefits by reducing bank and toe-of-slope saturation near the culvert and installing deep-rooted native vegetation following culvert replacement.
   6. This project will provide limited benefits in alleviating nuisance flooding, with indirect benefits by preventing blocked transportation that would result with culvert collapse.
   7. The project will provide multiple use benefits by holding a workshop to educate property owners along Bull Creek and improve the existing NPDES test sampling site.
   8. The Village will cover the balance of costs not covered by the County. No state or federal funding was identified for the project.
   9. The project scope includes a phosphorus reduction component.
   10. Project is in line with multiple goals in the Dead River Watershed-based plan.

   This project ***IS NOT RECOMMENDED*** for WMB funding; an alternate SMC funding source (SIRF) would be used instead.

2. **Bowen Park Rain Garden, Ravine Buffer Expansion, and Permeable Paving.** This application was submitted by the Waukegan Park District. The estimated project cost is $102,400, with local share of $76,620 and a requested WMB amount of $25,780. The project scope involves the design and construction of a rain garden, expansion of native buffer around the ravine, and installation of permeable paving features to decrease and treat runoff.

   Project Evaluation:

   1. The project will benefit multiple jurisdictions and has a drainage area of more than 100 acres.
   2. The project will have limited flood hazard reduction benefits by slowing water velocity and encouraging infiltration.
   3. The project will provide some benefit through decreased runoff and reduced stormwater velocity, thereby reducing erosion of the ravine structure.
   4. Project improves water quality through use of several BMPs that will promote infiltration and treat runoff prior to discharge into the ravine, including use of non-structural natural resource protection strategies.
   5. The project will help alleviate nuisance flooding of parking area in heavy rains.
   6. Project will support multi-use benefits through use of the project components as an educational resource and for passive recreation.
   7. No state or federal funding is proposed for the indicated components, which are part of a larger overall planned action, some elements of which were implemented with a 2010 GLRI environmental preservation grant.
   8. No mention of a specific phosphorous education component.
   9. Project is in line with multiple goals in the Dead River Watershed-based plan.

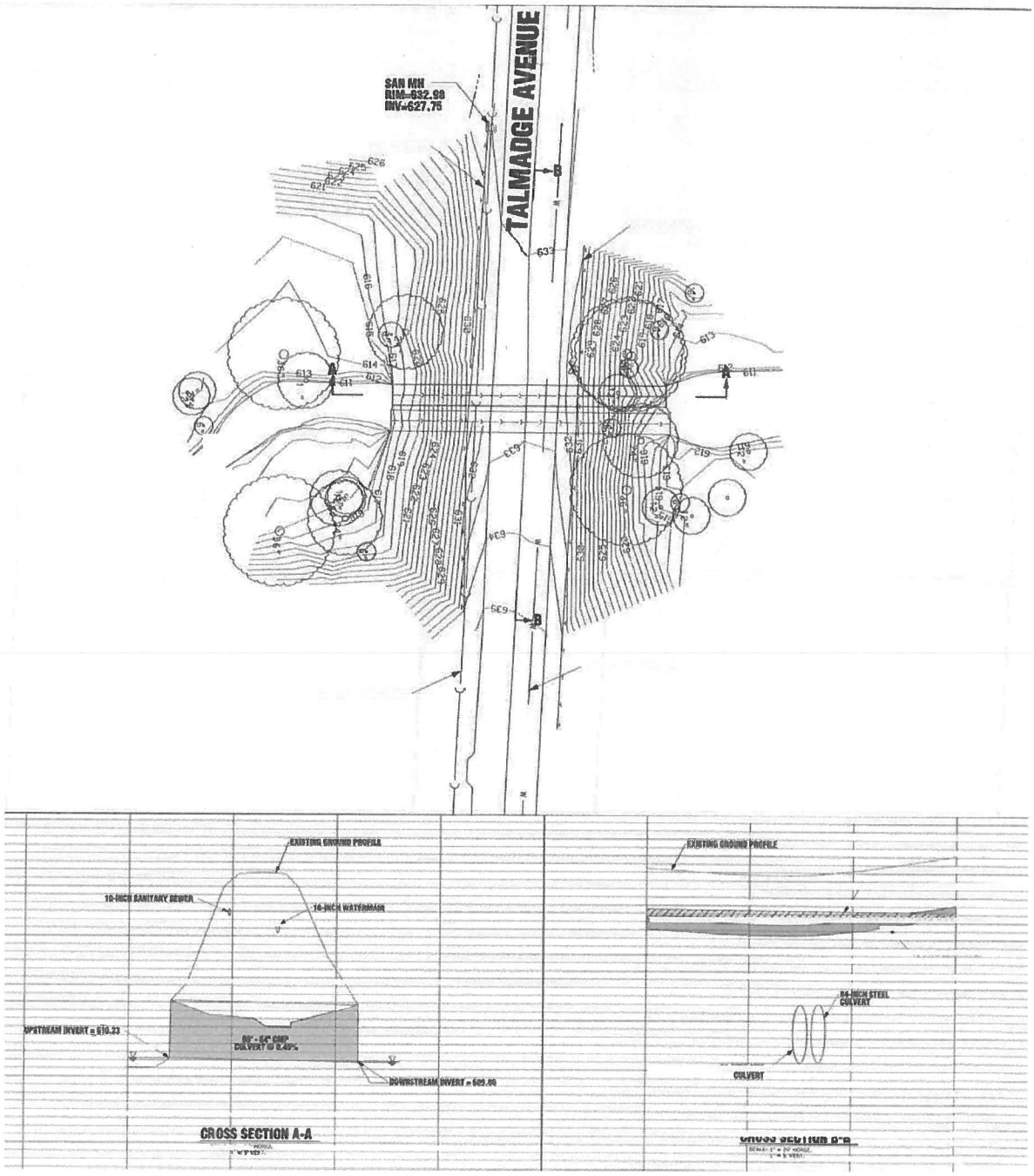
   This project ***IS RECOMMENDED*** for WMB funding at the requested level, plus 8 hours of SMC staff time.

