



3235 Fernbrook Lane N • Plymouth, MN 55447
 Tel: 763.553.1144 • Fax: 763.553.9326
 Email: judie@jass.biz • Website: www.shinglecreek.org

A meeting of the joint Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions is scheduled for 8:30 a.m., Thursday, March 29, 2018, at Crystal City Hall, 4141 Douglas Drive North, Crystal, MN.

A G E N D A

Meeting docs (*) are posted on the website at
<http://www.shinglecreek.org/tac-meetings.html>

1. Approve agenda*
2. Approve Minutes of February 1, 2018 meeting*
3. Minor Plan Amendment.*
4. Rules check-in.*
 - a. SCWM Fee Schedule.*
 - b. Bassett Creek Fee Schedule.*
5. Pike Lake Subwatershed Assessment.*
6. Submerged Aquatic Vegetation Management Plan.**
7. FEMA Grant and West Mississippi Scope of Work.**
8. Verbal update on Watershed-based Funding Pilot.
9. Other business.
10. Next meeting _____

Z:\Shingle Creek\TAC\2018 TAC\TAC Agenda 3-29-18.docx.doc

*in meeting packet *** available at the meeting



3235 Fernbrook Lane N • Plymouth, MN 55447
 Tel: 763.553.1144 • Fax: 763.553.9326
 Email: judie@jass.biz • Website: www.shinglecreek.org

MINUTES

February 1, 2018

A meeting of the Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions was called to order by Chairman Richard McCoy at 8:34 a.m., Thursday, February 1, 2018, at Crystal City Hall, 4141 Douglas Drive North, Crystal, MN.

Present were: Andrew Hogg, Brooklyn Center; Mitch Robinson, Brooklyn Park; Rick Lestina, Maple Grove; Ben Scharenbroich, Plymouth; Richard McCoy and Marta Roser, Robbinsdale; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Champlin, Crystal, Minneapolis, New Hope and Osseo.

Also present: Kimberly Carpenter, Rich Harrison, and Laura Schell, Metro Blooms, for Item III.

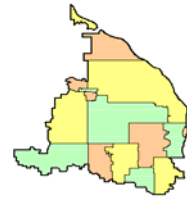
- I. Motion by Scharenbroich, second by Hogg to **approve the agenda**. *Motion carried unanimously.*
- II. Motion by Scharenbroich, second by Lestina to **approve the minutes** of the November 30, 2017 meeting. *Motion carried unanimously.*
- III. **Autumn Ridge Apartments – SCWMC Partnership Cost Share Grant Application.***

A. The Project. The applicants - the residents of Autumn Ridge Apartments, the property owners Sherman Associates, Metro Blooms, and the City of Brooklyn Park - are seeking funds for the first phase of a five-year stormwater retrofit project for this site, located at Boone and 63rd Avenues North. The first phase includes the installation of five raingardens, two trench drains, a native planting, and permeable pavement; removal and installation of trees; and training of maintenance staff for installation and maintenance of stormwater practices.

B. Proposed Budget. The proposed project budget is \$135,358. The applicants are requesting \$50,000 from Shingle Creek WMC as well as \$55,000 from Hennepin County. The property owner will contribute \$30,358. A review of the construction cost estimate items has been conducted. The total cost of the project seems appropriate for the scope and scale of the project; however, the costs associated with Raingardens 1 and 2 are on the low side of industry standards. The low costs may be attributed to project partner in-kind services and installation assistance through volunteer labor.

C. Impairment Reduction. Shingle Creek is impaired for chloride. The application states the proposed project addresses the chloride impairment through runoff volume reduction, the use of permeable pavement in the most heavily foot-trafficked area on site, and maintenance training for the proper application of road salt. The application also states that the proposed stormwater BMPs capture 14.7 lbs. of Total Phosphorus, 4,418 lbs. of solids and 2,667,374 gallons of runoff water annually as modeled in WinSLAMM. The cost per pound phosphorus removal is \$9,208 based on construction costs. This is slightly under the \$10,000 seen as typical for rain gardens.

