

Riley-Purgatory-Bluff Creek Watershed District
Board of Managers Workshop and Regular Meeting

Wednesday, November 1, 2017
5:30pm Board Workshop
7:00pm Regular Board Meeting
DISTRICT OFFICE
18681 Lake Drive East
Chanhassen

Agenda

1. Call to Order
2. **5:30pm Board workshop:**
 - a. 10 year plan
 - b. Rules
3. **7:00pm Approval of the Agenda** (Additions/Corrections/Deletion) **Action**
4. Levy/Budget Public Comment **Information**
5. Matters of general public interest **Information**

Welcome to the Board Meeting. Anyone may address the Board on any matter of interest in the watershed. Speakers will be acknowledged by the President; please come to the podium, state your name and address for the record. Please limit your comments to no more than three minutes. Additional comments may be submitted in writing. Generally, the Board of Managers will not take official action on items discussed at this time, but may refer the matter to staff for a future report or direct that the matter be scheduled on a future agenda.

6. **Reading and approval of minutes** **Action**
Board of Manager Meeting, October 4, 2017
7. **Consent Agenda**
(The consent agenda is considered as one item of business. It consists of routine administrative items or items not requiring discussion. Any manager may remove an item from the consent agenda for action.)
 - a. Accept Staff Report
 - b. Accept Engineer's Report (with attached Inspection Report)
 - c. Approve Permit 2017-069: Scheels with staff recommendations
8. Citizen Advisory Committee **Information**

9. Action Items

Action

- a. Accept September Treasurer's Report
- b. Approve Paying of the Bills
- c. Chanhassen Comprehensive Plan
- d. Approve Permit 2017-039: Mission Hills Senior Living with staff recommendation
- e. Approve 10 Year Plan for release
- f. Award Scenic Heights School of Forest Restoration
- g. Approve release of 2017 Annual Communication
- h. MAWD
 - i. Resolutions

10. Discussion Items

Information

- a. Upcoming Meeting

11. Upcoming Events

Information

- Cycle the Creek, October 28, 10 am - noon. 18681 Lake Drive East, Chanhassen.
- Citizen Advisory Committee monthly meeting, November 20, 6:30pm, 18681 Lake Drive East, Chanhassen
- Minnesota Annual Water District Annual Meeting, November 29- December 1, Arrowwood Resort, Alexandria
- Regular Meeting, December 6, 7:00 pm, 18681 Lake Drive East, Chanhassen
- Community Celebration of volunteers and friends, December 14, 6:30pm, Bent Creek Golf Course

Budget Description	2015 LEVY	Actual Expenditures 2015	2016 LEVY	Actual Expenditures 2016	2017 LEVY	2017 expenditures as of September 30, 2017	Proposed 2018 LEVY
LEVY							
REVENUES							
Plan Implementation Levy	\$ 2,431,500.00	\$ 2,417,053.77	\$ 2,481,500.00	\$ 2,481,500.00	\$ 2,859,000.00	\$ 2,859,000.00	\$ 3,420,000.00
Permit	15,000	20,100	15,000	10,540	15,000	19,300	20,000
Grant Income		84,934.01					
Data Collection Income		8,830.50		1,000			
Other Income		535.17		18.83		3,367.4	
TOTAL REVENUE	\$ 2,446,500.00	\$ 2,496,500.00	\$ 2,496,500.00	\$ 2,493,058.83	\$ 2,874,000.00	\$ 2,911,974.00	\$ 3,440,000.00
EXPENDITURES							
Administration							
1 Accounting and Audit	\$ 32,500.00	\$ 31,134.72	\$ 34,000.00	\$ 25,559.79	\$ 39,500.00	\$ 32,718.30	\$ 40,000.00
2 Advisory Committees	4,500.00	-	4,500.00	147.45	4,000.00	3,665.94	4,000.00
3 Insurance and bonds	10,000.00	3,191.64	10,000.00	7,649.28	12,000.00	63,428.70	12,000.00
4 Engineering Services	96,000.00	100,824.23	103,000.00	3,358.62	103,000.00	7,111.96	103,000.00
5 Legal Services	130,000.00	125,161.49	75,000.00	58,343.88	75,000.00	54,940.11	75,000.00
6 Manager Compensation	18,500.00	12,394.36	18,500.00	7,180.05	18,500.00	9,104.00	19,000.00
7 Dues and Publications	3,500.00	5,275.00	3,500.00	4,000.00	4,000.00	6,734.00	8,000.00
8 Office Cost	79,500.00	68,161.04	67,500.00	46,851.83	95,000.00	126,651.86	100,000.00
9 Permit Review and Inspection	150,000.00	155,420.03	100,000.00	122,299.66	90,000.00	153,957.40	90,000.00
10 Recording Services	15,000.00	11,975.49	15,000.00	4,305.51	15,000.00	10,304.65	15,000.00
11 Staff Cost	248,500.00	231,359.64	265,500.00	154,537.56	450,000.00	281,213.79	434,000.00
Subtotal	\$ 788,000.00	\$ 744,897.64	\$ 696,500.00	\$ 434,233.63	\$ 910,000.00	\$ 749,830.71	\$ 900,000.00
Programs and Projects							
District Wide							
12 10-year Management Plan			\$ 100,000.00	\$ 48,813.28	\$ 75,000.00	\$ 91,669.47	\$ 5,000.00
13 AIS Inspection and early response	\$ 50,000.00	\$ 53,364.43	\$ 75,000.00	\$ 61,563.71	\$ 75,000.00	\$ 18,572.30	\$ 75,000.00
14 Buffer Demonstration Site	15,000.00	-	-	-	-	-	-
15 Cost-share	130,000.00	90,549.93	150,000.00	63,983.08	200,000.00	28,178.05	200,000.00
16 Creek Restoration Action Strategy	-	36,467.55	-	-	-	-	-
17 Creek Restoration Action Strategies Phase 2	-	-	25,000.00	-	20,000.00	11,487.00	20,000.00
18 Data Collection and Monitoring	170,000.00	172,636.26	180,000.00	109,171.73	180,000.00	101,707.13	180,000.00
19 District Groundwater Assessment	-	-	-	-	30,000.00	27,783.00	-
20 District Wide Floodplain Evaluation - Atlas 14/SMM model	110,000.00	117,996.50	55,000.00	73,243.00	30,000.00	2,285.45	30,000.00
21 Education and Outreach	65,000.00	41,550.66	114,000.00	43,412.78	114,000.00	54,564.92	115,000.00
22 Plant Restoration - U of M	75,000.00	43,212.04	75,000.00	37,746.04	75,000.00	27,931.26	40,000.00
23 Repair and Maintenance Fund *	-	-	-	-	100,000.00	-	-
24 Survey and Analysis Fund *	-	-	-	24,165.26	-	-	-
25 Community Resilience MPCA	-	-	-	-	-	28,426.55	-
26 Wetland Management	-	-	-	-	-	-	150,000.00
27 Groundwater Conservation	-	-	-	-	-	-	130,000.00
28 Lake Vegetation Implementation	-	-	-	-	-	-	75,000.00
29 Opportunity Project	-	-	-	-	-	-	100,000.00
30 TMDL - MPCA	-	-	30,000.00	1,165.45	10,000.00	1,028.00	10,000.00
Subtotal	\$ 615,000.00	\$ 555,777.37	\$ 804,000.00	\$ 458,264.33	\$ 909,000.00	\$ 393,633.13	\$ 1,130,000.00
Bluff Creek							
31 Bluff Creek Fish Passage and Creek Stabilization #	-	19,466.54	-	3,633.00	-	11,168.58	-
32 Bluff Creek Tributary	-	-	-	-	-	52,502.56	-
33 Chanhasen High School *	-	-	5,000.00	-	50,000.00	96,312.90	75,000.00
Subtotal	\$ -	\$ 19,466.54	\$ 5,000.00	\$ 3,633.00	\$ 50,000.00	\$ 159,984.04	\$ 75,000.00
Riley Creek							
34 Chanhasen Town Center**	15,000.00	11,286.50	-	6,354.50	-	12,605.56	-
35 CLP Treatment - Lake Susan (WQ)	12,000.00	4,905.60	10,000.00	2,138.85	10,000.00	3,074.30	-
36 CLP Treatment - Riley (WQ)	-	-	10,000.00	3,850.00	10,000.00	7,173.37	-
37 Lake Lucy Iron Enhanced #	50,000.00	-	400,000.00	62.32	-	-	-
38 Lake Lucy Plant Management Plan	-	466.81	-	-	-	-	-
39 Lake Lucy Spent Lime	-	3,152.16	-	-	-	-	-
40 Lake Riley - EWM Treatment	10,000.00	3,430.72	10,000.00	4,819.00	25,000.00	22,325.20	-
41 Lake Riley - Alum Treatment 1st dose *	200,000.00	19,375.53	-	60,000.00	215,289.49	1,451.05	-
42 Lake Susan Alum Feasibility	-	-	-	11,005.32	-	-	-
43 Lake Susan Improvement Phase 1 *	50,000.00	49,538.10	-	191,522.47	-	-	-
44 Lake Susan Water Quality Improvement Phase 2 **	150,000.00	9,331.68	-	1,301.30	-	29,746.97	80,000.00
45 Rice Marsh Lake Alum Feasibility Phase 1	-	-	11,500.00	11,005.52	-	-	-
46 Rice Marsh Lake Paleolimnology	-	19,563.00	-	-	-	-	-
47 Rice Marsh Lake Water Quality Improvement - Feasibility Phase 1	-	-	-	-	20,000.00	-	-
48 Rice Marsh Lake Winter Fish Kill Prevention (WQ)	15,000.00	1,656.41	15,000.00	732.02	10,000.00	414.45	-
49 Rice Marsh Lake/Lake Riley UAA	-	79,499.09	-	-	-	-	-
50 Rice Marsh Lake in-lake phosphorus load	-	-	-	-	-	-	150,000.00
51 Riley Creek Restoration (Reach E and D3) **	-	-	265,000.00	75,787.18	600,000.00	30,368.60	400,000.00
Subtotal	\$ 502,000.00	\$ 202,205.60	\$ 793,000.00	\$ 523,867.97	\$ 675,000.00	\$ 107,159.50	\$ 630,000.00
Purgatory Creek							
52 Fire Station 2 (Eden Prairie)	-	-	-	-	20,000.00	17,778.74	-
53 Purgatory Creek Rec Area - Berm/retention area - feasibility/design	-	-	-	-	50,000.00	-	-
54 Hyland Lake UAA	-	-	-	-	20,000.00	18,250.50	-
55 Lotus Lake in-lake phosphorus load control	-	-	-	-	20,000.00	806.10	345,000.00
56 Mitchell Lake Plant Management (CLP - WQ)	15,000.00	3,482.81	15,000.00	3,905.25	15,000.00	2,261.83	-
57 Purgatory Creek at 101*	250,000.00	78,840.28	-	27,057.53	-	38,318.00	-
58 Purgatory Creek Lakes UAA *	200,000.00	94,836.50	50,000.00	147,192.50	-	-	-
59 Red Rock Lake Plant Management (CLP - WQ)	15,000.00	12,382.81	15,000.00	7,097.78	15,000.00	4,064.89	-
60 Silver Lake Restoration - Feasibility Phase 1	-	-	-	-	20,000.00	793.50	-
61 Silver Lake Paleolimnology	22,000.00	19,125.00	-	2,188.00	-	-	-
62 Scenic Heights	-	-	-	-	-	32,461.42	-
63 Hyland Lake in-lake phosphorus load control	-	-	-	-	-	-	20,000.00
64 Duck Lake watershed load	-	-	-	-	-	-	220,000.00
65 Staring Lake - Plant Management - EWM Treatment and CLP	8,000.00	7,968.00	-	-	20,000.00	7,949.98	-
66 Subtotal	\$ 510,000.00	\$ 216,635.40	\$ 80,000.00	\$ 187,441.06	\$ 180,000.00	\$ 122,684.96	\$ 585,000.00
Reserve/Contingency							
67 Reserve	16,500.00	-	108,000.00	-	135,000.00	-	100,000.00
TOTAL EXPENDITURE	\$ 2,431,500.00	\$ 2,486,500.00	\$ 2,486,500.00	\$ 1,607,439.99	\$ 2,859,000.00	\$ 2,859,000.00	\$ 3,420,000.00
EXCESS REVENUES OVER (UNDER) EXPENDITURES	\$ 15,000.00		\$ 10,000.00		\$ 15,000.00		\$ 20,000.00
ESTIMATED FUND BALANCE BEGINNING							\$ -
ESTIMATED FUND BALANCE ENDING							\$ -

* Denotes multi-year projects and programs - please see budget description sheet for further details

Committed funds from past levies to Multi-year Projects or Programs \$ 2,416,450.17

District funds were already allocated in the past and are expected to be used for their respective project

BOARD WORKSHOP: August 2, 2017
PUBLIC HEARING: September 6, 2017
NOVEMBER BOARD MEETING: November 1, 2017

County	Payable 2017 Taxable Net Tax Capacity	Net Tax Capacity Percent Distribution	Apportioned Payable 2018 Levy
Carver County	\$ 31,491,105.00	23.0518%	\$ 788,371.56
Hennepin County	\$ 105,119,295.00	76.9482%	\$ 2,631,628.44
Watershed	\$ 136,610,400.00	100.0000%	N/A

Aquatic Invasive Species	\$ 150,000.00
Cost-share/Grants	\$ 200,000.00
Education and Outreach	\$ 115,000.00
Monitoring	\$ 180,000.00
Planning and Administration	\$ 815,000.00
Projects	\$ 1,500,000.00
Research and Studies	\$ 270,000.00
Permitting	\$ 90,000.00
Reserve	\$ 100,000.00
	<u>\$ 3,420,000.00</u>

Budget Description Number	Item & Description	Budget Amount	Change from '17 increase (decrease)
1	Accounting and Audit Preparation of the District's annual audit, provide monthly accounting services.	\$ 40,000.00	\$ 500.00
2	Advisory Committees Budget to cover Miscellaneous expenses related to the duties and activities of District advisory Committees.	\$ 4,000.00	\$ -
3	Insurance and bonds District general liability, workers compensation, property/casualty, public official liability insurance	\$ 12,000.00	\$ -
4	Engineering Services Oversight of all District Engineerins activities. Engineering attendance at meetings of the District - covers board and related project meetings, mini case studies, assisting in District water management planning activities, and other matters requiring District Engineer.	\$ 103,000.00	\$ -
5	Legal Services Legal advice at meetings, research on various issues for Board consideration, preparation and publication of legal notices, preparation of Board resolutions, and other matters requiring legal counsel.	\$ 75,000.00	\$ -
6	Manager Compensation Manager per diems for regular and special meeting attendance. Manager expenses incurred in the performance of official manager duties, such as attendance at conferences and meetings and related expenses.	\$ 19,000.00	\$ 500.00
7	Dues and Publications Dues for appropriate organization memberships (MAWD, League of Minnesota Cities, etc.) and for purchase of necessary publications and reference materials.	\$ 8,000.00	\$ -
8	Office Cost Rent, Office supplies, utilities, purchase additional equipment, janitorial expenses and office expansion.	\$ 100,000.00	\$ 5,000.00
9	Permit Review and Inspection Provides for engineering assistance in review of permit applications, clarifying problems with the developer, meet developer on-site, coordinate permit issues with communities, counties, and other regulatory bodies. Inspects projects.	\$ 90,000.00	\$ -
10	Recording Services Recording Services for the District.	\$ 15,000.00	\$ -
11	Staff Cost Includes salary, taxes, insurance, benefits and employee expenses (mileage, parking,professional development and supplies) for existing full time staff as well as interns). This budget includes an allowance for salary increases and benefit costs.	\$ 434,000.00	\$ (16,000.00)
12	10-year Management Plan Develop District next 10-year Plan. This is a multi-year project with an anticipated cost of \$175,000.	\$ 5,000.00	\$ (70,000.00)
13	AIS Inspection and early response Support AIS inspections in Chanhassen and Eden Prairie. Support early rapid response to new infestation.	\$ 75,000.00	\$ -
14	Buffer Demonstration Site This project was to be implemented in 2015. However, our potential demonstration site fell through and the project did not move forward.	\$ -	\$ -
15	Cost-share	\$ 200,000.00	\$ -

Provides technical assistance and funds for our cost-share program.

16	Creek Restoration Action Strategy Developed a prioritization scheme across all three watershed.	\$ -	\$ -	-
17	Creek Restoration Action Strategies Phase 2 Provide funds to determine causes and solution to the deterioration of the creek reach.	\$ 20,000.00	\$ -	-
18	Data Collection and Monitoring Monitor and collect water quality data as identifies in our lakes and creeks report as well as collecting data for potential CIP sites and monitoring effectiveness of implemented CIPs.	\$ 180,000.00	\$ -	-
19	District Groundwater Assessment Assess curent state of groundwater located in the District. Identify needs and coordinate accordingly. Project to be completed Fall 2017.	\$ -	\$ (30,000.00)	
20	District Wide Floodplain Evaluation - Atlas 14/SMM model Maintain and update SWMM model.	\$ 30,000.00	\$ -	-
21	Education and Outreach Develop education materials to raise awareness. Fund master water stewards program. Support programs that engage our community from youth to local decision makers. Maintain and enhance website.	\$ 115,000.00	\$ 1,000.00	
22	Plant Restoration - U of M Partner with the University of Minnesota to implement plan restoration measures on Lake Susan, Lake Riley, Mitchell Lake and Staring Lake.	\$ 40,000.00	\$ (35,000.00)	
23	Repair and Maintenance Fund * Develop and implement grant program that LGU can use to repair and maintain stormwater infrastructure. <i>This is a multi year program that has a balance of \$102,005. Next levying is expected in 2020.</i>	\$ -	\$ (100,000.00)	
24	Survey and Analysis Fund * Funds in this category are funds dedicated in helping the District survey its resources as well as for analysis <i>This is a multi year program that has a balance of \$13,837.</i>	\$ -	\$ -	-
25	Community Resilience MPCA The Riley Purgatory Bluff Creek Watershed District, in partnership with the Nine Mile Creek Watershed District were recipients of grant from MPCA to demonstrate a public planning process that educates and engages communities on the importance of climate change, current and anticipated impacts, and the need to build community resilience through planning. No additional expenditures are planned for 2018. Work is anticipated to end in 2017. <i>Project has expensed \$45,667.18 out of the \$47,000.</i>	\$ -	\$ -	-
26	Wetland Management This line item was created based on the public input for the next 10 year plan. Members of the community identified the need to protect and restore wetlands. Funds will be used to help us go through the wetland management scheme and projects.	\$ 150,000.00	\$ 150,000.00	
27	Groundwater Conservation Groundwater Conservation as also identified as part of our 10 year plan process. The funds will be used in for project and studies.	\$ 130,000.00	\$ -	-
28	Lake Vegetation Implementation Funds in this category are to cover expenses for approved lake vegetation plans.	\$ 75,000.00	\$ 75,000.00	

29	Opportunity Project	\$ 100,000.00	\$ 100,000.00
	Funds in this category are for new opportunity projects that were not identified in the 10 year plan CIP program.		
30	TMDL - MPCA	\$ 10,000.00	\$ -
	Assist and provide input in the TMDL process.		
31	Bluff Creek Fish Passage and Creek Stabilization #	\$ -	\$ -
	Implement creek stabilization and fish passage to address impairment on Bluff Creek. <i>This project was not implemented as we lacked support from one private property owner.</i>		
32	Bluff Creek Tributary	\$ -	\$ -
	No additional funds needed. Project is anticipated to be completed winter 2017-2018 <i>This project is made in partnership with the City of Chanhassen.</i>		
33	Chanhassen High School *	\$ 75,000.00	\$ 25,000.00
	Implement capture and reuse project at Chanhassen High School. <i>This is a multi-year project that is funded by a Stormwater Metropolitan Council Grant (\$200,000) with a District match of \$50,000. Additional funds are needed for this project in order to implement as bids came back higher than expected. The District is levying an additional \$75,000. Chanhassen will be contributing as well.</i>		
34	Chanhassen Town Center*~	\$ -	\$ -
	Implement a study to identify opportunities to implement water quality improvement project in Chanhassen town center. <i>This is a multi-year project funded by the Clean Water Legacy Funds (\$48,000) and with a District match of \$12,000. The City of Chanhassen is a partner on this project. No additional funds are being levied for this project. The project is now completed. Lifetime costs \$35,196.56. \$27,803.44 under budget.</i>		
35	CLP Treatment - Lake Susan (WQ)	\$ -	\$ (10,000.00)
	Implement curlyleaf pondweed treatment on Lake Susan and develop new 5-year plant management plan if identified as necessary. Moved to line item 28.		
36	CLP Treatment - Riley (WQ)	\$ -	\$ (10,000.00)
	Implement curlyleaf pondweed treatment on Lake Riley and develop new 5-year plant management plan if identified as necessary. Moved to line item 28.		
37	Lake Lucy Iron Enhanced #	\$ -	\$ -
	No additional funds needed at this time. Working with HOA to implement water quality improvement project on their outlot along Lake Lucy Road. Project canceled due to lack of support from HOA.		
38	Lake Lucy Plant Management Plan	\$ -	\$ -
	Project complete. No additional funds are needed.		
39	Lake Lucy Spent Lime	\$ -	\$ -
	Project was canceled due to lack of support from homeowners - no additional funds are needed at this time.		
40	Lake Riley - EWM Treatment	\$ -	\$ (25,000.00)
	Implement curlyleaf pondweed treatment on Lake Riley and develop new 5-year plant management plan if identified as necessary. Increase in cost is due to utilizing a renovate 40. Moved to Line item 28.		
41	Lake Riley - Alum Treatment 1st dose *	\$ -	\$ -
	Alum treatment was implemented in 2016. District will be monitoring but no additional funds are needed at this time. <i>This is a multi-year project. No additional funds are needed at this time. Monitoring will continue to assess longevity at efficacy of the treatment.</i>		

42	Lake Susan Alum Feasibility	\$	-	\$	-
	Feasibility will be completed in 2016.				
43	Lake Susan Improvement Phase 1 *	\$	-	\$	-
	The Spent Lime project will be completed in 2016 and the District will be monitoring in 2017 through their data collection program. The City of Chanhassen was a partner on this project. No additional funds are needed at this time. <i>Monitoring technology through Data Collection. Project is complete.</i>				
44	Lake Susan Water Quality Improvement Phase 2 *~	\$	80,000.00	\$	80,000.00
	Lake Susan Water Quality project is looking at capturing and resuing water from towncenter. Project is still in feasibility. <i>This is a multi-year project funded by the Clean Water Legacy Funds (\$233,400) and with \$150,000 District funds levied in 2015. The City of Chanhassen is a partner on this project. Based on Recent Bids an aditional \$80,000 was identified as needed.</i>				
45	Rice Marsh Lake Alum Feasibility Phase 1	\$	-	\$	-
	Rice Marsh Lake UAA identified the need to control internal loads in RML.				
46	Rice Marsh Lake Paleolimnology	\$	-	\$	-
	Study is now completed. No additional funds are needed at this time.				
47	Rice Marsh Lake Water Quality Improvement - Feasibility Phase 1	\$	-	\$	(20,000.00)
	Rice Marsh Lake UAA identified the need to control watershed loads in RML. No additional funds needed.				
48	Rice Marsh Lake Winter Fish Kill Prevention (WQ)	\$	-	\$	(10,000.00)
	Maintaining Carp Control system on Rice Marsh Lake as part of the Riley Creek Chain of Lakes Carp Managmeent Plan. Moved to Line item13.				
49	Rice Marsh Lake/Lake Riley UAA	\$	-	\$	-
	Study is completed and has moved into implementation.				
50	Rice Marsh Lake in-lake phosphorus load	\$	150,000.00	\$	150,000.00
	Alum treatment is anticipated to be implemented in 2018 if conditions are right.				
51	Riley Creek Restoration (Reach E and D3) *~	\$	400,000.00	\$	(200,000.00)
	Provide funds to implement feasibility, design and restoration of Reach E and D3 on Riley Creek. <i>This is a multi-year project. The District is levying an additional \$400,000 in 2018 for this project. Anticipated cost for the project is \$1,515,000. The City of Eden Prairie and the Lower Riley Creek Watershed District will be partnering in this effort but funds (anticipate \$300,000 and \$150,000 respectively).</i>				
52	Fire Station 2 (Eden Prairie)	\$	-	\$	(20,000.00)
	Implement a project to capture and reuse water at fire station 2 in Eden Prairie. <i>This is a multi-year project that is funded by a Stormwater Metropolitan Council Grant (\$99,287), City of Chanhassen and the District match of \$19,206.50 each. Project anticipated to be completed in 2017. No additional funds needed.</i>				
53	Purgatory Creek Rec Area- Berm/retention area - feasibility/design	\$	-	\$	(50,000.00)
	The District and the City of Eden Prairie will be doing a feasibility to design phase to determine maintenance and repairs needed for this area.				
54	Hyland Lake UAA	\$	-	\$	(20,000.00)

Hyland Lake UAA has not been updated since 2004 and needs to be updated.

55	Lotus Lake in-lake phosphorus load control Pending feasibility study and invasive species check, internal control of phosphorus is anticipated in Lotus Lake in 2018.	\$ 345,000.00	\$	345,000.00
56	Lotus Lake - Feasibility Phase 1 The UAA identified management of internal loads to Lotus Lake.	\$ -	\$	(20,000.00)
57	Mitchell Lake Plant Management (CLP - WQ) Implement curlyleaf pondweed treatment on Mitchell Lake that is consistent with plant management plan. <i>Moving forward this line item has been clumped under lake vegetation implementation.</i>	\$ -	\$	(15,000.00)
58	Purgatory Creek at 101* Project will be implemented in 2016 - no additional funds are needed for the creek restoration on Purgatory Creek near highway 101. The City of Minnetonka was a partner on this project. <i>Project completed.</i>	\$ -	\$	-
59	Purgatory Creek Lakes UAA * UAA will be completed in 2016 - no additional funds are needed. <i>Project completed.</i>	\$ -	\$	-
60	Red Rock Lake Plant Management (CLP - WQ) Implement curlyleaf pondweed treatment on Red Rock Lake that is consistent with plant management plan. <i>Moving forward this line item has been clumped under lake vegetation implementation.</i>	\$ -	\$	(15,000.00)
61	Silver Lake Restoration - Feasibility Phase 1 Provide funds to develop a restoration plan that would preserve/enhance wild rice preservation while also improving water quality.	\$ -	\$	(20,000.00)
62	Silver Lake Paleolimnology Work is completed. No additional funds are needed.	\$ -	\$	-
63	Scenic Heights This is water quality and habitat restoration located on the School of Forest grounds at Scenic Heights Elementary School. <i>This is a multi-year project. Partners include Minnetonka School District (\$45,000), City of Minnetonka and Hennepin County (\$50,000).</i>	\$ -	\$	-
64	Hyland Lake in-lake phosphorus load control This is for a feasibility analysis for in-lake load contraol treatment.	\$ 20,000.00	\$	20,000.00
65	Duck Lake watershed load This project will be done in coordination with the City of Eden Prairie. The project will have for main objective to reduce TP to Duck Lake.	\$ 220,000.00	\$	220,000.00
66	Staring Lake - Plant Management - EWM Treatment and CLP Implement and develop plant management plan for Staring Lake. Implement herbicide treatment for curlyleaf pondweed and eurasian watermilfoil treatment. <i>Moving forward this line item has been clumped under lake vegetation implementation.</i>	\$ -	\$	(20,000.00)
67	Reserve Contingency funds.	\$ 100,000.00	\$	(35,000.00)

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

October 4, 2017, Board of Managers Plan Workshop and Monthly Meeting

PRESENT:

Managers: Richard Chadwick, Secretary
Jill Crafton, Treasurer
Dorothy Pedersen, Vice President
Dick Ward
Leslie Yetka, President*

Staff: Claire Bleser, District Administrator
Zach Dickhausen, Water Resources Technician
Terry Jeffery, Project and Permit Coordinator
Michelle Jordan, Community Outreach Coordinator
Josh Maxwell, Water Resources Coordinator
Louis Smith, Attorney (Smith Partners)
Scott Sobiech, Engineer (Barr Engineering Company)

Other attendees: Larry Koch, Chanhassen Resident Ken Wencil, Chanhassen Resident
Dave Modrow, City of Eden Prairie David Ziegler, CAC

*Indicates attendance at the monthly board meeting but not the plan workshop

1. Workshop

Acting President Pedersen called to order the Wednesday, October 4, 2017, Board of Managers Plan Workshop at 5:50 p.m. in the District Office, 18681 Lake Drive East, Chanhassen, MN 55317. She noted that President Yetka would miss the workshop but will be at the Board's monthly meeting following the workshop.

a. Cost-Share Grant Modification

Ms. Jordan reminded the Board that last month it approved a cost-share grant for a shoreline buffer at 7203 Frontier Trail. She talked in detail about the change request submitted by the cost-share applicant and how the applicant is requesting to build a rock, or rip rap, border between the beach area and the buffer. She responded to questions. The Board discussed the request and the points that the rocks are not needed to prevent erosion at that location, the rocks would fragment the habitat, and how the project would be viewed by the public as an example of a cost-share project. Manager Ward moved to deny the request. Manager Crafton seconded the motion. Upon a vote, the motion carried 4-0 [Manager Yetka absent from vote.]

b. 10-Year Plan

Administrator Bleser reported that last week District staff met with the CAC and the TAC about the draft 10-year plan. She reviewed, using PowerPoint slides, with the Board the comments received from the CAC and TAC on the draft plan. She said that the CAC was happy overall with the plan and the TAC was also supportive of the plan and complimentary of the prioritization process.