WMB Funding Evaluation – Lake Michigan Watershed

Rank	Prioritization Criteria	Maximum Possible Weight	Talmage Ave. Culvert Replacement		Bowen Park Rain Garden, Ravine Buffer, and Permeable Paving	
			Rating	Score	Rating	Score
1	Interjurisdictional benefits	25	4	100	4	100
2	Flood hazard reduction benefits	20	2	40	1	20
3	Structural damage reduction	15	3	45	2	20
4	Water quality benefits	15	3	45	3	45
5	Natural resource benefits	10	3	30	4	40
6	Nuisance flood reduction	5	1	5	3	15
7	Multiple use benefits	5	1	5	4	20
8	Outside funding utilization	5	3	15	3	15
9	Public education component for phosphorus	5	1	5	0	0
	Bonus Credit: Critical facilities	5	1	5	0	0
	Bonus Credit: Greater than 50% non-SMC cost-share	5	1	5	1	5
	Bonus Credit: Measure Recommended in a SMC-adopted watershed management plan	5	1	5	1	5
	Weighted Score Total (Minimum score greater than 210 required for funding)			305		295
	Total project cost			$250,000		$102,400
	Applicant in-kind hours			0		120
	Applicant cost share			$224,220		$76,620
	Applicant's WMB funding request			$25,780		$25,780
	Applicant's request for SMC in-kind hours			0		
	Total Available Funds for the watershed	$25,780				
	Staff recommendation for watershed funding			0		$25,780
	Staff recommendation for SMC in-kind hours			0		8