Currently there are no BMPs on site. The proposed BMPs will provide good treatment. However, as proposed they are not sized adequately to treat to the full watershed goal of a 90% annual volume reduction. The applicant is encouraged to revisit sizing of the BMPs in footprint and depth to maximize treatment potential.



D. Recommendation. Staff recommends funding the partnership cost-share program for the Autumn Ridge Participatory Landscape Project in the requested amount of \$50,000, subject to the relevant Commission Partnership Cost-Share Guidelines including but not limited to:

1. Cost-share is on a reimbursable basis following completion of the project.
2. The property owner must dedicate a public easement or equivalent to install and maintain the BMPs.

Motion by Lestina, second by Scharenbroich to approve Staff's recommendations, with a further recommendation:

3. A maintenance agreement from the property owner with appropriate easements or similar protections be recorded that would ensure that a) the BMPs are properly maintained; b) the BMPs must remain in place until the site is improved or redeveloped and other BMPs are put in place; and c) authorizes the City to enter upon the land to ensure the BMPs continue to function properly, and to undertake maintenance at the land owner's cost if they are not properly maintained.

and that these recommendations be forwarded to the Commission for final approval. *Motion carried unanimously.*

IV. Twin Lake Carp Project.

Matthiesen gave a brief overview of the project following the carp removal including the removal totals, aeration strategies and possible locations for fish barriers.

V. Twin Lake Aquatic Vegetation Management Policy.

A. Staff's January 30, 2018 memo* outlines the goals, objectives and timeframe for vegetation management on the Twin Lake chain of lakes following the winter carp removal. The outline assumes common carp densities have been reduced below critical thresholds and a significant change in water quality occurs in the summer of 2018, stimulating an abundance of vegetation growth within the Twin Lakes, especially in Upper Twin Lake.

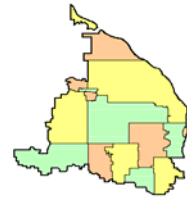
With the anticipated results of improved water clarity resulting from fish management in the Twin Lake system a significant enhancement of the submerged aquatic vegetation (SAV) community and overall biological community health (measured via Indices of Biotic Integrity; IBI) is expected, specifically

1. the number of species will increase
2. the spatial coverage of vegetation will increase
3. the biomass of vegetation will increase
4. IBI scores will improve.

These ecological responses to improved water quality are perceived as beneficial to the overall ecosystem health, therefore, the intention of the AVMP is not to prevent these items from occurring but rather facilitate them. Vegetation management activities are intended to target and limit a significant rebound in vegetative AIS within the lake and restore a diverse and healthy native SAV community. Rather than waiting to see if the native community can outcompete and displace AIS it is the intent to actively choose to be proactive and help ensure the AIS do not gain the upper hand in becoming pervasive within the basin. Currently, curlyleaf pondweed (CLP) is the only dominant vegetative AIS species in Twin Lake system (most notably in the Upper Twin basin) and is the focus species of management activities within the AVMP.

B. The objectives and success of activities of the AVMP will be addressed through:

1. Evaluating the SAV community pre-improvement project.



2. Delineating current locations of AIS.
3. Implementing activities that reduce, eradicate or control current population of AIS.
4. Assessing the effectiveness of implemented activities.
5. Evaluating the SAV community post-improvement project.

The memo concluded with proposed specific tasks and target completion dates.

D. Also included in the packet was a **draft Submersed Aquatic Vegetation Management Policy.*** This policy specifies that the Commission will participate in SAV management needed as part of an internal load reduction project, but only to control AIS such as curlyleaf pondweed and Eurasian water milfoil. Individual lakeshore property owners may undertake SAV management at their own expense for recreation and access.

E. Members queried whether a variance from the DNR would be required to implement some of the proposed activities. There is no current source of funding for the implementation activities. Would the Commission consider increasing the member assessment Cap to fund vegetation management projects?

F. Staff will bring this discussion to the neighboring watershed organizations with a possible goal of creating a policy that is northwest metro-wide in scope.