Draft Minutes of 10/4/17 RPBCWD Board of Managers Plan Workshop and Monthly Administrator Bleser went through the revisions staff made to the draft plan based on the comments received from the CAC and TAC. She reported that the TAC was clear about wanting more flexibility in how the MS4s can get credit for projects. She stated that District staff is setting up a meeting with the Minnesota Pollution Control Agency to talk more about this topic. She said that staff will come back to the Board next month with more information on this issue. Administrator Bleser said that Mr. Jeffery will be leading an upcoming meeting with the TAC about the District's regulatory program. Administrator Bleser stated that staff hopes to get the full draft of the plan to the Board at its next monthly meeting and releasing it for comment in November or December.

c. Permit Modification

Administrator Bleser introduced a resolution that is in the Board packet and is on the meeting agenda [Resolution 17-10 Delegating Certain Permit-Approval Authority to the Administrator]. She explained that the authority would allow her to sign off on certain permit modifications such as if the permit is transferred from one entity to another entity. She asked the Board to consider if there is some level of permit change threshold up to which she could approve the permit change requests.

Manager Ward asked if the Administrator could come back to the Board with suggested parameters. Manager Chadwick recommended that staff and the District's legal counsel and engineer work to develop such guidelines.

Acting President Pedersen closed the Plan Workshop at 6:50 p.m.

2. Monthly Board Meeting Call to Order

President Yetka called to order the Wednesday, October 4, 2017, Board of Managers Monthly Meeting at 7:07 p.m. in the District Office, 18681 Lake Drive East, Chanhassen, MN 55317.

3. Approval of the Agenda

Manager Crafton moved to approve the agenda as submitted. Manager Pedersen seconded the motion. Upon a vote, the motion carried 5-0.

4. Matters of General Public Interest

President Yetka took a few minutes to talk about how the Board operates its meetings, and she highlighted changes to the process. President Yetka noted that hearing comments from the public during the Matters of General Public Interest portion of the meeting is important. She said it's important to honor the public's time in coming in front of the Board to provide input. She said it is vital for the Board to hear and track the comments. President Yetka noted that public hearings are another avenue for the public to provide comments to the Board. President Yetka said that during the Board's action and discussion items on the agenda the board and staff can comment and ask questions. She asked for managers' questions and comments. Manager Chadwick stated that the Board's process of allocating three minutes per speaker seemed too short of a time period. He suggested that speakers could request a longer period of time. President Yetka said that if a speaker needs extra time the Board can work with the speaker on it and said that the goal is to respect everyone's time.

President Yetka read aloud the procedures for this portion of the meeting and opened the floor for matters of general public interest.

Mr. Ken Wencil, Chanhassen resident, said that it is a thrill to see how the District has improved over the past fifteen years. He reported on the effectiveness of the Curlyleaf pondweed treatment on Lake Susan and the spent-

Draft Minutes of 10/4/17 RPBCWD Board of Managers Plan Workshop and Monthly lime treatment on the same lake. He said that the work done on behalf of Lake Susan is appreciated.

Mr. Dave Wallace, Eden Prairie resident and board member of the Friends of Red Rock Lake, brought up the topic of the coontail plant in Red Rock Lake. He talked about the increase of coontail in the lake and the problems stemming from it. He expressed an interest in seeing data about the nutrient loading, and in particular phosphorous loading, into Red Rock Lake. Administrator Bleser responded with information about shallow lakes and how often there is an increase in native plant growth once water clarity improves. She talked about the correlation between increased phosphorous and increased frequency of algal blooms. Administrator Bleser also talked about data that Mr. Wallace would be interested in and when and where it will be available.

Mr. Larry Koch, Chanhassen resident, read a list of thirteen comments including that he is curious about how many carp have been taken from District lakes, he would like the draft 10-year plan to be made available on the District's website, and he would like a copy of the CAC's comments on the plan, among his other comments recorded by staff and the Board. President Yetka and staff responded to his comments and questions. Manager Chadwick requested that staff include in the next staff report a written explanation of reserve funds.

5. Reading and Approval of Minutes

a. September 6, 2017, RPBCWD Board of Managers Monthly Meeting

Manager Crafton requested a change on page 3, changing the word from "indicated" to "indicating." President Yetka requested that her title of President is used consistently in the meeting minutes. President Yetka requested a correction on page 10, item 11i, to correctly identify the amount of funding approved by the Board as \$15,000 instead of \$1,500 as listed.

Manager Ward moved to approve the September 6, 2017, meeting minutes as amended. Manager Crafton seconded the motion. Upon a vote, the motion carried 5-0.

6. Consent Agenda

Manager Chadwick requested the removal of Consent Agenda item a - Accept Staff Report and item d – Approve Commitment Letter with Redpath Company. President Yetka added those items as Action items 8g and 8h, respectively. President Yetka read aloud the Consent Agenda items: b. Accept Engineer's Report (with attached inspection report); c. Authorize Solicitation of Bids for Scenic Heights Forest Restoration e. Approve Permit 2016-043: Bongards Redevelopment Permit Modifications with Staff Recommendations; f. Approve Permit 2017-001: Kopesky 2nd Addition Permit Modifications with Staff Recommendations; g. Approve Permit 2017-039: Mission Hills Senior Living 3rd Permit Review Period Extension; h. Approve Permit 2017-063: Clear Springs Elementary 2018 gymnasium Addition with Staff Recommendations; i. Approve Permit 2017-064 Scenic Heights Elementary School Forest Restoration with Staff Recommendations.

Manager Crafton moved to approve the Consent Agenda. Manager Ward seconded the motion. Upon a vote, the motion carried 5-0.

7. Citizen Advisory Committee (CAC)

Mr. Ziegler, CAC President, reported that the 25 by 25 workshop in September was successful and thanked the District for hosting a good workshop. He said that the CAC is happy overall with the 10-year plan and supports the direction the plan is going.

8. Action Items

d. Accept August Treasurer’s Report

Manager Crafton described her review and comparison of year-to-date expenses and the District’s 2017 budget and August financial report. She moved to accept the Treasurer’s Report as presented. Manager Pedersen seconded the motion. Manager Chadwick asked questions about the year to date spending for line items Permit Reviews and Inspections and Office Costs. Administrator Bleser answered his questions. Upon a vote, the motion carried 5-0.

e. Approve Paying of Bills

Manager Crafton moved to pay the bills. Manager Pedersen seconded the motion. Upon a vote, the motion carried 5-0.

- i. Manager Crafton moved to adopt recommendations 1 through 5 in the memo addressing the District’s internal controls and procedures. She read aloud the recommendations. Manager Pedersen seconded the motion. Upon a vote, the motion carried 5-0.

f. Approve Delegation Authority for Permit Transfers

Mr. Jeffery reminded the Board that staff introduced and talked about this idea in today’s workshop before the monthly meeting.

Manager Crafton moved to approve the delegation of authority for Permit Transfers. Manager Pedersen seconded the motion. President Yetka asked if the Board will see the actions in a report. Mr. Jeffery said yes. Manager Ward asked that the information just get included in the monthly staff report. The Board indicated consent to including communication about staff actions on permit transfers in the monthly staff report.

President Yetka read aloud Resolution 17-10 Delegating Certain Permit-Approval Authority to the Administrator.

Upon a roll call vote, the motion carried 5-0.

Manager	Aye	Nay	Abstain	Absent
Chadwick	X			
Crafton	X			
Pedersen	X			
Ward	X			
Yetka	X			

g. Approve Release of Plan Amendment for Lotus Internal Control Treatment and Rice Marsh Lake Internal Control Treatment

Administrator Bleser explained that these two projects have been identified in the District’s new 10-year plan, but the District doesn’t know when the new plan will be approved. She stated that moving forward with the plan amendment for these two projects is for the District to be proactive and prepared so it is able to move ahead with these projects according to their timing regardless of the timing of the new 10-year plan approval. Administrator Bleser responded to questions and talked further about project timelines and

Manager Crafton moved to authorize the release of the plan amendment for the Lotus Internal Control Treatment and Rice Marsh Lake Internal Control Treatment. Manager Pedersen seconded the motion. Upon a vote, the motion carried 5-0.

h. CAC Appointment Process

President Yetka provided background on the CAC appointment timeline and the process for publicizing the application timeline and soliciting applications. She pointed out that the CAC role description is in the meeting packet and said that Board members can provide comments. Manager Ward commented that a one-year term is problematic and that over time a three-year term should be set so there is continuity on the committee. He suggested that with the upcoming appointments, one-third of the members be appointed for a one-year term, one-third be appointed for a two-year term, and one-third be appointed for a three-year term until over time all the terms are three year terms. There was discussion about the appointment process. Manager Chadwick said that he and President Yetka will continue working with staff on the appointment process, taking into consideration the ideas shared tonight. The Board indicated consent.

i. MAWD

Administrator Bleser provided information about the resolution request and upon which districts will vote at the MAWD annual meeting. She explained that the resolution is regarding a liability waiver for private applicators. Manager Chadwick asked for more information on the resolution. Attorney Smith provided more details. Administrator Bleser asked if the Board is again this year extending an invite to CAC members to attend MAWD. The Board indicated yes.

j. Accept Staff Report

Manager Chadwick provided comments on the report format and requested some edits. He talked about the 2017 Aquatic Plant Survey reports included in the meeting packet and requested a summary of the data and findings. Administrator Bleser responded that staff recently received the reports and staff provided them to the Board as an information-only item because the data will be posted on the District's website.

Manager Pedersen moved to accept the staff report. Manager Ward seconded the motion. Upon a vote, the motion carried 5-0.

k. Approve Commitment Letter with Redpath Company

Manager Chadwick asked if the District's legal counsel has reviewed the letter and if counsel recommends accepting it. Attorney Smith said he would be happy to read the letter. He provided options for the Board to consider regarding action on this item. Manager Chadwick asked if counsel could bring his comments about his review of the letter to the next monthly Board meeting. Attorney Smith said yes. The Board agreed to defer this item until next month's Board meeting.

9. Discussion Items

a. Upcoming Meetings

President Yetka noted the upcoming meetings including the MAWD Annual Meeting November 29-December 1 in Alexandria.

10. Upcoming Events

- Citizen Advisory Committee Monthly Meeting, Monday, October 16, 6:30 p.m., District Office, 18681 Lake Drive East, Chanhassen
- Board of Managers Workshop and Regular Monthly Meeting, Wednesday, November 1, 5:30 p.m., District Office, 18681 Lake Drive East, Chanhassen
- Minnesota Association of Watershed Districts (MAWD) Annual Meeting, Wednesday, November 29- Friday, December 1, Arrowwood Resort, Alexandria, MN

11. Adjourn

Manager Ward moved to adjourn the meeting of the Board of Managers. Manager Crafton seconded the motion. Upon a vote, the motion carried 5-0. The meeting adjourned at 8:58 p.m.

Respectfully submitted,

Richard Chadwick, Secretary

RPBCWD Staff Report

November 1, 2017



Purgatory Creek at Southwest Station

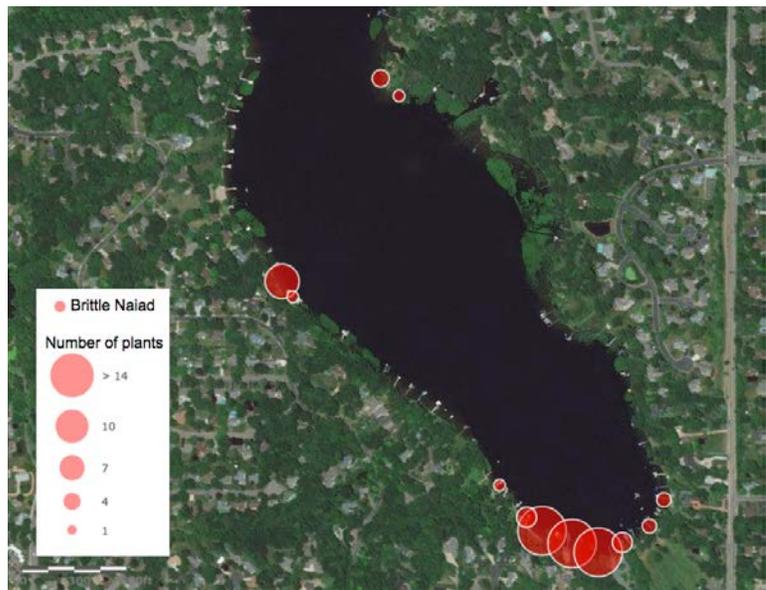
Administrative

10-Year Plan

Staff has been working on the executive committee. Full draft will be sent to the managers. We hope that we can move forward in releasing the plan at the November board meeting.

Aquatic Invasive Species

Brittle Naiad was discovered by staff during an AIS boat launch scan in September on Lotus Lake. Staff applied for a DNR permit, notified residents near treatment area (mailed out on October 10) and notified the LLCA (October 10) about the discovery and next steps the District will be doing. The District secured the permit from the DNR on October 11 and treatment occurred on October 16th. No



residents opted out from the treatment.

Budget

At our board meeting in November, there will be an item on the agenda that gives the opportunity for the public to comment a second time on the budget.

Data Request

We received one data request. Staff is working to solve this request.

Joe Bischoff requested pond sampling data and requested to use that information to present findings at the Water Resources Conference. The data was provided and permission granted to use findings.

Grants

No new updates

Permitting

Please ind below permits that were issued administratively in October.

2016-071 9352 Wilderness Cove	single family home
2017-070 9401 Kiowa Trail	single family home
2017-067 4693 Vine Hill	single family home

Citizens Advisory Committee

October meeting

The Citizens Advisory Committee met Monday, October 16th for their regular monthly meeting. Administrator Bleser was present to answer questions about the draft appendices of the 10-Year Plan. Minutes are included in the board packet. One of the members of the stormdrain subcommittee helped to put on a Clean-up for Water on October 21. They are also a Master Water Steward, and more details are provided in that section of the staff report. Applications for the 2018 CAC have been posted to the website and sent to local papers, organizations, and community groups.

Technical Advisory Committee

Our next TAC is scheduled for November 15th. We will be discussing the District's permitting program as well as the release of the 10-year plan.

Programs and Projects

District-Wide

Cost-share program

Staff have been conducting site visits with interested community members. Another of the 2017 recipients completed their project and submitted their reimbursement request. One of the master

water steward capstone groups finished their project and submitted for reimbursement as well. The cost-share example book has proved helpful in conversations with community members.

MPCA Community Resiliency Grant

No new updates.

Total Maximum Daily Load

Staff Jeffery, District Engineer and Administrator Bleser met with Chris Zadak on October 24 to discuss comments on the 10-year plan and the distribution of waste load allocations. Staff is working on their comments and working on incorporating changes within the plan pending board approval.

Data Collection (J. Maxwell)

Rice Marsh Aeration

An aeration permit will be approved this month and notices will be sent for publication in Eden Prairie and Chanhassen newspapers. The aeration unit has been pulsed and we are waiting for sufficient ice to place thin ice signs and turn on the unit.

Summer Field Season

Staff has conducted some regular lake and creek monitoring for baseline data this month. Lake level sensors and auto sampling stations will be pulled in November. The rain-triggered auto sampling unit north of Rice Marsh Lake has had a few technical/unit issues this year, so it will need to be sent in for repair. The spent lime treatment system monitoring equipment has been working well. As of now the District is still collecting grab samples once a week to ensure the system is functioning well. Staff also assisted Ray Newman's lab conduct curlyleaf pondweed turion density surveys on Mitchell Lake and Lake Riley this month. Staff has begun compiling data to begin drafting the annual report.

Carp Management

Eden Prairie staff opened the carp barrier twice this month due to the high water conditions caused debris blocking of stream flow.

Staff completed fyke netting across all the lakes within Riley and Purgatory Chain of Lakes. A total of three juvenile carp were captured in the Lower Purgatory Creek Recreational Area (LPCRA). This suggests some recruitment (reproduction) occurred, but remained very limited. This suggests limited growth in the common carp population attributed to 2017. Staff

also captured over 980 bluegill sunfish in the LPCRA, suggesting that the previous winters have not lead to winter kills. This high number of bluegills can help explain the limited recruitment numbers of common carp, as they feed on the carp eggs.

Adult electrofishing surveys were completed in October. LPCRA was only sampled once due to time constraints. Only high numbers of adult carp via electrofishing were captured on Staring Lake, UPCR, and Lake Susan Park Pond. The highest carp biomass was captured in Lake Susan Park Pond. A total of 243 carp were captured over four electrofishing surveys totalling 3.533 fishing hours, which is a very high number of carp. Fish must be moving from Lake Susan and other lakes within the Riley Chain, into the pond, which may be making it easier to then remove them from the chain of lakes. In Lake Susan we captured very few fish. Fyke netting yielded no young of the year (YOY) carp in the pond or Lake Susan suggesting very limited to no recruitment. A complete summary of all the results will be available in the annual report.

Creek Restoration Action Strategy

Staff will be replacing “lost” bank pins at our regular stream monitoring sites with an additional placement of pins on the south side of Silver Lake to assess erosion rates. Regular creek assessments may resume this month.

Barr Engineering and District staff have completed an updated edition of the CRAS (located on website) and have been working on a future publication for a professional journal. Additionally, staff have been working on a final creek walk summary book to have on hand to easily reference stream section data.

University of Minnesota Grant

17 October 2017

Ray Newman, University of Minnesota, with input from TJ Ostendorf

Riley Purgatory Bluff Creek Watershed District (RPBCWD) Aquatic Plant progress report for October 2017.

Lake Riley biomass samples from September have been processed but the data are not yet entered. Data entry has been completed for most other lakes and data are now being summarized. Fall sediment turion sampling has been started; only 1 turion was found in Lake Staring and the other lakes will be sampled in the next two weeks.

Plans for the rest of October include data entry and analysis and completion of turion surveys in Susan and Riley.

WOMP Station - Metropolitan Council

Staff have visited the WOMP stations twice this month. No new information.

Volunteering

Volunteers have contributed over 85 hours to district projects and programs to date. This does not include work done on their own time, like cleaning up trash, or participating in the Adopt a Dock program, Master Water Stewards program, or Citizen Advisory Committee.

Service Learners

Service learners continue to support data collection this fall.

Education and Outreach (M. Jordan)

Adopt a Dock Program

Volunteers have completed their last observations for the year, and are returning their plates. Staff will be summarizing the information for the next board packet and annual report.

AIS Jr Inspector

No new updates.

Annual Communication

The draft annual communication is included in the board packet.

Cycle the Creek

Cycle the Creek was rescheduled for October 28. At the time of writing, it had not take place yet. A summary will be included in the next board packet.

Early Childhood Fish Education at Minnetonka Community Education

Staff from the “Junior Explorer’s Club” program at the Minnetonka School District checked out our Fish print education kit. The kit includes native fish molds as well as a children’s book titled Fish Hotel. The Children’s book focused on the importance of aquatic habitat for fish. Close to 20 kids and their parents took part in the activity.

Earth Day Mini Grants

No new updates.

Year end gathering and volunteer celebration

Save the date: December 14, 6:30 pm, Bent Creek Golf Club. Invitations for the event will be going out shortly.

Lakes and Creeks Water Quality Report

Preliminary data summarization for 2017 fact sheets has begun.

Master Water Stewards Program

2017-2018 Cohort (cohort #3)

6 Master Water Stewards were accepted into the program. This year’s cohort represents a diversity of backgrounds, including a water resource educator, a Master Gardener, and a boy-scout troop leader. The group is enthusiastic and engaged, and this looks to be a great year. The first class was held on October 10th, followed by the annual watershed bus tour on the 14th, and a second class on the 24th. For the tour the district again partnered with Nine Mile Creek Watershed District (see photos below). There was excellent weather for the tour, and excellent questions from the participants. We stopped at three sites within our district: a previous Master

Water Steward Project, the Family of Christ Rain garden Cost-share project, and the lower Riley Creek restoration site.



2016-2017 Cohort (cohort #2)

Last year's cohort has graduated! A graduation ceremony with the stewards from all of the different sponsor organizations was held on October 17th. It was an inspiring occasion, with stewards showing off their capstone projects. These stewards now begin their first year of volunteer service, with a required 50 hours each. We are proud of their achievements and excited to see what they accomplish in this next year. We are now up to a total of 10 certified stewards in the district.



Stewards at work

The original steward cohort continues to do great work in the community, raising awareness and building capacity. For example, stewards David and Marilyn represented the district at the Minnetonka Open House on October 10th while Staff Jordan was busy at the first Master Water

Stewards class. Marilyn also recruited one of our new stewards! Lori continues to serve on the Eden Prairie Environmental Commission, and Matt has been involved with the CAC stormdrain subcommittee. Sharon is also on the stormdrain subcommittee, and recently helped to launch a Clean-up for Water with the city of Chanhassen. The successful event was held on October 21, and there are already plans to use the “lessons learned” from this pilot for events next year including in other cities like Shorewood. Great work Sharon! And you to the other stewards who attended to support Sharon in this endeavor. (photo immediately below is from the Open House, see below that for Sharon’s write-up and photos).



(You can almost make out Master Water Steward Marilyn behind the excited children making) raingarden buttons, and the parents learning about their watershed.

“Summary of 2017 Chanhassen Fall Leaf Clean-Up

On Sunday, October 22, 2017, volunteers for the 2017 Chanhassen Fall Leaf Clean-Up met in the parking lot adjacent to the Chanhassen Senior Center/City Hall. The volunteers consisted of 11 volunteers (below) with 5 of them being children, the youngest, a 3rd grader at Clear Springs Elementary.

- David Ziegler
- Marilyn Torkelson
- The Keith Butcher family of 5
- The Tracey Rust family of 3
- Sharon McCotter

The Rust family live on Carver Beach Road. Since their street was on our list, we chose to focus our efforts there. The windy week prior and rain on Saturday caused us to use our Sunday rain date and also expedited more leaves falling. We had our work cut out for us. We collected 88 bags of leaves in just over two hours, aggregating them at three locations along the route (Carver Beach Road from Nez Pierce to Broken Arrow). Additionally, we cleaned up the corner of Carver Beach Road and Ponderosa Drive to the crest of the street.

There were two storm drains that were completely covered by leaves and were only discovered by raking the curb and seeing the green spray paint above them. One of these drains was so solid with degrading leaves, it required scooping out handfuls of the thickly matted leaves from under the grate.

While working the street, 5 neighbors along the route asked about our work. We explained what we were doing and who we were. We provided them a brochure that talked about how they could help reduce polluting our lakes. Two neighbors said they would be interested in helping in the future; they were not aware of the event. One curious little girl opened her front door and offered to help. Her mom gave her a rake and a bag and she worked alongside us for a few minutes before returning inside to her pancakes. It was great to see how interested people were. The volunteers felt good about the work we did even though we only made it to one of the five sites. The two-hour block of time was just about the right amount of time to keep the kid's attention and enough labor for the adults; the second half of the street had a significant number of heavy, wet leaves.

Volunteers received a Spotify safety light and pair of nice work gloves, courtesy of the Riley, Purgatory, Bluff Creek watershed. The gloves were particularly helpful since they were rubberized and the leaves were wet.

The city will retain the electronic communication from this event for next year. We'll conduct a "lessons learned" and capture information we can use for next year as well.

A huge thank you to Kim Meuwissen who coordinated numerous components of the work with other city personal. Her expertise and willingness to make the event work were huge in simplifying things for everyone. Without her, the event would not have been possible.

The communication was very professional and all pieces were coordinated with a similar look. The map on the foam core was hugely helpful in our original drive by survey of the areas and then to show everyone where we would focus. Kim also had a terrific way of asking excellent probing questions that made me think through small details that would impact the process.

Others to thank...City of Chanhassen: Jill Sinclair, Vanessa Strong, Krista Spreiter, Amy Holst, Street Department (Charlie Burke) Riley, Purgatory, Bluff Creek watershed: Michelle Jordan"



Youth out reach

St. Huberts Watershed Presentation

Staff continued a five-year partnership with St. Hubert's School, presenting on the basics of a watershed and watershed stewardship to all of the 4th grade classes. The presentation concluded

with testing water from their nearby pond (which they study through the year) for chloride pollution.

First Lego League

Staff Jordan was invited back to a second meeting of the Eden Prairie First Lego League. The students had narrowed their “water” focus down to “groundwater impacts/protection” and were looking for more information on groundwater threats. Jordan shared with them the metro-area packet from the Governor’s 25x25 initiative, which had a succinct summary of current groundwater concerns in our area. The students were lively and engaged and asked many thoughtful questions. Staff left them with next steps of choosing one topic within the groundwater framework to focus on and an invitation to reach out for additional help. A refresher on First Lego League: it is a competition where students must both program lego robots to solve challenges, and complete an action project. Each year there is a theme and this year it is water. The students showed staff their lego robots as well, and the water themed challenges they need to solve with the robots.



Staring Outdoor Center

Staff again supported the Staring Outdoor Center in their 5th grade water studies program, reaching almost 100 students. Staff were supported in this by the Education and Outreach intern as well. By partnering, the district is able to enrich with programing, bringing real water sampling equipment and doing chemical tests. The district will be again partnering for the Not So Spooky trail on October 28th. The E&O intern will be hosting a table on macroinvertebrates, while dressed as a dragonfly.

Website & Newsletter

Staff continue to work in the website update.

Winter & Turf Maintenance Training

A winter Road and Parking Lots workshop will be held on November 9th.

Bluff Creek One Water

Chanhassen High School Staff Jeffery presented and was part of a panel at BARR engineering on October 12th. The event was titled “Water Reuse in Minnesota: What's happening NOW?”. This event had over 60 participants from various local government units and state agencies.



Bluff Creek Tributary Restoration Staff Bleser and Jeffery, and the Bluff Creek Engineering team met with Paul Oehme and Vanessa Strong from the City of Chanhassen met on October 26 to discuss the 60% Bluff Creek Tributary design.

Riley Creek One Water

Lake Susan Park Pond

Staff Jeffery and Bleser, and Engineering team met with the Paul Oehme and Vanessa Strong from the City of Chanhassen met to discuss the Lake Susan Park Pond project 30% design and logistics for the project.

Riley Creek

The Design team is continuing to work on the restoration.

Lake Riley CLP Treatment

No new updates.