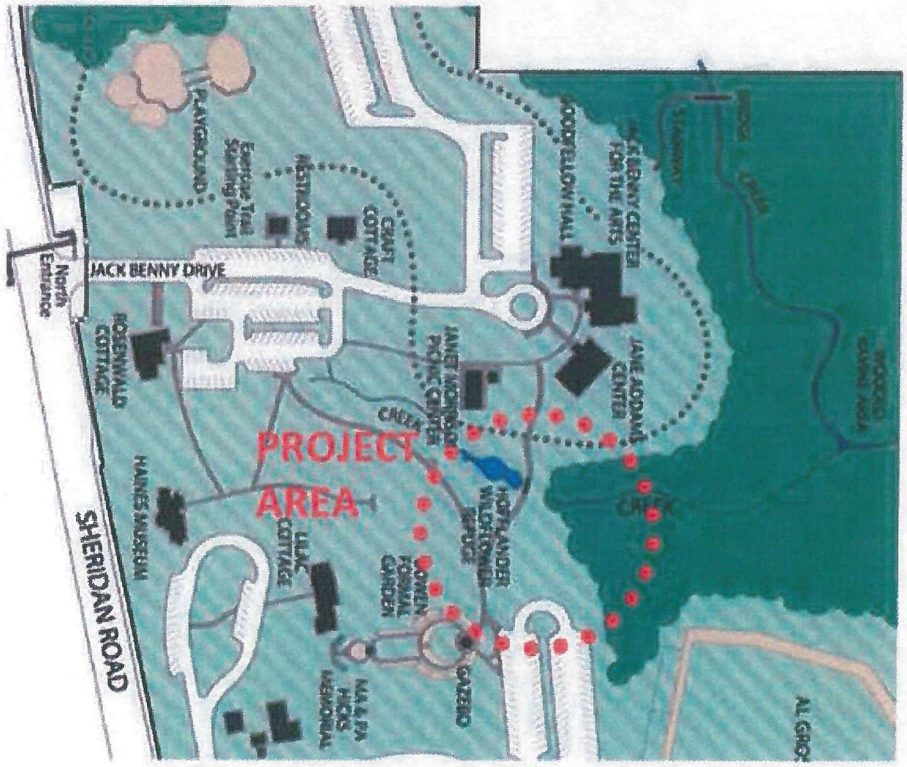
LAKE MICHIGAN

Project Location: Talmadge Avenue Culvert Replacement



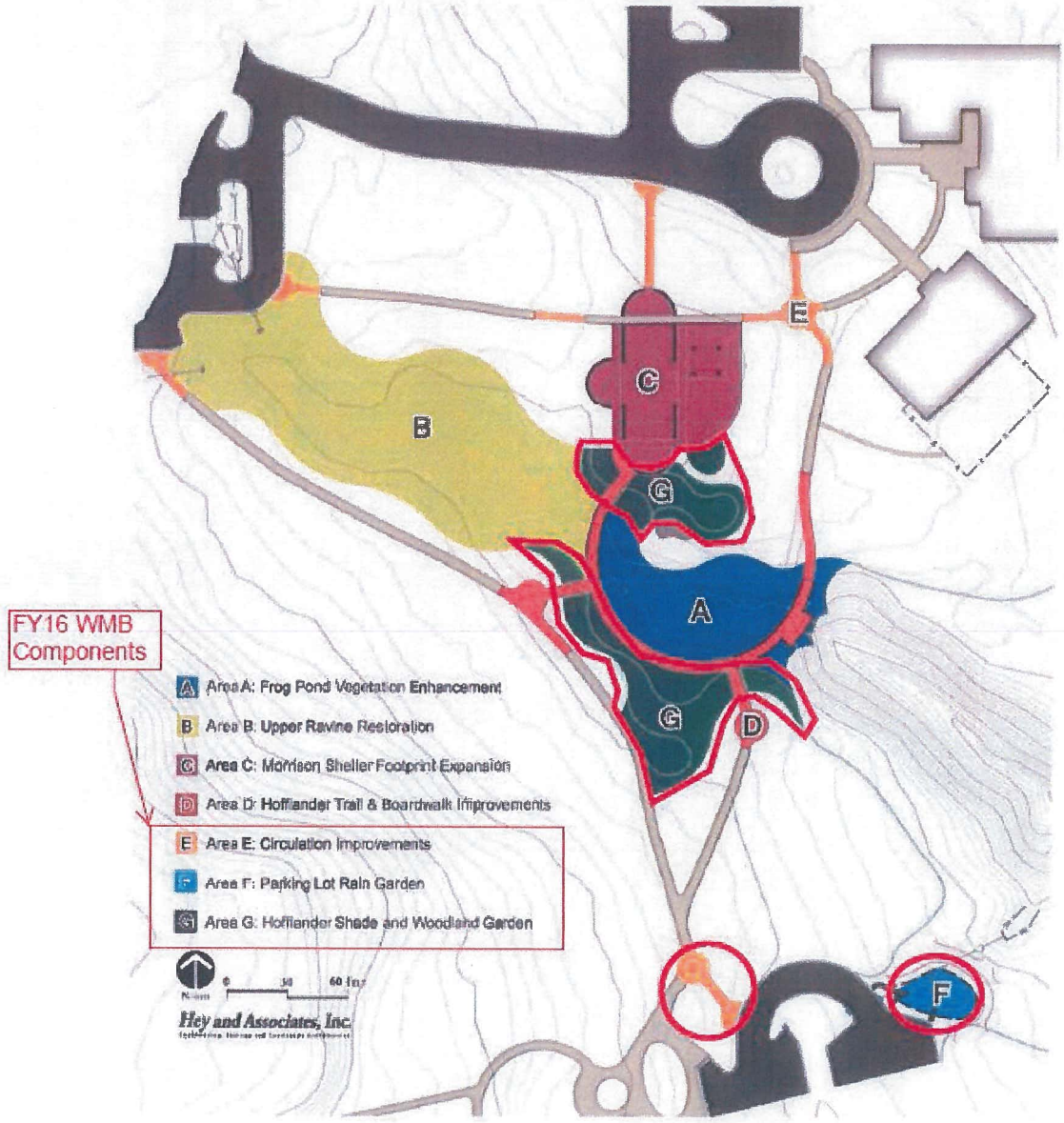
Talmadge Avenue Culvert Replacement Plan Sheet Excerpt

LAKE MICHIGAN



Bowen Park Rain Garden, Ravine Buffer Expansion & Permeable Paving

Schematic Master Plan Area Key and Components:



Bowen Park Rain Garden, Ravine Buffer Expansion & Permeable Paving
WMB FY16 Component Locations

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

TO:	Watershed Management Board Members
FROM:	SMC Staff
RE:	Proposed Enhancements to WMB Policies and Procedures
DATE:	December 10, 2015

ACTION REQUESTED: APPROVAL of WMB Policy and Procedures Enhancements

The Lake County Watershed Management Board (WMB) Policies and Procedures document provides guidance to the WMB on its role, responsibilities, organization, and relationship to the Lake County Stormwater Management Commission (SMC). Specifically, the Policies and Procedures document governs how projects are developed and approved for SMC funding or staff resource allocations and outlines the compliance and prioritization criteria for projects seeking SMC funding or staff assistance.

SMC staff has developed three proposed modifications to the WMB Policies and Procedures document for your consideration which would become effective for the 2017 WMB Program:

(1) Adding in language into the WMB Policies and Procedures document to allow for partial reimbursements and to encourage applicants to complete the project deliverables. With the large number of proposals that SMC receives for the WMB program, this is another way to encourage applicants to submit their final deliverables and fully complete their WMB projects.

