



Bassett Creek Watershed Management Commission

Regular Meeting
Thursday, July 18, 2019
8:30 – 11:00 a.m.

Council Conference Room, Golden Valley City Hall, Golden Valley, MN

AGENDA

1. CALL TO ORDER and ROLL CALL

2. CITIZEN FORUM ON NON-AGENDA ITEMS - *Citizens may address the Commission about any item not contained on the regular agenda. A maximum of 15 minutes is allowed for the Forum. If the full 15 minutes are not needed for the Forum, the Commission will continue with the agenda. The Commission will take no official action on items discussed at the Forum, with the exception of referral to staff or a Commissions Committee for a recommendation to be brought back to the Commission for discussion/action.*

3. APPROVAL OF AGENDA

4. CONSENT AGENDA

- A. Approval of Minutes – June 20, 2019 Commission Meeting
- B. Acceptance of July 2019 Financial Report
- C. Approval of Payment of Invoices
 - i. Keystone Waters, LLC – June 2019 Administrative Services
 - ii. Keystone Waters, LLC – June 2019 Expenses
 - iii. Barr Engineering – June 2019 Engineering Services
 - iv. Triple D Espresso – July 2019 Meeting Refreshments
 - v. Wenck – June 2019 WOMP Monitoring
 - vi. Lawn Chair Gardener – June 2019 Administrative and Educational Services
 - vii. Kennedy & Graven – May 2019 Legal Services
 - viii. Shingle Creek WMO – WMWA Rain Garden Workshops
 - ix. Wenck – Bassett Creek Valley Study
 - x. HDR – Website Services
- D. Set Public Hearing on 2020 Capital Improvement Projects for September 19, 2019

5. BUSINESS

- A. Consider Proposal to Prepare Feasibility Study for Project to Dredge Accumulated Sediment in the Main Stem of Bassett Creek in Wirth Park (2021 CIP Project BC-7) (30 min)
- B. Consider Recommendations from Technical Advisory Committee (30 min)
- C. Discuss Request for Resolutions from Minnesota Association of Watershed Districts (20 min)

6. COMMUNICATIONS (10 minutes)

- A. Administrator's Report
 - i. Report on Outcomes of 50th Anniversary Event
 - ii. AIS Early Detection Training July 23
 - iii. Smart Salting for Property Managers September 24
- B. Chair
- C. Commissioners
- D. TAC Members

- E. Committees
- F. Legal Counsel
- G. Engineer

7. INFORMATION ONLY (Information online only)

- A. Administrative Calendar
- B. CIP Project Updates <http://www.bassettcreekwmo.org/projects>
- C. Grant Tracking Summary and Spreadsheet
- D. Clean Water Fund Grant Requests for Proposals
- E. WCA Notice of Application, Plymouth
- F. WCA Notice of Decision, Plymouth

8. ADJOURNMENT

Upcoming Meetings & Events

- AIS Early Detection Training: Tuesday July 23rd, 6:00 - 8:00 p.m., Plymouth Room @ Plymouth Library
- Bassett Creek Watershed Management Commission Meeting: Thursday August 23rd, 8:30 a.m., Golden Valley City Hall
- Golden Valley Arts and Music Festival: Saturday, September 14th, 9:00 a.m. – 3:00 p.m., Golden Valley City Hall
- Smart Salting for Property Managers: Thursday September 24th, 9:00 a.m. – 1:00 p.m., Crystal Community Center



Bassett Creek Watershed Management Commission

AGENDA MEMO

Date: July 11, 2019

To: BCWMC Commissioners

From: Laura Jester, Administrator

RE: Background Information for 7/18/19 BCWMC Meeting

1. **CALL TO ORDER and ROLL CALL**
2. **CITIZEN FORUM ON NON-AGENDA ITEMS**
3. **APPROVAL OF AGENDA – ACTION ITEM with attachment**
4. **CONSENT AGENDA**
 - A. Approval of Minutes – June 20, 2019 Commission Meeting- ACTION ITEM with attachment
 - B. Acceptance of July Financial Report - ACTION ITEM with attachment (more details online)
 - C. Approval of Payment of Invoices - ACTION ITEM with attachments (online) – I reviewed the following invoices and recommend approval of payment.
 - i. Keystone Waters, LLC – June 2019 Administrative Services
 - ii. Keystone Waters, LLC – June 2019 Expenses
 - iii. Barr Engineering – June 2019 Engineering Services
 - iv. Triple D Espresso – July 2019 Meeting Refreshments
 - v. Wenck – June 2019 WOMP Monitoring
 - vi. Lawn Chair Gardener – June 2019 Administrative and Educational Services
 - vii. Kennedy & Graven – May 2019 Legal Services
 - viii. Shingle Creek WMO – WMWA Rain Garden Workshops
 - ix. Wenck – Bassett Creek Valley Study
 - x. HDR – Website Services
 - D. Set Public Hearing on 2020 Capital Improvement Projects for September 19, 2019 – ACTION ITEM no attachment- *After the maximum levy is approved by the County in July, the Commission should hold a public hearing on the [2020 capital projects](#). Depending on the outcome of the public hearing, the September meeting will also include a resolution officially ordering the projects, setting a final levy amount, and entering agreements with the cities to design and construct the projects.*
5. **BUSINESS**
 - A. Consider Proposal to Prepare Feasibility Study for Project to Dredge Accumulated Sediment in the Main Stem of Bassett Creek in Wirth Park (2021 CIP Project BC-7) (30 min) – ACTION ITEM with attachment – At the April 2019 meeting, the Commission approved the [5-year CIP](#) including three projects scheduled to start in 2021: a project to dredge accumulated sediment in the Main Stem Bassett Creek in Wirth Park, the Parkers Lake Drainage Improvement Project, and the Mt. Olivet Stream Restoration Project. Feasibility studies for these projects will be completed by the Commission Engineer and should begin this fall. The Commission should consider the attached proposal for completing the feasibility study for one of these projects. Proposals for the other two projects will be presented at the August meeting. Costs for feasibility studies come from the levy funds collected for CIP projects.
 - B. Consider Recommendations from Technical Advisory Committee (30 min) – ACTION ITEM with attachment – At their April 2019 meeting, the Commission directed the TAC to provide direction on the review and acceptance of proprietary stormwater manufactured treatment devices (MTDs) proposed for use in development/redevelopment projects in the watershed. The TAC met on May 29th and July 8th on this topic. Last month, the BCWMC approved an initial TAC recommendation regarding MTDs. At this meeting, the TAC recommends further actions related to the review of MTDs in project proposals. Staff recommends

approval of the TAC recommendations.

- C. Discuss Request for Resolutions from Minnesota Association of Watershed Districts (20 min) – ACTION ITEM with attachment – *As a member of the MAWD, the BCWMC can submit their policy recommendations through MAWD’s resolutions process. Proposed resolutions are due to MAWD by September 1st. The Commission should consider if there are legislative or policy initiatives to recommend to MAWD through this resolution process. The complete timeline and process is included in the attached memo.*

6. COMMUNICATIONS (10 minutes)

- A. Administrator’s Report – **INFORMATION ITEM with attachments**
- i. Report on Outcomes of 50th Anniversary Event
 - ii. AIS Early Detection Training July 23
 - iii. Smart Salting for Property Managers September 24
- B. Chair
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- D. TAC Members
- E. Committees
- F. Legal Counsel
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Bassett Creek Watershed Management Commission

DRAFT Minutes of Regular Meeting
Thursday, June 20, 2019
8:30 a.m.
Golden Valley City Hall, Golden Valley MN

1. CALL TO ORDER and ROLL CALL

On Thursday, June 20, 2019 at 8:31 a.m. in the Council Conference Room at Golden Valley City Hall (7800 Golden Valley Rd.), Chair Prom called the meeting of the Bassett Creek Watershed Management Commission (BCWMC) to order.

Commissioners and city staff present:

City	Commissioner	Alternate Commissioner	Technical Advisory Committee Members (City Staff)
Crystal	Dave Anderson	<i>Vacant Position</i>	Mark Ray
Golden Valley	Stacy Harwell	Jane McDonald Black*	Eric Eckman
Medicine Lake	Clint Carlson	Gary Holter	<i>Absent</i>
Minneapolis	Michael Welch	<i>Vacant Position</i>	<i>Absent</i>
Minnetonka	Mike Fruen	<i>Absent</i>	Sarah Schweiger
New Hope	<i>Absent</i>	Pat Crough	Megan Hedstrom
Plymouth	Jim Prom	Catherine Cesnik	Chris LaBounty
Robbinsdale	<i>Absent</i>	<i>Absent</i>	Marta Roser, Richard McCoy
St. Louis Park	Jim de Lambert	<i>Absent</i>	Erick Francis
Administrator	Laura Jester, Keystone Waters		
Engineer	Karen Chandler, Barr Engineering		
Recorder	None		
Legal Counsel	David Anderson, Kennedy & Graven		
Presenters/ Guests/Public	Bill Emory, Hennepin County*		

*Denotes partial attendance

2. CITIZEN FORUM ON NON-AGENDA ITEMS

No citizens present.

3. APPROVAL OF AGENDA

MOTION: Commissioner Welch moved to approve the agenda. Commissioner Fruen seconded the motion. Upon a vote, the motion carried 8-0 [City of Robbinsdale was absent from the vote].

4. CONSENT AGENDA

Administrator Jester noted the revised June financial statement distributed at the meeting. She indicated that two invoices were added and one invoice was revised.

The following items were approved as part of the consent agenda: May 16, 2019 Commission meeting minutes, acceptance of the revised June 2019 financial report, payment of invoices, approval of Theodore Wirth Golf Course Cart Path Project, Golden Valley.

The general and construction account balances reported in the revised June 2019 Financial Report are as follows:

Checking Account Balance	\$ 703,453.27
<hr/>	
TOTAL GENERAL FUND BALANCE	\$ 703,453.27
<hr/>	
TOTAL CASH & INVESTMENTS ON-HAND (06/12/19)	\$ 3,564,717.11
<hr/>	
CIP Projects Levied – Budget Remaining	\$ (4,636,650.52)
<hr/>	
Closed Projects Remaining Balance	\$364,066.19
<hr/>	
2012-2017 Anticipated Tax Levy Revenue	\$7,045.36
<hr/>	
2018 Anticipated Tax Levy Revenue	\$10,316.57
<hr/>	
Anticipated Closed Project Balance	\$381,428.12
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MOTION: Commissioner Carlson moved to approve the consent agenda. Commissioner Welch seconded the motion. Upon a vote, the motion carried 8-0 [City of Robbinsdale was absent from the vote].