Lake Riley Water Quality Project (Alum)

No new updates.

Lake Susan CLP Treatment

No new updates.

Purgatory Creek One Water

Fire Station 2

Let's Use Rainwater

This fire station conserves groundwater, and you can too!

Rain water reuse provides many benefits for your community and home.



Capture water from your roof. Rooftops create more runoff than permeable surfaces.



Conserve treated drinking water. All of the water you use - from drinking to flushing - comes from deep underground.



Decrease stormwater pollution. Capture rain that would otherwise collect and carry pollutants to our lakes, ponds, wetlands and streams.

1/4"

(typical Minnesota rain event) will provide:



530 gallons from this fire station roof (8,000 ft²)

100 gallons from a standard size roof (1,500 ft²)



This fire station uses the rain water it collects to wash fire trucks and irrigate the landscape.



Water from a home rain barrel can be used to:

- Wash cars
- Water flowers
- Irrigate lawns
- Clean windows

Average precipitation in Minnesota is about **20** inches from May - October

A typical home may collect **6,000** gallons per year

25-100 gallons to wash a car

60 gallons to water a 100 ft² garden



Visit the watershed and Eden Prairie websites for help on setting up your own home rain barrel.
edenprairie.org/sustainableEP | rpbcmd.org



TAKE THIS IDEA HOME!

Purgatory Recreational Area Berm

Satff Jeffery has been in communications with the United States Army Corps of Engineers (ACOE) staff to discuss what activities would constitute maintenance under the current permit and what would require a new ACOE permit.

Purgatory Creek at 101

No new updates.

Mitchell Lake Plant Management

No new updates

Red Rock Lake Plant Management

No new updates

Scenic Heights School Forest

The temporary sign for the trail entrance has been printed and is being installed.

Staring Lake Plant Management

No new updates.

Professional Workgroups and Continuing Education

AWRA

Administrator Bleser will be attending the American Water Resource Association Annual Conference Nov 5-9.

BWSR Academy

Staff Dickhausen and staff Jordan will be attending this year's Board of Soil and Water Resources Academy Nov 1-3..

Water Resources Conference

Staff Jeffery and staff Maxwell attended the water resources conference which occurred on October 17th and 18th at the RiverCentre in St. Paul. The 2-day conference highlighted much of the research and many of the important topics affecting water resources in the midwest. A few of the highlights included:

- Poornima Natarajan found that applying properly dosed iron enhanced sand filings directly to lakes can successfully reduce internal phosphorus loads.
- Brian Beck from Wenck presented on Halsted's Bay in Lake Minnetonka and found that while wetlands can be sinks for phosphorus, they can also be a source. During peak summer temperatures a wetland near the bay became a net source of ortho-phosphates even though it was reducing the total phosphorus load. Orthophosphate is far more culpable in degraded water quality than is particulate phosphorus. This brings into question the actual role of some stormwater ponds and wetlands in reducing nutrient loading in certain situations.
- Steve McComas presented on the fluctuating zebra mussel populations within the various bays in Lake Minnetonka. He estimated 97% of zebra mussels were attached to plants and the largest population was in suboptimal growing conditions. He predicted oscillating rises and crashes in the zebra mussel population once established. Optimal conditions include calcium >30 mg/l, algae 2.5-8 mg/l, and DO >8 mg/l. Poor water quality = bad for zebra mussels.
- Jessica Kozarek how long box culverts and concentrated flows can reduce fish movement. Buried culverts with natural sediments along the floor can enhance fish movement and structure added within the culverts can help fish move upstream.
- Steve Kloiber discussed the DNR's project to quantify if Minnesota is achieving no net loss of wetlands. There has been a significant loss of wetlands in Minnesota over the decades: declining from 19 million acres in 1860 to 10.6 million acres today. In recent years we are seeing a slight gain in wetlands but an overall loss in forested wetlands with much of the gains occurring through an increase in ponds, likely stormwater ponds.
- Jennifer Gruetzman of the USFWS expanded upon this to discuss that wetland area may not be the best metric. The type and quality of wetland is important but so too is the volume of storage. For instance, Houston Texas, over the last 20 years has lost approximately 25,000 acre feet of storage through wetland drainage and filling. She also discussed the role climate change plays in seasonal variation in wetland volumes: changes in precipitation and changes in evapotranspiration due to increases in temperature.

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing October 2017 Activities for November 1, 2017, Board Meeting
Date: October 26, 2017

The purpose of this memorandum is to provide the Riley-Purgatory-Bluff Creek Watershed District (RPBCWD) Board of Managers and the District Administrator with a summary of the activities performed by Barr Engineering Co., serving in the role of District Engineer, during October 2017.

General Services

- a. Met with President Yetka, Administrator Bleser, Smith Partner's to discuss October Board packet, crediting of the pollutant reduction from District projects to MS4s, and the status of District capital projects.
- b. Met with Permit Coordinator Jeffery and Counsel Welch to discuss potential revisions to the RPBCWD rules.
- c. Participated in an October 24th meeting with MPCA (Chris Zadak), Administrator Bleser, and Permit Coordinator Jeffery to discuss equitable distribution of pollutant load reductions to MS4s in the District and incorporating the draft TMDL results into 10-year plan to improve the tracking of potential pollutant reduction.
- d. Discussed and assisted Administrator Bleser with refining the Scenic Height Cooperative agreement with Minnetonka School District.
- e. Developed an updated Trail Map and additional RPBCWD branded icons at Administrator Bleser's request.
- f. Prepared watershed maps for annual communication.
- g. Participated in October 4, 2017 regular Board meeting and workshop.
- h. Prepared Engineer's Report for engineering services performed during October 2017.
- i. Regular and frequent communication and coordination with Administrator Bleser discussing status of various task orders, Board workshops, November meeting agenda, and miscellaneous questions.
- j. Project management and overall coordination of active task orders.

Permitting Program

- a. *Permit 2016-043*: Bongards Redevelopment: This project involves expansion of an existing building and adjacent parking lot at Bongards Creamery at 8330 Commerce Drive,

Chanhassen. The requested modification was conditionally approved at the October 4th Board meeting. Reviewed declaration amendment and coordinated with applicant.

- b. *Permit 2017-001*: Kopesky 2nd Addition: This project involves construction of an 8-lot single family home subdivision at 18340 82nd Street in Eden Prairie. The project will trigger Rules B, C, D, and J. The project was conditional approval at May 3rd meeting. Informed applicant that their modification request was approved at the October 4, 2017 regular meeting and review maintenance declaration.
- c. *Permit 2017-034*: Park Road: This project involves mill and overlay of Park Road in Chanhassen and the replacement of the Riley Creek culvert crossing. Answered questions from applicant about potential modification to the proposed crossing has a result of poor soil conditions and potential settlement concerns. Applicant plans to install the crossing per the approved plan.
- d. *Permit 2017-039*: Mission Hills Senior Living: This project involves disturbance of 8.65 acres to construct a 52,000 square foot senior housing building, eight townhome buildings and five biofiltration basins and a rainwater reuse system at the intersection of Hwy 101 and Highway 212 in Chanhassen. The project will trigger Rules C and J. Reviewed two submittals in response to review comments and drafted a permit review summary for Manager consideration at the November meeting.
- e. *Permit 2017-057*: EP Center Retaining Wall Rehabilitation: This project involves the replacement of the existing retaining wall, concrete sidewalk, and associated grading and drainage for the new retaining wall along the southwest side of the Target store. Reviewed draft maintenance agreement.
- f. *Permit 2017-069*: Scheels Redevelopment: This project involves the removal and replacement of the much of the existing Sears building at Eden Prairie Center, reconfiguring and repave the parking areas adjacent to the building, improving walkways and adding landscaping. The applicant proposes three underground filtration systems with elevated drian tile to provide infiltration and a stormwater harvesting and reuse system for irrigation and toilet flushing to provide stormwater quantity, volume and quality control. The project will trigger Rules C and J. Reviewed three submittals in response to review comments and drafted a permit review summary for Manager consideration at the November meeting.
- g. Performed erosion control inspections of active sites during the week of October 16th (see attached inspection report).
- h. Conversations with several project engineers/developers about permit requirements for potential development and redevelopment projects.

Data Management/Sampling/Equipment Assistance

- a. Uploaded and verified 15 laboratory reports to EQUIS.

Task Order 6: WOMP Station Monitoring

Purgatory Creek Monitoring Station at Pioneer Trail

- a. Download and review data.

- b. Storm event sampling.
- c. Review and file grab sampling sheets.

Purgatory Creek Monitoring Station at Valley View Rd

- a. Downloaded and reviewed data.
- b. Storm event sampling – set station for sampling, collect, prep, and deliver sample to MCES lab.
- c. Review and file grab sampling sheets.
- d. Maintenance – purchase and set out mouse traps.
- e. Review MCES lab invoice.

Task Order 7b: Purgatory Creek Stabilization near Hwy 101—Construction

- a. Continued working on the final memorandum to document construction.

Task Order 13b: Lake Susan Watershed Treatment and Stormwater Reuse Enhancements Design and Construction Administration

- a. Meeting on site with City and District staff to discuss the project implementation and soil boring locations.
- b. Coordination with drillers and completion of site soil borings to inform design.
- c. Design team (Barr) preparation of 30% plans, design team meetings, coordination with equipment vendors. Primary evaluations included water treatment enclosure location/aesthetics, pump configuration to meet both irrigation and iron-enhanced sand filter flow requirements, and pond intake location/aesthetics.
- d. Iron-enhanced sand filter operation and maintenance evaluation, rendering preparation, summary of options for both flooding and pumping.
- e. Stream-bank erosion/stabilization assessment on site.
- f. Additional information requests and coordination with the City of Chanhassen regarding site access, utilities, and irrigation controls.

Task Order 14b: Lower Riley Creek Final Design

- a. Continued 60% design, including the iterative process of determining stable channel parameters, modeling, and balancing cut and fill volumes.
- b. Worked on determining the placement of additional bank protection measures after a stable channel is created.
- c. Submitted the wetland delineation report to District staff for review.

Task Order 16: Watershed Management Plan Refresh

- a. Revised internal draft plan based on TAC and CAC comments and prepared document for 60 day review period release.
- b. Worked with Administrator Bleser to develop response to TAC and CAC comments on draft plan and CAC comments on the draft appendices.
- c. Worked with Administrator Bleser and Staff Jordan to develop executive summary.

Task Order 19: Chanhassen High School Stormwater Reuse Design

- a. Follow-up on value engineering items: prepackaged treatment system, elimination of shelter and moving entire system to original pump location, modifications to pump intake, potential for radio control of system, access to treatment/pump
- b. Meeting with WaterTronics to request additional information requested by ISD112 regarding prepackaged treatment system and shelter.
- c. Over the next several months additional coordination with ISD 112 on shelter materials, design and location as well as some minor design revisions based on value engineering discussions.

Task Order 20: Hyland Lake UAA Update

- a. Sent draft UAA report to Bloomington and Three Rivers Park District to solicit review comments. No comments have been received.
- b. Awaiting Administrator review comments on remainder of draft report.

Task Order 21: Bluff Creek Feasibility Study

- a. Completed the wetland delineation report. A field review by regulators will be scheduled yet this fall.
- b. Completed Phase I environmental assessment
- c. Coordinated a meeting with the District and City of Chanhassen for October 26th. Meeting will review project 60% design, project access, and cooperative agreement.

Task Order 22: Groundwater Assessment

- a. No activity this period. Waiting for Board and Administrator feedback on draft report.

Task Order 23: Scenic Heights School Forest Restoration

- a. The final bid package was released on QuestCDN for public bid.
- b. Assisted Administrator Bleser and Counsel Welch with cooperative agreements with the City of Minnetonka and Minnetonka School District

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- c. A mandatory pre-bid meeting was held on October 13th at which six contractors were in attendance.
- d. Bids will be opened on Friday, October 27, 2017.

Task Order 24: Preliminary Engineering Study for Silver Lake Water Quality Treatment Project

- a. Continued screening process to identify BMPs that could fit the site. There are multiple types of BMPs that remove phosphorus from stormwater runoff, prior to a detailed evaluation, Barr staff complete a screening of BMPs to identify options that may be the best fit for the site (i.e., minimize site disturbance, minimize impacts to existing public infrastructure, and meet the design objectives defined in the UAA update).
- b. Completed an initial site investigation. During the site investigation Barr staff field verified watershed delineations, took photographs of the site, and looked for potential utility conflicts.

To: RPBCWD Board of Managers
From: Dave Melmer
Subject: October 16, 2017—Erosion Inspection
Date: October 25, 2017
Project: 23/27-0053.14 PRMT 9016

Barr staff has inspected construction sites in the Riley Purgatory Bluff Creek Watershed District for conformance to erosion and sediment control policies. Listed below are construction projects and the improvement needed for effective erosion control. The sites were inspected from October 16, 2017.

Site Inspections

2015-005	CSAH 101 Mntka	2017-10-17
Construction complete site wide. All temporary BMP's have been removed. Site wide inspection was made.		
2015-008	3520 Meadow Lane	2017-10-17
Site BMP's are adequate. Silt fence is down in some areas on west side--will not affect site runoff. Site cleanup and house painting still underway. Some landscaping observed on north side. (October -2017)		
2015-010	Children's Learning Adventure	2017-10-16
Building construction complete. Inlet protection has been removed. Landscaping is complete. Sod was installed and application of spray tac to exposed soils. Vegetation growing thru mats and in spray-tac'd areas. Pond slope to west has failed-- causing slope erosion to pond downstream. Site representative was notified of Corrective Action--has been repaired. These two areas were recently spray tac'd--sparse vegetation growing to date. Photo taken. All temporary BMP's have been removed.		
2015-016	Blossom Hill	2017-10-16
Open CA(s): Dirt stockpile with no protection. Sediment deposition in street at curb near catch basin. No catch basin protection installed. Deadline: 10/30/2017 Open CA(s): Sediment deposition in street on Windsor Lane. Deadline: 10/30/2017 Site representative was notified. Corrective Action noted.		

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2015-035	LaMettry's Chanhassen	2017-10-16
	Building construction continues on south site. Parking lot on north lot has been paved. North slope grading and landscaping complete....swale BMP' look good- north slope has erosion control mat over entire area-vegetation established. Parking lot base and retaining wall installation has begun on south site. BMP's are good. Slight tracking on south site. (October-2017)	
2015-036	Saville West Subdivision	2017-10-17
	Construction has begun at 5320 Spring Ln. House site. Rock entrance installed. Silt fence perimeter control in place. BMP's look good. Foundation back filled. Slight tracking to street. Rock entrance may need to be refreshed.	
2015-038	Improvements to Field 8 at Miller Park	2017-10-17
	BMP's look good. Site construction complete. Soils have been covered---vegetation is growing. All BMP's have been removed with exception of bio-logs at infiltration area. (October)	
2015-048	Page I Ice Facility Addition	2017-10-17
	Construction of building foundation/walls complete. Silt fences in place. Parking lot paved and staging area dismantled. Site BMP's look good. Site grading complete. Slope on south side of building --has erosion mats installed and silt fences at toe of slope- vegetation is established. Catch basin protection installed. Upper area graded and BMP's removed. (October - 2017)	
2015-050	Arbor Glen Chanhassen	2017-10-16
	Perimeter control (silt fence) installed. Heavy equipment onsite and earthwork/grading continues. East entrance being installed--rock entrance installed. BMP's look good.	
2015-053	RBSC Chanhassen LLC	2017-10-16
	No construction has begun. Site was being used as lay down yard for Hwy. 5 construction. Demobilization is complete. Catch basin protection still in place. Exposed soils have been covered and now vegetation is established. (October)	
2015-056	Oster Property	2017-10-16
	Construction complete. Silt fences /bio-logs have been removed. Vegetation mats and wood chips have been installed on all bare soils. All other BMP's look good. Vegetation (grass) still sparse in areas. (October-2017). Homeowner is getting	

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bids for final landscaping.

2015-058 **Prairie Center Clinic Addition** **2017-10-16**

Construction complete on building. Some BMP's have been removed for landscaping. Vegetation is established. Parking lot top coat complete. Landscaping complete. BMP's are still in place--silt fence. (October 2017)

2016-004 **Round Lake Park Improvements** **2017-10-17**

BMP's look good. Site construction complete--parking lot/lots--curb gutter and asphalt has been installed. (November-2016). Asphalt top coat complete. Vegetation is growing. All temporary BMP's have been removed with exception of BMP's at infiltration areas and silt fence on east side. Infiltration basins have been graded spray-tac'd--vegetation is growing. October-2017

2016-006 **Soccer Field 10 at Miller Park** **2017-10-17**

BMP's look good. Site construction complete. Vegetation established. Site is stable. BMP's still in place--silt fences and one catch basin. (October)

2016-012 **Minnetonka HS Parking Additions** **2017-10-17**

Construction complete. Vegetation is established. All temporary BMP's have been removed. This will be last field inspection for this permit.

2016-015 **18321 Heathcote Lane** **2017-10-17**

Silt fences installed/in good condition. Driveway installed. BMP's look good. House construction continues. (October-2017)

2016-021 **Cedar Hills Park** **2017-10-16**

Construction complete. BMP's look good. Vegetation has sprouted and is growing.

2016-026 **Foxwood Development** **2017-10-16**

Multiple house construction has begun--BMP's look good- silt fences and rock entrances installed/ good perimeter control. Sidewalk installation completed. Silt fences have been installed on unsold lots. Catch basin protection installed. Additional silt fences have been installed across site. Bare soils have been spray-tac'd vegetation sprouting.

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2016-030	IDI Distribution Building Expansion	2017-10-16
	Construction of addition complete .Catch basin protection has been installed. Silt fences on north side installed. Some over topping of first row of silt fence- 2 additional fences have been installed. Rock entrance installed at new entrance has been refreshed again in August-2107. Catch basin protection at Basin east southeast of entrance has been installed. Stockpiles of dirt have been removed--silt fences still in place. Boulders onsite for installation. Site grading /earthwork still underway. BMP's look good. (October -2107)	
2016-037	Prestige Day Care	2017-10-16
	Construction continues. Perimeter control silt fence in place, Rock entrance installed. Catch basin protection installed-as requested. Site looks good. Parking lot -- curb and gutter installed. Paving underway. Slight tracking to street observed. October -2107	
2016-038	Optum Technology Drive Improvements	2017-10-16
	BMP's have been removed. Vegetation is established. Site is stable. This will be last field inspection for this permit.	
2016-039	Powers Ridge Senior Apartments	2017-10-16
	Construction continues. BMP's are good. Parking lot base and curb/gutter complete and parking lot asphalt has been laid. (October)	
2016-040	18995 Minnetonka Blvd	2017-10-17
	Construction of house continues. Silt fence in place. Slopes with vegetation mats have growth. Southwest corner has more BMP's to control sediment erosion. BMP's installed are adequate. Earthwork near front has been completed--straw mats onsite for coverage. Northeast corner of site needs erosion protection. Site representative was notified after September inspection--CA not addressed to date.	
2016-041	Chanhassen West Water Treatment Plant	2017-10-16
	Silt fences installed on site. Construction continues. Rock entrance good. BMP's look good. Street cleanup conducted regularly. October-2017	
2016-042	18663 St. Mellion Place--Eden Prairie (Bear Path)	2017-10-16
	Construction continues. BMP's are good. Silt fence in one small area is at 40% of height. Some erosion on hill is causing silt fence to fill.—will continue to monitor. Secondary silt fence installed on hillside. Drainage from downspout rerouted. Minor	

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erosion is still occurring and is currently being stopped by silt fences. Site grading on west side underway.

2016-043 **Bongards Redevelopment** **2017-10-16**

BMP's are adequate. Parking lot base installed-- catch basins installed and protected--pavement installation still needs to be completed. (October-2017)

2016-044 **Dell Rd & Riley Creek Repair Project** **2017-10-16**

Vegetation was growing appears to have died off. Rip-rap was recently installed at dirt road edge to control erosion from road. Additional erosion prevention from road needs to be addressed. More rock installed along flow path and silt deposit at beehive catch basin removed. Representative was contacted in September and is aware of site condition. October-2017.

2016-045 **MCES Blue Lake Interceptor Rehab** **2017-10-16**

Construction continues. Silt fences installed/bio-logs in place. Rock entrance installed and refreshed recently. Minor tracking street observed.

2016-047 **9507 Sky Lane Eden Prairie** **2017-10-16**

Construction continues. Silt fences down in some areas but secondary containment is good. Catch basin protection at road needs to be maintained --it's not installed-- just laying over CB. (street side CB). Catch basin between properties has been protected. Runoff from bare soils going around and offsite from this property-- south property is landscaped. Minor tracking to street. Site representative was notified after August inspection--no corrective action taken except for landscaping of 9527 Sky Lane. Same conditions exist. Site Representative is aware of conditions. Wetland buffer signage has been installed. October-2017.

2016-FT02 **Mitchell and McCoy Lake Outlet Sediment Removal** **2017-10-17**

Site construction complete. Bio-log still in place. Vegetation established. (October)

2017-001 **Kopesky 2nd Addition** **2017-10-16**

Construction has started. Perimeter silt fence installed. Brushing and tree clearing underway.

2017-002 **7012 Dakota Ave** **2017-10-17**

Construction complete. Majority of landscaping is complete. Corrective Action has been addressed. Sod has been installed.

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2017-003	18761 Heathcote Dr Building Addition	2017-10-17
	House construction continues. BMP's are adequate for stockpile-silt fence would've been best--bio-logs are working. Minor tracking to street observed. Pool installation complete. Additional silt fence installed and working good. Landscaping continues. Bio-logs may have to be doubled up soon. Will notify site representative. Additional bio-logs have been installed.	
2017-008	Prairie Meadows Site Renovation	2017-10-16
	Construction continues. BMP's in place. Site looks good. Some minor tracking to street- catch basin protection is installed. East site access has BMP's installed. Parking lot repairs underway.	
2017-009	Emerson Chanhassen East Renovation	2017-10-16
	Construction continues. BMP's installed. Rock entrance in place. Landscaping earthwork underway. (October)	
2017-010	Riley Lake Park Renovations	2017-10-16
	BMP's installed and look good. Parking lot and boat ramp construction complete. Grading and landscaping in some areas is complete. Vegetation growing in some areas.	
2017-011	Galpin Blvd Watermain Improvements	2017-10-16
	Construction complete. Soils covered with erosion control mats-some growth observed to date. Silt fences still installed in some areas. October-2017	
2017-018	Bloomington 2017-102 Street Maint	2017-10-16
	Construction complete. All temporary BMP's have been removed. Site is stable. This will be last field inspection for this permit.	
2017-021	8544 Ellet Circle	2017-10-17
	BMP's removed. Construction complete. Landscaping complete. All temporary BMP's have been removed. This will be last field inspection for this permit. (October)	
2017-023	Eden Prairie Assembly of God	2017-10-17
	Site has been surveyed. No construction activity to date.	

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2017-025	735 Pleasantview Road	2017-10-17
	Construction continues. BMP's installed. Bio-logs for perimeter control--adequate. Some landscaping underway. Silt fence has been installed for perimeter control. Boulder wall installed/some site grading underway. (October -2017)	
2017-026	6135 Ridge Road	2017-10-17
	Site has been cleared and surveyed. BMP's installed --silt fence for erosion perimeter control. No additional activity to date.	
2017-027	7500 Chanhassen Road	2017-10-16
	Construction well underway. Silt fences and bio-logs installed. Erosion on west side went offsite-- cleanup up and more logs installed. This area could use more protection and log should be staked in at this site. Representative will be notify to reinforce this area. Additional silt fence and biology installed - additional BMP's look good. Some site grading underway. (October)	
2017-029	Tweet Pediatric Dentistry	2017-10-16
	Construction continues. BMP's are installed and good. Slight tracking offsite. Catch basin protection installed in this area. Infiltration areas installed. Parking lot grading and curb/gutter installation complete. Site grading and landscaping is underway.	
2017-032	11193 Bluestem Lane	2017-10-16
	Survey markers observed. Eroded area is fenced off. No construction observed to date since last inspection.	
2017-034	Park Road Overlay Chanhassen	2017-10-16
	Work continues at creek crossing and Park Rd. Culvert and road replacement. BMP's installed.	
2017-036	Minnetonka HS Upper Field Access Road	2017-10-17
	Construction continues. Erosion on slope north of retaining wall has overtopped bio-logs. Representative was notified. Parking lot has tracking. Corrective Action items have been addressed. Construction complete. Vegetation has sprouted and is growing.	
2017-038	West Park	2017-10-16
	Construction continues. Earthwork/grading underway. Rock	

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entrance installed on south side. Perimeter control installed. Catch basin protection installed. BMP's look good. No rock entrance installed at west entrance to date. Minor tracking observed in some areas.

2017-044 **17064 Weston Bay Road** **2017-10-17**

Construction complete. Landscaping is complete--majority of area has been hydro-seeded -no growth observed. BMP's in place.

2017-047 **Fawn Hill** **2017-10-16**

Earthwork has begun. Perimeter silt fence install. No rock entrance to date.

2017-056 **Covington Rd Culvert Replacement** **2017-10-17**

Site has been surveyed. No construction to date. Site has been marked for utility locate.

2017-057 **EP Center Retaining Wall** **2017-10-16**

Open CA(s): No protection for dirt stock piles. Deadline: 10/30/2017

Construction has begun on small section. Boulder retaining wall installation south of Target. No protection for dirt stockpiles. Site representative was notified--He stated that project most likely has not started. The above work may not be part of this permit. He will check with Mall Reps. and pass info.

Please contact me at 952.832-2687 or dmelmer@barr.com if you have questions on the projects listed above or any additional items that need to be addressed for the erosion control inspections.

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2017-069

Application Received complete: September 19, 2017

Applicant: CAPREF Eden Prairie South LLC

Consultant: Adam Basse, LHB, Inc

Project: Eden Prairie Center Scheels Redevelopment–Removal and replacement of the much of the existing Sears building, reconfiguring and repave the parking areas adjacent to the, improve walkways and add landscaping. The applicant proposes three underground filtration systems with elevated driantile to promote infiltration and a stormwater harvesting and reuse system for irrigation and toilet flushing to provide stormwater quantity, volume and quality control.

Location: 8251 Flying Cloud Drive, Eden Prairie, MN

Reviewer: Scott Sobiech, Barr Engineering

Rules: Applicable rules checked

	Rule B: Floodplain Management		Rule H: Appropriation of Public Waters
X	Rule C: Erosion and Sediment Control		Rule I: Appropriation of Groundwater
	Rule D: Wetland and Creek Buffers	X	Rule J: Stormwater Management
	Rule E: Dredging and Sediment Removal		Rule K: Variances and Exceptions
	Rule F: Shoreline/Streambank Stabilization	X	Rule L: Permit Fees
	Rule G: Waterbody Crossings	X	Rule M: Financial Assurances

Rule Conformance Summary

Rule	Issue	Conforms to RBPCWD Rules?	Comments	
C	Erosion Control Plan	See Comment	See Rule Specific Permit Condition C1.	
J	Stormwater Management	Rate	Yes	
		Volume	See Comment	See Rule Specific Permit Condition J1.
		Water Quality	Yes	
		Low Floor Elev.	Yes	
		Maintenance	See Comment	See Rule Specific Permit Condition J2.
L	Permit Fee	Yes	\$3,000 was received on 9/19/17.	
M	Financial Assurance	See Comment	The financial assurance has been calculated at \$864,000.	