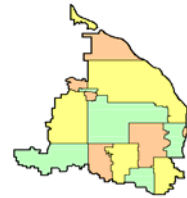
VI. Dissolved Phosphorus 319 Grant.

Upon approval by the Commission a CWA 319 grant application will be submitted by the March 2, 2018 deadline to install filter media at the outlet of wetland 639W just upstream of Upper Twin Lake in Crystal and at the outlet of Cherokee wetland, on Bass Creek at Cherokee Drive in Brooklyn Park. That site is just upstream of Bass Creek Park and the Bass Creek Park monitoring station. Both these wetlands export high concentrations of soluble reactive phosphorus. The filters would test various combinations of iron-enhanced sand, zeolite-enhanced sand, and a product called Phoslock mixed with sand. The outflow from each of these filters would be monitored to see which filter medium performs the best under field conditions. On conclusion of the testing phase, the lesser-performing media would be removed and replaced with the best-performing medium considering life-cycle costs. In addition to the outlet filters, the pool at the overflow outlet on wetland 639W would be aerated with a small pond aerator to improve soluble phosphorus capture in the media. The aerator would be installed with a float switch so it turns on only when the elevation of water in the pond rises high enough to overflow the weir.

VII. Watershed-Based funding Pilot.*

BWSR is in the process of transitioning Clean Water Funds from a statewide competitive model to a geographically-focused model. As consortia of watersheds, counties, and other groups prepare their One Water One Plan (1W1P) plans, BWSR will provide each with a pot of money so the groups can immediately start implementing high-priority projects and programs. Over time the amount of funds available for the annual competitive grants will be significantly reduced and reallocated to this new strategy. The Metro area is not part of the 1W1P program at BWSR because planning for Metro watersheds is governed under a different statute and rule. However, BWSR recognizes that Metro WMOs have undergone significant planning and prioritization efforts in developing their management plans, and has been weighing how to make 1W1P implementation funding available to Metro WMOs.

After holding a number of listening sessions, the BWSR Board developed the Watershed-Based Funding Pilot Program. The organizing unit in planning for this Pilot Program is the county. Each of the counties in the Metro will be allocated a share of the \$5.59 million available for the Metro. Hennepin County's share is \$1.018 million. In each county, eligible entities must identify a Convener, and the Conveners will work with the eligible



local governments to develop a “Collaborative PTM Implementation Plan” by June 30, 2018. (PTM is the latest acronym and stands for Prioritize, Target, and Measure.) This Plan must describe the process used to select projects and programs, how success will be evaluated, *and lay out the specific projects and programs recommended for funding*. An option offered by BWSR is that rather than develop a PTM Implementation plan, counties may opt into a Metro Competitive Grant program implemented by BWSR.

On January 23, 2018 Spector attended a “pre-meeting” convened by Hennepin County to take the pulse of the 11 WMOs in the county. Representatives from all 11 WMOs plus BWSR staff and Karen Galles (HCEE) discussed possible directions. It was the consensus that the group would prefer that the funds set aside for Hennepin County should stay in Hennepin County instead of in a Metro Competitive Grant program and that there was also an interest in aligning the funding to the three basins in the county – the area to the west draining to the Crow River, the area to the south draining to the Minnesota River, and the area draining to the Mississippi River. Complicating the issue is that the BWSR Board policy states that the local governments eligible to receive these funds are WMOs, cities, counties, and SWCDs with approved and adopted management plans. Hennepin County as both the county and SWCD is not eligible because the county groundwater plan was never adopted by the County Board, leaving cities and WMOs as the only eligible applicants.

The Pilot Project policy requires that eligible local governments within the county be part of the PTM Implementation Plan planning. If that is the case, then not only would the 11 WMOs be part of the planning process, but also the 45 cities in the county, a committee of 56. The 11 WMOs asked BWSR staff to determine if cities can delegate their planning responsibilities (and their grant eligibility) to the WMO(s) in their city, and if that can be done administratively through a letter or if a resolution from the City Council would be required. This question must be resolved before the local governments in Hennepin County convene formally to do the PTM Plan. It was the consensus of the group that if that must be done by resolution, or if some cities do not agree to delegate their eligibility, it will not be possible to complete the Plan before June 30 and for the first year the group would default to a competitive grant process. The informal planning group will meet again in a month.