5. BUSINESS

A. Consider Resolution of Appreciation for Commissioner Scanlan

Administrator Jester explained that Commissioner Scanlan recently stepped down from the Commission citing health concerns. She added that she greatly appreciated his participation on Commission committees and during meetings and noted that he regularly took advantage of training opportunities to continually learn more. Various commissioners added their praise for Commissioner Scanlan’s involvement and work.

MOTION: Commissioner Anderson moved to approve the resolution of appreciation for Commissioner Scanlan; Commissioner Welch seconded the motion. Upon a vote, the motion carried 8-0 [City of Robbinsdale was absent from the vote].

B. Elect New Commission Secretary

Due to Commissioner Scanlan's resignation, the Commission is in need of a new secretary. Administrator Jester gave a brief overview of the position noting it mostly involves providing signatures on official contracts and business.

ELECTION: Commissioner Welch nominated Commissioner de Lambert as Commission Secretary. Upon a vote, the Commission elected Commissioner de Lambert on a vote of 8-0 [City of Robbinsdale was absent from the vote].

The following meeting items were taken out of order to allow time for Alt. Commissioner McDonald Black to arrive

D. Consider Technical Advisory Committee Recommendations

TAC chair, Mark Ray, gave a brief overview noting that the TAC met on May 29th to discuss how the Commission should review proprietary stormwater manufactured treatment devices (MTDs) proposed to be used in development or redevelopment projects. He noted that they have another meeting planned on July 8th to further discuss the issue, but the TAC has one recommendation at this time. Mr. Ray indicated that ideally, the MPCA would test MTDs and include them in the Minnesota Stormwater Manual. He noted the Commission should advocate for this but that it's the long-term vision as it would take considerable time. He relayed the TAC recommendation that the Commission cooperate with other watersheds in sending a letter to the MPCA, formally requesting that the MPCA evaluate stormwater MTDs and include development protocols in the MN Stormwater Manual.

Commissioner Welch asked if the TAC is developing a list of specific technologies they wish the MPCA to test. Mr. Ray indicated that, no, the TAC is discussing the structure or process of a testing program. Commissioner Welch indicated that Riley Purgatory Bluff Creek Watershed District is discussing a similar matter and that it's a good idea to cooperate with others.

MOTION: Commissioner Welch moved approval of the TAC recommendation and added that the MN Board of Water and Soil Resources should be copied on the communication with the MPCA. Commissioner de Lambert seconded the motion. Upon a vote the motion carried 8-0 [City of Robbinsdale was absent for the vote.]

E. Receive Update on 50th Anniversary Event

Administrator Jester gave an update on the anniversary event. She noted that Commissioner Welch would emcee the event, that over 60 people were registered for the tour and over 80 registered for the event. She noted that the tour handout was being developed, catering was ordered, and that she was gathering materials for display. She also indicated that she attended the Golden Valley and Crystal City Council meetings to receive, on the Commission's behalf, resolutions/proclamations recognizing the 50th anniversary of the Commission. She reported that Commissioner Anderson was also present at the Crystal council meeting but that neither Commissioner Harwell nor Alt. Commissioner McDonald Black were available to attend the Golden Valley council meeting.

C. Set Proposed 2020 Operating Budget

Administrator Jester reminded commissioners that at their May meeting they reviewed the Budget Committee's recommendations for the 2020 operating budget and that there had been considerable discussion about how much money should be set aside to start saving for the development of the next watershed management plan due in 2025. She noted that she and Commission Engineers Chandler and Williams had met and discussed possible costs of 2025 plan development with items to consider laid out in the memo included with meeting materials. She recommended the Commission plan for a plan development budget of \$120,000.

Administrator Jester noted she included three different options for setting aside varying amounts each year for plan development in the memo that has impacts on assessments ranging from an increase of 3% over 2019 assessments to an increase of 4.5% over 2019 assessments. She also noted that the budget figures include \$7,500 for dues to the Minnesota Association of Watershed Districts (MAWD).

Chair Prom noted that the majority of the Budget Committee members would like to keep the assessments at a 3% increase. [Alt. Commissioner McDonald Black arrives.]

Commissioner Welch noted that it seemed like MAWD staff was willing to work on issue of dues, that MAWD dues should stay in the budget, and that it seems like sound budgeting to spread the planning costs evenly over several years rather than have a large increase in assessments in the future, noting that he prefers option #3, the 4.5% assessment increase. Commissioners Harwell and de Lambert agreed. Commissioner Anderson noted his desire to keep the assessment increase at 3%, if possible.

Alt. Commissioner McDonald Black noted that she had not been able to attend MAWD’s Finance Committee meeting but that she spoke with Emily Javens (MAWD Executive Director) by phone and relayed the idea that MAWD should incrementally increase the dues for new WMO members. She noted it was important to allow WMOs to more slowly increase their member cities’ dues levels and that would also help MAWD gain support. She indicated she believes it’s important for the Commission to remain in MAWD because their mission aligns with Commission goals and they seem to be focused on streamlining and attaining efficiencies in water management.

Alt. Commissioner McDonald Black also noted her belief that the Commission should fully fund the watershed plan development over years rather than allowing for a significant bump in assessments that wouldn’t likely decrease after the plan was complete.

MOTION: Commissioner Welch moved to accept Option 3 of the proposed 2020 budget and to advance the proposed budget to cities for their review and comment. Commissioner Harwell seconded the motion. A roll call vote was taken:

- | | |
|---------------------|----------------------|
| Crystal – no | New Hope – yes |
| Golden Valley – yes | Plymouth – no |
| Medicine Lake – yes | Robbinsdale – absent |
| Minneapolis – yes | St. Louis Park – yes |
| Minnetonka – yes | |

Motion carried.

6. COMMUNICATIONS

A. Administrator’s Report

- i. Report on Meeting with Hennepin County Commissioner Fernando
Administrator Jester reported that she, Commission Engineer Chandler, Chair Prom and Vice Chair Welch met with Hennepin County Commissioner Fernando on June 14th. She noted that Commissioner Fernando was extremely approachable, understood the BCWMC’s mission and work, and indicated she would advocate for the 2020 levy request and CIP projects. Mr. Emory, Commissioner Fernando’s Policy Aide, indicated that her office recently discussed the issue of over salting with a building association trade group. Commissioner Welch noted that we should invite Commissioner Fernando to a future Commission meeting.
- ii. Draft Model Ordinance on Chloride Reduction for Cities
The final model ordinance should be available in July; some TAC members had been involved in its development. She will bring it to the Commission when it’s available.
- iii. Report on Four Seasons Redevelopment Project
Met with developers and their engineers, Plymouth staff, and Commission Engineer Chandler to review their proposed stormwater management techniques for the development itself and the “above and beyond” treatment. We will continue to work with the developer and the city, as needed, and may come to the Commission at their July or August meeting to consider entering an agreement.

B. Chair

- i. Chair Prom noted that he intends to meet with Dominium (Four Seasons developer) as a Plymouth City Council member.

C. Commissioners

- i. Commissioner Welch reported his attendance at the Bassett Creek Valley Summit on June 4th that was convened by the MPRB. He noted it was good to get everyone in the same room to discuss the challenges and opportunities for development in the valley.
- ii. Commissioner Welch noted the chloride limited liability legislation did not pass again, primarily due to not resolving issues between the House and Senate.
- iii. Commissioner Carlson asked for an update on Medicine Lake issues. Administrator Jester gave a brief report on curly-leaf pondweed control and how the Commission shares the cost with TPRD, and on monitoring on the lake.

D. TAC Members

- i. Next meeting July 8

E. Committees

- i. Education Committee met on May 22 to discuss plans for the 50th event

F. Legal Counsel

- i. None (Congratulations to Mr. Anderson on recent birth of a son.)

G. Engineer

- i. Commission Engineer Chandler provided an update on the FEMA modeling project indicating they were responding to some comments from the interagency review committee and that the DNR is asking for a grant extension from FEMA.

7. INFORMATION ONLY (Information online only)

- A. Administrative Calendar
- B. CIP Project Updates <http://www.bassettcreekwmo.org/projects>
- C. Grant Tracking Summary and Spreadsheet

8. ADJOURNMENT

The meeting adjourned at 9:23 a.m.

Upcoming Meetings & Events

- Bassett Creek Watershed 50th Anniversary Tour and Celebration Event: Thursday June 27th, Brookview Community Center, Golden Valley
- BCWMC Technical Advisory Committee Meeting: July 8th, 1:00 p.m., Golden Valley City Hall
- Bassett Creek Watershed Management Commission Meeting: Thursday July 18th, 8:30 a.m., Golden Valley City Hall

Signature/Title

Date

Signature/Title

Date

Bassett Creek Watershed Management Commission General Account
 General Fund (Administration) Financial Report
 Fiscal Year: February 1, 2019 through January 31, 2020
 MEETING DATE: July 18, 2019

Item 4B.
 BCWMC 7-18-19
 Full document online

BEGINNING BALANCE	18-Jun-19		703,903.27
ADD:			
General Fund Revenue:			
Interest less Bank Fees		74.78	
Permits:			
I&S Group	BCWMC 2019-15	2,500.00	
Reimbursed Construction Costs		7,955.69	
		Total Revenue and Transfers In	10,530.47
DEDUCT:			
Checks:			
3212 Barr Engineering	June Engineering	29,851.71	
3213 Kennedy & Graven	May Legal	875.60	
3214 Keystone Waters	June Admin	6,957.75	
3215 Lawn Chair Gardener	June Admin Services	579.70	
3216 Triple D Espresso	July Mtg	111.75	
3217 Wenck Associates	WOMP/Bassett Cr Study	17,215.30	
3218 HDR Engineering	Website	560.44	
3219 Shingle Creek Watershed	Raingardern Workshops	1,000.00	
Wells Fargo/Superior Press	Check Blanks	78.20	
		Total Checks/Deductions	57,230.45
Outstanding from previous month:			
3199 Lawn Chair Gardener	May Admin Services	2,716.70	
3205 Metro Blooms	Harrison Project	25,633.31	
ENDING BALANCE	18-Jun-19		657,203.29

Bassett Creek Watershed Management Commission General Account
 General Fund (Administration) Financial Report

(UNAUDITED)