Project Description

The Eden Prairie Center Scheels Redevelopment project involves the removal and replacement of the much of the existing Sears building, restore a small portion of the building shell that will remain, reconfiguring the parking areas adjacent to the new store, improvements to pavements, walks and landscaping. The applicant proposes three underground filtration systems with elevated draintile to promote infiltration and a stormwater harvesting and reuse system for irrigation and toilet flushing to provide storm water quantity, volume and quality control. The project will also rehabilitate 10.13 acres (441,263 square feet) of existing impervious surface within RPBCWD, which is exempt from compliance with the RPBCWD stormwater-management criteria (Rule J, paragraph 2.2c). The work is proposed on two adjoining parcels under common ownership by the applicant. The project site information is summarized below:

1. Total Site Area: 53.6 acres (total area of both parcels)
2. Existing Site Impervious Area: 43.5 acres (1,894,860 square feet) (the total imp on both parcels)
3. Post Construction Site Impervious: 42.79 acres (1,863,932 square feet)
4. New (Increase) in Site Impervious Area: -0.71 acres (-30,927 square feet) (1.63% decrease in site impervious area)
5. Disturbed impervious surface: 6.50 acres (283,140 square feet) (14.9% of existing site impervious area)
6. Pavement Rehabilitation Area (mill & overlay and reconstruction): 10.13 acres
7. Total Disturbed Area: 22.71 acres

Exhibits:

1. Permit Application dated September 18, 2017.
2. Project Narrative: Redevelopment of Sears and Associated Parking Lot Improvements dated September 8, 2017
3. Project Plan Set (67 sheets) dated September 8, 2017 (revisions received October 18, 2017, sheet C6.03 revised October 22, 2017, and sheet C3.12 revised dated October 24, 2017)
4. Stormwater Management Report dated September 18, 2017 (revised October 23, 2017)
5. Geotechnical Evaluation report Dated April 24, 2017
6. Revised Geotechnical Exploration Report dated August 7, 2017.
7. Pavement Evaluation dated August 15, 2017
8. Environmental Monitoring result by Braun Intertec dated May 4, 2017
9. Response Action Plan and Construction Contingency Plan by Braun Intertec dated August 1, 2017 (includes additional soil boring around buildings)
10. HydroCAD Models received September 26, 2017 (revision received October 24, 2017)
11. Revised MIDS Model received September 26, 2017(revised October 24, 2017)

12. Reuse Calculator spreadsheets received October 6, 2017
13. Parcel Impervious Impact drawing received October 18, 2017
14. Pre-development catchment drawing received October 18, 2017
15. Post-development catchment areas drawing received October 18, 2017
16. Response to comments received October 18, 2017, October 22, 2017, and October 24, 2017

Rule Specific Permit Conditions

Rule C: Erosion and Sediment Control

Because the project will alter 22.71 acres of land-surface area the project must conform to the requirements in the RPBCWD Erosion and Sediment Control rule (Rule C, Subsection 2.1).

The erosion control plan prepared by LHB, Inc. includes installation of silt fence, inlet protection for storm sewer catch basins, a rock construction entrance, placement of a minimum of 6 inches of topsoil, decompaction of areas compacted during construction, and retention of native topsoil onsite. To conform to the RPBCWD Rule C requirements the following revisions are needed:

- C1. The Applicant must provide the name and contact information of the individual responsible for erosion control at the site. RPBCWD must be notified if the responsible individual changes during the permit term.

Rule J: Stormwater Management

Because the project will alter 22.71 acres of land-surface area the project must meet the criteria of RPBCWD's Stormwater Management rule (Rule J, Subsection 2.1). Under paragraph 2.5 of Rule J, Common scheme of development, activities subject to Rule J on a parcel or adjacent parcels under common or related ownership will be considered in the aggregate, and the requirements applicable to the activity under this rule will be determined with respect to all development that has occurred on the site or on adjacent sites under common or related ownership since the date this rule took effect (January 1, 2015). Because two projects have been permitted since the rules took effect (RPBCWD Permit 2015-041 and 2017-057), the current activities proposed must be considered in aggregate with the activities proposed under this application, Permit 2017-069.

The present project reduces the overall impervious surface on the site but will disturb 6.50 acres of existing impervious surface on the site. The criteria listed in Subsection 3.1 will apply to runoff from the disturbed and reconstructed impervious areas on the project parcel because the aggregate impervious disturbance (15 percent) and no imperviousness increase (0.0 percent), do not amount to a disturbance of more than 50 percent of the impervious surface of the parcel nor will the imperviousness be increased by more than 50 percent from the amount existing at the time of the 2015-041 application (Rule J, Subsection 2.3).

The project includes three underground filtration systems with elevated draitile to provide infiltration and a stormwater harvesting and reuse system for irrigation and toilet flushing to provide storm water quantity, volume and quality control. Pretreatment of runoff will be provided with sump structures.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The applicant used a HydroCAD hydrologic model to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the site are summarized in the table below.

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
Outlet 1	20.7	15.8	32.1	24.8	53.2	41.7	1.1	0.9
Outlet 2	12.1	11.7	18.8	18.4	31.2	30.8	0.6	0.6
Outlet 3	35.7	27.0	56.1	45.5	93.9	87.2	1.9	1.3
Outlet 4	13.8	4.9	21.7	8.3	36.3	14.5	0.7	<0.1

The proposed project is in conformance with RPBCWD Rule J, Subsection 3.1.a.

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from the fully reconstructed impervious surface of the parcel. An abstraction volume of 25,955 cubic feet is required from the 283,140 square feet of disturbed impervious area on the project for volume retention. The project includes three underground filtration systems with elevated draitile to provide infiltration and a stormwater harvesting and reuse system for irrigation and toilet flushing to abstract runoff from the site. Sump manholes and chambers will provide pretreatment of runoff prior to the underground filtration systems (Rule J, Subsection 3.1b.i).

The recent soil borings performed by Braun Intertec Corp and other historic borings show that soils in the project area consist primarily sandy lean clay or clay soils that extended to the termination depths of the borings. While several soil borings show poorly graded sand under the existing buildings, those areas are not planned to be disturbed. The MN Stormwater Manual indicates an infiltration rate of 0.06 inches per hour for sandy lean clay or clay soils. In addition, the applicant has identified isolated residual soil contamination in the form of various concentrations of primarily petroleum-related VOCs (volatile

organic compounds) and TPH-DRO (diesel range organics), on the site near the former Sears structure. Cleanup of the contamination is planned where excavation occurs and a response action plan and construction contingency plan for the work has been prepared and is planned to be submitted to the Minnesota Pollution Control Agency for review and approval.

The proposed infiltration BMPs are proposed at locations over 100 feet away from where contamination was found during the soil investigations. Based on the information provided, it is our opinion that the cleanup has been planned in a manner and the location of the contamination is such that infiltration does not present a undue risk of causing or exacerbating migration of contaminants offsite or into groundwater. We find no basis to require additional assessment of contamination conditions to determine the suitability of the property for infiltration. The applicant, relying on the findings, analysis and conclusions of its consultants, has proposed provide the necessary abstraction through infiltration and has declined to either explore or request approval of other possible non-infiltration methodologies for the purpose. The applicant should be required to affirmatively acknowledge its acceptance of whatever risk is presented by infiltration at the site. We do not recommend infiltration nor do we represent that infiltration will not cause or exacerbate contamination conditions at or near the site. But we find no basis to recommend that the managers that the stormwater management system as proposed by the permit applicant cannot be used for the purposes of compliance with RPBCWD's abstraction requirement.

The Engineer concurs that soil information, existing site infrastructure and limited area of impervious surface disturbance show that the abstraction standard in Subsection 3.1 of Rule J cannot practicably be met, the site is considered a restricted site and stormwater runoff volume must be managed in accordance with Subsection 3.3 of Rule J. For restricted sites, Subsection 3.3 of Rule J requires rate control in accordance with Subsection 3.1a and that abstraction and water quality protection be provided in accordance with the following sequence: (a) Abstraction of at least 0.55 inches of runoff from site impervious surface determined in accordance with paragraphs 2.3, 3.1 or 3.2, as applicable, and treatment of all runoff to the standard in paragraph 3.1c; or (b) Abstraction of runoff onsite to the maximum extent practicable and treatment of all runoff to the standard in paragraph 3.1c; or (c) Off-site abstraction and treatment in the watershed to the standards in paragraph 3.1b and 3.1c.

The soil boring information summarized in the table below shows that groundwater is at least 3 feet below the bottom of the proposed BMP #1, #2 and #3 (Rule J, Subsection 3.1.b.ii).

Proposed BMP	Groundwater Elevation (feet)	BMP Bottom Elevation (feet)	Separation (feet)
BMP 1	No groundwater observed at nearest boring bottom (el 862.4)	868.33	5.93
BMP 2	No groundwater observed at nearest boring bottom (el 868.6)	873.87	5.27 (See condition)
BMP 3	No groundwater observed at nearest boring bottom (el 861.3)	878.23	16.93 (See condition)

The use of three underground filtration systems with elevated drintile to provide underground infiltration will provide 10,522 cubic feet of abstraction. Stormwater reuse was found to be a feasible option to irrigate 2.76 acres of site pervious area and meet the interior toilet flushing demand. (The RPBCWD engineer makes no finding or representation that the proposed reuse plan – and the reuse of stormwater in internal plumbing systems, specifically – meets other potentially applicable codes or standards, including but not limited to relevant city ordinances implementing the state plumbing code.) Stormwater reuse will provide an abstraction volume of 5,230 cubic feet.

Required Abstraction Depth (inches)	Required Abstraction Volume (cubic feet)	Provided Abstraction Depth (inches)	Provided Abstraction Volume (cubic feet)
≥0.55	>12,977	0.67	15,753

Because the proposed stormwater reuse system requires consistent use at a specified rate to meet District requirements, performance monitoring for the site will be required to ensure that the project is able to meet the RPBCWD volume abstraction requirement as has been proposed. In accordance with Rule J, Subsection 2.6 performance monitoring, and as a stipulation of issuing a permit for this project, the Applicant must submit an operations plan and monitor the proposed stormwater reuse system to determine the ability of the system to achieve the estimated volume abstraction as presented in the design. The operations and monitoring program must be included in the maintenance declaration or declarations that are recorded on the deed for each property with the County, and must include grant of mutual use and maintenance rights (i.e., the owner of each property must be able to rely on continued mutual operation and maintenance of the system). A report on reuse volume must be submitted to the RPBCWD on a yearly basis. If it is determined that the system is not performing as designed, the Applicant will need to submit a revised design and construction plan as part of an application for permit modification or a new permit and demonstrate that the volume abstraction standard continues to be met.

While some borings are close to the proposed BMP #2 and #3 they do not appear to be within the system footprint as required in Rule J, subsection 4.3c. To conform to the RPBCWD Rule J, Subsection 3.3.a the following revision is needed:

- J1. Paragraph 4.3c of the rule requires a soil boring at the proposed infiltration sites to demonstrate that the bottoms of the filtration and infiltration basins are at least 3 feet above the water table, the soils present below the basin and confirm the infiltration capacity. The applicant must submit documentation verifying the soils present, infiltration capacity of the soil and the groundwater elevation at BMP #2 and #3. This can be accomplished by soil boring, permeability tests, infiltrometer test, potholing or other methods. If the soils, groundwater elevation or infiltration capacity are less than anticipated, design modifications to ensure compliance with RPBCWD requirements would need to be submitted (in the form an application for a permit modification or new permit) .

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant provide for at least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS) from site runoff. The Applicant is proposing three underground filtration systems with elevated draitile to promote infiltration and a stormwater harvesting and reuse system for irrigation and toilet flushing to achieve the required TP and TSS removals and submitted a MIDS model to support a determination that the proposed stormwater management system will provide the necessary TP and TSS removals.

Pollutant of Interest	Regulated Site Loading (lbs/yr)	Required Load Removal (lbs/yr) ¹	Provided Load Reduction (lbs/yr)
Total Suspended Solids (TSS)	2,320	2,088 (90%)	3632 (157%) ²
Total Phosphorus (TP)	12.77	7.66 (60%)	13.8 (108%) ²

¹Required load reduction is calculated based on the removal criteria in Rule J, Subsection 3.1c and the load generated from the disturbed impervious and pervious area on the site.

²Provided removals are greater than the watershed load because more impervious surface is routed to the BMPs than is disturbed and reconstructed by the proposed project.

Based on information reviewed, the proposed project conforms to Rule J, Subsection 3.1.c.

Low floor Elevation

No structure may be constructed or reconstructed such that its lowest floor elevation is less than 2 feet above the 100-year event flood elevation according to Rule J, Subsection 3.6. The low floor elevation of the adjacent Scheels and Eden Prairie Center buildings and the adjacent stormwater management

feature is summarized below. The information demonstrates the project meets the requirements of Rule J, Subsection 3.6.

Location Riparian to Stormwater Facility	Low Floor Elevation of Building (feet)	100-year Event Flood Elevation of Adjacent Stormwater Facility (feet)	Freeboard (feet)
Scheels	884.04	881.67	2.37
Existing Eden Prairie Center	884.04	880.63	3.42

Maintenance

Subsection 3.7 of Rule J requires the submission of a maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed. Mutual rights to utilize the stormwater management system and obligations to maintain must be recorded on the deed to both properties.

- J1. Permit applicant must provide a draft maintenance and inspection plan. Once approved by RPBCWD, the plan must be recorded on the deed in a form acceptable to the District.

Rule L: Permit Fee:

Fees for the project are:

Rule C & J\$3,000

Rule M: Financial Assurance:

Rules C: Perimeter Control: 1200 L.F. x \$2.50/L.F. =\$3,000
 Restoration: 22.7 acres x \$2,500/acre =\$56,800
 Rules J: Infiltration: 43,847 sq. ft. x \$6/sq. ft. =\$263,100
 Harvest and Reuse System: 1.25 x \$125,000 =\$281,300
 Contingency (10%)\$60,400
 Administration (30%)\$199,400
 Total Financial Assurance.....\$864,000

Applicable General Requirements:

1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
2. Construction shall be consistent with the plans and specifications approved by the District as a part of the permitting process. The date of the approved plans and specifications is listed on the permit.
3. Return or allowed expiration of any remaining surety and permit close out is dependent on the permit holder providing proof that all required documents have been recorded and providing

as-built drawings that show that the project was constructed as approved by the Managers and in conformance with the RPBCWD rules and regulations.

Findings

1. The proposed project includes the information necessary, plan sheets and erosion control plan for review.
2. The proposed project conforms to will conform to Rules C and J if the Rule Specific Permit Conditions listed above are met.

Recommendation:

Approval of the permit contingent upon:

1. Continued compliance with General Requirements.
2. Financial Assurance in the amount of \$864,000.
3. Applicant providing the name and contact information of the individual responsible for erosion and sediment control at the site.
4. The applicant must submit documentation verifying the soils present, infiltration capacity of the soil and the groundwater elevation at the proposed BMP#2 and #3. This can be accomplished by soil boring, permeability test, infiltrometer test, potholing or other methods. If the soils, groundwater elevation or infiltration capacity are less than anticipated, design modifications for BMP #2 and #3 would be required.
5. The applicant must acknowledge in writing that it is aware of the potential contaminated site liability and affirm that it has elected to provide stormwater management through, in part, infiltration.
6. Receipt in recordation a maintenance declaration on each property for the mutual operation and maintenance stormwater management facilities. The declaration must also include a stormwater reuse monitoring and reporting plan, and provide mutual rights to use and obligations to maintain and operate the stormwater-management system. A draft must be approved by the District prior to recordation.

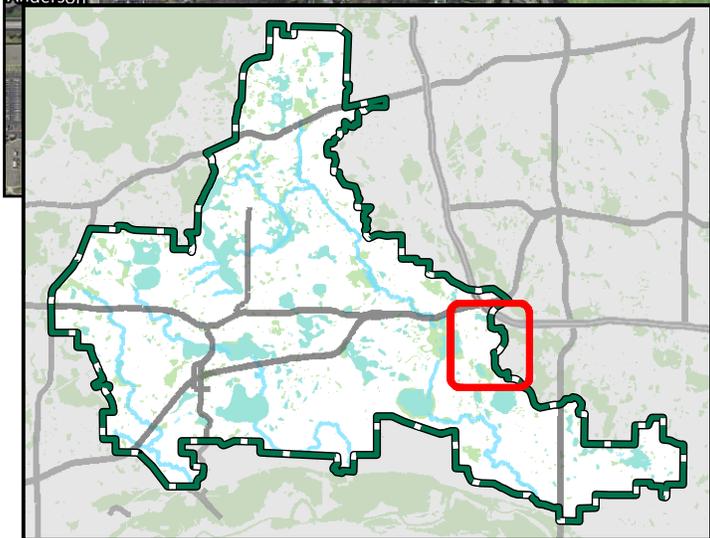
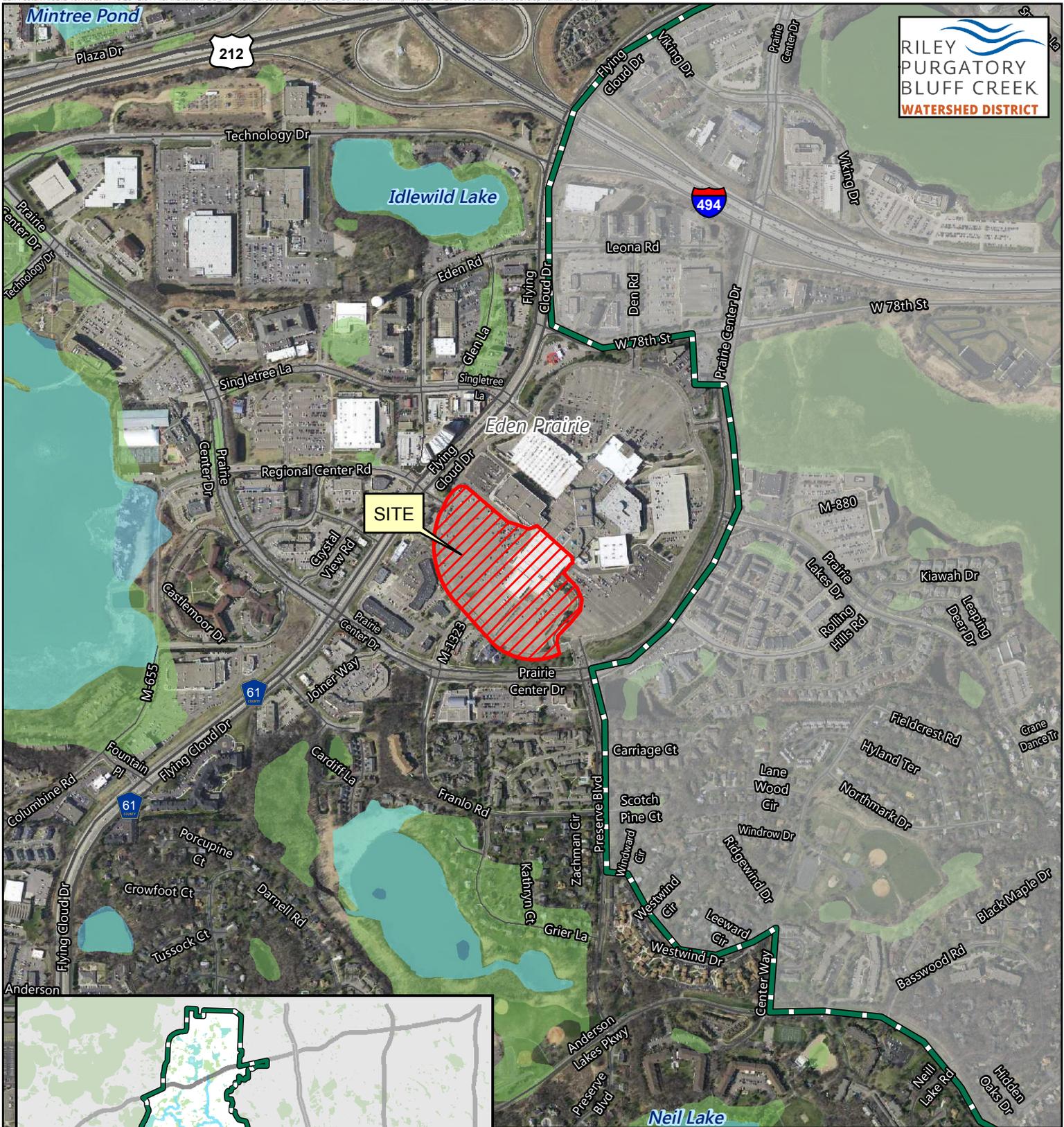
By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Per Rule J Subsection 4.5, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization, stormwater facilities conform to design specifications as approved by the District.
2. Per Rule J Subsection 2.6, performance monitoring, the Applicant must submit an operations plan and monitor the proposed stormwater reuse system to determine the ability of the system to achieve the estimated volume abstraction as presented in the design. The recorded reuse volume must be submitted to the RPBCWD annually. If it is determined that the irrigation

system is not performing as designed, a revised design must be submitted to the District as a permit modification for approval to demonstrate that the volume abstraction and water quality standard is achieved.

Board Action

It was moved by Manager _____, seconded by Manager _____ to approve permit modification for permit No. 2017-069 with the conditions recommended by staff.



Feet



Permit Location Map

SCHEELS REDEVELOPMENT
Permit 2017-069
 Riley Purgatory Bluff Creek
 Watershed District



PERFORMANCE
DRIVELINE SYSTEMS
A Division of
211 Westport Ave. St. Paul, MN 55108 | 651.281.5735



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6251 Flying Cloud Dr., Suite 125
Eden Prairie, MN 55344



SCHEELS
8001 Flying Cloud Dr.
Eden Prairie, MN 55344

PERMIT REVIEW
NOT FOR CONSTRUCTION
10-16-17

NO. DATE REVISION

1. 10/16/17 INITIAL SHEET

2. 10/16/17 REV. DEVELOPMENT PERMITS

3. 10/16/17 REV. DEVELOPMENT PERMITS

NO. DATE REVISION

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a Licensed Professional Engineer under the laws of the State of Minnesota.

DATE: 10/16/2017 REG. NO. 55297

TYPE OF PRINTED NAME: G.M.L.E. 8338

CONTRACTOR: SCHEELS, INC. ALL RIGHTS RESERVED.

**SCHEELS REDEVELOPMENT
OF SEARS & ASSOCIATED
PARKING LOT IMPROVEMENTS**

8001 Flying Cloud Dr.
Eden Prairie, MN 55344

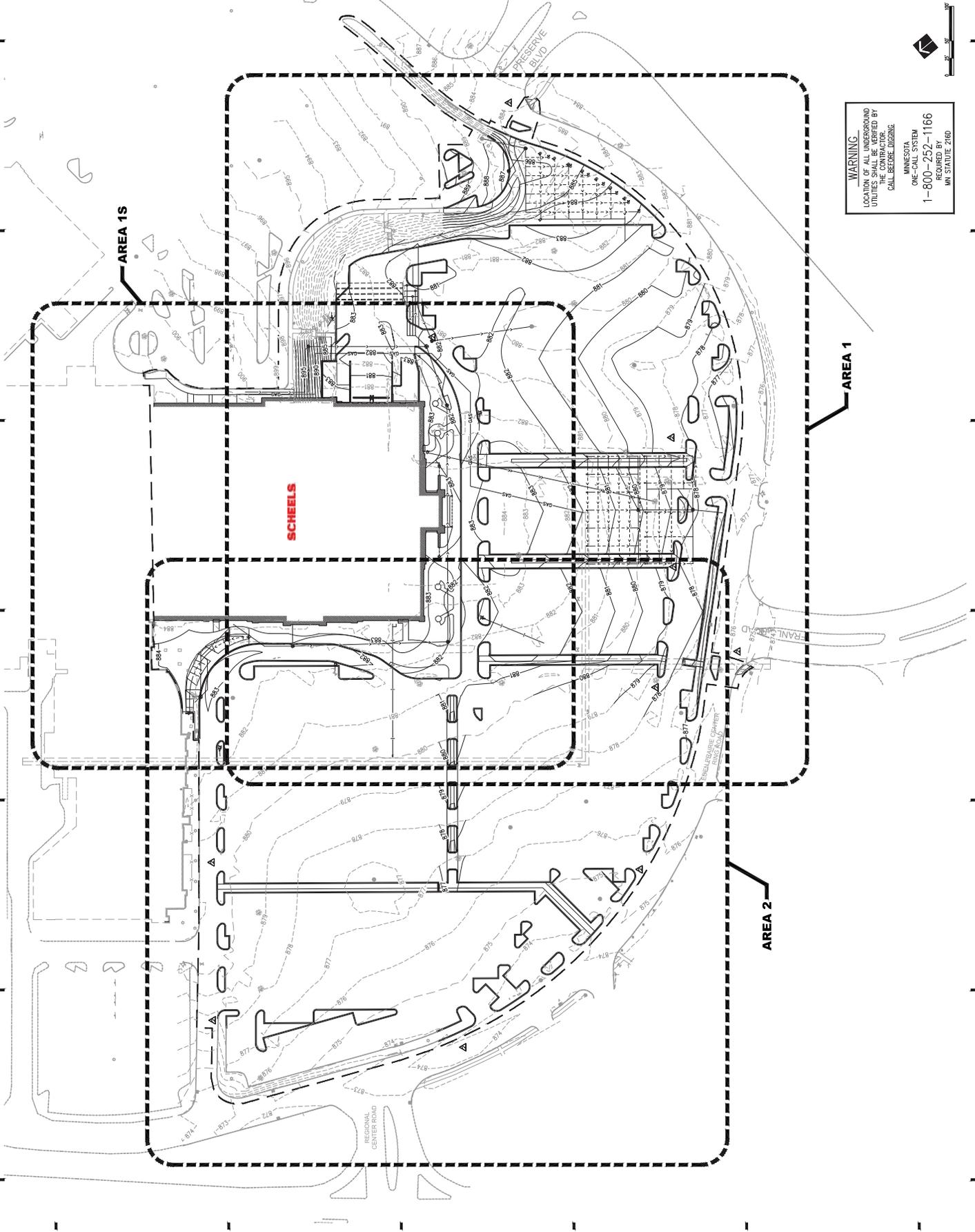
OWNER/TITLE:
**OVERALL SITE
INDEX PLAN**

MINNESOTA
ONE-CALL SYSTEM
1-800-252-1166
MIN. STATUTE 216D

WARNING
LOCATION OF ALL UNDERGROUND
UTILITIES SHALL BE VERIFIED BY
CALL BEFORE DIGGING

SCALE: 1" = 40'
DRAWN BY: J.P.P.
CHECKED BY: R.P.
DATE: 10/16/17

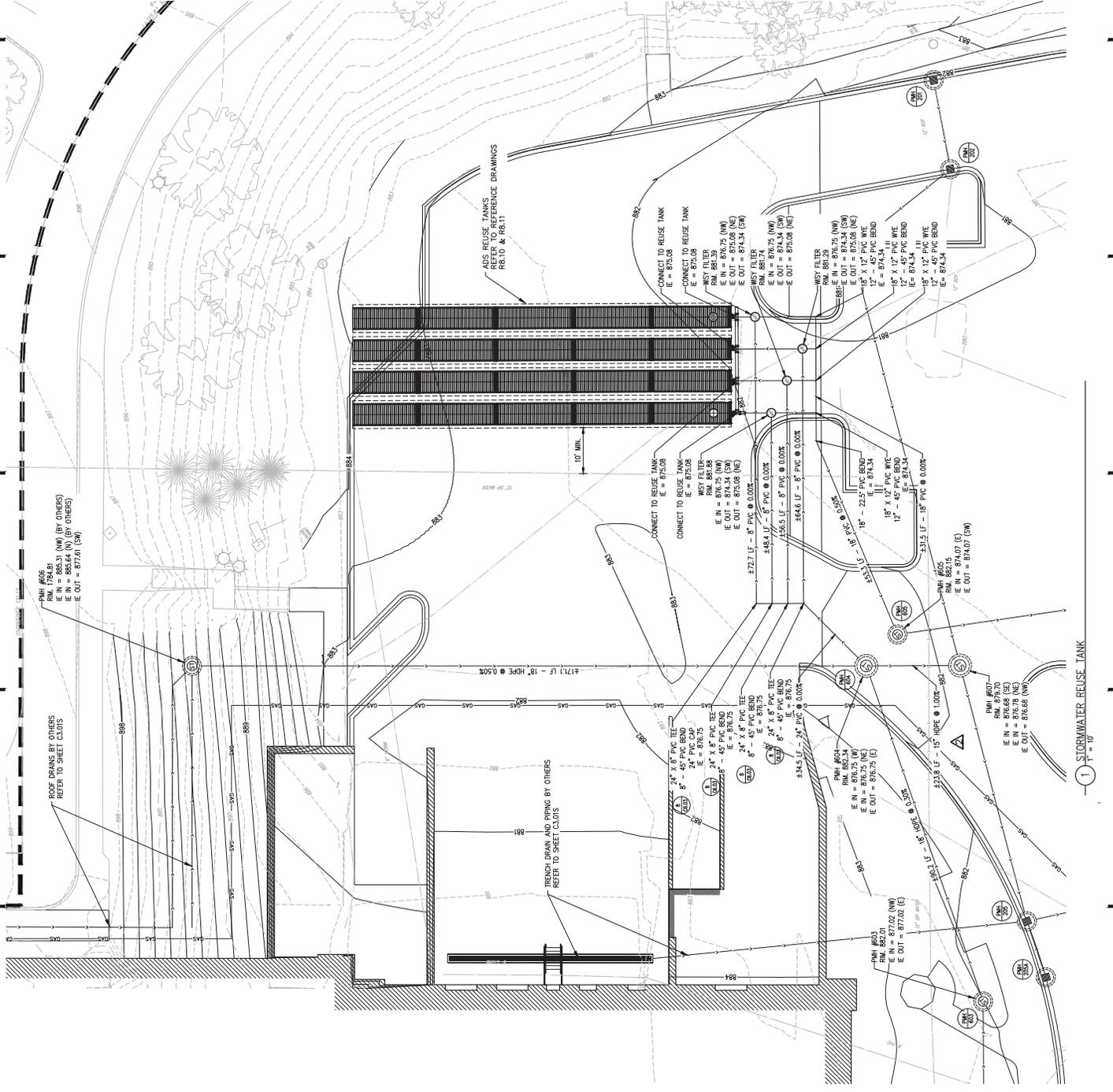
C1.00



SHEET NOTES

1. NOT ALL FITTINGS ARE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORK AND STRUCTURES AS NECESSARY TO COMPLETE THE WORK. ABANDON IN PLACE ALL PIPING AND STRUCTURES TO BE REPLACED BY PROPOSED PIPING AND STRUCTURES. GROUT ENDS AND OPENINGS.