Therefore, the addition of **Project Compliance Criteria #9** to the WMB Policy and Procedures document is proposed to address this issue. The proposed modification is shown in Attachment 1 in ***red, bold, italicized font***.

(2) Adding in language into the WMB Policies and Procedures document to clarify that WMB applicants must be a part of an incorporated entity, nonprofit group, or local government or agency. This language was already incorporated into the WMAG Eligibility but was not made clear for the WMB program.

Therefore, the addition of **Project Compliance Criteria #10** to the WMB Policy and Procedures document is proposed to address this issue. The proposed addition is shown in Attachment 1 in ***red, bold, italicized font***.

(3) Adding in language into the WMB Prioritization Criteria to clarify the education component is Phosphorus based. This hasn't been consistently interpreted by applicants but does not change the intent of the criteria.

Therefore, the addition of **Project Prioritization Criteria #9** to the WMB Policy and Procedures document is proposed to address this issue. The proposed addition is shown in Attachment 1 in ***red, bold, italicized font***.

Additionally, the WMB Policies and Procedures document has been updated to match the language used in the most recent Request-for-Proposal Packet, to better define the role, organization and responsibilities of the WMB, and to clarify how projects are developed and approved for SMC funding or staff resource allocations. The updated WMB Policy and Procedures document has been attached for your consideration.

ATTACHMENT 1

WATERSHED ASSISTANCE AND FUNDING RECOMMENDATIONS

PROJECT COMPLIANCE CRITERIA:

9. ***Interim project payments: Up to 50% of the WMB/WMAG funding can be invoiced by the applicant prior to submitting final deliverables, providing documentation of progress towards completion of the scope of work. The final 50% (or final balance) will be reimbursed upon receipt and approval by SMC of final deliverables.***

10. ***The grant may be made directly to the applicant if it is an incorporated entity. If the applicant is not incorporated, the grant recipient may be a nonprofit group, or local government or agency that is an active participant in the program. In this case, the grantee needs to demonstrate strong support from the applicant for its role as grant recipient and coordinator of the funded activities.***

PROJECT PRIORITIZATION CRITERIA:

9. ***(Phosphorous)*** **Public Education Component -** Include a public education and outreach effort aimed at reducing the amount of phosphorus contained in stormwater runoff. This may include reducing the amount of fertilizer applied to lawns, using phosphorus-free fertilizers, and establishing buffer strips along lake shores, stream banks, and wetlands. Applicants may also choose to adopt an ordinance banning the use of fertilizers and detergents containing phosphorus.

POLICIES AND PROCEDURES

LAKE COUNTY
WATERSHED MANAGEMENT BOARD

STORMWATER MANAGEMENT COMMISSION

February 2, 1995
February 6, 1997
August 12, 1997
January 7, 1999
March 2, 2006
December 14, 2006
January 10, 2008
January 8, 2009
January 7, 2010
May 5, 2011
April 5, 2012
February 6, 2014
December 10, 2015

POLICIES AND PROCEDURES
LAKE COUNTY WATERSHED MANAGEMENT BOARD

These Policies and Procedures provide guidance to the Lake County Watershed Management Board (WMB) on its role, duties, organization, and relationship to the Lake County Stormwater Management Commission (SMC). Specifically, these Policies and Procedures govern how projects are developed and approved for SMC funding or SMC staff resource allocations.

Robert's Rules of Order shall pertain to all WMB meeting situations not covered by the provisions listed hereafter.

ORGANIZATION/ADMINISTRATION

ROLE:

The primary role of the Watershed Management Board (WMB) is to oversee the allocation of SMC funding and SMC staff resource allocations for projects across the four watersheds of Lake County, Illinois. These watersheds are, from west to the east, the:

Fox River – Des Plaines River – North Branch Chicago River – Lake Michigan

Requests for SMC funding and SMC staff resource allocations are initiated through the submittal of a Watershed Resource Request Form to the SMC Director. Completed applications are reviewed by SMC staff and a summary of each application is placed on the agenda for WMB consideration at the Annual Meeting, typically held in December. At the Annual Meeting, SMC staff presents each resource request and its recommendation and rationale to the WMB. The WMB then decides whether or not to recommend approving, not approving, or approving with revisions or conditions, each resource request. WMB recommendations are then presented to the SMC Board of Commissioners for approval at the next SMC Board meeting, typically held in January.

WMB RESPONSIBILITIES:

1. Contribute to the countywide watershed needs assessment and the watershed planning process.
2. Recommend programs and projects that will address the unique needs of each watershed.
3. Guide SMC staff in the development of watershed budgets.
4. Comment on SMC staff reports and recommendations on watershed issues.
5. Initiate requests for technical assistance or funding for watershed projects.
6. Comment on and provide a forum for general public comment on federal, state, county and local studies, plans and projects that have interjurisdictional scope or impacts.
7. Coordinate the management of local watershed resources.
8. Operate as a forum for the resolution of interjurisdictional issues and the sharing of information.
9. Contribute guidance and information for major regulated projects that have regional or inter-jurisdictional impacts. The WMB does not have a formal or decision-making role in the regulatory component of the countywide stormwater management program.