Fiscal Year: February 1, 2019 through January 31, 2020

MEETING DATE: July 18, 2019

	2019/2020 BUDGET	CURRENT MONTH	YTD 2019/2020	BALANCE
OTHER GENERAL FUND REVENUE				
ASSESSEMENTS TO CITIES	529,850		509,566.00	20,284.00
PROJECT REVIEW FEES	60,000	2,500.00	27,453.50	32,546.50
WOMP REIMBURSEMENT	5,000		4,500.00	500.00
METROPOLITAN COUNCIL - LRT			10,399.50	
METRO BLOOMS - MET COUNCIL GRANT			1,000.00	
HENNEPIN COUNTY GRANT-AIS PREVENTION GRANT			0.00	
TRANSFERS FROM LONG TERM FUND & CIP	76,000		0.00	76,000.00
REVENUE TOTAL	670,850	2,500.00	552,919.00	129,330.50
EXPENDITURES				
ENGINEERING & MONITORING				
TECHNICAL SERVICES	130,000	10,305.64	56,013.14	73,986.86
DEV/PROJECT REVIEWS	80,000	3,916.00	33,234.65	46,765.35
NON-FEE/PRELIM REVIEWS	15,000	1,875.50	14,373.00	627.00
COMMISSION AND TAC MEETINGS	12,000	350.00	5,683.90	6,316.10
SURVEYS & STUDIES	20,000	2,591.50	8,108.46	11,891.54
WATER QUALITY/MONITORING	78,000	1,970.88	29,267.26	48,732.74
WATER QUANTITY	10,000	52.50	4,497.70	5,502.30
WATERSHED INSPECTIONS -EROSION CONTROL	0	771.50	771.50	(771.50)
ANNUAL FLOOD CONTROL INSPECTIONS	48,000	0.00	1,560.00	46,440.00
REVIEW MUNICIPAL PLANS	4,000	0.00	1,750.00	2,250.00
WOMP	20,500	1,392.00	7,898.88	12,601.12
XP-SWMM MODEL UPDATES/REVIEWS	0	0.00	0.00	0.00
APM / AIS WORK	32,000	0.00	8,700.62	23,299.38
ENGINEERING & MONITORING TOTAL	449,500	23,225.52	171,859.11	277,640.89
PLANNING				
Next Generation Plan Development	12,000	0.00	0.00	12,000.00
MAINTENANCE FUNDS TOTAL	12,000	0.00	0.00	12,000.00
ADMINISTRATION				
ADMINISTRATOR	69,200	6,318.00	31,410.00	37,790.00
LEGAL COSTS	17,000	875.60	4,895.90	12,104.10
AUDIT, INSURANCE & BONDING	18,000	0.00	15,892.00	2,108.00
FINANCIAL MANAGEMENT	3,500	0.00	0.00	3,500.00
MEETING EXPENSES	1,500	111.75	670.50	829.50
ADMINISTRATIVE SERVICES	15,000	483.30	6,287.52	8,712.48
ADMINISTRATION TOTAL	124,200	7,788.65	59,155.92	65,044.08
OUTREACH & EDUCATION				
PUBLICATIONS/ANNUAL REPORT	1,300	0.00	1,263.00	37.00
WEBSITE	3,000	560.44	560.44	2,439.56
PUBLIC COMMUNICATIONS	1,000	0.00	0.00	1,000.00
EDUCATION AND PUBLIC OUTREACH	25,000	814.35	14,932.90	10,067.10
WATERSHED EDUCATION PARTNERSHIPS	15,850	1,000.00	6,350.00	9,500.00
OUTREACH & EDUCATION TOTAL	46,150	2,374.79	23,106.34	23,043.66
MAINTENANCE FUNDS				
EROSION/SEDIMENT (CHANNEL MAINT)	25,000	0.00	0.00	25,000.00
LONG TERM MAINTENANCE (moved to CF)	25,000	0.00	0.00	25,000.00
MAINTENANCE FUNDS TOTAL	50,000	0.00	0.00	50,000.00
TMDL WORK				
TMDL IMPLEMENTATION REPORTING	10,000	0.00	0.00	10,000.00
TMDL WORK TOTAL	10,000	0.00	0.00	10,000.00
DUE FROM OTHER GOVERNMENTS				
Due from City of Minneapolis	0	15,885.80	25,341.20	(25,341.20)
	0	15,885.80	25,341.20	(25,341.20)
TOTAL EXPENSES	691,850	49,274.76	279,462.57	412,387.43

Cash Balance 06/12/19				
Cash			1,006,286.53	1,006,286.53
	Total Cash			
Investments:				
	Minnesota Municipal Money Market (4M Fund)		2,500,000.00	
	2018-19 Dividends		44,653.88	
	2019-20 Dividends		13,776.70	
	Dividends-Current		4,414.91	
	Total Investments			2,562,845.49
	Total Cash & Investments			3,569,132.02
Add:				
	Interest Revenue (Bank Charges)		214.06	
	Hennepin County - Tax Settlement		733,104.75	
	Total Revenue			733,318.81
Less:				
	CIP Projects Levied - Current Expenses - TABLE A		(1,243.22)	
	Proposed & Future CIP Projects to Be Levied - Current Expenses - TABLE B		(3,058.47)	
	Total Current Expenses			(4,301.69)
	Total Cash & Investments On Hand	07/10/19		4,298,149.14
	Total Cash & Investments On Hand		4,298,149.14	
	Current Anticipated Levy -2019 (July 19/Dec 19/Jan 20)		704,380.23	
	CIP Projects Levied - Budget Remaining - TABLE A		(4,635,407.70)	
	Closed Projects Remaining Balance			367,121.67
	2012 - 2017 Anticipated Tax Levy Revenue - TABLE C		7,330.29	
	2018 Anticipated Tax Levy Revenue - TABLE C		8,770.47	
	Anticipated Closed Project Balance			383,222.43
	Proposed & Future CIP Project Amount to be Levied - TABLE B		0.00	

TABLE A - CIP PROJECTS LEVIED

	Approved Budget	Current Expenses	2019 YTD Expenses	INCEPTION To Date Expenses	Remaining Budget	Grant Funds Received
Lakeview Park Pond (ML-8) (2013)	196,000	0.00	0.00	11,589.50	184,410.50	
Four Seasons Mall Area Water Quality Proj (NL-2)	990,000	1,085.72	1,891.22	164,798.56	825,201.44	
2014						
Schaper Pond Enhance Feasibility/Project (SL-1)(SL-3)	612,000	0.00	46,010.11	422,064.97	189,935.03	
Briarwood / Dawnview Nature Area (BC-7)	250,000	0.00	0.00	250,000.00	0.00	
Twin Lake Alum Treatment Project (TW-2)	163,000	0.00	0.00	91,037.82	71,962.18	
2015						
Main Stem 10th to Duluth (CR2015) Close Project	1,503,000	0.00	114,601.05	1,118,347.29		
2016						
Northwood Lake Pond (NL-1) ²	822,140					
Budget Amendment	611,600					
	1,433,740	0.00	0.00	1,447,143.38	(13,403.38)	700,000
2017						
Main Stem Cedar Lk Rd-Dupont (2017CR-M) 2017 Levy	400,000					
	664,472					
	1,064,472	0.00	0.00	132,029.25	932,442.75	
Plymouth Creek Restoration (2017 CR-P) 2017 Levy	580,930					
	282,643					
	863,573	0.00	0.00	594,690.16	268,882.84	200,000
2018						
Bassett Creek Park & Winnetka Ponds Dredging (BCP-2)	1,000,000	0.00	179.10	132,991.90	867,008.10	
2019						
Decola Ponds B&C Improvement(BC-2,BC-3,BC-8)	1,031,500	157.50	157.50	85,967.56	945,532.44	34,287
Westwood Lake Water Quality Improvement Project(Feasibility)	404,500	0.00	0.00	41,064.20	363,435.80	
	9,511,785	1,243.22	162,838.98	4,491,724.59	4,635,407.70	

TABLE B - PROPOSED & FUTURE CIP PROJECTS TO BE LEVIED

	Approved Budget - To Be Levied	Current Expenses	2019 YTD Expenses	INCEPTION To Date Expenses	Remaining Budget
2020					
Bryn Mawr Meadows (BC-5)	0	188.47	1,314.47	96,818.03	(96,818.03)
Jevne Park Stormwater Mgmt Feasibility (ML-21)	0	157.50	14,623.96	45,078.25	(45,078.25)
Crane Lake Improvement Proj (CL-3)	0	192.50	6,838.50	12,000.85	(12,000.85)
Sweeney Lake WQ Improvement Project (SL-8)	0	140.00	140.00	140.00	(140.00)
2020 Project Totals	0	678.47	22,916.93	154,037.13	(154,037.13)
2021					
Main Stem Dredging Project (BC-7)	0	1,907.50	1,907.50	1,907.50	(1,907.50)
Mt Olivet Stream Restoration (MN-20)	0	385.00	385.00	385.00	(385.00)
Parkers Lake Stream Restoration (PL-7)	0	87.50	87.50	87.50	(87.50)
2021 Project Totals	0	2,380.00	2,380.00	2,380.00	(2,380.00)
Total Proposed & Future CIP Projects to be Levied	0	3,058.47	25,296.93	156,417.13	(156,417.13)

TABLE C - TAX LEVY REVENUES

	County Levy	Abatements / Adjustments	Adjusted Levy	Current Received	Year to Date Received	Inception to Date Received	Balance to be Collected	BCWMO Levy
2019 Tax Levy	1,436,000.00		1,436,000.00	731,619.77	731,619.77	731,619.77	704,380.23	1,436,000.00
2018 Tax Levy	1,346,815.00		1,346,815.00	1,546.10	1,546.10	1,338,044.53	8,770.47	947,115.00
2017 Tax Levy	1,303,600.00	(10,691.48)	1,292,908.52	(754.74)	(754.74)	1,289,004.89	3,903.63	1,303,600.00
2016 Tax Levy	1,222,000.00	(9,526.79)	1,212,473.21	181.73	181.73	1,210,006.40	2,466.81	1,222,000.00
2015 Tax Levy	1,000,000.00	32.19	1,000,032.19	99.45	99.45	999,337.49	694.70	1,000,000.00
2014 Tax Levy	895,000.00	(8,533.75)	886,466.25	412.44	412.44	886,201.10	265.15	895,000.00
				<u>733,104.75</u>			<u>720,480.99</u>	

OTHER PROJECTS:

	Approved Budget	Current Expenses / (Revenue)	2019 YTD Expenses / (Revenue)	INCEPTION To Date Expenses / (Revenue)	Remaining Budget
TMDL Studies					
TMDL Studies	135,000.00	0.00	0.00	107,765.15	27,234.85
TOTAL TMDL Studies	135,000.00	0.00	0.00	107,765.15	27,234.85
Flood Control Long-Term					
Flood Control Long-Term Maintenance	694,573.00	3,654.00	30,078.50	371,528.91	
Less: State of MN - DNR Grants			0.00	(97,542.00)	
	694,573.00	3,654.00	30,078.50	273,986.91	420,586.09
Annual Flood Control Projects:					
Flood Control Emergency Maintenance	500,000.00	0.00	0.00	0.00	500,000.00
Annual Water Quality					
Channel Maintenance Fund	400,000.00	0.00	0.00	255,619.60	144,380.40
Metro Blooms Harrison Neighborhood CWF Grant Project					
BWSR Grant	134,595.00	0.00	23,539.31	47,416.15	87,178.85
				(67,298.00)	(67,298.00)
	134,595.00	0.00	23,539.31	(19,881.85)	
Total Other Projects	1,864,168.00	3,654.00	53,617.81	550,191.81	1,112,082.19

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 5A – Consider Approval of Proposal to Prepare Feasibility Study for Project to Dredge Accumulated Sediment in the Main Stem of Bassett Creek in Wirth Park (2021 CIP Project BC-7)
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5A. Consider Approval of Proposal to Prepare Feasibility Study for Project to Dredge Accumulated Sediment in the Main Stem of Bassett Creek in Wirth Park (2021 CIP Project BC-7)

Recommendations:

1. Consider approving the scope of work and \$74,000 budget presented in this memorandum and direct the Engineer to complete the feasibility study for the Dredge Accumulated Sediment in the Main Stem of Bassett Creek in Wirth Park Project (2021 CIP Project BC-7), scheduled for construction in 2021 and 2022.
2. Direct the Engineer to consult with the U.S. Army Corps of Engineers (USACE) to determine whether the Resources Management Plan Pre-application Consultation Protocols may apply for this project.
3. Direct the Engineer to prepare a feasibility study that complies with the requirements of the USACE and BCWMC criteria.