WARNING
 LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR.
 CALL BEFORE DIGGING.
 MINNESOTA
 ONE-CALL SYSTEM
 1-800-252-1166
 REQUIRED BY
 MIN. STATUTE 21B0



PERFORMANCE
WARRANTY
MEMBER
 AIA/CES
 2018
 701 Hennepin Ave., Suite 1000, Minneapolis, MN 55402

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Eden Prairie
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 Eden Prairie, MN 55344

SCHEELS
 6301 Flying Cloud Dr.
 Eden Prairie, MN 55344

PERMIT REVIEW
 NOT FOR CONSTRUCTION
 10-16-17

THE SQUARE APPEARS TO BE 11.25' ON ALL SIDES

NO DATE REVISION

DATE: 10/26/2017



C3.11



PERFORMANCE
DRIVEN DESIGN
Landscape Architecture

R.L. Engebretson
ARCHITECTURAL & LANDSCAPE ARCHITECTURE
Fargo, ND 58102 F 701.293.5735
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6251 Flying Cloud Dr., Suite 125
Eden Prairie, MN 55344

SCHEELS
8001 Flying Cloud Dr.
Eden Prairie, MN 55344

PERMIT REVIEW
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10-22-17

THE SQUARE APPEARS TO BE 1/4" = 10'
FILLER SHEET

1	DATE	REVISION
2	ISSUED FOR	INSTRUCTIONS RELEVANT
3	ISSUED FOR	RELANDSCAPING DEVELOPMENT
4	ISSUED FOR	CONSTRUCTION
5	ISSUED FOR	CONSTRUCTION
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9	ISSUED FOR	CONSTRUCTION
10	ISSUED FOR	CONSTRUCTION

NO DATE REVISION
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
SIGNATURE: _____
TITLE OR PRINTED NAME (SM, L., RES.): _____
DATE: 10/22/2017 REG. NO.: 59297

CONTRACTOR: SCHEELS, INC. ALL RIGHTS RESERVED.
SCHEELS REDEVELOPMENT OF SEARS & ASSOCIATED PARKING LOT IMPROVEMENTS

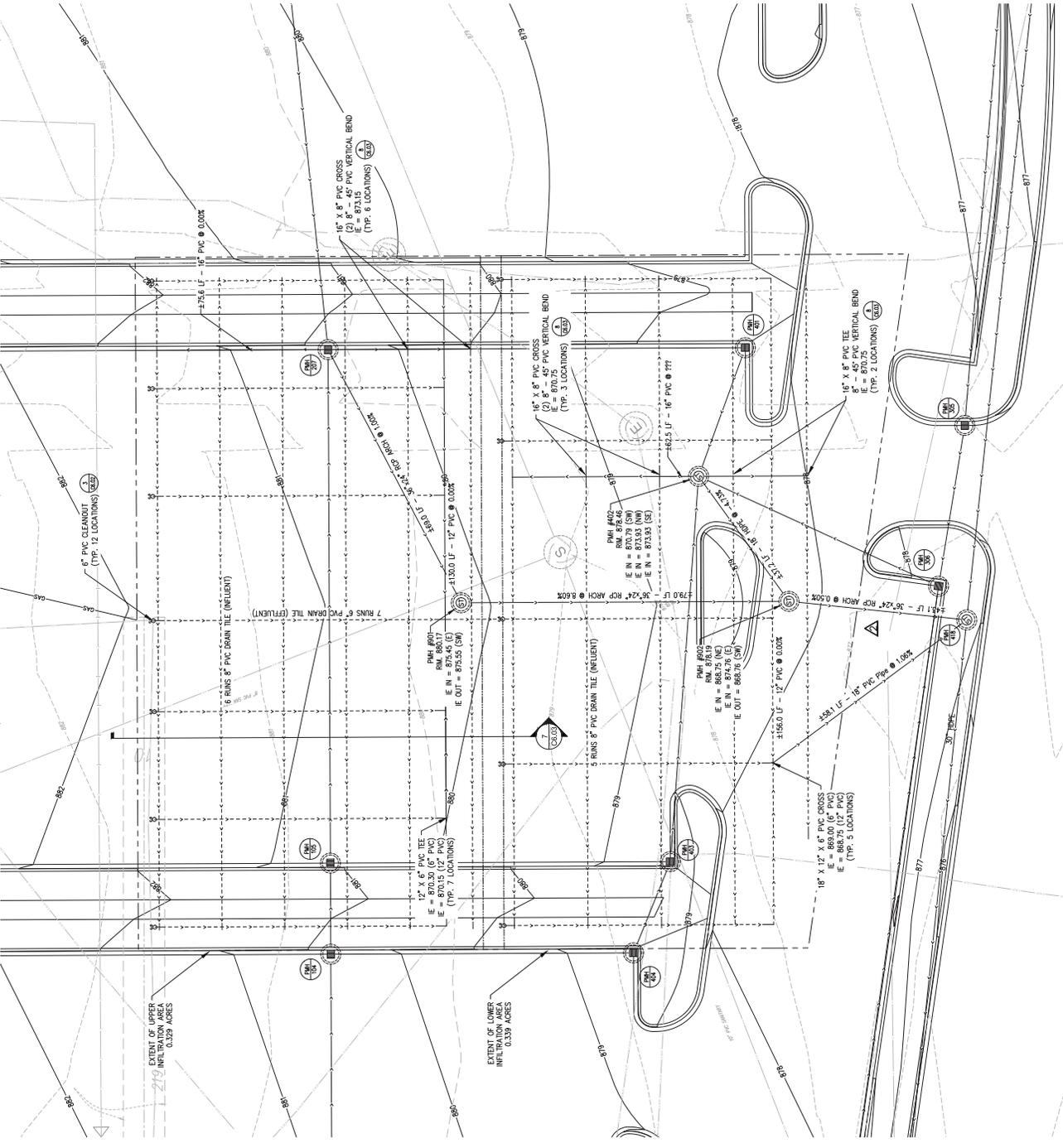
8001 Flying Cloud Dr.
Eden Prairie, MN 55344
OWNER: SCHEELS
STORM WATER TREATMENT BMP #1

10/22/2017
DRAWN BY: J.P. POK
CHECKED BY: R.P.
SCALE: AS SHOWN
DATE: 10/22/17

C3.12

SHEET NOTES

1. NOT ALL FITTINGS ARE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORKING AND STRUCTURES AS NECESSARY TO COMPLETE THE WORK. ABANDON IN PLACE ALL PIPING AND STRUCTURES TO BE REPLACED OR REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PLACEMENT OF PROPOSED SITE ELEMENTS, GROUT ENDS AND OPENINGS.
2. CONTRACTOR SHALL INSTALL A 12" DAY CAP OVER SAND SEEDS ARE FOUND DURING EXCAVATION. THE CONTRACTOR SHALL INSTALL A 12" DAY CAP OVER ALL BMP VELOCITY AND EFFLUENT PIPES SHALL BE LAB AT A FLAT GRADE UNLESS OTHERWISE NOTED.



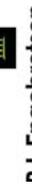
WARNING
LOCATIONS WHERE UNDERGROUND UTILITIES SHALL BE EXPOSED BY THE CONTRACTOR. CALL BEFORE DIGGING.
MINNESOTA
ONE-CALL SYSTEM
1-800-252-1166
REQUIRED BY
MN STATUTE 216D



1 - STORMWATER TREATMENT BMP #1
1" = 10'



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Eden Prairie, MN 55344

PERMIT REVIEW
NOT FOR CONSTRUCTION
10-16-17

NO.	DATE	REVISION
1	10/16/17	ISSUE FOR PERMIT
2	10/16/17	REVISED PERMITS
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NO. DATE REVISION
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4 10/16/17 REVISED PERMITS
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DATE OF PRINTED NAME: 10/16/17
DATE: 10/16/17
REV. NO.: 5597

SCHEELS REDEVELOPMENT
OF SEARS & ASSOCIATED
PARKING LOT IMPROVEMENTS

8001 Flying Cloud Dr.
Eden Prairie, MN 55344
DRAWN BY: [Name]
CHECKED BY: [Name]
STORM WATER
TREATMENT
BMP #2 & BMP #3

10/16/17
DRAWN BY: [Name]
CHECKED BY: [Name]
DATE: 10/16/17
SCALE: 1" = 10'

C3.13

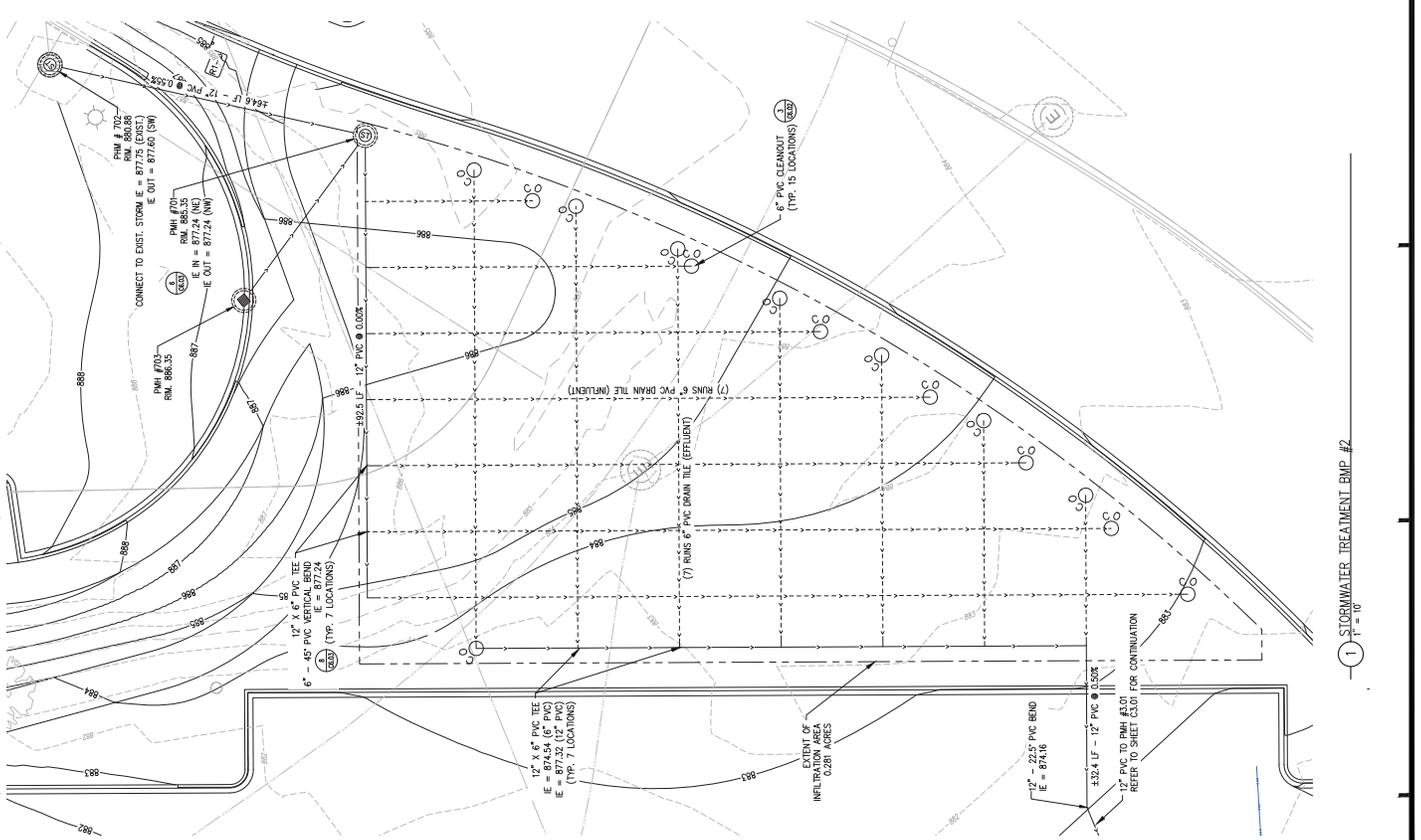
SHEET KEY NOTES

- EXISTING PILING SIZES AND ELEVATION ARE BASED ON RECORD INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

SHEET NOTES

- NOT ALL FITTINGS ARE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE WORKING AND STRUCTURES AS NECESSARY TO COMPLETE THE WORK. ABANDON IN PLACE ALL PIPING AND STRUCTURES TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT OF PROPOSED SITE ELEMENTS, GROUT ENDS AND OPENINGS. INSTALL IN CLAY SOILS. IF SAND SEAMS ARE FOUND DURING EXCAVATION, THE CONTRACTOR SHALL INSTALL A 12" CLAY CAP OVER SAND SEAMS. REFER TO THE PROJECT MANUAL FOR MATERIAL REQUIREMENTS.
- ALL BMP INLET AND EFFLUENT PIPES SHALL BE Laid AT A FLOW GRADE UNLESS OTHERWISE NOTED.

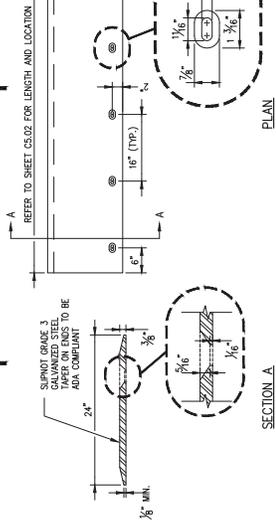
WARNING
LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED BY CALL BEFORE DIGGING. MINNESOTA ONE-CALL SYSTEM 1-800-252-1166. MNT. STATUTE 216D.



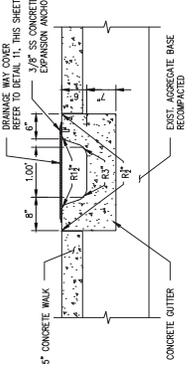
1 - STORMWATER TREATMENT BMP #2
1" = 10'

2 - STORMWATER TREATMENT BMP #3
1" = 10'

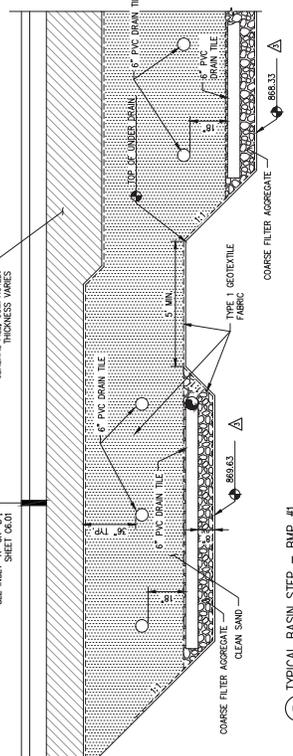




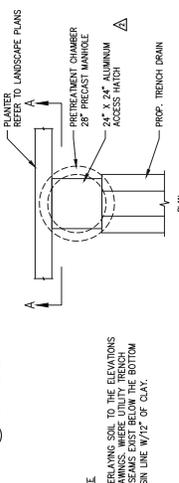
11) DRAINAGE WAY COVER
NOT TO SCALE



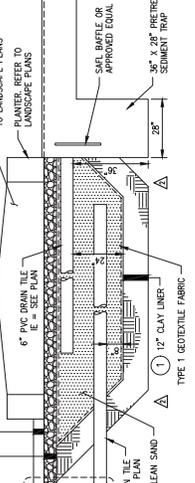
10) DRAINAGE WAY AT CURB ISLAND
NOT TO SCALE



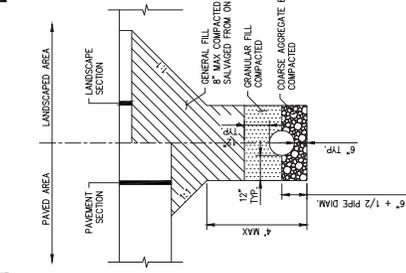
7) TYPICAL BASIN STEP - BMP #1
NOT TO SCALE



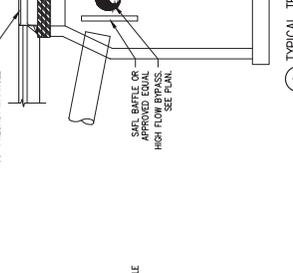
5) TYPICAL CURB ISLAND (RECLAIM SECTION)
NOT TO SCALE



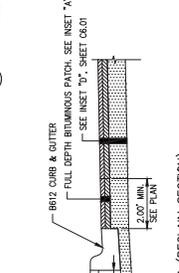
3) TYPICAL PLANTER INFILTRATION DETAIL
NOT TO SCALE



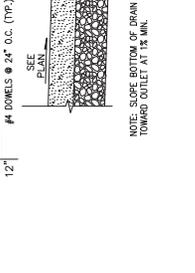
9) TYPICAL UTILITY TRENCH SECTION
NOT TO SCALE



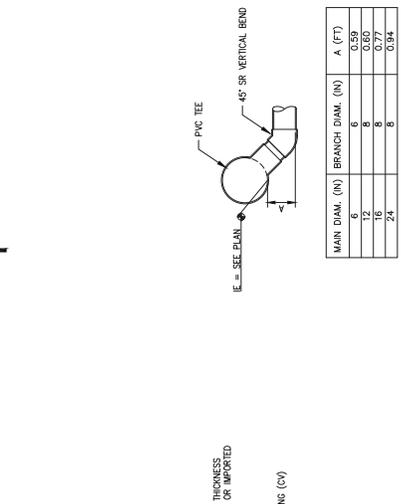
6) TYPICAL CURB ISLAND (OVERLAY SECTION)
NOT TO SCALE



4) TYPICAL CURB ISLAND (OVERLAY SECTION)
NOT TO SCALE



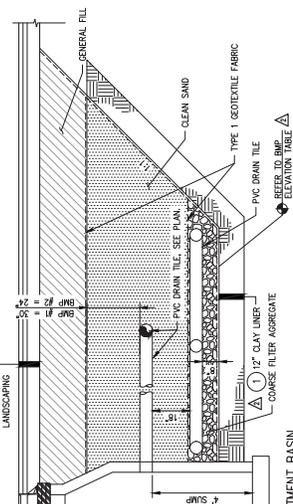
2) TRENCH DRAIN
NOT TO SCALE



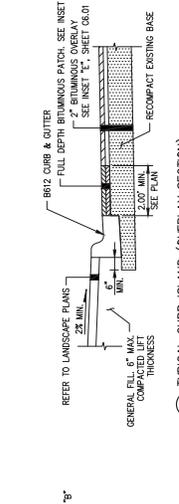
8) TYPICAL VERTICAL BRANCH CONNECTION
NOT TO SCALE

BMP ELEVATION TABLE

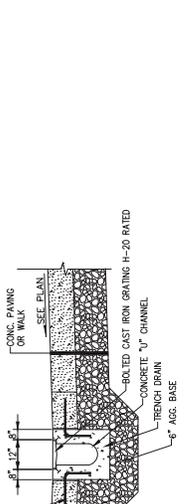
BASIN	TOP ELEVATION	BOTTOM ELEVATION
BMP #1 UPPER	889.63	889.63
BMP #2	873.87	873.87
BMP #3	878.23	878.23



6) TYPICAL TRENCH CONNECTION
NOT TO SCALE



4) TYPICAL CURB ISLAND (OVERLAY SECTION)
NOT TO SCALE



2) TRENCH DRAIN
NOT TO SCALE

PERFORMANCE
DRAINAGE
SYSTEMS

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Fargo, ND 58102 | F 701.293.5750
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think.calm.GROW

Eden Prairie
CRITICAL

825 Flying Cloud Dr., Suite 125
Eden Prairie, MN 55344

THANK YOU
SCHEELS

801 Flying Cloud Dr.
Eden Prairie, MN 55344

PERMIT REVIEW
NOT FOR CONSTRUCTION
10/24/17

THE SQUARE APPROX. 14' X 20'

FULL SHEET

1	ISSUED FOR	PERMIT REVIEW
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DATE: 10/24/17

BY: [Signature]

PROJECT: [Project Name]

DATE: 10/24/17

REV. NO. 0001

CONTRACT NO. 17-0000000000

SCHEELS REDEVELOPMENT
OF SEARS & ASSOCIATED
PARKING LOT IMPROVEMENTS

801 Flying Cloud Dr.
Eden Prairie, MN 55344

DRAWN BY: [Signature]

CIVIL DETAILS

Minutes: Monday October 16, 2017
RPBCWD Citizen's Advisory Committee Monthly Meeting
Location: RPBCWD offices: 18681 Lake Street, Chanhassen

CAC Members

Anne Deuring	P	Peter Iverson	P	Joan Palmquist	P
Jim Boettcher	P	Matt Lindon	A	David Ziegler	P
Paul Bulger	P	Sharon McCotter	P		

Others

Michelle Jordan	District Liaison	P
Claire Bleser	Administrator	P
Leslie Yetka	RPBCWD Board President	P

Summary of key actions/motions/input for the Board of Managers:

1. **Regarding length of terms of CAC members:** There is consensus within the CAC that continuity of members has not been a problem, and if that is the primary reason for adjusting term length, we do not think changes are necessary (either minimum or maximum term limits.) We are concerned that asking for longer term commitment may reduce the number of qualified volunteers applying. So, unless there are other major objectives to be achieved we recommend no change. We also request that the reapplications process be made easy for existing members who want to reapply.
2. **Attendance:** Also, please note that the 50% attendance reflected in the Position Description is inconsistent with the bylaws, which require attendance at 2/3's of the regular meetings.

Meeting

1. **Call to Order:** President Ziegler called the October 16 meeting of the CAC to order approximately 6:32 P.M. Attendance noted above. (Was Matt absent or excused? Maybe David or Michelle would know, Or you might have clarified already Joan.)
2. **Matters of General Public Interest:** None
3. **Approval of the Agenda:** Agenda approved with additions of a photo of CAC to be taken at the end of the meeting, and a discussion of impaired water assessments that were released, if time allows. Motion was made (Palmquist/Boettcher) and passed.
4. **Approval of meeting minutes from September 2017:** Move to approve by Bulger, second Deuring. Passed.
5. **Draft Ten Year Plan appendices review (All)**
 - a. **Comments**
 - § Paul mentioned that some things like alum treatments are not considered capital improvements. Perhaps, a dollar amount should be added. Administrator Bleser clarified that right now the threshold is \$100,000 for CIP and alum treatments have been put in that category because they are often such a large expense. If the amount is more than \$100K, they are required to get 3 quotes. We have identified funds for AIS, for \$50K and \$25K. His question is whether we should call this category something other than capital improvements projects. Perhaps call it CIP/or high expense projects?

- § Consensus from the CAC on the Plan: Wow, breathtaking etc. Joan and Anne did add comments to the Google document, which Claire will review.
 - § They are considering the plan making it more of a wiki, so readers can delve deeper into the document—making it interactive. But each chapter is stand alone.
 - § Question on Report Card (I and E) was clarified as incentive and education. Excellent weaving the stewardship into the E&O plan.
 - § When the prioritization tool was introduced, staff and the engineer ran some scenarios through the tool to see what results they would get. It was noted that the results skewed to a particular type of project like lakes or creeks. Modifications in the tool were made for a fairer outcome. Sharon would like to see a note of that made in the appendix as there have been discussions in the past around this type of skewing. Documenting it brings transparency to the process.
 - § Question: Difference between a quote and a bid. Quote is a request for an estimate. With a bid the watershed and engineer publish the specifics for the project and vendors must put in a bid based on the specifics.
 - § Define the LGU the first time: Local Government Unit.
 - § Status: TAC wanted help reaching out to MN Pollution Control agency, to see if other communities can take credit for helping improve a water body. How do we distribute the benefits of a project; how does a community take credit? Is there a fair way to distribute the allocation? Some communities have limitation to space (e.g. Deephaven) wanted to know if they can contribute to another communities and get “credit” for their participation. So, TAC is working with MPCA to address this question. Depending on how the MPCA responds, it may require some changes to the plan, delaying its release until December.
 - § Next steps: The Staff will review the comments we made, add comments to ours and then present it to the board.
- b. Recommendations for board and staff review: (I would remove b and the bullets under it, seems unnecessary.)**
- § CAC recommendations are as reflected in the google docs document and outlined above.
 - § There are numerous pollutants, and the restoration, green corridor, scenic wildlife etc. to consider. If there is an impaired waterbody, it must be determined how much reduction is necessary to restore the waterbody, e.g. 50 lbs. 250 lbs. Each waterbody will be different, depending on how much the model says you should remove.

6. Review 25 by 25 and see how it relates to our goals and actions (Paul - All)

- a. Paul went through 25x25 comments and how they aligned with items in the plan that addressed them. (Thank you Paul!) He showed how most of them were covered, except for: 1) Real cost /value of water, 2) Idea of cap and trade on water quality (new, unconventional idea), and 3) Embedding water resource education in state curriculum in terms of goals and strategies. Conclusion: no major gaps, or conflicts, generally in alignment.
- b. We agreed that when we get the next version of the 10 year plan back, we should review it one more time in light of the 25 x 25.

7. Updates from subcommittees as available

- a. **Storm Drain (Sharon, Matt):** Sharon and Matt split responsibilities between them, so Sharon reported on her efforts. The first ever event--storm drain cleanup is in Chanhassen next Saturday starting at 9:30; participants will meet at the parking lot by the Senior Center which is located in Chanhassen City Hall. Volunteers can sign up at city website; there are five sites to clean up. Congratulations on this first ever event! Sharon also closed the loop with Shorewood, and agreed they will be first next year, maybe in

the Spring. Sharon is giving the office manager in Chanhassen the Spark Plug award—acknowledging that they put the spark into getting the event off the ground.