BOARD MEMBERSHIP AND COMMITTEES:

1. The Watershed Management Board (WMB) shall include as members: the Chief Elected Official (CEO) from each city, village, township, and active drainage district; and also all county board members. In addition, the CEO of the Fox Waterway Agency will be included as a member of the WMB.

2. Each CEO or county board member may delegate WMB membership to a representative of their community. The designation of a delegate means that all WMB business will be accomplished through this representative. The CEO or delegated WMB member may also designate an alternate representative to the WMB.

3. The WMB may establish an Executive Committee to manage WMB functions in-between meetings, but not to approve watershed actions or projects.

4. Sub-committees may be established to perform specific duties, perform research and/or develop recommendations to the WMB as assigned by the Chairperson with the consent of the WMB.

VOTING/RECOMMENDATION PROCEDURES AND ELECTION OF CHAIRS:

1. Each WMB member shall have one vote. The WMB member, or their designated alternate, may vote and must be present at the WMB meetings to have this vote counted.

2. Project funding recommendations to SMC will be made based on consensus agreement by the participating members and delegates of each watershed. If a clear consensus cannot be reached, then all positions expressed by WMB members and delegates will be presented to the SMC.

3. All designated delegates or alternates shall be identified in writing to the SMC Director before the WMB meeting that the representative is authorized to vote. Once identified, these representatives serve at the pleasure of the CEO of their community. These representatives may continue to represent their communities until they resign or are replaced on the WMB by their CEO.

4. A Chairperson pro-tem shall be elected at the beginning of the annual WMB meeting.

5. The Chairperson will chair the annual meeting as well as any additional meetings that may be held during the following year.

6. On the occasion that there is not a willing Chairperson at a WMB meeting, SMC staff shall facilitate the conduct of WMB business.

MEETING DATES AND AGENDA:

1. At least one meeting of the WMB shall be scheduled annually.

2. The location of the meeting shall be determined by SMC staff with the consent of the WMB.

3. The Chairperson may call for special meetings as needed provided that the WMB members are notified at least five working days before the meeting date.

4. A regularly scheduled meeting may be canceled by the Chairperson and SMC Director if no items of business need to be discussed.

5. Any WMB member, elected State representative, or applicable governmental agency may submit items to be discussed by the WMB as part of a published agenda.

6. All agenda items must be submitted to the SMC Director a minimum of fifteen working days before a regularly scheduled WMB meeting.

WATERSHED ASSISTANCE AND FUNDING RECOMMENDATIONS

PROJECT COMPLIANCE CRITERIA:

The following shall govern WMB decisions on SMC watershed account allocation recommendations and to recommend the use of SMC staff on watershed-specific projects.

1. WMB members and SMC staff may initiate requests for watershed funds or SMC staff resource allocations by completing the Watershed Resource Request Form. The completed form with supporting documents shall be submitted to the SMC Director by the deadline established in the Request-for-Proposal Packet, in order to be placed on the agenda for WMB consideration. *All applications must be signed by a WMB member, as the project sponsor, as defined in the Request-for-Proposal Packet.*

2. Requests for resources shall be in the categories of planning, engineering analysis, alternate solution evaluation, design, capital construction, and repairs. Projects required as part of a regulatory permit are not eligible for WMB funding. Variances to this may be warranted due to unique circumstances.

3. Sponsored applicants shall cost-share at least 50% with funds or in-kind services or a combination of both. Expenses incurred or activities occurring prior to approval of funding recommendations by the SMC are not eligible for reimbursement or to meet cost-share requirements. Several applicants may combine resources to meet the applicant cost share requirement, or individual applicants may propose Federal or State resources to meet the applicant cost share requirement. SMC would seek co-sponsorship for projects in unincorporated areas and would seek partial funding or in-kind services from other agencies and groups.

4. Jurisdictions seeking SMC resources shall be in good standing with the National Flood Insurance Program and comply with SMC policies.

5. If possible, the request should include quantifiable "benefits" information (such as "dollar value of reduced damages"). Inclusions of this type of information shall be a prioritization consideration.

6. The project shall comply with or be consistent with all applicable watershed plans and stormwater management ordinances, regulations, laws and statutes. Regulatory fees, if applicable, will not be waived, and shall be the sole responsibility of the applicant. All regulatory fees shall be included in the project budget, and may count toward the minimum 50% cost-share requirement.

7. The requests are limited to watershed funds and staff capacity not currently encumbered by specific commitments.

8. "Land Rights" - For all properties where in-the-ground construction will or may occur, the Applicant shall provide Owner-authorized land access and/or land rights or evidence of possessory interest in the form of previously recorded documentation or written authorization, from all property owners affected. Documentation or authorization may include, recorded permanent easements; land covenants, deed-restricted areas, or prescriptive easement (with the Owner's authorization or evidence of possessory interest); or other Owner-approved and SMC accepted legal instruments (i.e., Owner-executed License Agreement). Work within public road rights-of-way shall not be performed without appropriate permits or authorization from the jurisdictional Road Authority.