Background

The proposed project to dredge accumulated sediment in the Main Stem of Bassett Creek in Wirth Park is in the Bassett Creek Watershed Management Commission's (BCWMC) current CIP (Table 5-3, as amended in 2018), listed as project BC-7 with a total estimated cost of \$400,000. At its April 18, 2019 meeting, the Commission approved the 5-year (working) CIP, which included project BC-7, scheduled for construction in 2021.

The proposed project will remove sediment that has collected in three of the seven "lagoons" created along the Main Stem of Bassett Creek in Wirth Park, between Golden Valley Road and Trunk Highway 55. These lagoons were originally created in the mid-1930s by Civilian Conservation Corps crews. Based on a study performed by Barr on behalf of the City of Minneapolis (Wirth Lagoon Sedimentation, December 2015), the lagoons were later determined to be part of the Minneapolis Grand Rounds System, "which has been deemed eligible by the U.S. Department of the Interior under the Historic Preservation Act for listing

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on the National Register of Historic Places.” The 2015 study found that the lagoons remained relatively unchanged until the early to mid-1990s, when large amounts of sediment began to appear in the lagoons. The sedimentation appeared to slow or stop by the mid-1990s. The sedimentation in Lagoon “E” (immediately to the east of the chalet and parking area) is of concern to City of Minneapolis and Minneapolis Park and Recreation Board (MPRB) staff because the sedimentation may be contributing to flooding of the parking lot and a short section of Theodore Wirth Parkway. In addition, the sedimentation has resulted in the creation of new “islands” in the creek/lagoons that reduce the flow capacity and floodplain storage of the creek. In addition to improving flow capacity and floodplain storage, the project will improve habitat for fish and macroinvertebrates and has the potential to improve downstream water quality by trapping sediment in the lagoons, thus minimizing sediment passing downstream within Bassett Creek and on to the Mississippi River.

Figure 1 shows the project area covered by this feasibility study, which will focus on Lagoons D, E, and F.

As is required for BCWMC CIP Projects, a feasibility study must be completed prior to BCWMC holding a hearing and ordering the project. The feasibility study will estimate the amount of material to be dredged, identify sediment contamination issues, discuss methods for dredging the material from the lagoons and disposing of the dredged material, review the environmental review and permitting requirements, and develop a concept plan and cost estimate for the project.

This project is consistent with the goals (Section 4.1) and policies (Sections 4.2.1, 4.2.5, 4.2.8 and 4.2.10) in the 2015 – 2025 BCWMC Watershed Management Plan.

The BCWMC completed a Resource Management Plan (RMP) in 2009 through which the USACE and the BCWMC agreed on a series of steps, work items, deliverables (called “protocols”) that must be accomplished and submitted to complete the RMP process and USACE review/approval process. Although this project was not included in the RMP, the USACE has allowed the RMP protocols to be applied to other projects not specifically included in the RMP. With the completion of the protocols, we expect the USACE application process to move more quickly than it would otherwise. Most of the protocols must be addressed as part of the feasibility study, in addition to the usual tasks that would be performed as part of a feasibility study under the criteria adopted by the BCWMC in October 2013. In general, the protocols require compliance with Section 106 of the National Historic Preservation Act, compliance with Section 404 of the Clean Water Act, and Clean Water Act Section 401 Water Quality Certification. Compliance with Section 106 can require some level of cultural resources inventory. The first step in reviewing cultural resources is submitting a data request to the State Historic Preservation Office (SHPO). Based on the findings of the data request, additional cultural resources inventory may be required as the project progresses. At this time, it is anticipated that a Phase I cultural resources review (a literature review) may be required and can be completed as part of subsequent design and environmental review processes. The feasibility study will follow/include the other applicable RMP protocols.

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In addition to the RMP protocols and BCWMC feasibility study criteria, sediment sampling will be conducted following the Minnesota Pollution Control Agency's (MPCA) "Managing Stormwater Sediment Best Management Practice Guidance" (June 2015).

Content and Scope of Feasibility Study

The feasibility study will address and include the feasibility study criteria adopted by the BCWMC in October 2013:

- Analysis of multiple alternatives with the context of Commission objectives, including the following for each alternative:
 - Pros and cons analysis
 - Cost estimate for construction and a "30-year cost"
 - Analysis of life expectancy
 - Summary of each alternative for the Commission to judge its merits
 - Cost estimate for annualized cost per pound of pollutant removal
- Evaluation of new and/or innovative approaches
- Identification of environmental review and permitting requirements

The BCWMC developed the above criteria when the BCWMC's CIP was limited to water quality improvement projects, so they do not specifically address flood mitigation aspects of CIP projects.

As noted earlier, most of the RMP protocols must be addressed as part of the feasibility study. In addition to the tasks above, the feasibility study will include the identification of wetland impacts to meet the RMP pre-application protocols.

In addition to the RMP protocols and specific criteria adopted by the BCMWC, it is important to gather stakeholder input. The BCWMC Engineer will work with the BCWMC Administrator, City of Minneapolis staff and MPRB staff to identify the most-effective means to gather input from the public and other affected stakeholders.

The report will also include the results of scoring the project options according to the BCWMC Project Prioritization Scoring Matrix.

Previous Work

Several studies and projects have been completed in and along the study area. Relevant work and scope implications are listed below:

- Feasibility Report for the 2012 Bassett Creek Main Stem Restoration Project - Golden Valley Road to Irving Avenue North (Barr, 2011)

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- Wetland delineation - full delineation of Lagoon D, partial delineation of Lagoon F, and no delineation of Lagoon E. This information expires 5 years following wetland delineation approval and therefore is outdated and only serves as reference material.
- Cultural resources survey – reconnaissance survey performed for a portion of the channels upstream of Lagoon F and between Lagoons F/E and E/D. This information expires 5 years following approval and therefore is outdated and only serves as reference material.
- Phase I environmental site assessment – consisted of the entire stretch of creek including Lagoons F, E and D, plus all properties within 200 feet in any direction of the centerline.
- BCWMC CIP project 2012 CR –M, Main Stem of Bassett Creek Restoration Project (WSB, 2014) – Tree removals, and multiple stream restoration features such as root wads, rock vanes, and biologs were installed primarily in the channels from upstream of Lagoon F to downstream of Lagoon D.

For this project, we anticipate utilizing and amending the above information and other available information (e.g., from the Blue Line LRT project), and amending these documents as appropriate, based on further investigations that will be required as outlined below.

Below is a summary of the feasibility study work scope components for this project:

1) Project Meetings

- a) Project kick-off meeting with BCWMC staff, commissioners, Minneapolis staff, and MPRB staff and preparation of meeting notes.
- b) Meeting with BCWMC staff, Minneapolis staff, MPRB staff, USACE, MN DNR and MPCA to discuss concept alternatives and review environmental review and permit requirements for project, and prepare meeting minutes to confirm regulatory agencies' discussion results.
- c) Prepare bi-weekly project email updates.

3) Desktop and Field Studies

- a) Bathymetric surveys – We will complete bathymetric surveys for each of the three lagoons. The survey results, along with the sediment sampling information (see below), will be used to help obtain an accurate estimate of the volume of sediment to be removed.
- b) Topographic, utility location, and tree survey – We will complete a topographic, utility location and tree survey for the project area, including survey of any existing storm sewer. As part of the topographic survey, we will also take elevation measurements on the top and bottom of the banks and the sediment islands within the lagoons. Underground utilities will be located based on the location of manhole structures in the field, as-built/construction plan drawings from the City and MPRB, and utilization of a Gopher State One Call utility locate. Additionally we will survey

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several cross sections that align with the BCWMC Phase 2 XP-SWMM cross sections. We will conduct the survey in NAVD88 and use available City of Golden Valley and/or Minneapolis benchmarks.

- c) Wetland delineations – We will perform a field wetland delineation around the perimeter of Lagoons E and F. Barr will perform a field wetland delineation in accordance with the Routine Level 2 procedures specified in the U.S. Army Corps of Engineers 1987 Wetland Delineation Manual (“1987 Manual”, USACE, 1987), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (USACE, 2010), and the 2013 Guidance for Submittal of Wetland Delineation Reports to the USACE and WCA LGUs in MN. We will identify/flag and record wetland boundaries using a GPS unit with sub-meter accuracy. We will prepare a wetland delineation report that includes the wetland type classifications and descriptions of the delineated wetlands, a brief description of the proposed project, general environmental information, and a discussion of regulations and the administering authorities. The report will also include wetland data forms, precipitation analysis, and site photographs. Barr also will obtain a Wetland Type and Boundary Approval from the Local Government Unit (LGU). Our cost estimate includes a wetland functions and values assessment (i.e., a Minnesota Rapid Assessment Method, or MNRAM, analysis) of all of the delineated wetlands. Although the 2011 wetland delineation for Lagoon D officially expired in 2016, we can use the results to guide the concept design. Also, we expect the dredging of Lagoon D to be a lower priority for project completion than Lagoon E; a wetland delineation performed now would likely expire again before the project could be completed. A full delineation of Lagoon D would be required during final design.
- d) Stream restoration/stability review – We will complete a site inspection of the previously completed stream restoration project. The report will include discussion of the current stream conditions and recommendations for final design.
- e) Desktop study to assess for potential contamination - We will review the previously completed 2011 Phase I Environmental Site Assessment for this reach of creek. Similar to wetland delineations, Phase I assessments expire after five years. However, we can use the Phase I results to identify potential sources of contamination that may impact the project and determine the scope for sampling. An updated Phase I would be needed only if the project involved a property transaction or if the project would be enrolled in the MPCA voluntary brownfield program; neither of these situations apply to this project.
- A preliminary review of the Minnesota Pollution Control Agency’s (MPCA) “What’s in my Neighborhood?” database indicated the presence of a leaking fuel oil tank at the adjacent Theodore Wirth Golf Course near Lagoon E. The leak was fuel oil 1 & 2 that occurred in 1991 and resulted in 272 cubic yards of soil and documented groundwater contamination. The MPCA

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closed the leak site in 2009. As part of this feasibility project, we will request and review the information in the MPCA's file for this site. The review will be used to confirm sediment testing parameters and locations for each lagoon. This site was identified in the Phase I study.