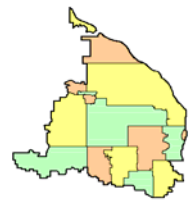
The members discussed whether the member cities would be willing to delegate eligibility and planning authority to the WMOs. No formal action was recommended at this time.

VIII. CIP and Cost-Share Schedule.*

A. Staff’s January 26, 2018 memo shows the current Shingle Creek and West Mississippi CIPs. The Commissions may reschedule projects from year to year or remove projects from the CIP with no need for a plan amendment, but a minor plan amendment will be needed to add projects, modify the estimated cost and Commission contribution by more than $\pm 25\%$, or add specificity to a project. At this time, the Shingle Creek Commission expects to undertake a minor plan amendment to add the proposed dissolved phosphorus 319 grant project to the CIP and to specify that the 2018 lake internal load project will be alum treatments on Bass and Pomerleau Lakes.

B. Staff reviewed potential projects to consider for the CIP, some of which might fall under one of the generic projects already on the CIP. (No potential projects were identified in West Mississippi.) These include:

1. Bass Creek Restoration in Bass Creek Park (Brooklyn Park)
2. Shingle Creek Stabilization, Northland Wetland to Bottineau Blvd (Brooklyn Park)
3. Brookdale Park Offline Ponds Habitat Enhancement (Brooklyn Center)
4. Palmer Lake Outlet Stabilization (Brooklyn Center)
5. Pike Lake Internal Load Project (Plymouth/Maple Grove)



6. Meadow Lake Drawdown (New Hope)
7. Mattson Brook Stabilization, 85th to West River Road (Brooklyn Park)

If cities have projects to add to the CIP they should be submitted for consideration as soon in advance of the next TAC meeting (March 1). The application can be found at: shinglecreek.org/member-city-resources.html.

IX. Other Business.

A. SCWM FEMA Update.

Matthiesen gave a verbal report on the on-going discussion with the Minnesota Department of Natural Resources regarding the Federal Emergency Management Administrations grant to update the floodplain and floodway model. Wenck estimates the cost to update the hydrology and hydraulic models is \$75,000. Rita Weaver at the DNR said \$50,000 is available to Shingle Creek. Diane Spector said the Commission should be able to find \$25,000 by reallocating funds in the special studies account to cover the difference of the two-year period of the FEMA grant. The DNR is looking into additional funds for surveying or DNR staff availability.

B. The next meeting of the Technical Advisory Committee is scheduled for March 1, 2018, at 8:30 a.m. at Crystal City Hall.

C. The meeting was adjourned at 10:23 a.m.

Respectfully submitted,

A handwritten signature in black ink, reading "Judie A. Anderson".

Judie A. Anderson
Recording Secretary

Z:\Shingle Creek\TAC\2018 TAC\02-01-2018 minutes.docx

Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO TAC

From: Ed Matthiesen, P.E.
Diane Spector

Date: March 23, 2018

Subject: Minor Plan Amendment and CIP

Recommended Commission Action

Propose any CIP revisions. Recommend the Commission proceed with the Minor Plan Amendment as proposed or as revised.

It is time to begin the CIP process for 2018. The current CIPs for Shingle Creek and West Mississippi are shown below in Tables 2 and 3. To date the only CIP action proposed by a member city that would require a Minor Plan Amendment (MPA) is the substitution of the Bass and Pomerleau Lakes Alum Treatment Project for the generic Lake Internal Load project in 2018. The TAC and Commission can make other revisions to the CIP such as moving projects to different years without need for an MPA.

Table 1 shows the proposed CIP and MPA process for this year. It is the typical process with one difference. Instead of holding the public hearing on 2018 projects and certification of levies in September, we propose to hold the hearing in July. This will allow the Commission to order and bid the project so that a contract can be awarded in September for October alum application.