9. Interim project payments: Up to 50% of the WMB/WMAG funding can be invoiced by the applicant prior to submitting final deliverables. The final 50% (or final balance) will be reimbursed upon receipt and approval by SMC of final deliverables.

10. The grant may be made directly to the applicant if it is an incorporated entity. If the applicant is not incorporated, the grant recipient may be a nonprofit group, or local government or agency that is an active participant in the program. In this case, the grantee needs to demonstrate strong support from the applicant for its role as grant recipient and coordinator of the funded activities.

PROJECT PRIORITIZATION CRITERIA:

The following, listed below in priority order, shall be considered by SMC staff in the development of the staff recommendation, and by the WMB in the consideration of resource requests. The project or activity by itself, or as a component of a candidate project, will:

1. **Interjurisdictional Benefits -** Benefit multiple jurisdictions (government entities, HOAs, not-for-profits), will have interjurisdictional impacts, and/or will benefit the major "trunk"/regional scale drainage system of the watershed. ("Trunk" defined as that part of the drainage system that drains more than 100-acre drainage areas and has the potential to have inter-jurisdictional impacts.)

2. **Flood Hazard Reduction Benefits -** Have beneficial results or impacts, including non-transportation related flood hazard reduction, during flood events up to and including 100-year events. (A 100-year event being a flood event with the probability of occurrence in any given year of 1%.)

3. **Structural Damage Reduction -** Mitigate structural damages due to floods and other stormwater related causes with consideration of the number of structures affected including, but not limited to, removing, elevating, flood-proofing or otherwise protecting buildings from future danger of flood damage or structural damage related to flood-induced erosion. Also, this criteria includes Lake Michigan Watershed specific mitigation of damages due to stormwater, flood and wave induced problems on bluff, ravine and lakeshore areas.

4. **Water Quality Benefits -** Reduce surface water quality impairments utilizing best management practices.

5. **Natural Resource Benefits -** Benefit the environment with an emphasis on non-structural natural resource protection strategies.

6. **Nuisance Flood Reduction -** Alleviate major nuisance flooding and/or blocked transportation access.

7. **Multiple Use Benefits -** Provide multiple-use benefits to communities such as recreation, public education, data collection or others.

8. **Outside Funding Utilization -** Utilize federal and\or state funding to the maximum extent possible.

9. ***Phosphorous*** **Public Education Component -** Include a public education and outreach effort aimed at reducing the amount of phosphorus contained in stormwater runoff. This may include reducing the amount of fertilizer applied to lawns, using phosphorus-free fertilizers, and establishing buffer strips along lake shores, stream banks, and wetlands. Applicants may also choose to adopt an ordinance banning the use of fertilizers and detergents containing phosphorus.

Incremental bonus credit will be given for the following:

- Critical facilities.
- Projects that have a greater than 50% non-SMC cost-share.
- Measure recommended in a SMC-adopted watershed management plan.

WMB Project Prioritization Criteria				
Rank	Watershed: Lake Michigan, North Branch, Des Plaines, Fox	Maximum Possible Weight	Rating (0 – 5)	Score (Weight x Rating)
1	**Interjurisdictional benefits**	25		
2	**Flood hazard reduction benefits**	20		
3	**Structural damage reduction**	15		
4	**Water quality benefits**	15		
5	**Natural resource benefits**	10		
6	**Nuisance flood reduction**	5		
7	**Multiple use benefits**	5		
8	**Outside funding utilization**	5		
9	**Public education component**	5		
	Bonus Credit: Critical facilities	5		
	Bonus Credit: Greater than 50% non-SMC cost-share	5		
	Bonus Credit: Measure Recommended in a SMC-adopted watershed management plan	5		
	Weighted Score Total (Minimum score greater than 210 required for staff recommendation of funding)			
	Total project cost			
	Applicant in-kind hours			
	Applicant cost share			
	Applicant's WMB funding request			
	Applicant's request for SMC in-kind hours			
	Total Available Funds for the watershed =			
	Staff recommendation for watershed funding			
	Staff recommendation for SMC in-kind hours			

Rating: 0=no effect, 1=minimal effect, 2=below average effect, 3=average effect, 4=above average effect, 5=maximum effect practicable

WATERSHED MANAGEMENT ASSISTANCE GRANTS:

The Watershed Management Assistance Grant (WMAG) is a specialized type of WMB grant with a primary purpose of supporting the growth and sustainability (i.e., organizational capacity) of local watershed partnerships in Lake County. For the purpose of this program, a "watershed partnership" is defined as an inclusive, enduring, diverse, community-based group organized to identify and resolve watershed problems and issues. The work carried out by each grant recipient will target and fulfill the above purpose. $12,000 is set aside for these applications with no cost-share requirement.

WMAG ELIGIBILITY:

- The grant may be made directly to the partnership if it is an incorporated entity.
- If the partnership is not incorporated, the grant recipient may be a nonprofit group, or local government or agency that is an active participant in the partnership. In this case, the grantee needs to demonstrate strong support from the other members of the partnership for its role as grant recipient and coordinator of the funded activities.
- Before a grant will be awarded, SMC will review applicants' existing fiscal systems to ensure proper systems are in place to track and administer funds. Awardees will also be required to sign a contract of agreement and submit mid-project and final reports.
- The grant funds shall not be used for any efforts to carry on propaganda or political advocacy.
- Proposals selected for funding shall be completed by the end of November in the following year of award (about an 18-month project period).