- f) Sediment sampling – Sediment sampling will be conducted to determine if the planned dredged sediment is contaminated, thus restricting the use of the dredged material and to select proper disposal of the material, and to estimate the location of the natural lagoon bottom.

The sediment sampling will follow the Minnesota Pollution Control Agency's (MPCA) "Managing Stormwater Sediment Best Management Practice Guidance" (May 2017). For ponds with a dredge area from 1 to 4 acres, the MPCA guidance requires collection of one sediment core and sample for each acre of planned dredge area. Therefore, the following number of samples will be collected and analyzed from each lagoon:

- Lagoon F – 2 sediment samples collected from 2 coring locations, based on its approximate size of 1.7 acres.
- Lagoon E – 4 sediment samples collected from 4 coring locations, based on its approximate size of 3.2 acres.
- Lagoon D – 2 sediment samples collected from 2 coring locations, based on its approximate size of 1.8 acres.

At a minimum, sediment samples will be analyzed for the baseline parameters described in the MPCA guidance document: polycyclic aromatic hydrocarbons, arsenic, and copper. In addition, we recommend analyzing each sediment sample for common contaminants found at golf courses, which include: RCRA metals and Minnesota Department of Agriculture (MDA) List 1 Pesticides. For Lagoon E, located near a previous petroleum fuel oil leak site, we recommend also analyzing those sediment samples for volatile organic compounds and diesel range organics with silica gel cleanup. Based on the results of the environmental desktop study, the parameter list may be modified to include additional parameters or a reduced list, if warranted.

The cost estimate includes the cost of the analyses listed above with a 20% contingency for additional analyses. We will access this contingency only upon approval by the BCWMC administrator. We will develop a memo summarizing the sediment sampling results and compare contaminant levels to MPCA Soil Reference Values to determine if the material could be used on another property as Unregulated Fill, or if the material will require landfill disposal if excavated.

Assuming the lagoons are wetlands, sediment removal must be limited to accumulated material. In addition to the sediment cores taken for laboratory analysis, additional sediment probing and/or coring in the lagoons will be conducted to delineate the natural lagoon bottom. These additional samples will not be analyzed for contaminants.

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The sediment probe/core information, combined with the bathymetric surveys and construction plans, will be used to estimate the extent and volume of accumulated sediment in the lagoons.

- g) Threatened and endangered species desktop review –Barr will perform a desktop review of available databases to determine the potential for adverse impacts to state and federally listed species.
- h) Cultural resources desktop review - Barr will submit a data request to SHPO to acquire information related to known historic and archaeological resources in the project vicinity. Relevant information will be summarized in the feasibility report. Based on the findings of the data request, additional cultural resources inventory may be required as the project progresses. At this time, it is anticipated that a Phase I cultural resources review (a literature review) may be required and can be completed as part of subsequent design and environmental review processes.
- i) Project easements – The proposed project in Wirth Park is located on public property, so no additional easement acquisition is anticipated.

3) Evaluation and Concept Plans

- a) Estimation of the extent and volume of accumulated sediment in Lagoons D, E, & F, based on review of the bathymetric surveys and sediment probe/core information; and develop up to three alternative concept plans for accumulated sediment removal, including alternate methods for removing and dewatering the material, as appropriate.
- b) Identify environmental review and permitting requirements for the concepts, based on wetland delineations and other compiled data, and one (1) meeting with USACE, MN DNR and MPCA staff (see task 1b).
- c) Use the BCWMC Phase 2 XP-SWMM and P8 models to estimate impacts to peak flood elevations and pollutant removals, respectively, as a result of the project concepts.
- d) Develop cost estimates for the project, including a “30-year cost,” analysis of life expectancy, and annualized cost per pound of pollutant removal for the water quality treatment portion of the project.

4) Public Engagement

- a) Coordinate with BCWMC Administrator, Minneapolis staff and MPRB staff to determine the best means to gather public input, such as mailings, newspaper articles, open houses, etc. Primary group for public discussions will be the nearby residents, property owners, and, possibly, park users. The budget for this task includes time to prepare for and attend one public meeting early in the process, after the development of concept plans. This task also includes assisting with the public involvement process as necessary – preparing handouts, boards, and/or presentation, and

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recording and compiling comments. We assume that meeting coordination, expenses, and set-up will be largely completed by the BCWMC Administrator with assistance from the City and MPRB.

5) Feasibility Report

- a) Prepare draft report for review by City staff, MPRB staff, and BCWMC staff/interested commissioners; revise report based upon review comments.
- b) Present draft feasibility study findings at BCWMC meeting.
- c) Prepare final report for approval at BCWMC meeting and for use at future project public hearing.
- d) Present final feasibility study findings at BCWMC meeting.

Cost Estimate

The table below summarizes our cost estimate for the scope of work outlined above.

Tasks	Estimated Total
1) Project Meetings	\$5,200
2) Field Investigations	\$28,800
3) Evaluation and Concept Plans	\$18,400
4) Public Engagement	\$ 4,300
5) Feasibility Report	\$17,300
Total	\$74,000





Schedule

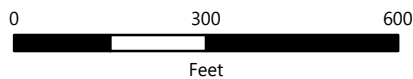
We will complete the tasks and milestones outlined in the scope of work on the following schedule.

Tasks and milestones	Estimated Schedule
Kick-off meeting with BCWMC, City of Minneapolis, and MPRB staff	August 2019
Bathymetric surveys	August/September 2019
Sediment sampling	August/September 2019
Topographic and utility survey	August/September 2019
Wetland review/delineations	August/September 2019
Combined agency field review/TEP review	August/September 2019
Desktop Environmental study to assess for potential contamination	August 2019
Desktop Review – threatened and endangered species, cultural resources	August/September 2019
Meeting with BCWMC, City, MPRB, USACE, MN DNR, and MPCA	September/October 2019
Develop concept alternatives and cost estimates	October 2019 – January 2020
Public meeting	January/February 2020
Submit draft feasibility report for City and BCWMC staff review	March 13, 2020
City, MPRB and BCWMC staff complete review	March 27, 2020
Submit draft feasibility report for BCWMC review at Commission meeting	April 8, 2020
BCWMC completes review at Commission meeting	April 16, 2020
Submit final feasibility report for BCWMC review at Commission meeting	May 13, 2020
Final Feasibility Report – BCWMC approval at Commission meeting	May 21, 2020



Aerial Imagery: April 2019; NearMap

-  Project Area
-  Ponds and Wetlands
-  Open Channel
-  Culvert or Bridge



MAIN STEM DREDGING
PROJECT AREA

FIGURE 1



Bassett Creek Watershed Management Commission

MEMO

To: Bassett Creek Watershed Management Commissioners
From: Technical Advisory Committee
Date: July 10, 2019

RE: TAC Recommendations – 7/8/19 TAC Meeting

TAC Members and Others attending 7/8/19 TAC Meeting:

Mark Ray, Crystal (TAC Chair)
Eric Eckman, Golden Valley
Erick Francis, St. Louis Park
Marta Roser, Robbinsdale
Sarah Schweiger and Phil Olson, Minnetonka
Chris LaBounty, Plymouth
Susan Wiese, Medicine Lake
Gary Holter, Commission Liaison
Laura Jester, Administrator
Karen Chandler and Jim Herbert, Commission Engineers

At their April 18, 2019 meeting, the BCWMC directed the TAC to provide direction to the Commission and the Commission Engineer regarding review and acceptance of proprietary stormwater manufactured treatment devices (MTDs) proposed for use in development/redevelopment projects in the watershed. The BCWMC Technical Advisory Committee met on May 29th and July 8th to review information about MTDs, how they are currently tested and certified, and how the Commission should review these devices in development proposals.

At the June 20, 2019 meeting, the BCWMC approved an initial [TAC recommendation](#) regarding MTDs “that the Commission cooperate with other watersheds in sending a letter to the MPCA, formally requesting that the MPCA evaluate stormwater MTDs and include development protocols in the MN Stormwater Manual, and to copy the MN Board of Water and Soil Resources on that correspondence.”

The TAC continued their discussion on this topic at their July 8th meeting and forwards the following recommendations for the Commission’s consideration.

BACKGROUND & TAC DISCUSSION:

The Commission has seen an increase in the use of proprietary stormwater MTDs for development and redevelopment projects. Currently, there are not widely accepted levels of treatment or pollutant removal efficiencies associated with these devices. While most proprietary MTDs undergo

testing and third-party review, the conditions that they are tested under may not be consistent with the conditions in the Bassett Creek watershed.

The TAC reviewed an initial technical memo (dated May 22, 2019) from the Commission Engineer that provided information about conventional stormwater best management practices; various stormwater MTDs and projects with MTDs reviewed by the BCWMC; and third-party testing programs. The memo also included 6 options (and recommendations) developed by the Commission Engineer for future review of stormwater MTDs.

A second technical memo (dated July 2, 2019) from the Commission Engineer was reviewed at the July 8th meeting with additional information requested by the TAC on the following items:

- 1) State of Washington's Technology Assessment Protocol – Ecology (TAPE) program
- 2) two options to review projects with reliance on TAPE's certification/verification program
- 3) a process to coordinate Commission reviews with city review processes

The TAC discussed the pros and cons of two options for reviewing MTDs in proposed projects (Options 3 and 6 in the technical memos). A summary of each option is as follows:

Option 3: Rely on a third-party entity's certification/verification to set a blanket total phosphorus removal (i.e., 50% for the State of Washington's Technology Assessment Protocol – Ecology (TAPE) program). This would require applicants to provide verification or certification of stormwater MTDs from the TAPE program (i.e., General Use Level Designation – GULD; the highest level of TAPE certification). MTDs certified through the TAPE program remove at least 50% of total phosphorus (TP) and 80% of total suspended solids (TSS). MTDs that do not meet that threshold do not get certified by the TAPE program. The BCWMC would accept these pollutant removal efficiencies as applied to the development/redevelopment site, as long as the MTDs are designed in accordance with the manufacturer's recommendations.