Attached is the proposed Notice of Minor Plan Amendment. If any member city has any other CIP revision that would require an MPA, this is the time to propose that revision, and the Notice can be modified accordingly. Otherwise, we recommend that the cities with projects on the 2018 CIP review them and notify us whether you intend to proceed or whether they should be rescheduled.

Table 1. Proposed Minor Plan Amendment and CIP schedule.

MPA: Minor Plan Amendment; CIP: Capital Improvement Program; BLIA: Bass Lake Improvement Association; HC: Hennepin County; BAR: Board Action Request; EQC: Environmental Quality Commission; CC: City Council; HLW: Hypolimnetic Withdrawal; SAV: Submersed Aquatic Vegetation

Action	Date (2018)
TAC meeting – discuss MPA and revisions to CIP	March 29
SC meeting – discuss MPA, call for public meeting	April 12
BLIA general meeting	April 23
SC meeting – MPA public meeting, establish max levies	May 10
Submit info for HC BAR on MPA and max levies	May 11
HC – action on MPA and max levies	June 19/26
Plymouth EQC & CC – discuss, discontinue HLW project, OK alum projects	May – June
SC meeting – adopt MPA, public hearing on 2018 projects, certify 2019 levies, approve plans and specs and authorize ad for bid	July 12

Action	Date (2018)
Bidding	August
SC meeting - award contract	September 13
Alum application	Octoberish
SAV treatment permitting	Winter 2019
SAV treatment	Spring 2019

Table 2. Current Shingle Creek WMC CIP with proposed Minor Plan Amendment.

CAPITAL IMPROVEMENT PROGRAM	2018	2019	2020	2021	2022
Cost Share Program	200,000	200,000	200,000	200,000	200,000
Commission Contribution	100,000	100,000	100,000	100,000	100,000
Local Contribution	100,000	100,000	100,000	100,000	100,000
Partnership Cost-Share BMP Projects	100,000	100,000	100,000	100,000	100,000
Commission Contribution	50,000	50,000	50,000	50,000	50,000
Local Contribution	50,000	50,000	50,000	50,000	50,000
Lake Internal Load Improvement Project	200,000		200,000		200,000
Commission Contribution	200,000		200,000		200,000
Local Contribution					
<u>Bass and Pomerleau Lakes Alum Treatment Project</u>	<u>390,000</u>				
<u>-Commission Contribution*</u>	<u>390,000</u>				
<u>-Local Contribution</u>					
Shingle Creek or Bass Creek Restoration Project	500,000	500,000			
Commission Contribution	125,000	125,000			
Local Contribution	375,000	375,000			
Becker Park Infiltration Project	2,500,000				
Commission Contribution	250,000				
Local Contribution	2,250,000				
Maple Grove Pond P57		648,000			
Commission Contribution		162,000			
Local Contribution		486,000			
Maple Grove Pond P33		574,000			
Commission Contribution		143,500			
Local Contribution		430,500			
Shingle Creek Brookdale Park Habitat Enhancement		150,000			
Commission Contribution		37,500			
Local Contribution		112,500			
Minneapolis Webber Park Stream Restoration		500,000			
Commission Contribution		125,000			
Local Contribution		375,000			
Minneapolis Flood Area 5 Water Quality Projects		6,000,000			
Commission Contribution		250,000			
Local Contribution		5,750,000			
Maple Grove Pond P55			855,000		
Commission Contribution			213,800		
Local Contribution			641,200		
Shingle Creek Restoration, Regent to Brooklyn Blvd			400,000		
Commission Contribution			100,000		

CAPITAL IMPROVEMENT PROGRAM	2018	2019	2020	2021	2022
Local Contribution			300,000		
Palmer Creek Estates Bass Creek Restoration				450,000	
Commission Contribution				112,500	
Local Contribution				337,500	
TOTAL PROJECT COST	3,690,000	8,672,000	900,000	750,000	500,000
TOTAL COMMISSION SHARE	915,000	993,000	663,800	262,500	350,000
TOTAL CITY SHARE	2,775,000	7,679,000	450,000	487,500	150,000

*Commission contribution would be a combination of grant funds and levy certified in a previous year (no new levy)

Table 3. Current West Mississippi WMC CIP.