- b. **Ground Water (Paul):** He reviewed the Barr plan with Groundwater in mind. A lot of the report is structured for large scale ground water recharge (retain the aquifer) but don't really describe how this works in a mostly urban area. He has heard of other markets where they do this on a watershed district—e.g. in California on a much larger scale (square miles, not the small couple of acres that we do). We don't have large scale projects, like taking over a whole soccer field and making a project. He will give his input to Claire and Scott. There will be ongoing groundwater programs, so these comments would be incorporated there as well.
- c. **Sock (Anne):** She continues to pester Minnetonka, without much success. They responded that they consider the 8-inch socks unsafe, and don't want them in the street. She is working with the DNR to try to come up with another solution e.g. filter bags. The problem with this is that you must pick up the grate and empty them, but they weigh 70 pounds, so this is not a practical solution. Anne suggested that they consider the 4-inch sock, and she is waiting to hear back.
- d. **Speaker's Bureau (Joan):** Gathering materials that already exist, from Rochester, Freshwater Society and Michelle. Will begin in more earnest in early December, for content review/editing in Jan/Feb. Paul: Suggested look at USGS site. Also note that Leslie works at the Freshwater Society.
- e. **Lake Associations (David):** Dorothy was the lead, and needs to be replaced, so Dave will lead with Pete's help. Dues and activities vary by association. Sharon to send David template of Lake Lucy bylaws, etc.

8. Minnesota Association of Watershed Districts Conference (MAWD) (David, Sharon - All)

- a. Sharon and David are going to this conference and we have budget to send two more. Let Michelle know if you are interested in going. Most of the sessions have handouts, but they don't cover everything, and a few are available online. Sharon and Dave will both send what sessions they are planning to attend, so we can provide input on the following:
 - What sessions will we want to and be able to attend?
 - What sessions will we want to report back on
- b. **Please provide feedback on what sessions you want covered, before the next meeting—or attend!**

9. Applications for CAC Members (David, Michelle)

- a. There will be new forms which are still being **worked on**. The CAC picked up on the discussion at the last Board meeting about adopting three-year terms. We considered level of commitment, and the value of having people have different terms, so we have some continuity. Some expressed concern about having a three-year commitment for the first term. Others suggested that the first term could be one year if the candidate desires, and if not then three years, and renew for three years or even having one third on each of a 1, 2 or 3-year term. We then focused on what problem this was trying to solve, and what the benefit would be. From the Board notes, it appears that the big concern was continuity, but that has not been a problem for the CAC, historically. Also, we are concerned that such a long term may reduce the number of qualified candidates who apply. We reached consensus that it does not appear to be a problem and we see no reason to change the existing one-year terms.
- b. **We will all need to reapply:** The CAC understands, and just asks that the Board makes it simple to reapply.
- c. **Feedback:** A motion was made by Joan, seconded by Jim, to provide this feedback to the Board. See the section at the top of these minutes, providing our feedback to the Board of Managers.

10. Dates for remaining CAC meetings in 2017 and agenda items for our next meeting (Nov 20th) (All)

- a. Agree to do Nov. 20 meeting as scheduled. Will determine date or need for December next month.

11. Upcoming events

- a. Chanhassen storm water cleanup event: October 21, 9:30 to 12:00 Chanhassen City Center/Senior Center
- b. Board Workshop and Regular Meeting, November 1st, 5:30 PM, 18681 Lake Drive East
- c. Cycle the Creek make up day, Saturday Oct 28nd, 10:00 AM to noon, 18681 Lake Drive East. The previously scheduled date was rained out.
- d. MAWD Conference, November 30th to December 2nd, 2017
- e. December 14, at Bent Creek Golf Course: 6:30 to 8:00 Holiday party and volunteer recognition.

12. Adjourn CAC meeting

- a. Motion to adjourn was made and seconded (Paul/Jim) at 8:27. The photo of the CAC was then taken by Michelle.

13. Agenda items for next meeting:

- Subcommittee updates
- December meeting date
- 10-year plan: executive summary appendix
- Input for MAWD
- Input for training of new CAC members: materials to provide, etc.
- Impaired water discussion: how to blend that into goals and strategies

Respectfully submitted, Joan Palmquist, recorder

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Treasurers Report

September 30, 2017

REPORT INDEX

page #	Report Name
1	Cash Disbursements
2	Fund Performance Analysis - Table 1
4	Multi- Year Project Performance Analysis - Table 2
4	Grant and Other Income Performance Analysis - Table 3
5	Balance Sheet
6	Klein Bank Visa Activity
7	Opinion Report

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Cash Disbursements

September 30, 2017

Accounts Payable	Amount
2017 BWSR Academy	\$ 270.00
Barr Engineering Company	64,329.78
Carver Soil & Water	7,467.00
CenturyLink	565.40
City of Chanhassen	11.87
City of Eden Prairie	17,700.00
Claire Bleser	494.35
Coverall of the Twin Cities	320.02
David and Candi O'Hara	3,000.00
Dell Five Business Park G-I	7,347.31
ECM Publishers, Inc.	716.75
HDR Engineering, Inc.	806.19
HealthPartners	3,548.39
JMSC Futurity, PLLC	3,775.00
Josh Maxwell	86.78
Klein Bank Visa	5,460.70
Metropolitan Council Environmental Services	2,157.50
Michelle Jordan	351.70
MN Department of Natural Resources	250.00
PLM Lake & Land Management	764.89
RMB Environmental Laboratories, Inc.	5,240.00
Shari Lackey	1,159.76
Smith Partners PLLP	13,093.57
Southwest Newspapers	1,939.59
Spee-Dee Delivery Service Inc.	241.92
Swanson Homes	250.00
Terry Jeffery	134.31
The Lincoln National Life Insurance Company	576.42
Wenck Associates Inc	1,575.30
Xcel Energy	37.91
Xcel Energy	603.11
Xcel Energy	23.53
Zachary Dickhausen	158.91
Total Accounts Payable	\$ 144,457.96

Payroll Disbursements	Amount
Payroll Processing Fee	\$ 145.00
Employee Salaries	27,097.75
Employee Payroll Taxes	2,022.18
PERA Match	1,972.83
Total Payroll Disbursements	\$ 31,237.76

Total Disbursements **\$ 175,695.72**

Memos

The 2016 mileage rate is 0.54¢ per mile. The 2017 mileage rate is 53.5¢. Klein Bank Visa will be paid online.

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Fund Performance Analysis - Table 1
September 30, 2017

	<u>2017 Budget</u>	<u>Month Ended Sep. 30, 2017</u>	<u>Year to Date Sep. 30, 2017</u>
REVENUES			
Interest Income	0.00	292.50	885.24
Other Income	0.00	0.00	3,631.69
Other Income - Refunds	0.00	0.00	5,485.18
Other Income - District Floodplain	0.00	0.00	22,080.00
Plan Implementation Levy	2,859,000.00	0.00	1,470,610.37
Permit Income	15,000.00	(250.00)	38,708.60
TOTAL REVENUES	\$ 2,874,000.00	\$ 42.50	\$ 1,541,401.08

EXPENDITURES

Administration

Accounting/Audit	\$ 39,500.00	\$ 3,920.00	\$ 32,718.30
Advisory Committee	4,000.00	0.00	3,665.94
Engineering Services	103,000.00	6,778.50	63,428.70
Insurance and Bonds	12,000.00	843.42	7,111.96
Legal Services	75,000.00	4,888.48	54,940.11
Manager Expenses	18,500.00	207.01	9,104.00
Dues and Memberships	8,000.00	25.00	6,734.00
Office Costs	155,000.00	10,993.70	126,651.86
Permit Review and Inspection	120,000.00	13,701.79	153,957.40
Recording Services	15,000.00	1,416.34	10,304.65
Employee Cost	450,000.00	36,601.67	281,213.79
Total Administration Costs	\$ 1,000,000.00	\$ 79,375.91	\$ 749,830.71

Programs and Projects

District Wide

‡ Education & Outreach	\$ 114,000.00	5,236.76	54,564.92
AIS Inspection and Early Response	75,000.00	18,464.89	18,572.30
Cost Share Program	200,000.00	11,557.26	28,178.05
District Wide Floodplain Eval- Atlas 14	30,000.00	726.13	2,285.45
Data Collection	180,000.00	11,200.41	101,707.13
U of M Plant Restoration	75,000.00	0.00	27,931.26
TMDL	10,000.00	0.00	1,028.00
District Floodplain Vulnerability	0.00	(405.76)	0.00
○ Watershed - 10 Year Plan	75,000.00	12,313.80	91,669.47
○ Repair and Maintenance	100,000.00	0.00	0.00
○ ♦ Community Resilience MPCA	0.00	0.00	28,426.55
○ ♦ Creek Restoration Action Strategies Phase 2	20,000.00	0.00	11,487.00
District Groundwater Assessment	30,000.00	0.00	27,783.00
Total District Wide Costs	\$ 909,000.00	\$ 59,093.49	\$ 393,633.13

Bluff Creek One Water

○ ♦ Fish Passage Bluff Creek	\$ 0.00	(23,246.01)	(11,168.58)
○ Bluff Creek Tributary	0.00	11,168.58	29,374.35
○ ♦ Chanhassen HS reuse	50,000.00	302.00	97,385.90
Bluff Creek Tributary	0.00	23,288.21	23,288.21

- Denotes Multi-Year Project - See Table 2 for details
- ♦ Grants are supplementing the projects - See table 3 for further details
- * Denotes the project will be overlapping by one year as it was not fully complete by year end.
- ‡ Includes the Master Design Items - See Table 2 to details

See Accountants Compilation Report

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Fund Performance Analysis - Table 1
September 30, 2017

	<u>2017 Budget</u>	<u>Month Ended Sep. 30, 2017</u>	<u>Year to Date Sep. 30, 2017</u>
Total District Wide Costs	\$ 50,000.00	\$ 11,512.78	\$ 138,879.88
Riley Creek One Water			
Lake Riley EWM Treatment	\$ 25,000.00	0.00	22,325.20
○ Lake Riley Alum Treatment	0.00	769.20	1,451.05
○ ♦ Lake Susan Improvement Phase 2	0.00	11,356.45	29,746.97
○ ♦ Chanhassen Town Center	0.00	0.00	12,605.56
Rice Marsh Lake Aeration	0.00	(15.88)	0.00
Lake Riley - CLP Treatment	10,000.00	0.00	7,173.37
Lake Susan - CLP Treatment	10,000.00	0.00	3,074.30
Rice Marsh Lake WQ Improvement - Phase 1	20,000.00	0.00	0.00
Rice Marsh Lake Winter Fish Kill Prevention	10,000.00	15.88	414.45
Riley Creek Restoration	600,000.00	5,818.50	30,368.60
Total Riley Creek One Water Costs	\$ 675,000.00	\$ 17,944.15	\$ 107,159.50
Purgatory Creek One Water			
○ Purgatory Creek Restoration	\$ 0.00	616.50	38,318.00
Mitchell Lake Plant Management	15,000.00	0.00	2,261.83
Red Rock Lake Plant Management	15,000.00	0.00	4,064.89
Starring Lake Plant Management	20,000.00	0.00	7,949.98
♦ Fire Station 2 Water Reuse	20,000.00	0.00	17,778.74
Purgatory Creek Rec Area	50,000.00	0.00	0.00
Hyland Lake UAA	20,000.00	1,357.50	18,250.50
Lotus Lake - Phase 1	20,000.00	806.10	806.10
Silver Lake Restoration - Phase 1	20,000.00	545.50	793.50
○ ♦ Scenic Heights	0.00	4,291.10	32,461.42
Total Purgatory Creek One Water Costs	\$ 180,000.00	\$ 7,616.70	\$ 122,684.96
Contingency Reserve			
Contingency Reserve	\$ 45,000.00	\$ 0.00	\$ 0.00
Total Contingency Reserve Costs	\$ 45,000.00	\$ 0.00	\$ 0.00
TOTAL EXPENDITURES	\$ 2,859,000.00	\$ 175,543.03	\$ 1,512,188.18
Excess (Deficiency)	\$ 15,000.00	\$ (175,500.53)	\$ 29,212.90

- Denotes Multi-Year Project - See Table 2 for details
- ♦ Grants are supplementing the projects - See table 3 for further details
- * Denotes the project will be overlapping by one year as it was not fully complete by year end.
- ‡ Includes the Master Design Items - See Table 2 to details

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Multi-Year Project Performance Analysis - Table 2
September 30, 2017

	<u>Total Available for Project</u>	<u>2017 Budget</u>	<u>Month Ended Sep. 30, 2017</u>	<u>Year to Date Sep. 30, 2017</u>	<u>Lifetime Costs</u>	<u>Remaining Budget Funds</u>
Projects						
○ ◆ Chanhassen Town Center	63,000.00	0.00	0.00	12,605.56	35,196.56	27,803.44
○ ◆ Fish Passage Bluff Creek	415,000.00	0.00	(23,246.01)	(11,168.58)	13,624.81	401,375.19
○ Lake Lucy Iron Enhanced	85,000.00	0.00	0.00	0.00	62.32	84,937.68
○ Lake Riley Alum Treatment	260,000.00	0.00	769.20	1,451.05	236,428.61	23,571.39
○ Lake Susan Improvements	275,000.00	0.00	0.00	0.00	272,134.10	2,865.90
○ ◆ Lake Susan Improvement Ph 2	383,400.00	0.00	11,356.45	29,746.97	46,488.75	336,911.25
○ Purgatory Creek Restoration	661,094.00	0.00	616.50	38,318.00	369,543.56	291,550.44
○ ◆ Chanhassen HS Reuse	250,000.00	50,000.00	302.00	97,385.90	108,523.00	141,477.00
○ ◆ Community Resilience MPCA	47,000.00	0.00	0.00	28,426.55	46,601.68	398.32
○ ◆ Scenic Heights	260,000.00	0.00	4,291.10	32,461.42	32,461.42	227,538.58
○ Bluff Creek Tributary	200,000.00	0.00	11,168.58	29,374.35	29,374.35	170,625.65
Total Multi-Year Project Costs	\$ 2,899,494.00	\$ 50,000.00	\$ 5,257.82	\$ 258,601.22	\$ 1,190,439.16	\$ 1,709,054.84
Programs						
○ Repair and Maintenance	\$102,005.00	100,000.00	0.00	0.00	0.00	102,005.00
○ Survey and Analysis	37,257.00	0.00	0.00	0.00	24,165.26	13,091.74
Total Program Costs	\$ 139,262.00	\$ 100,000.00	\$ 0.00	\$ 0.00	\$ 24,165.26	\$ 115,096.74
Other						
Total Other	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Total Multi-Year Project Costs	\$ 3,038,756.00	\$ 150,000.00	\$ 5,257.82	\$ 258,601.22	\$ 1,214,604.42	\$ 1,824,151.58

Grant and Other Income Performance Analysis - Table 3
September 30, 2017

	<u>Total Available for Project</u>	<u>Total Grant Amount</u>	<u>Required District Match</u>	<u>Additional District Funds</u>	<u>Partner Funds</u>
○ ◆ Chanhassen Town Center	\$ 63,000.00	\$ 48,000.00	\$ 12,000.00	\$ 3,000.00	\$ 0.00
○ ◆ Fish Passage Bluff Creek	415,000.00	150,000.00	37,500.00	77,500.00	150,000.00
○ ◆ Lake Susan Improvement Ph 2	383,400.00	233,400.00	58,350.00	91,650.00	0.00
◆ Metropolitan Council - WOMP	5,000.00	5,000.00	0.00	0.00	0.00
○ Chanhassen HS Reuse	250,000.00	200,000.00	50,000.00	0.00	0.00
◆ Fire Station 2 Water Reuse	98,287.00	73,715.00	24,572.00	0.00	0.00
○ ◆ Community Resilience MPCA	47,000.00	27,000.00	10,000.00	0.00	10,000.00
○ ◆ Scenic Heights	260,000.00	50,000.00	0.00	165,000.00	45,000.00
Total Grants and Other Income	\$ 1,521,687.00	\$ 787,115.00	\$ 192,422.00	\$ 337,150.00	\$ 205,000.00

- Denotes Multi-Year Project - See Table 2 for details
- ◆ Grants are supplementing the projects - See table 3 for further details
- * Denotes the project will be overlapping by one year as it was not fully complete by year end.
- ‡ Includes the Master Design Items - See Table 2 to details

See Accountants Compilation Report

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Balance Sheet

As of September 30, 2017

ASSETS

Current Assets

Checking	\$	1,502,005.41
Money Market Savings		0.00
Investments		2,469,000.00
Standing Cash in Investment Account		868.07
Total Current Assets	\$	<u>3,971,873.48</u>

Other Assets

Security Deposit		9,744.00
Prepaid Expenses		49,007.61
Delinquent Property Taxes		17,622.16
Total Other Assets	\$	<u>76,373.77</u>

Total Assets

\$ 4,048,247.25

LIABILITIES AND NET ASSETS

Liabilities

Current Liabilities

Accounts Payable	\$	146,613.12
Payroll Withholding		309.84
Accrued Payroll		10,816.15
PERA Withholding		3,884.21
Total Current Liabilities	\$	<u>161,623.32</u>

Other Current Liabilities

Retainages Payable		21,494.03
Total Other Current Liabilities	\$	<u>21,494.03</u>

Long-Term Liabilities

Deferred Revenues	\$	17,622.16
Unearned Revenue		132,396.16
Permit Escrows		616,900.00
Total Long-Term Liabilities	\$	<u>766,918.32</u>

Total Liabilities

\$ 950,035.67

Net Assets

Cumulative Fund Balance	\$	3,068,998.68
Excess (Deficiency) Current		29,212.90

Total Net Assets

\$ 3,098,211.58

Total Liabilities and Net Assets

\$ 4,048,247.25

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Klein Bank Visa Activity

September 20, 2017

DATE	PURCHASE FROM	AMT	DESCRIPTION	ACCT #	Total
6-Sep	26 Piada	\$ 207.01	Manager General Expensea	70402	\$ 207.01
14-Jun	Starbucks	\$ 5.39	Conferences and Training - Staff	71002	
22-Aug	Awra-Internet	\$ 15.00	Conferences and Training - Staff	71002	
30-Aug	Expedia	\$ 397.10	Conferences and Training - Staff	71002	
11-Sep	Wal-Mart	\$ 5.95	Conferences and Training - Staff	71002	
12-Sep	Perkins	\$ 17.47	Conferences and Training - Staff	71002	
13-Sep	UWSP	\$ 493.00	Conferences and Training - Staff	71002	
13-Sep	UWSP	\$ 350.00	Conferences and Training - Staff	71002	
14-Sep	UWSP	\$ 350.00	Conferences and Training - Staff	71002	
15-Sep	Burger King	\$ 5.25	Conferences and Training - Staff	71002	
16-Sep	371 Diner	\$ 16.00	Conferences and Training - Staff	71002	\$ 1,655.16
22-Aug	Merlins Ace Hdwe	\$ 6.67	Education and Outreach	93002	
23-Aug	Kowalski's	\$ 17.47	Education and Outreach	93002	
24-Aug	Home Depot	\$ 4.27	Education and Outreach	93002	
29-Aug	Cub Foods	\$ 20.77	Education and Outreach	93002	
31-Aug	Facebook	\$ 2.84	Education and Outreach	93002	
4-Sep	Amazon	\$ 38.77	Education and Outreach	93002	
5-Sep	Amazon	\$ 39.19	Education and Outreach	93002	
6-Sep	Amazon	\$ 8.24	Education and Outreach	93002	
7-Sep	Amazon	\$ 8.39	Education and Outreach	93002	
7-Sep	Shutterfly	\$ 41.90	Education and Outreach	93002	
15-Sep	Amazon	\$ 130.56	Education and Outreach	93002	
15-Sep	Amazon	\$ 173.94	Education and Outreach	93002	
15-Sep	U of M Bookstores	\$ 524.70	Education and Outreach	93002	
16-Sep	U of M Bookstores	\$ 698.45	Education and Outreach	93002	
19-Sep	U of M Bookstores	\$ 113.09	Education and Outreach	93002	\$ 1,829.25
1-Sep	Culvers	\$ 27.11	Data Collection	100802	
8-Sep	Holiday Station	\$ 50.18	Data Collection	100802	
11-Sep	Cabela's	\$ 11.15	Data Collection	100802	
13-Sep	Napa	\$ 38.81	Data Collection	100802	
11-Sep	Subway	\$ 7.68	Data Collection	100802	
15-Sep	Superamerica	\$ 37.57	Data Collection	100802	\$ 172.50
23-Aug	McDonalds SA	\$ 16.77	Unauthorized fraudulent use by an unidentified entity	170402	
29-Aug	Randy's Sanitation	\$ 49.61	Office Cost	170402	
8-Sep	General Delivery	\$ 34.86	Office Cost	170402	
9-Sep	Microsoft	\$ 80.46	Office Cost	170402	
11-Sep	4002 Bose Corp SST	\$ 750.82	Unauthorized fraudulent use by an unidentified entity	170402	
15-Sep	General Delivery	\$ 23.39	Office Cost	170402	
19-Sep	Verizon	\$ 14.25	Office Cost	170402	
19-Sep	Verizon	\$ 626.62	Office Cost	170402	\$ 1,596.78

TOTAL PURCHASES \$ 5,460.70

\$ 5,460.70

Total Credits



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Riley Purgatory Bluff Creek
Watershed District
Eden Prairie, MN

To the Board of Managers:

Accountant’s Opinion

The Riley Purgatory Bluff Creek Watershed District is responsible for the accompanying September 30, 2017 Treasurer’s Report in the prescribed form. We have performed a compilation engagement in accordance with the Statements on Standards for Accounting and Review promulgated by the Accounting and Review Services Committee of the AICPA. We did not audit or review the Treasurer’s Report nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by the Riley Purgatory Bluff Creek Watershed District. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on the Treasurer’s Report.

Reporting Process

The Treasurer’s Report is presented in a prescribed form mandated by the Board of Managers and is not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America. The reason the Board of Managers mandates a prescribed form instead of GAAP (Generally Accepted Accounting Principles) is this format gives the Board of Managers the financial information they need to make informed decisions as to the finances of the watershed.

GAAP basis reports would require certain reporting formats, adjustments to accrual basis and supplementary schedules to give the Board of Managers information they need, making GAAP reporting on a monthly basis extremely cost prohibitive. An outside independent auditing firm is retained each year to perform a full audit and issue an audited GAAP basis report. This annual report is submitted to the Minnesota State Auditor, as required by Statute, and to the Board of Water and Soil Resources.

The Treasurer’s Report is presented on a modified accrual basis of accounting. Expenditures are accounted for when incurred. For example, payments listed on the Cash Disbursements report are included as expenses in the Treasurer’s Report even though the actual payment is made subsequently. Revenues are accounted for on a cash basis and only reflected in the month received.

JMSC, PLLC
St. Louis Park, MN
October 26, 2017

Buffalo: 215 Hwy 55 East, #306 Buffalo, MN 55313 p: 763.682.6458 f: 763-682-1880
Minneapolis: 5000 West 36th Street, #240 St. Louis Park, MN 55416 p: 952-540-4340 f: 952-540-4345
Plymouth: 3020 Harbor Lane North, #101 Plymouth, MN 55447 p:763-424-8261 f: 763-404-8681

November 2, 2017

Kate Aanenson, AICP
Community Development Director
City of Chanhassen
7700 Market Boulevard
P.O. Box 147
Chanhassen, MN 55317

Ms. Aanenson,

Riley-Purgatory-Bluff Creek Watershed District has received notice of the release of the draft City of Chanhassen 2040 Comprehensive Plan and has accessed the draft plan online. Thank you for the timely opportunity to review and provide comment on the draft plan.

The draft notes that the city's final comprehensive plan will incorporate its local water management plan, prepared in accordance with and to fulfill the requirements in Minnesota Statutes section 103B.235 and relevant portions of Minnesota Rules 8410. The draft comprehensive plan includes only a set of goals for the local water management plan. City staff have separately advised that the draft updated local water management plan is expected to be complete in late November. As you know, section 103B.235, subdivision 3, requires that the city submit the draft local water management plan to RPBCWD (and other watershed organizations in the city) for review and approval as consistent with RPBCWD's watershed management plan.

RPBCWD may have limited comments on the city's draft comprehensive plan generally, and will include those with the communication of the results of its review of the local water management plan. The 60-day statutory period for RPBCWD's review and approval will commence on receipt by RPBCWD of the draft local water plan, and RPBCWD will timely communicate with the city on the results of its review. We look forward to receiving and reviewing the city's draft updated water management plan.

Sincerely,



Dr. Claire Bleser, Administrator

c/ Leslie Yetka, President, RPBCWD Board of Managers; Michael Welch, Smith Partners PLLP

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2017-039

Received complete: May 22, 2017 (review timeline extensions approved on July 20, 2017 with Manager concurrence at August 2, 2017 meeting with additional extensions at September 6, 2017 and October 4, 2017 meetings)

Applicant: Headwaters Development, Michael Hoagberg

Consultant: BKBM Engineers, Keith Matte

Project: Mission Hills Senior Living – Disturbance of 8.64 acres to construct a 52,000 square foot senior housing building, eight townhome buildings, five biofiltration basins with underlying infiltration, and a water reuse system.

Location: Northeast Quadrant of MN Highway 101 and US Highway 212, Chanhassen, MN

Reviewer: Scott Sobiech, PE- Barr Engineering

Rules: Applicable rules checked

	Rule B: Floodplain Management		Rule H: Appropriation of Public Waters
X	Rule C: Erosion and Sediment Control		Rule I: Appropriation of Groundwater
	Rule D: Wetland and Creek Buffers	X	Rule J: Stormwater Management
	Rule E: Dredging and Sediment Removal		Rule K: Variances and Exceptions
	Rule F: Shoreline/Streambank Stabilization	X	Rule L: Permit Fees
	Rule G: Waterbody Crossings	X	Rule M: Financial Assurances

Rule Conformance Summary

Rule	Issue	Conforms to RBPCWD Rules?	Comments	
C	Erosion Control Plan	See Comment	See Rule Specific Permit Condition C1.	
J	Stormwater Management	Rate	Yes	
		Volume	See Comment	See Rule Specific Permit Condition J1.
		Water Quality	Yes	
		Low Floor Elev.	Yes	
		Maintenance	See Comment	See Rule Specific Permit Condition J2.
L	Permit Fee	Yes	\$2,000 was received on May 22, 2017. Additional \$700 for excess cost recovery	
M	Financial Assurance	See Comment	The financial assurance has been calculated at \$414,100.	

Project Description

The project proposes the construction of a 52,000 square foot senior housing building and 8 townhome buildings. Parking, walking paths, and sidewalks will be provided to service the proposed buildings. The project includes the installation of five biofiltration basins with elevated drain tile to provide infiltration (i.e., biofiltration basins), sump catch basins, stormwater reuse, and grass swales to provide storm water quantity, volume, and quality control. The site is currently a farm field used for row crops. In 2015, the applicant proposed a larger senior living facility on a different site layout. The Board of Managers conditionally approved the application under permit 2015-002. Because the conditions of approval were not fulfilled prior to the expiration of the conditional approval, the applicant submitted a new permit application and supporting materials for the proposed work

The project site information is summarized below:

1. Total Site Area: 8.64 acres
2. Existing Site Impervious Area: 0.0 acres (0 square feet)
3. Post Construction Site Impervious: 4.03 acres (175,547 square feet)
4. New (Increase) in Site Impervious Area: 4.03 acres (175,547 square feet)
5. Total Disturbed Area: 8.64 acres

Exhibits:

1. Permit Application dated May 22, 2017
2. Plan sheets C000 – C500 dated May 22, 2017 (received October 13, 2017)
3. Hydrology Report dated May 22, 2017 (revised October 13, 2017)
4. Geotechnical Evaluation Report dated November 18, 2014
5. MIDS Calculator file dated June 27, 2017 (revised version received October 13, 2017)
6. Groundwater Mounding memo dated June 30, 2017 (with additional Plot 2 submittal October 13, 2017)
7. Response to comments dated July, 6, 2017, October 5, 2017, October 6, 2017, and October 13, 2017.