Option 6: Rely on the data from a third-party entity's certification/verification to set phosphorus removals (i.e., additional data from the State of Washington's Technology Assessment Protocol – Ecology (TAPE) program). This option is the same as #3, but would also require that applicants provide the MTD testing data used for the verification or certification, including the particulate phosphorus loading, the particulate phosphorus removal efficiency, the dissolved phosphorus loading, and dissolved phosphorus removal efficiency. The BCWMC would review and accept the median pollutant removal efficiencies (which could be higher than 50% TP and 80% TSS) from the MTD testing data used for the verification or certification as applied to the respective particulate and dissolved phosphorus loading values for the development/ redevelopment site, as long as the MTDs are designed in accordance with the manufacturer's recommendations.

It was noted that the Washington State TAPE program certification is robust, but the program requires that testing be performed in the state of Washington or the Pacific Northwest, and thus reflects the weather/climate conditions in that region (not Minnesota). However, to the best of our knowledge, it is currently the only certification program in the United States and Canada that certifies TP removals (not just TSS), so it is the best program for the BCWMC to rely upon because TP information is needed for the MIDS calculator.

The TAC discussed the pros and cons of Options 3 and 6. A summary of the pros and cons is provided below.

Option 3:

- Easier and faster review by Commission Engineer due to defined pollutant removals for TP and TSS
- Allows city staff to inform project proposer early in the concept development process exactly what pollutant removal efficiencies would be used in calculations during review process
- Does not provide information on the amount of dissolved phosphorus vs. particulate phosphorus being removed
- May underestimate actual particulate phosphorus removal efficiencies and overestimate actual dissolved phosphorus removal efficiencies.

Option 6:

- Requires applicant to submit additional data (or may require the Commission Engineer to seek the additional data from TAPE Program)
- Requires analysis of testing data by Commission Engineer
- Would likely require discussion among city staff, Commission Engineer, and project proposer prior to submittal of application and review fee
- Uses more accurate data on the type of phosphorus being removed (dissolved vs. particulate) and may find higher pollutant removal efficiencies, allowing the applicant to take more pollutant removal credits for the MTD than Option 3
- Review would be more in-line with current review practices regarding level of information on pollutant removals for standard treatment devices (non-MTDs)

There was considerable discussion about how the options differ and how they could be integrated with city reviews, approvals, and early conversations with developers. It was noted there is a need to keep reviews as uncomplicated and efficient as possible, while accurately accounting for pollutant removals and allowing for flexibility, as warranted. Balancing these needs was the desired outcome of the ultimate recommendations below.

One additional item is that the Commission Engineer also recommended the Commission consider convening a work group comprised of other local watershed districts, watershed management organizations, municipalities, the MPCA, and the University of Minnesota (St. Anthony Falls Lab) to discuss MTDs. The purpose of the work group would be to share information and suggest procedures/best practices regarding MTD review and approval. The TAC agreed that while this might be something to consider in the future, they would rather wait to see how the BCWMC's new MTD review process plays out (if approved by the Commission) and if the MPCA begins a program to evaluate MTDs in the coming year.

RECOMMENDATIONS:

The BCWMC Technical Advisory Committee recommends the following:

1. The BCWMC require project applicants to provide verification that the proposed stormwater MTDs have achieved General Use Level Designation (GULD) certification from the State of Washington's Technology Assessment Protocol – Ecology (TAPE) program (Option 3). The

BCWMC will then accept and apply 50% TP and 80% TSS removals for the MTDs, as long as the MTDs are designed in accordance with the manufacturer's recommendations/guidelines.

2. The BCWMC allow project applicants to seek acceptance of higher pollutant removal efficiencies by submitting data from the TAPE program for analysis by the Commission Engineer (Option 6) using the following protocol:
 - a. Commission will develop a new "MTD pre-approval" review application form for these situations.
 - b. City staff would encourage the applicant to coordinate with the Commission Engineers early in the process. This would avoid a possible scenario where a project is almost entirely through a city review process only to need considerable site revisions due to differing analyses of MTD pollutant removals by Commission Engineers and negotiations therein.
 - c. Commission would require applicants to submit the "MTD pre-approval" form and a \$1,000 alternative BMP review fee. (The BCWMC already requires this \$1,000 review fee for projects involving review of alternative BMPs that are not in the MN Stormwater Manual.) The applicant would pay the remaining BMP review fees when they submit the full BCWMC application form.
3. The Commission Engineer will maintain a list of MTDs that have been approved through Option 6 for use by future applicants.
4. The BCWMC not allow the manufacturer of an MTD to apply for consideration through the Commission's review process without it being part of an actual development/redevelopment project and submittal of a formal BCWMC application. Currently the BCWMC's review process and fee structure is setup for development and redevelopment projects and not review of specific components of the projects.

Memo

DATE: July 1, 2019
TO: MAWD Members
FROM: Sherry Davis White, Resolutions Committee Chair
RE: 2019 Request for Resolutions

It is that time of year for MAWD members to submit their policy recommendations through our resolutions process. Here are the next steps and timeline:

July / August	Districts discuss and approve resolutions at their local board meetings
September 1	Deadline to submit resolutions and background information documents to the MAWD office at emily@mnwatershed.org
Mid-October	Resolutions Committee will review resolutions, garner further information when necessary, discuss and make recommendations on them to the membership
November	Resolutions (along with committee feedback) will be emailed to each district by the end of October. Districts should discuss the resolutions at their November meetings and decide who will be voting on their behalf at the annual meeting.
Dec 5 – Dec 6	Discussion and voting to take place at annual meeting
December / January	Legislative Committee will meet to formulate a recommendation to the MAWD Board of Directors for the 2019 legislative platform based on existing and new resolutions
January	MAWD Board of Directors will finalize the 2019 legislative platform

Resolutions passed by the membership at the annual meeting will remain MAWD policy for five years upon which time they will sunset.

See the enclosed lists for resolutions that are active and those that have been archived.

Tips and tricks for writing resolutions and getting them passed can be found on our website at www.mnwatershed.org/s/July17_Resolutions101.pdf

Please feel free to contact me or our Executive Director Emily Javens if you have any questions at emily@mnwatershed.org or (651) 440-9407.

THANK YOU FOR YOUR EFFORTS IN OUR POLICY DEVELOPMENT!

Background Information

2019 MAWD Resolution

Proposing District: _____

Contact Name: _____

Phone Number: _____

Email Address: _____

Resolution Title: _____

Background that led to the submission of this resolution:

Ideas for how this issue could be solved:

Anticipated support or opposition from other governmental units?

This issue is of importance to (Check one)

The entire state _____

Only our region _____

Only our district _____

Active MAWD Resolutions

July 1, 2019



FUNDING ISSUES

2018-02 Increase or Remove the \$250k General Fund Tax Levy Limit

MAWD supports legislation to increase or remove the \$250,000 general fund ad valorem tax levy limit set in MN statute 103D.905 subd. 3. If the limit is raised to a new dollar amount, MAWD supports an inflationary adjustment be added to statute.

2017-05 Increase the General Fund Levy Cap for the Middle Fork Crow River Watershed District

MAWD supports the efforts of Middle Fork Crow River Watershed District to draft and advance special legislation affecting a change in its general fund levy cap.

2017-06 Provide Stable Funding for the Flood Damage Reduction (FDR) Program

MAWD support requesting the MN Legislature to provide stable funding for the DNR FDR program. A suggested sustainable level of funding is \$25 million per year for the next 10 years.

2016-03 Tax Law Treatment of Conservation Easements

MAWD pursue a legislative initiative to define “riparian buffer” for purposes of conservation easements in state tax code and to establish an administrative procedure whereby a watershed organization would certify, for purposes of section 273.117, a conservation easement or restriction as meeting the water quantity and quality purposes cited in the tax law and therefore be eligible for a reduction in estimated market value.

2015-02 Road Raises for Cities with Levees

MAWD supports the State of Minnesota providing financial support through the MN DNR Flood Damage Reduction Program to cost share with local, state, and federal road authorities to provide road raises as an additional feature of flood control levee projects.

PERMITTING ISSUES

2018-08 Reinforce Existing Rights to Maintain/Repair 103E Drainage Systems

MAWD supports legislation modeled after House File 2687 and Senate File 2419 of the ninetieth legislature (2017-2018) reinforcing that the DNR cannot restrict existing rights to maintain and repair 103E public drainage systems.

2018-04 Require Watershed District Permits for the DNR

MAWD supports an amendment to the MN Statute § 103D.315, subd. 5, to include the MN Department of Natural Resources as a state agency required to get permits from watershed districts when applicable.

2015-01 Encourage DNR to Permit Storing Water on DNR Land

MAWD should appoint a committee to in turn propose meeting with the DNR to discuss the potential for temporarily storing water on existing wetlands controlled by the DNR in the times of major flood events.

2015-05 Improvements in Process with Permitting Authorities for Water Quality Improvement Projects

MAWD call on all permitting authorities:

1. To identify all regulatory requirements and applicable standards that have been developed, formalized, and codified into applicable laws, statutes, and rules that apply to proposed water quality improvement projects within 30 days of receiving a permit application.
2. To coordinate with permit applicants on proposed water quality improvement projects as part of the technical advisory committee process
3. To consider the development of internal technical advisory/evaluation committees within each authority to review proposed water quality improvement projects
4. To allow permit applicants to address all members of each authority’s organization that are offering comments and concerns on a proposed water quality improvement project early on through the technical advisory committee process, instead of trying to go through one contact person at each authority.

WATER IMPAIRMENTS AND AQUATIC INVASIVE SPECIES

2017-02 Temporary Lake Quarantine Authorization to Control the Spread of AIS

MAWD supports legislation granting to watershed districts, independently or under DNR oversight, the authority, after public hearing and technical findings, to impose a public access quarantine, for a defined period of time in conjunction with determining and instituting an AIS management response to an infestation.

2017-04 Limited Liability for Certified Commercial Salt Applicators

MAWD supports passage and enactment of state law that provides a limited liability exemption to commercial salt applicators and property owners using salt applicators who are certified through the established salt applicator certification program who follow best management practices.

COORDINATED LOCAL AND STATE WATERSHED MANAGEMENT PLANNING

2018-06 Ensure Timely Updates to Wildlife Management Area (WMA) Plans

MAWD supports that Wildlife Management Area (WMA) operation and maintenance plans and/or management plans are either drafted or brought current in a timely fashion, with input from local governmental entities, to ensure their consideration in future One Watershed One Plan efforts.