CAPITAL IMPROVEMENT PROGRAM	2018	2019	2020	2021	2022
Cost Share Program	100,000	100,000	100,000	100,000	100,000
Commission Contribution	50,000	50,000	50,000	50,000	50,000
Local Contribution	50,000	50,000	50,000	50,000	50,000
Mississippi Crossings Phase B Infiltration Vault	200,000				
Commission Contribution	50,000				
Local Contribution	150,000				
Champlin Woods Trail Rain Gardens		180,000			
Commission Contribution		45,000			
Local Contribution		135,000			
Wetland Restoration Project		250,000			
Commission Contribution		62,500			
Local Contribution		187,500			
TOTAL PROJECT COST	300,000	530,000	100,000	100,000	100,000
TOTAL COMMISSION SHARE	100,000	157,500	50,000	50,000	50,000
TOTAL CITY SHARE	200,000	372,500	50,000	50,000	50,000

Notice of Minor Plan Amendment
Shingle Creek and West Mississippi Watershed Management Commissions

The Shingle Creek and West Mississippi Watershed Management Commissions propose to amend their joint *Third Generation Watershed Management Plan* to adopt a revision to the Capital Improvement Program (CIP). This revision specifies the location of one project on the Shingle Creek CIP.

The proposed minor plan revision is shown as additions (underlined) or deletions (~~strike-outs~~) to Table 4.5, Shingle Creek WMC Third Generation Plan Implementation Plan, and Table 4.6, West Mississippi WMC Third Generation Plan Implementation Plan, and Appendix F, CIP Descriptions, of the Management Plan.

Table 4.5, Shingle Creek WMC Third Generation Plan Implementation Plan is hereby revised as follows:

Action	2018	2019	2020	2021	2022
Lake Internal Load Improvement Project	200,000		200,000		200,000
-Commission Contribution	200,000		200,000		200,000
-Local Contribution					
Bass and Pomerleau Lakes Alum Treatment Project	<u>390,000</u>				
-Commission Contribution	<u>390,000</u>				
-Local Contribution					

Appendix F, CIP Descriptions is hereby revised as follows:

Lake Internal Load Improvement Projects

The 13 lake TMDLs now in implementation in the Shingle Creek watershed recommend internal load improvements for several of the lakes. These projects could include rough fish removal and installation of fish barriers, chemical treatment such as alum, drawdowns, whole-lake aquatic vegetation treatment, etc. Typically implementation emphasizes reducing the load from external sources before completing internal load reductions. Some lakes not shown here may require internal load reductions if external load reduction is insufficient to meet state water quality goals. Potential lakes to be improved include the following (not in priority order):

1. Twin Lake. (Crystal, Brooklyn Center, Robbinsdale). 2015 Project: Rough fish tracking and removal, fish barriers, and aeration system; Future Project: aquatic vegetation treatment.
2. Pomerleau (Plymouth). 2018 Project: Chemical treatment.
3. Cedar Island (Maple Grove). Rough fish removal, fish barriers, drawdown.
4. Eagle Lake (Maple Grove.) Aquatic vegetation treatment.
5. Bass Lake (Plymouth). 2018 Project: Chemical treatment, aquatic vegetation management

Technical Memo



Item 04

Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO TAC

From: Ed Matthiesen, P.E.
Diane Spector

Date: March 23, 2018

Subject: Rules Check In

Recommended TAC Action

Discuss.

The Third Generation plan states that the Commission will periodically review and update as necessary the development/redevelopment rules and standards and practices. We don't have anything specific to recommend at this time, but it is good to check in.

1. Are there any potential revisions that we should be looking into?
2. How has the process been going for City review of projects under five acres?