Rule Specific Permit Conditions

Rule C: Erosion and Sediment Control

Because the project will alter 8.64 acres (376,358 square feet) of land-surface area the project must conform to the requirements in the RPBCWD Erosion and Sediment Control rule (Rule C, Subsection 2.1).

The erosion control plan prepared by BKBM Engineers includes installation of silt fence, inlet protection for storm sewer catch basins, a rock construction entrance, placement of a minimum of 6 inches of

topsoil, decompaction of areas compacted during construction, and retention of native topsoil onsite. To conform to the RPBCWD Rule C requirements the following revisions are needed:

- C1. The Applicant must provide the name and contact information of the individual responsible for erosion control at the site. RPBCWD must be notified if the responsible individual changes during the permit term.

Rule J: Stormwater Management

Because the project will alter 8.64 acres (376,358 square feet) of surface area, approval under the RPBCWD Stormwater Management Rule is required. Because this is new development, the RPBCWD stormwater management criteria apply to the entire project site.

The developer is proposing construction of five biofiltration basins with elevated draintile to provide underground infiltration, sump catch basins, and stormwater reuse irrigation system, and grass swales to provide the required rate control, volume abstraction and water quality management on the site.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The Applicant used a HydroCAD hydrologic model to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the site are summarized in the table below.

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
North	7.1	1.7	12.5	7.5	23.1	18.7	2.4	1.8
South	8.8	1.3	15.6	3.1	28.5	24.9	2.7	2.7
East	3.2	0.5	5.7	1.0	10.4	2.0	1.1	0.2

The proposed project conforms to RPBCWD Rule J, Subsection 3.1.a.

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from all impervious surface of the parcel. An abstraction volume of 16,092 cubic feet is required from the 4.03 acres

(175,547 square feet) of impervious area on the project for volume retention. However, as discussed in detail below, in accordance with subsection 3.3 of the rule, the engineer concurs that the applicant has submitted data to support a determination that the full abstraction requirement cannot be practicably met. To meet the reduced requirement of subsection 3.3, the Applicant proposes five biofiltration basins with elevated draisile to provide underground infiltration, stormwater reuse irrigation system, and grass swales to abstract runoff from the site. Sump catch basins will provide pretreatment of runoff prior to biofiltration basin (Rule J, Subsection 3.1b.i).

The 19 soil borings performed by Braun Intertec Corp show that soils in the project area consist primarily sandy lean clay or clay soils that extended to the termination depths of the borings. The MN Stormwater Manual indicates an infiltration rate of 0.06 inches per hour for such soils. The soil boring information summarized in the table below shows that groundwater is at least 3 feet below the bottom of the proposed biofiltration basins (Rule J, Subsection 3.1.b.ii).

Proposed BMP	Groundwater Elevation (feet)	BMP Bottom Elevation (feet)	Separation (feet)
Biofiltration Basin 1	No groundwater observed at nearest boring bottom (el 889)	901.0	12.2
Biofiltration Basin 2	No groundwater observed at nearest boring bottom (el 889.7)	914.43	24.73 (see condition)
Biofiltration Basin 3	No groundwater observed at nearest boring bottom (el 905.6)	908.0	2.4 (see condition)
Biofiltration Basin 4	No groundwater observed at nearest boring bottom (el 892.5)	909.0	16.5(see condition)
Biofiltration Basin 5	No groundwater observed at nearest boring bottom (el 892.2)	904.51	12.31

The applicant submitted a geotechnical report containing the results of 19 soil borings to confirm the presence of predominately sandy lean clay or clay soils. The Engineer concurs that because soil information shows the majority of this site is underlain with sandy lean clay or clay soils, the abstraction standard in Subsection 3.1 of Rule J cannot practicably be met, given the proposed intensity of development, which limits the amount of green space available for irrigation. The site is considered a restricted site and stormwater runoff volume must be managed in accordance with Subsection 3.3 of Rule J. For restricted sites, Subsection 3.3 of Rule J requires rate control in accordance with Subsection 3.1a and that abstraction and water quality protection be provided in accordance with the following sequence: (a) Abstraction of at least 0.55 inches of runoff from site impervious surface determined in accordance with paragraphs 2.3, 3.1 or 3.2, as applicable, and treatment of all runoff to the standard in paragraph 3.1c; or (b) Abstraction of runoff onsite to the maximum extent practicable and treatment of

all runoff to the standard in paragraph 3.1c; or (c) Off-site abstraction and treatment in the watershed to the standards in paragraph 3.1b and 3.1c.

The use of five biofiltration basins with elevated draitile to provide underground infiltration and grass swales will provide 6,487 cubic feet of abstraction. Water reuse was found to be a feasible option to irrigate the site pervious area (3.0 acres) and will provide an abstraction volume of 4,612 cubic feet.

Required Abstraction Depth (inches)	Required Abstraction Volume (cubic feet)	Provided Abstraction Depth (inches)	Provided Abstraction Volume (cubic feet)
≥0.55	16,092	<u>0.76</u>	11,099

Because the proposed water reuse irrigation system requires consistent use at a specified rate to meet District requirements, performance monitoring for the site will be required to ensure that the project is able to meet the RPBCWD volume abstraction requirement as has been proposed. In accordance with Rule J, Subsection 2.6 performance monitoring, and as a stipulation of issuing a permit for this project, the Applicant must submit an operations plan and monitor the proposed irrigation system to determine the ability of the system to achieve the estimated volume abstraction as presented in the design. The operations and monitoring program must be included in the maintenance declaration that is recorded with the County. The recorded reuse volume must be submitted to the RPBCWD on a yearly basis. If it is determined that the system is not performing as designed, the Applicant will need to submit a revised design and construction plan to demonstrate that the volume abstraction standard will be achieved.

While some borings are close to the proposed biofiltration basins 2, 3, and 4 they do not appear to be within the system footprint as required in Rule J, subsection 4.3c. To conform to the RPBCWD Rule J, Subsection 3.3.a the following revision is needed:

- J1. Paragraph 4.3c of the rule requires a soil boring at the proposed infiltration sites to demonstrate that the bottoms of the filtration and infiltration basins are at least 3 feet above the water table, the soils present below the basin and confirm the infiltration capacity. The applicant must submit documentation verifying the soils present, infiltration capacity of the soil and the groundwater elevation at the biofiltration systems 2, 3, and 4. This can be accomplished by soil boring, infiltrometer test, potholing or other methods. If the soils, groundwater elevation or infiltration capacity are less than anticipated, design modifications for biofiltration systems 2, 3, and 4 would be required.

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant provide for at least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS) from site runoff. The Applicant is proposing five biofiltration basins with elevated drainage to provide infiltration, sump catch basins, stormwater reuse, and grass swales to provide water quality treatment. The table below summarizes the water quality treatment provided for the site. Based on information reviewed, the proposed project conforms to Rule J, Subsection 3.1.c.

Pollutant of Interest	Regulated Site Loading (lbs/yr)	Required Load Removal (lbs/yr)¹	Provided Load Reduction (lbs/yr)
Total Suspended Solids (TSS)	1,656	1,490 (90%)	1,545 (93.3%)
Total Phosphorus (TP)	9.12	5.47 (60%)	7.71 (84.6%)

¹Required load reduction is calculated based on the removal criteria in Rule J, Subsection 3.1c and the new and reconstructed impervious area site load.

Low floor Elevation

No structure may be constructed or reconstructed such that its lowest floor elevation is less than 2 feet above the 100-year event flood elevation and no stormwater management system may be constructed or reconstructed in a manner that brings the low floor elevation of an adjacent structure into noncompliance according to Rule J, Subsection 3.6.

As shown in the below table, the majority of the proposed structures have low floor elevations at least 2 feet above the adjacent, applicant computed 100-year flood elevation, thus conforming the Rule J, subsection 3.6. An analysis in accordance with Appendix J1 was completed for the proposed structures and adjacent stormwater feature when the low floor elevation of the proposed structures was less than the required 2 feet above the 100-year event flood elevation of the adjacent stormwater feature.

The horizontal distance between the northeastern most townhome (townhome #1 on below figure) and the 100-year inundation area in biofiltration basin 3 is 19; therefore, the required separation to groundwater at the building is 10.2 feet in order to be in compliance with Plot 2 in Appendix J1. Because groundwater was not observed at the full boring depth (elevation 904.5) at the nearest boring (ST6) to townhome#1, and an additional boring (ST19) located on the other side of the proposed townhome shows no groundwater at elevation 903.8., BKBM assumed groundwater is at elevation 903.8. This provides 10.7 feet of separation between the groundwater and low floor of townhome#1, thus conforming with Rule J, Subsection 3.6.

Structure	Low Floor Elevation of Building (feet)	100-year Event Flood Elevation of Adjacent Stormwater Facility (feet)	Freeboard (feet)	Provided Distance Between Building and Adjacent Stormwater Feature (feet)	Required Separation to Groundwater based on Appendix J, (feet)	Provided Separation to Groundwater (feet)
Townhome #1	914.5	913.43 (Biofiltration Basin 3)	1.07	19	10.2 ¹	10.7
Townhome #2	916.0	913.43 (Biofiltration Basin 3)	2.57	-	-	-
Townhome #3	917.5	913.43 (Biofiltration Basin 3)	4.07	-	-	-
Townhome #4	915.0	912.87 (Biofiltration Basin 4)	2.13	-	-	-
Townhome #5	915.0	912.87 (Biofiltration Basin 4)	2.13	-	-	-
Townhome #6	916.5	912.87 (Biofiltration Basin 4)	3.63	-	-	-
Townhome #7	918.5	912.87 (Biofiltration Basin 4)	5.63	-	-	-
Townhome #8	920.0	912.87 (Biofiltration Basin 4)	7.13	-	-	-
52,000 SF Main Facility	913.5	919.78 (Biofiltration Basin 2)	-6.28	42	3.8	22.9
Off-site Structure 1	911.7	913.43 (Biofiltration Basin 3)	-1.73	78	4.2 ²	24.5
Off-site Structure 2	912.02	919.78 (Biofiltration Basin 2)	--7.76	52	7 ²	21.5

¹ Using Plot 2 of Appendix J1 with the anticipated pond bounce for the 100-year event.

² Using Plot 1 of Appendix J1 with the anticipated pond bounce for the 100-year event.

The horizontal distance between the offsite building 2 and biofiltration basin 2 is about 52 feet; therefore, the required separation to groundwater at the building is 7.0 feet in order to be in compliance with Plot 1 in Appendix J1. As shown in the above table the proposed offsite building 2 provides 21.5 feet of separation from groundwater in conformance with Rule J, Subsection 3.6.

Maintenance

Subsection 3.7 of Rule J requires the submission of maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed.

- J2. Permit applicant must provide a draft maintenance and inspection plan, including reuse operation plan. Once approved by RPBCWD, the plan must be recorded on the deed in a form acceptable to the District.

Rule L: Permit Fee:

Fees for the project are:

Rule C & J\$2,000

The RPBCWD permit fee schedule adopted in December 2015 indicates that costs of site inspections, analysis of the proposed activities, services of consultants and compliance assurance in excess of \$3,500 for properties between 5 and 9.99 acres will be charged to the permit applicant.

- L1. In accordance with the adopted RPBCWD permit-fee schedule, because the engineer and legal time to review this permit exceeded \$3,500 the applicant must submit an additional permit fee of \$700 for excess cost recovery.

Rule M: Financial Assurance:

Rules C: Silt fence: 4,230 L.F. x \$2.50/L.F. =	\$10,600
Restoration: 8.64 acres x \$2,500/acre =	\$21,600
Rules J: Infiltration: 16,831 sq. ft. x \$6.00/sq. ft. =	\$101,000
Stormwater Reuse: 125% Construction Cost (1.25*\$125,000) =	156,300
Contingency (10%)	\$29,000
Administration (30%)	<u>\$95,600</u>
Total Financial Assurance.....	\$414,100

Applicable General Requirements:

1. The RPBCWD Administrator shall be notified at least three days prior to commencement of work.
2. Construction shall be consistent with the plans and specifications approved by the District as a part of the permitting process. The date of the approved plans and specifications is listed on the permit.
3. Return or allowed expiration of any remaining surety and permit close out is dependent on the permit holder providing proof that all required documents have been recorded and providing as-built drawings that show that the project was constructed as approved by the Managers and in conformance with the RPBCWD rules and regulations.

Findings

1. The proposed project includes the information necessary, plan sheets and erosion control plan for review.
2. The proposed project will conform to Rule C and J if the Rule Specific Permit Conditions listed above are met.

Recommendation:

Approval, contingent upon:

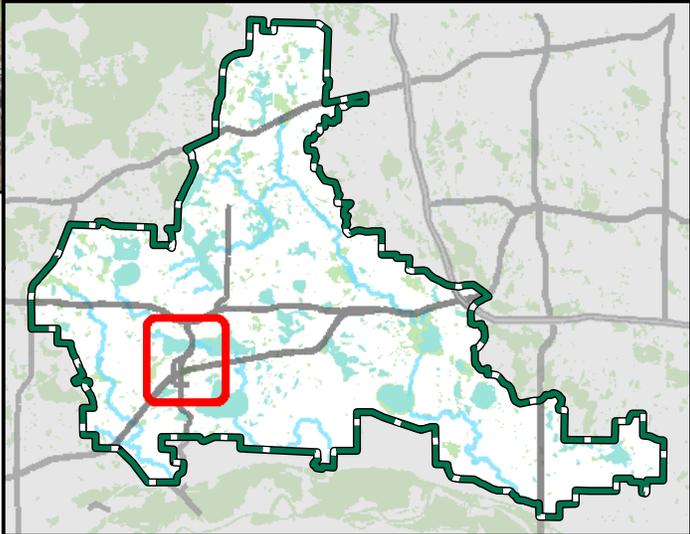
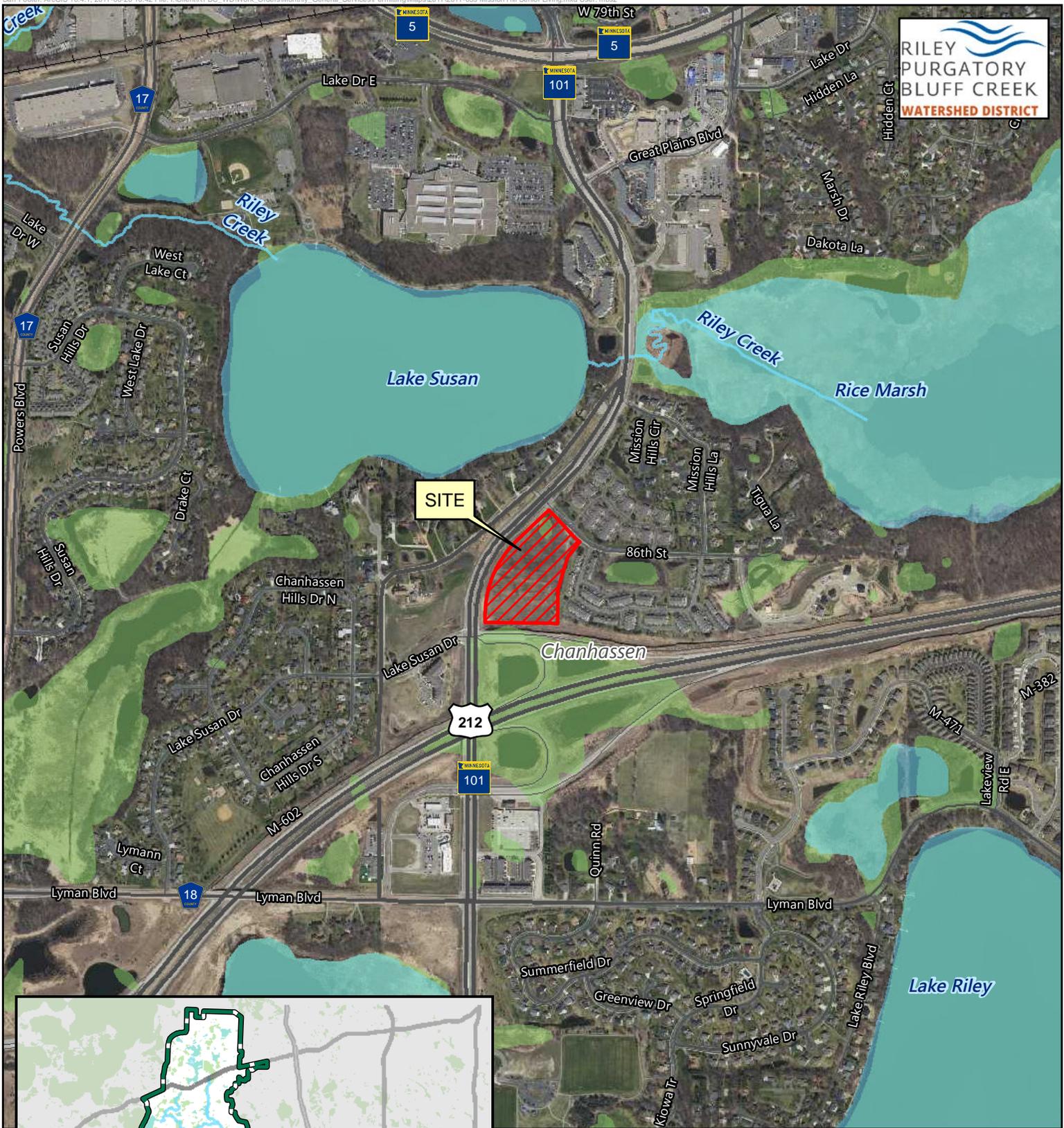
1. Continued compliance with General Requirements.
2. Financial Assurance in the amount of \$414,100.
3. Receipt of an additional permit fee of \$700 for the excess cost recovery.
4. Applicant providing the name and contact information of the individual responsible for erosion and sediment control at the site.
5. The applicant must submit documentation verifying the soils present, infiltration capacity of the soil and the groundwater elevation at the proposed biofiltration basins 2, 3, and 4. This can be accomplished by soil boring, infiltrometer test, potholing or other methods. If the soils, groundwater elevation or infiltration capacity are less than anticipated, design modifications for biofiltration basins 2, 3 and 4 would be required.
6. Receipt in recordation a maintenance declaration for the stormwater management facilities. The declaration must also include a stormwater reuse monitoring and reporting plan. A draft must be approved by the District prior to recordation.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Per Rule J Subsection 4.5, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization, stormwater facilities conform to design specifications as approved by the District.
2. Per Rule J Subsection 2.6, performance monitoring, the applicant must an operations plan and monitor the proposed irrigation system to provide the volume abstraction as presented in the design. The recorded reuse volume must be submitted to the RPBCWD annually. If it is determined that the irrigation system is not performing as designed, a revised design must be submitted to the District for approval to demonstrate that the volume abstraction and water quality standard is achieved.

Board Action

It was moved by Manager _____, seconded by Manager _____ to approve permit application No. 2017-039 with the conditions recommended by staff.



Feet



Permit Location Map

MISSION HILL SENIOR LIVING
Permit 2017-039
 Riley Purgatory Bluff Creek
 Watershed District

November 1, 2017

Agenda Item 9e

Approve 10-year plan for release

Motion by Manager _____, seconded by Manager _____ to authorize the Administrator to distribute the District's Draft Water Resources Management Plan for a 60-day review and comment period to Hennepin and Carver Counties, the Metropolitan Council, the state review agencies, the Board of Water and Soil Resources, soil and water conservation districts, towns, and statutory and home rule charter cities having territory within the watershed.

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers
From: Barr Engineering Co.
Subject: Scenic Heights Elementary School Forest Restoration – Recommendation to Award Project
Date: October 27, 2017
Project: 23/27-0053.14
c: Claire Bleser – RPBCWD Administrator

In 2016, the RPBCWD staff began coordinating discussions around the restoration of the 7 acre school learning forest at Scenic Heights Elementary in Minnetonka. Through a coalition of partners including Three Rivers Parks District, ISD 276, school teachers and administrators, DNR, and Minnetonka Parks and Recreation, the restoration goals for the School Forest were developed. The parcel is used as an outdoor learning facility for hundreds of school children throughout Minnetonka and several neighboring cities. A small portion of Purgatory Park (approx. 1 acre), is being included in the project to create a contiguous restoration area that will connect the nearby Purgatory Creek ecological corridor. The project proposes to remove woody and herbaceous invasive species, stabilize an eroded channel, create a wetland buffer around an existing pond, and establish native plant communities. The project also includes the design of interpretive signage to be installed in the school forest and in adjacent Purgatory Park to help residents understand the value of native plant community restorations, buffers, and the role of the District in protecting valuable water resources. In the fall of 2016 RPBCWD staff secured a \$50,000 grant from Hennepin County and the RPBCWD Board of Managers authorized final design and preparation of construction documents. ISD 276 has also agreed to provide \$45,000 in funding for the project.

At the September 2017 board meeting, the RPBCWD Board of Managers authorized Barr Engineering to solicit bids. Following the Board’s authorization, an advertisement for bid was circulated in local publications and on Quest Construction Data Network (CDN). Barr Engineering facilitated a mandatory pre-bid meeting on October 13, 2017 which was attended by six contractors. Bids were opened on October 27, 2017 at the District office. One bid was received and is listed below in Table 1.

Table 1. Summary of Bid Received for the Scenic Heights School Forest Restoration Project

Bidder	Total Base Bid Entered on the Bid Form ¹
Wetland Habitat Restorations	\$199,225.00

¹Engineer’s opinion of probable cost was \$218,000.

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers
From: Barr Engineering Co.
Subject: Scenic Heights Elementary School Forest Restoration – Recommendation to Award Project
Date: October 27, 2017 **October** 27, 2017
Page: 2

Wetland Habitat Restorations, LLC was the low bidder. Barr staff have worked with Wetland Habitat Restorations on multiple projects in the past and expressed no reservations for using them on this project. **It is recommended that the RPBCWD Board of Managers award the project to Wetland Habitat Restorations at the bid price of \$199,225.00.**

If the Board of Managers decides to award the project the following would be completed:

- An Authorized Representative signs the Notice of Award to be sent to the successful bidder
- Successful bidder provides the following information:
 - Fully executed Notice of Award
 - Three fully executed counterparts of the Form of Agreement
 - Performance and Payment Bond
 - Certificate of Insurance and all other insurance documentation identified in the Contract Documents
- Barr Engineering will coordinate with the successful bidder regarding the construction schedule
- December 2017 – Board issues Notice to Proceed
- Initial Invasive Species Removal – Winter 2017-2018
- Native Species Seeding and Planting, Buffer Restoration – Spring 2018
- On-going Site Management and Native Establishment – Spring 2018 – Fall 2020

Riley-Purgatory-Bluff Creek Watershed District
 Scenic Heights Elem. School Forest Restoration
 Minnetonka, MN

BID TABULATION
 Project 23270053.14
 27-Oct-17



Item	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	ENGINEER'S ESTIMATE		WETLAND HABITAT RESTORATIONS	
				UNIT COST	ITEM COST	UNIT COST	ITEM COST
A	Mobilization/Demobilization	L.S.	1	\$10,000.00	\$10,000.00	\$15,500.00	\$15,500.00
B	Erosion Control Construction Entrance	Each	1	\$2,200.00	\$2,200.00	\$2,500.00	\$2,500.00
C	Desirable Plant Marking for Protection	L.S.	1	\$2,500.00	\$2,500.00	\$1,750.00	\$1,750.00
D	Clear and Grub Woody Invasive Plant Removal (Trees under 8" DBH)	AC	7	\$4,500.00	\$31,500.00	\$4,500.00	\$31,500.00
E	Clear and Grub Woody Invasive Plant Removal (Trees over 8" DBH)	Each	40	\$550.00	\$22,000.00	\$450.00	\$18,000.00
F	Remove and Dispose of Adopt-A-Plots Signs	Each	30	\$100.00	\$3,000.00	\$85.00	\$2,550.00
G	Heavy Duty Silt Fence	L.F.	85	\$20.00	\$1,700.00	\$15.50	\$1,317.50
H	Erosion Control Blanket	S.Y.	125	\$6.00	\$750.00	\$5.50	\$687.50
I	Remove and Salvage Topsoil (P)	C.Y.	80	\$50.00	\$4,000.00	\$45.00	\$3,600.00
J	Grading	L.S.	1	\$5,000.00	\$5,000.00	\$5,900.00	\$5,900.00
K	Rock Riffle	Each	3	\$3,200.00	\$9,600.00	\$3,500.00	\$10,500.00
L	Woodland Seed Mix with Cover Crop (Custom Mix)	AC	4.7	\$3,500.00	\$16,450.00	\$2,200.00	\$10,340.00
M	Prairie Seed Mix with Cover Crop (MnDOT 35-221)	AC	1.3	\$3,000.00	\$3,900.00	\$1,950.00	\$2,535.00
N	Woodland Edge Seed Mix with Cover Crop (MnDOT 36-711)	AC	1.2	\$3,000.00	\$3,600.00	\$1,850.00	\$2,220.00
O	Wet Meadow Seed Mix with Cover Crop (MnDOT 34-261)	AC	0.5	\$4,000.00	\$2,000.00	\$3,500.00	\$1,750.00
P	Live Stake (Furnish and Install)	Each	148	\$17.00	\$2,516.00	\$15.50	\$2,294.00
Q	#10 Cont. Tree (Furnish and Install)	Each	30	\$350.00	\$10,500.00	\$350.00	\$10,500.00
R	Shrub, Bare Root (Furnish and Install)	Each	182	\$24.00	\$4,368.00	\$25.50	\$4,641.00
S	Herbaceous Plug (Furnish, Install by others)	Each	2520	\$2.00	\$5,040.00	\$1.50	\$3,780.00
T	Straw Mulch	AC	7.7	\$2,000.00	\$15,400.00	\$1,550.00	\$11,935.00
U	Shredded Hardwood Mulch	C.Y.	45	\$70.00	\$3,150.00	\$65.00	\$2,925.00
V	Herbaceous Management Site Visit 2018	Each	7	\$2,800.00	\$19,600.00	\$2,500.00	\$17,500.00
W	Herbaceous Management Site Visit 2019	Each	7	\$2,800.00	\$19,600.00	\$2,500.00	\$17,500.00
X	Herbaceous Management Site Visit 2020	Each	7	\$2,800.00	\$19,600.00	\$2,500.00	\$17,500.00
	CONSTRUCTION SUBTOTAL				\$218,000.00		\$199,225.00



RILEY
PURGATORY
BLUFF CREEK
WATERSHED DISTRICT



2018 Calendar

PROTECT. MANAGE. RESTORE.

Managers, Staff & Consultants



Board of Managers

The Riley Purgatory Bluff Creek Watershed District Board of Managers meets on the first Wednesday of each month, 7:00 pm, at the District Office: 18681 Lake Drive East, Chanhassen. Any changes to the schedule are posted on the District website: rpbcd.org.

Left to right:

Dorothy Pedersen (Shorewood)
 Richard Chadwick (Chanhassen)
 Leslie Yetka (Minnetonka)
 Dick Ward (Eden Prairie)
 Jill Crafton (Bloomington)

Term expires

July 2020
 July 2018
 July 2019
 July 2020
 July 2018

Staff

Dr. Claire Bleser
 Administrator
 952-607-6512

Terry Jeffery
 Project & Permit
 Manager
 952-807-6885

Michelle Jordan
 Community
 Outreach Coord.
 952-607-6481

Josh Maxwell
 Water Resource
 Coord.
 952-607-6486

Zach Dickhausen
 Water Resource
 Tech.
 952-607-6036

Consultants

Scott Sobiech
 District Engineer
 Barr Engineering
 952-832-2755

Smith Partners PLLP
 Legal Advisor
 612-344-1400

49 Years of Watershed Protection

The Riley Purgatory Bluff Creek Watershed District was established on July 31, 1969. The District is a local government unit charged with protecting, managing, and restoring water resources. It encompasses all the land that drains into any of the three creeks in its name. At about 50 square miles, it includes parts of seven cities (Bloomington, Chanhassen, Chaska, Deephaven, Eden Prairie, Minnetonka, and Shorewood), and two counties (Carver and Hennepin).