2017-07 Creation of a Stormwater Reuse Task Force

MAWD pursue legislation requiring creation of a Stormwater Reuse Task Force with membership from Watershed Districts, Cities, Counties, State Agencies and other Stormwater Reuse implementers; and that the Stormwater Reuse Task Force should be charged with developing recommendations that further clarify and/or replace the information in the Water Reuse Report that relates to stormwater reuse best management practices.

2015-07 Review Commitment to Clean Water Council Process for Recommendations to Governor and Legislature on Spending Priorities of the Clean Water Fund

MAWD undertake a review of our commitment to the present Clean Water Council funding recommendation process and make a recommendation to the membership at our 2016 Annual Meeting on our continued participation in that process.

2015-06 Establishment of Minnesota River Basin Commission

MAWD supports the legislative establishment of a MN River Basin Commission to provide effective and efficient proactive comprehensive basin planning; administration; project development; implementation; construction and maintenance or water resource projects and programs of benefit to the MN River Basin with a focus on water quantity and water quality management.

STATE BOARD AND COUNCIL APPOINTMENTS

2018-03 Require Timely Appointments to the BWSR Board

MAWD supports legislation that requires the Governor to make BWSR board appointments within 90 days of a vacancy or board member term expiration.

2018-09 Clean Water Council Appointments

MAWD may ask the representative of the Clean Water Council to resign when they lose their direct association to a watershed district; and that MAWD will recommend to the Governor's office that managers and/or administrators in good standing with MAWD be appointed to the Clean Water Council.

2015-08 Protect the Integrity of the Clean Water Council Appointments

MAWD pursue legislation to protect the integrity of Clean Water Council appointments by supporting legislation similar to the BWSR appointment process for local government appointments, and that any state agency influence on the appointment process for local government representatives or any other specific represented groups on the Clean Water Council not be tolerated.

WATERSHED DISTRICT OPERATIONS

2016-01 Making Human Resources Expertise Available to Districts through MAWD

MAWD research potential options of making human resources expertise available to districts and make every effort to assure districts have access to the expertise they need to effectively manage their organizations.

Archived MAWD Resolutions - July 1, 2019

2013 Approved Resolutions		Reason for Removal and Date of Archiving	
2013-01	Support Funding for Engineer Study on Floodwater Retention Pond for LqP YB WD	Expired via sunset policy	June 2019
2013-02	WD Eligibility under COE's Regional General Permit	Expired via sunset policy	June 2019
2013-03	Restore Consistency and Predictability to WCA & CWA Exempted Activities	Expired via sunset policy	June 2019
2013-04	Consolidate Watershed Boundary Correction	Expired via sunset policy	June 2019
2013-05	Statutory Correction on WD Funds	A more current resolution is on the books (2016-04)	JAN 2019
2013-06	Authorize WD manager participation in electronic meetings	A more current resolution is on the books (2016-05)	JAN 2019
2013-07	Amend Water appropriation law to remove water quality projects	This issue was passed in the environment bill	JAN 2019
2013-08	Support Sales tax exemption for WDs	This issue was passed in the taxes bill	JAN 2019
2014 Approved Resolutions			
2014-01	Repair of Flood Damage in the Prior Lake Outlet Channel	This issue was passed in the bonding bill	JAN 2019
2014-02	Common Carp Mangement, Research, and Removal	A more current resolution is on the books (2018-07)	JAN 2019
2014-03	Development, Adoption and Communication of MAWD Legislative Agenda	Completed. (Core function of the executive director)	JAN 2019
2014-04	Leasing Lands Purchased with State General Obligation Bonds	This passed in the bonding bill	JAN 2019
2014-05	Watershed District Appointments to BWSR	A more current resolution is on the books (2018-03)	JAN 2019
2015 Approved Resolutions			
2015-03	Increase Manager's Per Diem	A more current resolution is on the books (2018-01)	JAN 2019
2015-04	Watershed District Input on MN DNR Buffer Protection Map	Completed.	JAN 2019
2015-09	Proposed Changes to the 2015 Buffers Law	Clarifying buffer legislation was adopted	JAN 2019
2016 Approved Resolutions			
2016-02	Correcting Watershed-Based Wetland Conservation Act Implementation	This passed in environmental finance bill	JAN 2019
2016-04	Amend MN Statute 103D.905 Subd. 9 to Allow a Project Tax for All Types of Grants	Passed 2019 Legislative Session	June 2019
2016-05	WD Manager Meeting Participation via Electronic Means Outside WD Limits	Resolved via Advisory Opinion 18019	June 2019
2016-06	Modify Levy authority for non-metro WDs/Increase levy authority	A more current resolution is on the books (2018-02)	JAN 2019
2016-07	Appropriation for Buffer Enforcement for WD/Counties	This passed in the environmental finance bill	JAN 2019
2017 Approved Resolutions			
2017-01	State Watershed Program Coordination with Local Watershed Implementation	Passed 2019 Legislative Session	June 2019
2017-03	Conservation Reserve Program (CRP) Support in the 2018 Federal Farm Bill	Done - Farm Bill passed	June 2019
2018 Approved Resolutions			
2018-01	Allow an Increase to Manager Compensation	Passed 2019 Legislative Session	June 2019
2018-05	Adjust Watershed District Statutory Borrowing Limit	Resolved	June 2019
2018-07	Remove impediments to Common Carp Removal in Lakes	Passed 2019 Legislative Session	June 2019



Bassett Creek Watershed Management Commission

MEMO

Date: July 10, 2019
From: Laura Jester, Administrator
To: BCWMC Commissioners
RE: **Administrator's Report**

Aside from this month's agenda items, the Commission Engineers, city staff, committee members, and I continue to work on the following Commission projects and issues.

CIP Projects (more resources at <http://www.bassettcreekwmo.org/projects>.)

2019 Medicine Lake Road and Winnetka Avenue Area Long Term Flood Mitigation Plan Implementation Phase I: DeCola Ponds B & C Improvement Project (BC-2, BC-3 & BC-8) Golden Valley: A feasibility study for this project was completed in May 2018 after months of study, development of concepts and input from residents at two public open houses. At the May 2018 meeting, the Commission approved Concept 3 and set a maximum 2019 levy. Also in May 2018, the Minnesota Legislature passed the bonding bill and the MDNR has since committed \$2.3M for the project. The Hennepin County Board approved a maximum 2019 levy request at their meeting in July 2018. A BCWMC public hearing on this project was held on August 16, 2018 with no comments being received. Also at that meeting the Commission officially ordered the project and entered an agreement with the City of Golden Valley to design and construct the project. In September 2018, the City of Golden Valley approved the agreement with the BCWMC. The [Sun Post](#) ran an article on this project October 2018. Another public open house and presentation of 50% designs was held February 6, 2019. An EAW report was completed and available for public review and comment December 17 – January 16, 2019. At their meeting in February 2019, the Commission approved the 50% design plans. Another public open house was held April 10th and a public hearing on the water level drawdown was held April 16th. 90% Design Plans were approved at the April Commission meeting. The project is currently out for construction bids. It was determined a Phase 1 investigation of the site is not required. Dewatering and temporary berm construction is expected to happen September 2 through September 15 and tree removal can begin on October. Remaining construction will happen over the winter with restoration in the late spring/early summer 2020. Construction bid opening was scheduled for June 26th. Project website: <http://www.bassettcreekwmo.org/index.php?cID=433>.

2020 Bryn Mawr Meadows Water Quality Improvement Project (BC-5), Minneapolis (no change since May): A feasibility study by the Commission Engineer began last fall and included wetland delineations, soil borings, public open houses held in conjunction with MPRB's Bryn Mawr Meadows Park improvement project, and input from MPRB's staff and design consultants. At their meeting in April, the Commission approved a TAC and staff recommendation to move this project from implementation in 2019 to design in 2020 and construction in 2021 to better coincide with the MPRB's planning and implementation of significant improvements and redevelopment Bryn Mawr Meadows Park where the project will be located. A draft feasibility study was presented at the October meeting. At direction of the Commission, staff discussed Penn Pond function and maintenance with MnDOT to better understand treatment options. The final feasibility study was approved at the January 2019 Commission meeting. Staff recently discussed the maintenance of Penn Pond with MnDOT again and received written confirmation that pond maintenance will occur prior to the park's reconstruction project with coordination among the BCWMC, MPRB, and MnDOT. Project website: <http://www.bassettcreekwmo.org/projects/all-projects/bryn-mawr-meadows-water-quality-improvement-project>

2020 Jevne Park Stormwater Improvement Project (ML-21) Medicine Lake: At their meeting in July 2018, the Commission approved a proposal from the Commission Engineer to prepare a feasibility study for this project. The study got underway last fall and the city's project team met on multiple occasions with the Administrator and Commission Engineer. The Administrator and Engineer also presented the draft feasibility study to the Medicine Lake City Council on February 4, 2019 and a public open house was held on February 28th. The feasibility study was approved at the April Commission meeting with intent to move forward with option 1. The city's project team is continuing to assess the project and understand its implications on city finances, infrastructure, and future management. The city is planning to seek proposals from select engineering firms for project design and construction. Project webpage: <http://www.bassettcreekwmo.org/index.php?CID=467>.

2019 Westwood Lake Water Quality Improvement Project (WST-2) St. Louis Park: At their meeting in September 2017, the Commission approved a proposal from the Commission Engineer to complete a feasibility study for this project. The project will be completed in conjunction with the Westwood Hills Nature Center reconstruction project. After months of study, several meetings with city consultants and nature center staff, and a public open house, the Commission approved Concept 3 (linear water feature) and set a maximum 2019 levy at their May meeting. 50% designs were approved at the July meeting and 90% design plans were approved at the August meeting. The Hennepin County Board approved a maximum 2019 levy request at their meeting in July. A BCWMC public hearing on this project was held on August 16th with no comments being received. At that meeting the Commission officially ordered the project and entered an agreement with the City of St. Louis Park to design and construct the project and directed the Education Committee to assist with development of a BCWMC educational sign for inside the nature center. The draft sign was presented at the October meeting and was finalized over the winter. Construction on the new building started this spring. The Sun Sailor printed [an article](#) on the project in October. Project website: <http://www.bassettcreekwmo.org/projects/all-projects/westwood-lake-water-quality-improvement-project> The educational sign about the BCWMC and water quality is undergoing final revisions. The sign related to the bog is shown here (with a few minor revisions to be made).

DRAFT

WHAT IS A PEAT BOG?

Bogs are a special type of wetland found on saturated, acid peat soils. They support a unique collection of trees, low shrubs and herbs, growing on a mat of sphagnum moss. In Minnesota, most bogs are found north of the twin cities.

You can find a bog not too far from here at Theodore Wirth Park in Minneapolis.

HOW IS A BOG CREATED?