In addition, we suggest that the Commission look into updating the review fees, which have not been updated since 2014 (attached). Bassett Creek just updated its review fee structure (attached) and it may be useful to consider that.

As a note, the unaudited year end fee revenues and expenses are shown below. The project review expenses include more tasks than just the actual project reviews, and there are some expenses relating to project reviews that never generate a review fee (inquiries, assistance to cities). However, based on the magnitude of difference an assessment of the adequacy of the fees in capturing review expenses is in order.

Table 1. Unaudited 2017 year end project review fees and project review-related expenses.*

Watershed	Review Fees	Project Review Expenses**
Shingle Creek	\$19,700	\$44,958
West Mississippi	\$18,800	\$34,472

*Excludes Blue Line expenses.

**Both Engineering and Administrative expense

Z:\Shingle Creek\Project Reviews\Project Review Fees\M-rules check in.docx

FEE SCHEDULE

*This fee schedule is adopted in accordance with Rule J of the Rules and Standards of the Shingle Creek and West Mississippi Watershed Management Commissions' joint Third Generation Watershed Management Plan.
It is effective October 1, 2014.*

Please make your check payable to the watershed management commission in whose watershed your project is located when paying your application fees.

Project Fees

Single Family Lot	\$300
Single Family Residential Development, density less than 3 units per acre	
Total Site <15 acres	\$1,500
Total Site 15-29.99 acres	\$1,800
Total Site ≥30 acres	\$2,500
All Other Development	
Total Site <5 acres	\$1,700
Total Site 5-9.99 acres	\$2,200
Total Site 10-19.99 acres	\$2,200
Total Site ≥20 acres	\$3,000
Variance Escrow	\$2,000
Street/Highway/Utility Project	\$1,100

Note: Total site area includes wetland, buffer, right of way and other nondeveloped areas.

Wetland Fees

Wetland Delineation Review	\$300
Wetland Replacement Plan Escrow	\$1,500
Monitoring and Reporting Deposit	\$1,500
Wetland Replacement Deposit	Varies

Fee Schedule (Effective October 1, 2017)

Item 04b

Bassett Creek Watershed Management Commission Project Reviews

Project Review Fees (check appropriate boxes) ^{1, 7}		
<input checked="" type="checkbox"/> Base Fees		
<input type="checkbox"/>	Single Family Lot (No add-on fees required) ⁷	\$500
<input type="checkbox"/>	Projects Requiring Only Erosion and Sediment Control Review ⁷	\$1,500
<input type="checkbox"/>	Municipal Projects ² (No add-on fees required) ⁷	\$1,500
<input type="checkbox"/>	All Other Projects	\$1,500
<input checked="" type="checkbox"/> Add-On Fees³		
<input type="checkbox"/>	1. Projects requiring Rate Control or Treatment to MIDS Performance Goal	\$1,000
	2. Projects involving work within or below the 100-year floodplain (Table 2-9, Watershed Management Plan) - select highest of following add-on fees (a or b)	
<input type="checkbox"/>	a. Work involving filling and compensating storage within or below the 100-year floodplain (identified in Table 2-9)	\$1,000
<input type="checkbox"/>	b. Work along the Bassett Creek trunk system or inundation areas involving review of, or modifying the XP-SWMM model.	\$2,000
<input type="checkbox"/>	3. Work involving creek crossings (bridges, culverts, etc.)	\$1,000
<input type="checkbox"/>	4. Projects involving review of alternative BMPs ⁴	\$1,000
<input type="checkbox"/>	5. Project involving variance request	\$1,000
<input checked="" type="checkbox"/> Wetland Fees⁵		
<input type="checkbox"/>	Wetland delineation review	Varies
<input type="checkbox"/>	Wetland replacement plan review	Varies
<input type="checkbox"/>	Monitoring and reporting	Varies
<input type="checkbox"/>	Wetland replacement escrow	Varies
Total Project Review Fees ^{6, 7}		\$_____
<p>1 State agencies are exempt from review fees. Other public agencies are required to pay review fees and add-on fees.</p> <p>2 Including Minneapolis Park & Recreation Board projects</p> <p>3 Required in addition to base fee (except for single family lots and municipal projects).</p> <p>4 BMPs not included in <i>Minnesota Stormwater Manual</i>.</p> <p>5 Wetland fees will be billed at actual cost for projects where BCWMC acts as the LGU for the Wetland Conservation Act or when a member city requests assistance from the BCWMC for wetland-related review tasks (BCWMC is the LGU for the cities of Medicine Lake, Robbinsdale and St. Louis Park).</p> <p>6 Include check for total project review fees or other fees with application form. Check should be payable to Bassett Creek Watershed Management Commission.</p> <p>7 If the actual cost to conduct a review reaches \$5,000, the applicant shall be required to reimburse the Commission for all costs it incurs in excess of \$5,000, in addition to base and add on fees. The Commission shall bill the applicant for the additional costs. If an applicant fails to fully reimburse the Commission for the additional costs, any future requests for a review from the applicant shall be deemed incomplete, and the Commission will not conduct a review, until all outstanding amounts have been paid.</p>		