WMAG CRITERIA:

A short narrative that addresses the following criteria must be attached to the Watershed Resource Request Form. All proposals selected for funding shall:

- **Participant Involvement -** Explain how participants representing interests and perspectives reflective of a specific watershed community will be involved in developing sound approaches and lasting solutions to the identified problems.
- **Problem Identification -** Identify one or more clearly defined watershed problems that the partnership will address.
- **Desired Results -** Establish realistic and clear goals and objectives.
- **Progress Measures -** Establish a method for evaluating the immediate and long-term effects of the project.
- **Outreach Efforts -** Focus on the development of the partnership and clearly demonstrate that proposed actions will increase the sustainability of the partnership.
- **Action Plan -** Produce a clear work plan, which describes the tasks to be accomplished, end results, products to be completed and the time frame.

Incremental bonus credit will be given to applicants who also:

- Have not previously received a Watershed Management Assistance Grant.
- Organizations that represent an entire watershed or subwatershed (e.g., Otter Creek Stakeholders Association) will be given preference over groups representing a portion of the watershed (e.g., Lakefront Property Owners Association).
- Involve or are supported by local governments.
- Can leverage additional funds, volunteer time or support for current and future organizational sustainability.
- Can demonstrate how this grant will assist the partnership to continue beyond the scope of the immediate work (this grant request) and develop as a long-term, sustainable entity in the watershed.
- Are working to organize or develop restoration plans.

WMAG Prioritization Criteria				
Rank		Maximum Possible Weight	Rating (0 – 5)	Score (Weight x Rating)
1	**Participant involvement**	20		
2	**Problem identification**	20		
3	**Desired results**	15		
4	**Progress measures**	15		
5	**Outreach efforts**	15		
6	**Action plan**	10		
	Bonus Credit: First-time WMAG funding	5		
	Bonus Credit: Subwatershed representation	5		
	Bonus Credit: Local unit of government support	5		
	Bonus Credit: Outside funding utilization	5		
	Bonus Credit: Demonstrate partnership sustainability	5		
	Bonus Credit: Includes restoration plan component	5		
	Weighted Score Total (Minimum score greater than 210 required for staff recommendation of funding)			
	Total project cost			
	Applicant in-kind hours			
	Applicant cost share			
	Applicant's WMB funding request			
	Applicant's request for SMC in-kind hours			
	Total Available Funds for the program =			
	Staff recommendation for watershed funding			
	Staff recommendation for SMC in-kind hours			

Rating: 0=no effect, 1=minimal effect, 2=below average effect, 3=average effect, 4=above average effect, 5=maximum effect practicable

ADMINISTRATIVE POLICIES:

Available project funding for each fiscal year shall be divided by watershed using the equalized assessed valuation of the property within each major watershed. Project scoring, ranking and preliminary staff recommendations to the WMB shall be performed per watershed.

A minimum score, as reflected on the project scoring spreadsheet, is required for a project to be recommended for funding by SMC staff to the WMB membership. The WMB membership is not bound by a minimum score criteria for its recommendations to the SMC. Every effort will be made to maximize SMC staff scoring for projects by working with applicants to gain a thorough understanding of the project during the application process.

If there are funds left over in a given watershed after funding all of the projects that meet this minimum score, the remaining funds can be recommended or allocated to a qualified project in another watershed.

At times, SMC staff working on a watershed project may need a small purchase or service that is incidental to a project. Therefore, SMC staff, following SMC Purchasing Policies and Procedures, may make incidental WMB fund allocation decisions between WMB meetings, not to exceed a total of $4,000.

The annual meeting and, if needed, special-call meetings shall be used to develop recommendations for specific WMB funding and staff resource commitments and approve watershed project budget proposals for inclusion in the SMC budget proposal. Unfulfilled WMB requests shall be considered along with all other information during the development of the WMB watershed budget proposal.

WATERSHED RESOURCE REQUEST PROCESS:

1. The applicant shall complete the Watershed Resource Request Form and provide the required attachments.

2. All requests shall be submitted to the SMC Director by the deadline established in the Request-for-Proposal Packet before the annual meeting.

3. Staff will review the application considering watershed fund availability, staff capacity and the compliance and prioritization criteria listed above. After consulting with the applicant for any additional information, SMC staff will develop a written staff recommendation.

4. A summary of all the applications and the staff funding recommendations will be included in the WMB agenda packet to be mailed/electronically mailed out at least one week before the annual meeting. SMC staff shall fulfill requests for additional information as they arise on an individual basis.

5. SMC staff will present the request, recommendation and rationale to the WMB. The applicant may expand on this presentation. A public comment, question and answer, and discussion period shall be facilitated by the Chairperson.