Bogs originate on a floating mat of sedges usually at the edge of a lake that becomes colonized by sphagnum mosses. Over thousands of years, the mat thickens and becomes more stable. It becomes populated by evergreen shrubs of the heath family (Ericaceae). Eventually, tamarack and black spruce trees can be supported by the mat. Peat accumulates when plant material does not fully decay because of cold, acidic and low-oxygen conditions.

In peat bogs the annual rate of biomass production is greater than the rate of decomposition. This makes bogs very efficient at absorbing carbon dioxide from the atmosphere.

HOME TO THESE SPECIES

SPHAGNUM MOSS
Sphagnum mosses are the characteristic species of bogs. They play an important role in keeping the bog environment acidic by their production of organic acids. Sphagnum mosses are commonly known as peat moss. Approximately 20 species of Sphagnum are found in Minnesota.

PITCHER PLANTS
Peat bogs are low in nutrients, so only certain plants thrive there. Pitcher plants are extremely well-adapted to the environment of peat bogs. Pitcher plants are carnivorous. They "eat" insects that get trapped in the water held by their leaves. Dissolving (rather than eating) the insects is how they get nutrients to survive.

TAMARACK TREES
Tamaracks are hardy, cold-tolerant deciduous conifers. The needles turn golden in autumn, drop off, and regrow in the spring. Tamarack is the only conifer in Minnesota that sheds all its leaves (needles) each fall. Both tamaracks and black spruce trees are found in fully developed peat bogs.

WOODLAND CARIBOU
Woodland Caribou are a threatened subspecies of reindeer that primarily live in bogs, marshes, lakes and river regions. The majority live in Canada in unbroken tracts of boreal forest. There have been no reported sightings in Minnesota since the 1980s.

Sponsored by

2018 Bassett Creek Park Pond Phase I Dredging Project: Winnetka Pond, Crystal (BCP-2) (No change since June): The final feasibility study for this project was approved at the May 2017 meeting and is available on the project page online at <http://www.bassettcreekwmo.org/index.php?cID=403>. At the September 2017 meeting, the Commission held a public hearing on the project and adopted a resolution officially ordering the project, certifying costs to Hennepin County, and entering an agreement with the City of Crystal for design and construction. Hennepin County approved the 2018 final levy request at their meeting in November 2017. The City of Crystal hired Barr Engineering to design the project. At their meeting in April, the Commission approved 50% design plans. A public open house on the project was held May 24th where four residents asked questions, provided comments, and expressed support. 90% design plans were approved at the June 2018 meeting. An Environmental Assessment Worksheet was recently approved and a construction company was awarded the contract. A pre-construction meeting was held December 14th and construction began in January. A large area of contamination was discovered during excavation in February 2019. At their meeting February 21, 2019 the Commission approved additional funding for this project in order to properly dispose of the contamination and continue building the project as designed. An amended agreement with the city of Crystal was approved at the March Commission meeting. Pond dredging is complete; the contractor completed storm sewer work at the site and installed the outlet trash rack. The City executed a contract with Applied Ecological Services for buffer establishment which recently got underway.

2017 Plymouth Creek Restoration Project, Annapolis Lane to 2,500 feet Upstream (2017CR-P) (No change since Feb): All project documents including the feasibility study and 90% design plans are available online at <http://www.bassettcreekwmo.org/index.php?cID=284>. The BCWMC executed agreements with the BWSR for a \$400,000 Clean Water Fund grant and with Hennepin County for a \$50,000 Opportunity Grant and a subgrant agreement with the City was executed. Project design was completed by the city's contractor, Wenck Associates, with 60% and 90% design plans approved by the Commission at the April and August 2017 meetings, respectively. Plymouth City Council awarded a construction contract in early December 2017 and construction got underway on December 11, 2017. Streambank restoration work is complete in all three reaches. Vegetation is currently being established. Requests for reimbursement to the city were approved at the June and July BCWMC meetings. I recently submitted a Clean Water Fund grant interim report.

2017 Main Stem Bassett Creek Streambank Erosion Repair Project (2017CR-M) (No change since April): The feasibility study for this project was approved at the April Commission meeting and the final document is available on the project page at: <http://www.bassettcreekwmo.org/index.php?cID=281>. A Response Action Plan to address contaminated soils in the project area was completed by Barr Engineering with funding from Hennepin County and was reviewed and approved by the MPCA. The Commission was awarded an Environmental Response Fund grant from Hennepin County for \$150,300 and a grant agreement is in the process of being signed by the county. A subgrant agreement with the City will be developed. The City hired Barr Engineering to design and construct the project. Fifty-percent and 90% designs were approved at the August and October Commission meetings, respectively. In September 2017, design plans were presented by Commission and city staff to the Harrison Neighborhood Association's Glenwood Revitalization Team committee and through a public open house on the project. Bidding for construction is complete and a pre-construction meeting was recently held. Construction was to begin summer of 2018 but will be delayed until summer 2019 due to the unanticipated need for a field based cultural and historical survey of the project area required by the Army Corps of Engineers and the preference for Pioneer Paper (a significant landowner and access grantor) for a spring/summer construction window. The cultural and historical survey fieldwork is complete and a final report was sent to the State Historical Preservation Office (SHPO) in February. Construction will begin this summer. The contractor (Sunram Construction) and Barr Engineering staff will meet with landowners regarding access in the coming weeks.

2014 Schaper Pond Diversion Project, Golden Valley (SL-3): Repairs to the baffle structure were made in 2017 after anchor weights pulled away from the bottom of the pond and some vandalism occurred in 2016.

The city continues to monitor the baffle and check the anchors, as needed. Vegetation around the pond was planted in 2016 and a final inspection of the vegetation was completed last fall. Once final vegetation has been completed, erosion control will be pulled and the contract will be closed. The Commission Engineer began the Schaper Pond Effectiveness Monitoring Project last summer and presented results and recommendations at the May 2018 meeting. Additional effectiveness monitoring is being performed this summer. At the July meeting the Commission Engineer reported that over 200 carp were discovered in the pond during a recent carp survey. At the September meeting the Commission approved the Engineer's recommendation to perform a more in-depth survey of carp including transmitters to learn where and when carp are moving through the system. A Federal 319 grant for management of carp in relation to Schaper Pond and Sweeney Lake was recently approved by the MPCA. Funding should be available early next year.

2014 Twin Lake In-lake Alum Treatment, Golden Valley (TW-2): (No change since June 2018) At their March 2015 meeting, the Commission approved the project specifications and directed the city to finalize specifications and solicit bids for the project. The contract was awarded to HAB Aquatic Solutions. The alum treatment spanned two days: May 18- 19, 2015 with 15,070 gallons being applied. Water temperatures and water pH stayed within the desired ranges for the treatment. Early transparency data from before and after the treatment indicates a change in Secchi depth from 1.2 meters before the treatment to 4.8 meters on May 20th. There were no complaints or comments from residents during or since the treatment. Water monitoring continues to determine if and when a second alum treatment is necessary. Lake monitoring results from 2017 were presented at the June 2018 meeting. Commissioners agreed with staff recommendations to keep the CIP funding remaining for this project as a 2nd treatment may be needed in the future.

2013 Four Season Area Water Quality Project/Agora Development (NL-2): At their meeting in December 2016, the Commission took action to contribute up to \$830,000 of Four Seasons CIP funds for stormwater management at the Agora development on the old Four Seasons Mall location. At their February 2017 meeting the Commission approved an agreement with Rock Hill Management (RHM) and an agreement with the City of Plymouth allowing the developer access to a city-owned parcel to construct a wetland restoration project and to ensure ongoing maintenance of the CIP project components. At the August 2017 meeting, the Commission approved the 90% design plans for the CIP portion of the project. At the April 2018 meeting, Commissioner Prom notified the Commission that RHM recently disbanded its efforts to purchase the property for redevelopment. In spring 2019, a new potential buyer/developer is preparing plans for redevelopment at the site. Alternate Commissioner Cesnik and I attended the neighborhood meeting and briefly discussed opportunities for funding above and beyond stormwater management features to improve water quality leaving the area and entering Northwood Lake. The Commission Engineer and I met with city staff and the redevelopment team to review potential "above and beyond" stormwater management techniques.

Other Work

CIP Project Work and Technical Assistance

- Prepared brief presentation on BCWMC and its biological monitoring program; gave presentation at Met Council's Water Monitoring Technical Group meeting at Wirth Park Chalet
- Prepared agenda and participated in TAC meeting; prepared TAC recommendations memo
- Picked up CAMP samples
- Discussed Jevne Park CIP Project timeline, agreement, responsibilities, and feasibility study with Medicine Lake project team and the city's engineering consultant

Administration and Education

- Reviewed and edited July education press release
- Submitted 2020 proposed operating budget to cities for comment by August 1st
- Coordinated and attended watershed tour and 50th anniversary event including development and printing of tour handout, coordinating tour speakers, printing nametags, gathering and setting up historical and education displays, picking up and dropping off compost bins, corresponding with venue and bus operator, sending follow up email to participants
- Invoiced project proposer for Ridgedale Active Adults Project for review fees about \$5,000

Hennepin County Aquatic Invasive Species (AIS) Early Detection Training

Tuesday July 23, 2019

6:00 – 8:00 p.m.

Plymouth Library in the Plymouth Room
(15700 36th Ave. N, Plymouth, MN 55446)

Hosted by: Bassett Creek Watershed

FREE EVENT; REGISTRATION REQUIRED at: <http://bit.ly/AISclass>

Hennepin County needs your help in finding and preventing the spread of AIS. As aquatic invasive species (AIS) detectors, you will play an important role in preventing the spread of aquatic invasive species.

Who should attend? Lakeshore homeowners, lake and stream users, anglers, interested citizens

About the training

This training will prepare you to look for AIS in lakes or streams you visit. Training will focus on early detection of AIS where management or eradication options may still be available. This interactive training will consist of a presentation on AIS that are not widespread in the area but could be introduced, what to do if you find an AIS, and hands on identification. Following the presentation, participants may practice their identification skills using live, resin encased, and pressed samples of AIS plants and animals.



Example species that will be covered:

Flowering rush
Zebra mussels
Brazilian waterweed

Starry stonewort
Rusty crayfish
Parrot Feather

Brittle naiad
Carolina fanwort
Mystery snails



Resources

Participants will receive a copy of the “Aquatic Invasive Species Early Detectors Field Guide” and additional identification resources.

For more information about the program, contact Carolyn Dindorf (Fortin Consulting) 763-478-3606, carolyn@fortinconsulting.com or Laura Jester (BCWMC) at 952-270-1990 or laura.jester@keystonewaters.com.



Registration

There is **no fee** to attend the training. Please register by 7/21/19. Space is limited.



This training is sponsored by Hennepin County
with funding from the Local Aquatic Invasive
Species Prevention Aid Program.