Technical Memo



Item 05-1

Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi TAC

From: Ed Matthiesen, P.E.
Diane Spector

Date: March 23, 2018

Subject: Subwatershed Assessment Request

Recommended Commission Action

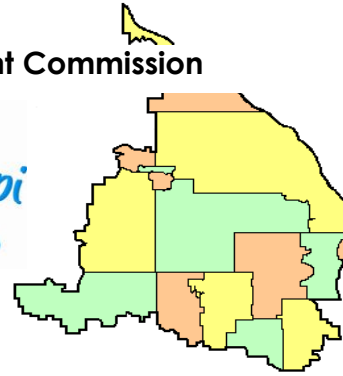
Recommend to the Shingle Creek Commission that the request by Maple Grove to complete a subwatershed assessment in the Pike Lake tributary area be approved.

The City of Maple Grove has requested that a subwatershed assessment be completed in that part of Maple Grove that is tributary to Pike Lake (attached). The Commission had previously completed an assessment for that part that is in the City of Plymouth. This would identify potential BMPs to reduce nutrient loading to Pike Lake.

The Commission budgets \$20,000 annually for this. Maple Grove would like to use its own consultant, WSB, to complete this work. This would require the Commission to enter into a cooperative agreement with Maple Grove wherein the Commission agrees to reimburse the city to a maximum of \$20,000.



3235 Fernbrook Lane N • Plymouth, MN 55447
 Tel: 763.553.1144 • Fax: 763.553.9326
 Email: judie@jass.biz • Website: www.shinglecreek.org



Shingle Creek and West Mississippi Watershed Management Commissions Request to Perform a Subwatershed Assessment

Subwatershed Assessments are detailed studies of a small area, typically (but not limited to) less than 500 acres in size. This assessment includes delineation and modeling of smaller catchment areas, and review of each catchment area to determine the optimal type and placement of one or more load and volume reduction BMPs. Use this form to submit requests for Subwatershed Assessment.




Please attach a figure showing the requested area to be assessed. Please note that this boundary may be modified based on subwatershed delineation.

Date:	February 1, 2018
City:	Maple Grove
Contact Name:	Rick Lestina
Telephone:	(763) 494-6354
Email:	rlestina@maplegrovern.gov
Project Area Name:	Pike Lake
Year Requested:	2018
Reason for Request:	<p>The assessment will help indicate present status of water quality within the northern Pike Lake Watershed within the City of Maple Grove. This assessment will help identify how to best meet the required TMDL reduction and other water quality goals with new BMPs and/or BMP retrofits.</p> <p>Maple Grove, Plymouth, MnDOT & Hennepin County are required to reduce the stormwater loading to Pike Lake by 164.91 lbs/year to achieve the TMDL standards. The City of Plymouth has already completed a subwatershed assessment for the western side of Pike Lake.</p>



Pike Lake Subwatershed Assessment

Maple Grove, MN

-  Public Storm Sewer
-  City Boundary
-  Pike Lake Subwatersheds