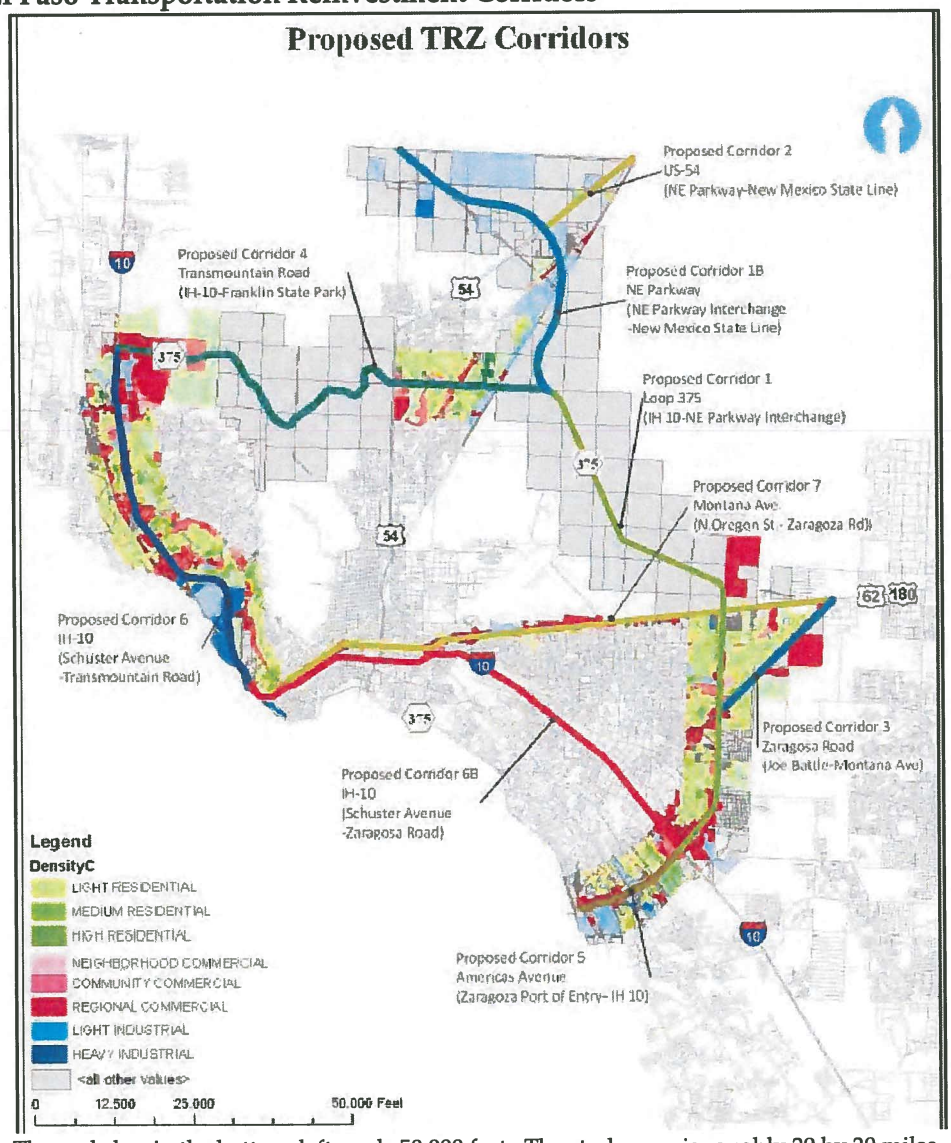
6. After a motion, second and any further discussion, a WMB vote will be taken to determine whether there is consensus among WMB members to approve, not approve, or approve with revisions or conditions the submitted Resource Request(s).

7. The SMC Director shall include the WMB recommendations in the agenda of the next SMC meeting. The SMC staff shall present to the SMC the WMB recommended allocations and staff commitments. Applicants or WMB members may expand on this presentation. A public comment, question and answer, and discussion period shall be facilitated by the SMC Chairperson. After a motion, second and any further discussion, an SMC roll call vote will be taken to approve, not approve, or approve with revisions or conditions the WMB recommendations.

8. SMC staff shall prepare contractual or intergovernmental agreements with the applicants for the disposition of approved allocated funds and staff commitments. All agreements must be signed by the SMC Director or SMC Chairperson. Agreements for funds over the SMC Director's spending authority must be approved at a subsequent SMC board meeting.

Since TRZs were authorized in 2007, TRZs have been created for major highway projects in the City of El Paso, Hidalgo County, and the City of Forney. El Paso has created two TRZs encompassing 10,000 acres to repay $70 million in debt related to improvements on five highway corridors. Hidalgo County created a 175,000 acre district to assist in funding a proposed $700 million loop road around the urbanized area of the county. The City of Forney created a smaller TRZ in 2008 to fund creation of a new interchange on the existing US-80. However, the City dissolved the district at its October 11, 2011 council meeting.

Figure 3. El Paso Transportation Reinvestment Corridors



The scale bar in the bottom-left reads 50,000 feet. The study area is roughly 20 by 20 miles.
Source: El Paso Mobility Program website at http://www.elpasomobility.org/pdf/trz-map.pdf