The District is led by residents and water professionals. Five managers (four appointed by the Hennepin County Commissioners and one by the Carver), serve three-year terms directing District activities. The District partners with local communities to identify top priorities and plan, implement, and manage efforts to protect clean water. The District works to educate and engage community members in this stewardship. Watershed activities are funded by property tax levies.

Thank you to Forster and Bisek

In 2017, two members of the Board of Managers completed their terms. Former President Perry Forster dedicated 23 years of service



to the watershed. Under his leadership, the District embarked on a variety of water quality projects and completed two management plans. Another highlight of his tenure was the hiring of the first District administrator. The District now has 5 staff members who run data collection, permitting, community outreach and administration. By building this team, the District has greatly grown its capacity to protect clean water. Manager Mary Bisek joined the Board of Managers in 2012. She was an active voice in getting the District to think more about groundwater conservation and water reuse. She also provided thoughtful insight on the importance of native plants while promoted high standards of governance. Both managers were part of ordering the first creek restoration project and two groundwater conservation projects, and lead the District in the development of the 4th generation water management plan. They will be missed but we wish them the best and look forward to seeing them around the watershed.

Welcome to Ward and Pedersen

The District welcomes Manager Pedersen and Manager Ward to the watershed board! Manager Pedersen has served on the District's Citizen Advisory Committee for several years, and volunteered with District programs including the Master Water Stewards. Pedersen is a Master Gardener as well, and her professional work has ranged from human resources, to landscape design. Manager Ward is an active member of the community. He is engaged in various volunteer roles in organizations like Big Brothers/ Big Sisters and the PROP shop. In addition to his volunteer work, Manager Ward is a licensed real estate broker and property manager. We look forward to the perspectives both managers bring, as together with the rest of the board they guide the District in its next 10-Year Management Plan.



Community prepares changing climate

Climate change is one of the greatest challenges facing society today. In Minnesota, there are risks due to increases in extreme heat, extreme rainfall, higher summertime dew points, warmer winters, and the intensity of severe storms. Proactive planning is the economically efficient route to climate adaptation, rather than reacting to the impacts of heat, storms, ice, and warm winters as they occur.

Recognizing this, the District participated in a workshop series to identify opportunities to build resilience related to local climate change. The goal was to build relationships across the community, create a shared knowledge base, and harvest potential strategies of adaptation.

You can read the full summary of the results on our website (rpbcwd.org), and within the new 10-Year Management Plan.



Master water stewards make waves

The District graduated its second cohort of Master Water Stewards in 2017. The volunteer training program equips District residents with the knowledge, skills, and network they need to become community leaders in protecting clean water. For their capstone project, two District stewards completed a shoreline restoration on Duck Lake in 2017. With the help of many volunteers, invasive species were removed, the shoreline was stabilized, and native plants were installed. The project was funded in part by a cost-share grant from the District.

Master Water Stewards also volunteer in their communities. Highlights from 2017 included a community clean-up for water in Chanhassen spearheaded by a District steward, many hours of tabling at community events, field work with our water monitoring team, and piles and piles of trash pulled from local lakes.

The Master Water Stewards is a partnership program with the Freshwater Society. Learn more about becoming a steward, or how stewards can help you in your good work at masterwaterstewards.org.



Fire station a leader in groundwater conservation



Through a grant from the Metropolitan Council, the District partnered with the city of Eden Prairie to implement water conservation practices at Fire Station Two. A cistern captures and treats rainwater from the station's roof. This can then be used for irrigating the grounds and washing fire trucks.

A cost-sharing grant from the District also supported the transition of the grounds to low-mow grasses and native plants. This type of landscaping requires less water and upkeep. Both practices also help to reduce stormwater runoff and pollution.

Interpretive signage invites visitors to get involved by taking these practices back to their homes, workplaces, and gathering spaces.



Planning for the future 2017 brings a new 10-Year Management Plan. Explore it on our website: rpbcwd.org

DISTRICT OFFICE:

18681 Lake Drive East
Chanhassen, MN
55317

CONTACT INFO:

952-607-6512
info@rpbcwd.org
www.rpbcwd.org



Ice crystal patterns make frozen art

JANUARY 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 <i>New Year's Day</i>	2	3 RPBCWD Board Meeting 7:00 PM, District Office	4	5	6
7	8	9	10	11	12	13
14	15 <i>Martin Luther King Jr. Day</i>	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31 <i>Tu B'Shevat</i>			

Youth programs

Stewardship can start at any age! The District works to engage school groups in hands-on learning. Interested in having us come to your school? Contact us about available programs and presentations that are available. 952-607-6512



A black-capped chickadee enjoys a meal at a homemade feeder

FEBRUARY 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2 <i>Groundhog Day</i>	3
4	5	6	7 RPBCWD Board Meeting 7:00 PM, District Office	8	9	10
11	12	13 <i>Maha Shivaratri</i>	14 <i>Valentine's Day</i>	15 ● New moon	16 <i>Chinese New Year</i>	17
18	19 <i>Presidents' Day</i>	20	21	22	23	24
25	26	27	28			

Be salt smart

What happens to the salt we put down to melt ice? It washes into stormdrains and pollutes local lakes, streams, and wetlands. You can help protect clean water by following these simple tips:

- 1. Shovel first!** Clear walkways and other areas before the snow turns to ice.
- 2. Scatter!** A coffee mug of salt covers 60 ft of sidewalk, or 2 parking spots. A push spreader helps too!
- 3. Switch!** When road temperature is below 15 degrees F, salt doesn't work. Try a little sand for traction.
- 4. Sweep up extra salt!** Salt only works when dissolved. Sweep up any extra you can see and reuse.



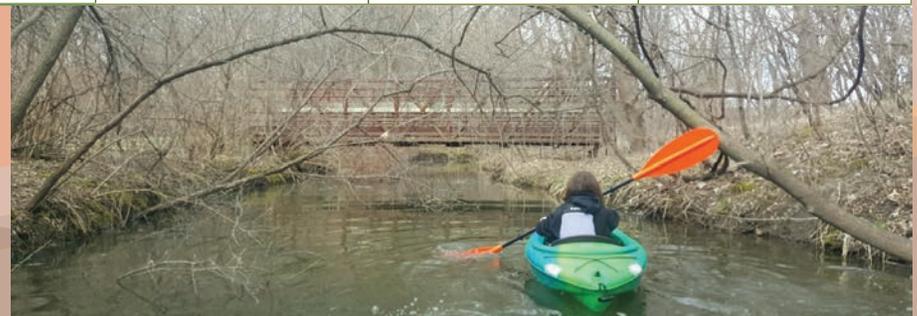
Barred Owls are easiest to find when they are active at night - they can be identifiable by their hooting call: "who cooks for you?" Visit forests near water, try imitating the call with your own voice and wait quietly. If you're lucky, a territorial Barred Owl might fly in to investigate you.

MARCH 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 ○ Full moon	2 <i>Holi</i>	3
4	5	6	7 RPBCWD Board Meeting 7:00 PM, District Office	8	9	10
11 <i>Daylight Saving Time Begins</i>	12	13	14	15	16	17 ● New moon <i>St. Patrick's Day</i>
18	19	20 <i>Spring Equinox</i>	21	22	23	24
25	26	27	28	29	30 <i>Good Friday</i>	31 ○ Full moon

Explore your watershed

Grab one of our parks and trails maps, and find your new favorite spot to explore. Or join us for one of our many community events throughout the year!





New plants sprout at a creek restoration project

APRIL 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 <i>Easter Sunday</i>	2	3	4 RPBCWD Board Meeting 7:00 PM, District Office	5	6	7
8	9	10	11	12	13	14
15 ● New moon	16	17	18	19	20	21
22	23	24	25	26	27	28
29 ○ Full moon	30					

Gathering data

Good decisions are based on good data. District staff monitor local water bodies to determine how healthy they are, identify projects to improve them, and assess how successful those projects are. If you see our sampling team out and about, stop and say hi!



A bee enjoys a stop in a pollinator garden

MAY 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2 RPBCWD Board Meeting 7:00 PM, District Office	3	4	5
6	7	8	9	10	11	12
13 <i>Mother's Day</i>	14	15 ● New moon	16 <i>Ramadan starts</i>	17	18	19
20 <i>Shavuot</i>	21	22	23	24	25	26
27	28 <i>Memorial Day</i>	29 ○ Full moon	30	31		

Conserve groundwater

Did you know: water from our taps comes from groundwater deep underground. It is a limited source, and you can join us in protecting and conserving it. Native plant gardens are a great choice since they require less water (and provide pollinator habitat!). When you do need to water your flower gardens or lawn, consider using rainwater from a rainbarrel or cistern!





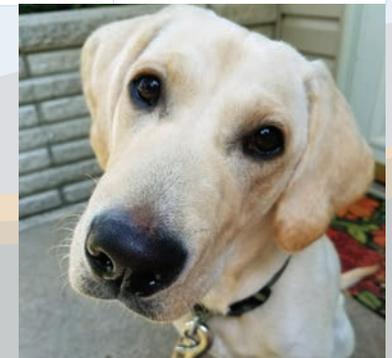
Dragonflies flying over Purgatory Creek Park in Minnetonka

JUNE 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6 RPBCWD Board Meeting 7:00 PM, District Office	7	8	9
10	11	12	13 ● New moon	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28 ○ Full moon	29	30

Pick up for clean water

Pet waste is a problem for local lakes, creeks and wetlands. If left on the land, it gets washed into waterbodies when it rains. There it becomes food for green algae, and can spread bacteria. Whether on a trail, in a dog park, or your neighborhood, picking up after Fido is an act of clean water stewardship!





A shoreline buffer on Mitchell Lake protects clean water & creates habitat

JULY 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4 <i>Independence Day</i>	5	6	7
8	9	10	11 RPBCWD Board Meeting 7:00 PM, District Office	12 ● New moon	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27 ○ Full moon	28
29	30	31				

Interested in a shoreline buffer, raingarden, or cistern of your own? The District's cost-share program offers grants and technical guidance to help you in your good work!

**Grants
for clean
water**



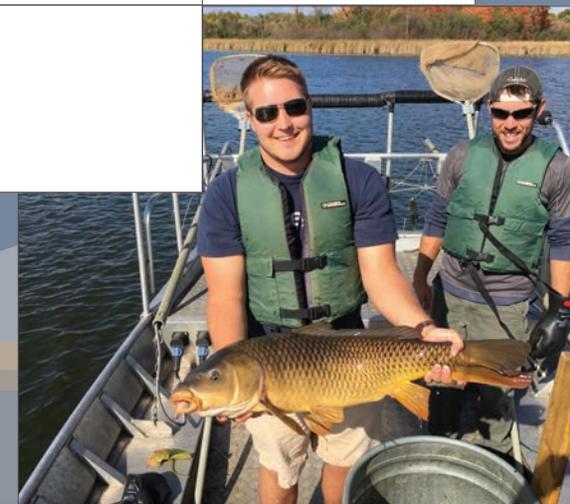
A calm day on Lotus Lake

AUGUST 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 RPBCWD Board Meeting 7:00 PM, District Office	2	3	4
5	6	7	8	9	10	11 ● New moon
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26 ○ Full moon	27	28	29	30	31	

Volunteer with us

Are you curious about the work we do? Interested in getting your feet wet and helping us protect clean water? Volunteer with our water resource monitoring crew and explore your watershed in a new way!





Early autumn on Silver Lake

SEPTEMBER 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 <i>Labor Day</i>	4	5 RPBCWD Board Meeting 7:00 PM, District Office	6	7	8
9 ● New moon	10 <i>Rosh Hashana</i>	11	12	13	14	15
16	17	18	19 <i>Yom Kippur</i>	20	21	22
23 <i>Fall Equinox</i>	24 ○ Full moon <i>First Day of Sukkot</i>	25	26	27	28	29
30						

Protect manage restore

Restoring water bodies that have been polluted is an important part of the District's work. Also crucial is protecting healthy and unique resources. For example, did you know that Silver Lake has wild rice? If we want to keep this rare amenity, we need to work to protect and improve Silver Lake.



Fall color along Riley Creek

OCTOBER 2016

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3 RPBCWD Board Meeting 7:00 PM, District Office	4	5	6
7	8 ● New moon	9 <i>Navaratri</i>	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24 ○ Full moon	25	26	27
28	29	30	31 <i>Halloween</i>			

Learn with us

The District offers events and activities year-round. Come to a raingarden workshop in the spring, or join us for Cycle the Creek every October. There's always something to learn and discover!



A relaxing afternoon on Staring Lake

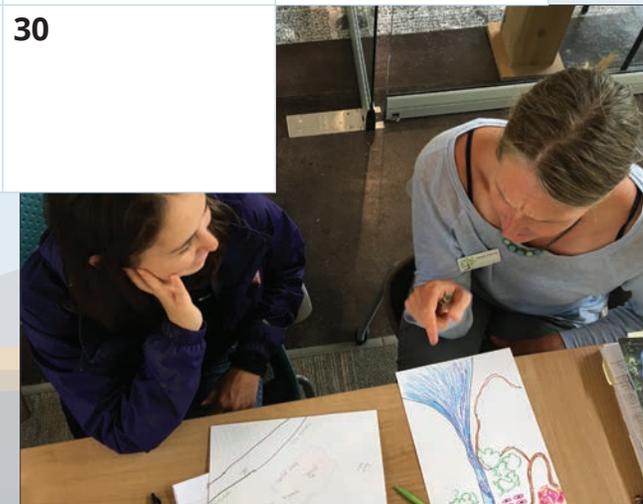
NOVEMBER 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7 ● New moon RPBCWD Board Meeting 7:00 PM, District Office	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23 ○ Full moon	24
25	26	27 ● New moon	28	29	30	

Thanksgiving

Supporting educators

Teachers do important work in our communities, and we want to support them! The District offers trainings, grants, kits, and in-classroom resources each year to help grow water education.





Tracks in the snow from winter explorers on Round Lake

DECEMBER 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 <i>First Day of Chanukah</i>	4	5 RPBCWD Board Meeting 7:00 PM, District Office	6	7 ● New moon	8
9	10	11	12	13	14	15
16	17	18	19	20	21 <i>Winter Solstice</i>	22 ○ Full moon
23	24	25 <i>Christmas Day</i>	26 <i>Kwanzaa</i>	27	28	29
30	31 <i>New Year's Eve</i>	<h2>Managing invasives</h2> <p>The District works to manage aquatic invasive species, like common carp and curlyleaf pondweed. If left unchecked, these fish and plants can harm water quality and native species. You can help reduce their spread by cleaning your fishing gear any time of year!</p>				



2017 AT A GLANCE

With three creeks, over a dozen lakes, many acres of wetlands, and seven cities, there are many things to do and places to be in the district. Explore the map below to fine out where we've been, and what we've done in 2017.

District projects



Cost-share projects



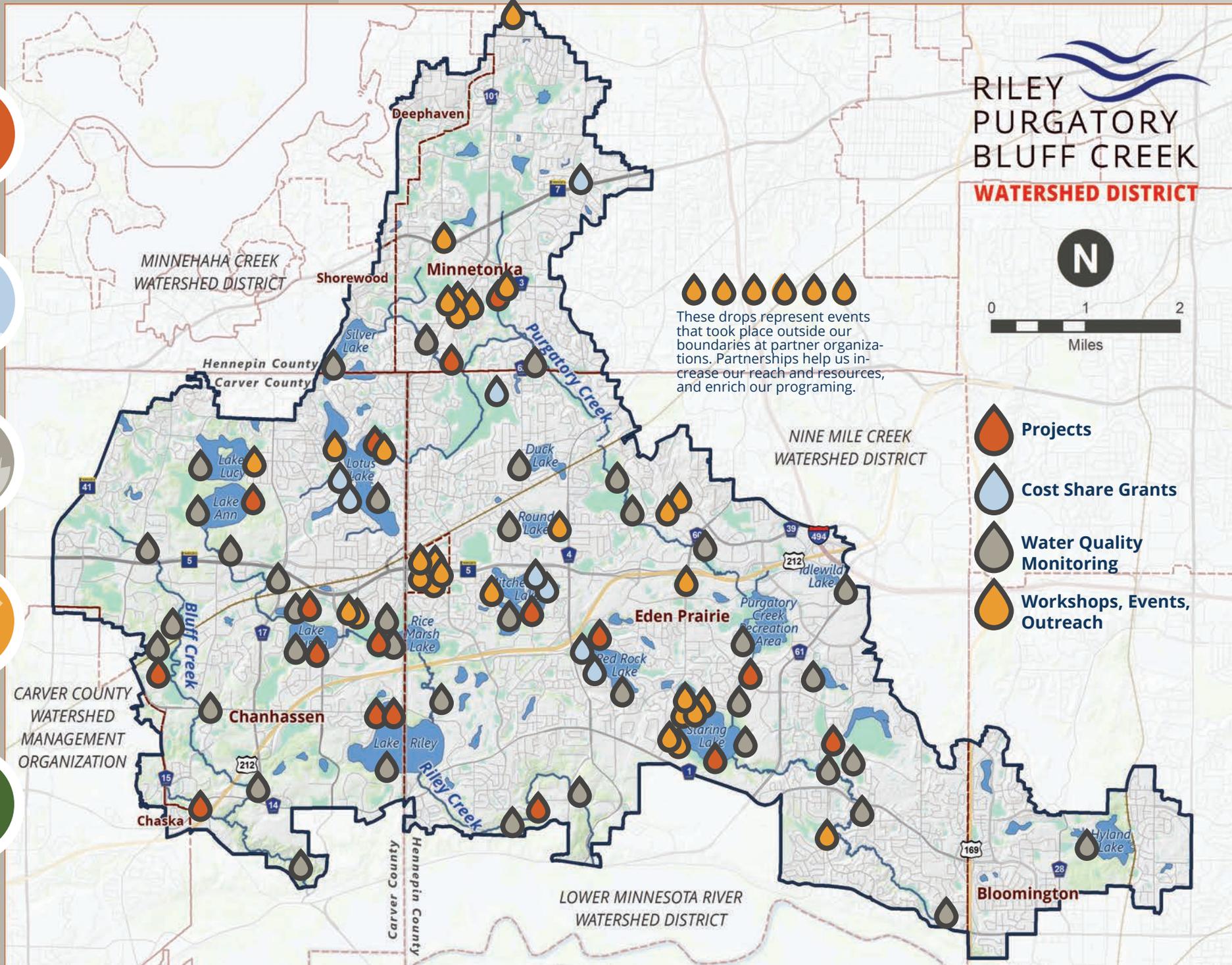
Monitoring sites



Workshops, events



Thousand \$ in grants received



Resolution

Aligning Commercial Carp Fishing Regulations with Clean Water Goals, and Promoting Markets for Invasive Carp

Whereas, commercial fishing for carp in Minnesota waters is governed by State Statutes (97C.800) and Minnesota Department of Natural Resources (MN DNR) Rules; and

Whereas, carp are known to degrade water quality and damage aquatic ecosystems; and

Whereas, watershed districts and other local units of government desire to restore water quality in lakes and rivers; and

Whereas, managing carp is a proven method for restoring water quality; and

Whereas, cooperation between commercial carp fisherman and watershed districts on removing carp is beneficial to both parties;

NOW, THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts call on legislators and the MN DNR to:

1. Better align commercial carp fishing laws and rules with clean water goals, and
2. Offer, or prioritize through existing programs, small-business development loans and/or grants to businesses that provide or use commercial carp products

2017 MAWD Resolutions

Background Information

Proposing District: Rice Creek Watershed District

Contact Name: Phil Belfiori

Phone (office): 763-398-3071

Email: pbelfiori@ricecreek.org

Resolution Title: Aligning commercial carp fishing regulations with clean water goals, and promoting markets for invasive carp

Factual points which provide background to, or a basis for, the issue addressed by Resolution:

Commercial carp fisherman and watershed districts share a common desire to remove carp from Minnesota waters. Commercial fisherman work to remove and sell carp as a business. Watershed districts remove carp to restore water clarity in lakes and rivers. Commercial carp fishing in Minnesota is regulated by State Statues (97C.800), and rules developed by the Minnesota Department of Natural Resources (DNR). While the regulations recognize the positive impact to natural resources of removing carp, they also create financial and logistical burdens to watershed districts and commercial operators. Combined with poor commercial market conditions for carp products, these burdens have made commercial carp fishing financially challenging.

Based on the above facts, what is the proposed solution to the problem:

Watershed districts will be in a better position to work with commercial fisherman to remove carp and improve water clarity by better aligning commercial carp fishing regulations with clean water goals, and by encouraging market growth for commercial carp products. This may be accomplished by creating streamlined regulatory conditions for commercial carp fisherman that are actively working with watershed districts (or other clean water LGU's, e.g. counties), and using scientifically accepted methods for managing carp populations. Further, the State of Minnesota could offer, or prioritize within existing programs, small-business development grants or loans to businesses that provide or use commercial carp products.

Likely reaction by the public or other governmental units?

The resolution would likely have broad public support. DNR may have concerns. However, the intent of the Resolution is to encourage dialogue and cooperation between the DNR and watershed districts, and not force one-sided policy. The resolution may face resistance from special sportsman's groups (e.g. Bowfishing Associations).

This issue is of importance:

To just our District ___

To just our Region ___

To the entire state x

2017 MAWD Resolutions Background Information

Proposing District: Prior Lake-Spring Lake Watershed District

Contact Name: Diane Lynch

Phone Number:
(day) 952-440-0067

Email Address: dlynch@plslwd.org

Resolution Title: MAWD Board Composition Based Upon Dues

Factual points which provide background to, or a basis for, the issue addressed by Resolution:

1. MAWD's Bylaws, Article IV, 4.2 Directors to be Elected by Regions, states:

For the purpose of election of the Board of Directors, the State of Minnesota is divided into three regions; three Directors shall be elected from each region, with staggered three-year terms. Members from each region shall elect one director for a three-year term at the Annual Meeting of the Association.

No Watershed District shall have more than one Manager elected to be a director on the Board of Directors of the Corporation. Regional caucuses shall elect a Chairman and Recording Secretary from its delegates for the purpose of its election procedure and report the election results to the Convention at a designated time.

2. According to MAWD's spreadsheet detailing the dues for 2018, Region III will pay approximately 46% of the dues; Region II will pay approximately 31% of the dues and Region I will pay 23% of the dues; however, given the current Bylaws, no matter what the financial contribution is, each Region has the same number of members on the Board of Directors.

Based upon the above facts, what is the proposed solution to the problem discussed above:

The number of Board directors should be based upon the Region's financial contribution to MAWD's dues, so if a Region pays approximately 50% of the dues, that Region should be able to appoint ½ of the number of Board Members. Given the current composition of 9 members, that would mean 4-5 members would represent that Region.

Likely Reaction by the Public or Other Governmental Units?

We would expect some regions to support it, while others would oppose it.

This issue is of importance (Check one):

To just our District: _____

To just our Region: _____

To the entire State: X

PRIOR LAKE - SPRING LAKE WATERSHED DISTRICT

MAWD Board Composition Based Upon Dues Resolution 17-319

WHEREAS, the Prior Lake-Spring Lake Watershed District (PLSLWD) is a watershed management organization and political subdivision of the State of Minnesota and is a member of MAWD and

WHEREAS, the current MAWD bylaws indicate that the Board should be comprised up three directors from each region and

WHEREAS, according to MAWD's 2018 spreadsheet, the Metro Region III will pay nearly 50% of the dues

THEREFORE, BE IT RESOLVED that the PLSLWD Board of Managers supports a change in the MAWD Board for representation based upon the percentage of dues calculated annually: Region I (23%) would have 2 representatives; Region II (31%) would have 2-3 representatives and Region III (46%) would have 4-5 representatives.

The question was on the adoption of the Resolution and there were 4 yeas and 1 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>
BREITBACH			
CORRIGAN			
HENNES			
SPITZMUELLER			
HOWLEY			

Upon vote, the chair declared the resolution adopted.


Charlie Howley, Secretary

Dated: 9-12, 2017

2017 MAWD Resolutions Background Information

Proposing District: Prior Lake-Spring Lake Watershed District

Contact Name: Diane Lynch

Phone Number:
(day) 952-440-0067

Email Address: dlynch@plslwd.org

Resolution Title: MAWD Board Composition to Include Administrators

Factual points which provide background to, or a basis for, the issue addressed by Resolution:

1. MAWD's Bylaws, Article IV, 4.4, Number, Qualification and Term of Office, states:

The number of directors constituting the board shall be nine. Each director elected at the annual meeting shall be elected for a three-year term. Directors shall be on the board of a watershed member in good standing of this corporation.

The Board does not include District Administrators.

Based upon the above facts, what is the proposed solution to the problem discussed above:

District Administrators and Board Managers should both be on the MAWD Board to accurately reflect the joint decision-making that occurs in the daily operations of a watershed district. The Administrators and Board Managers could be selected by each Region at the MAWD Annual Regional Meetings. It would be up to each Region to select up to 1 Administrator and 2 Board Managers or 3 Board Managers.

Likely Reaction by the Public or Other Governmental Units?

We would expect some regions to support it, while others would oppose it.

This issue is of importance (Check one):

To just our District: _____

To just our Region: _____

To the entire State: X

PRIOR LAKE - SPRING LAKE WATERSHED DISTRICT

MAWD Bylaws Change to Include Administrators on the Board Resolution 17-322

WHEREAS, the Prior Lake-Spring Lake Watershed District (PLSLWD) is a watershed management organization and political subdivision of the State of Minnesota and is a member of MAWD and

WHEREAS, the current MAWD bylaws only allow managers to be on the MAWD Board and

WHEREAS, District Administrators are experienced in all aspects of watershed administration and can provide insight on what they need from MAWD

WHEREAS, the PLSLWD Board of Managers supports a change in the MAWD Board to accurately reflect the joint decision-making that occurs in the daily operations of a watershed district

THEREFORE, BE IT RESOLVED that the PLSLWD Board of Managers recommends a change in the bylaws that allows up to 1 Administrator and 2 Board Managers to be selected by each region and the MAWD Annual Regional Meetings.

The question was on the adoption of the Resolution and there were 5 yeas and 0 nays as follows:

	Yea	Nay	Absent
BREITBACH	<i>[Signature]</i>		
CORRIGAN	<i>[Signature]</i>		
HENNES	<i>[Signature]</i>		
SPITZMUELLER	<i>[Signature]</i>		
HOWLEY	<i>[Signature]</i>		

Upon vote, the chair declared the resolution adopted.

[Signature]
Charlie Howley, Secretary

Dated: 9-12, 2017

2017 MAWD Resolutions Background Information

Proposing District: Prior Lake-Spring Lake Watershed District

Contact Name: Diane Lynch

Phone Number:
(day) 952-440-0067

Email Address: dlynch@plslwd.org

Resolution Title (brief subject statement): MAWD's Dues Structure

Factual points which provide background to, or a basis for, the issue addressed by Resolution:

1. MAWD's Manual of Policy and Procedures (MOPP) Section VI, Fiscal Year and Member Dues states:

6.3 Commencing October 1, 2017, dues structure shall be revised as follows: A District's dues shall be based upon the total market value of real estate, within or identified with the District, multiplied by .00048 to determine the maximum levy. Then, multiply the District levy amount by up to .005 to determine MAWD dues—not to exceed \$7500.

6.5 The dues and fees of the organization shall be prepared by the Treasurer and Finance Committee based upon the projected financial needs of the coming year. They must first be reviewed by the Board of Directors and then presented to the members for awareness and approval at the Annual Meeting or Special Meeting called for this purpose. The dues of the organization shall be applied to all members and affiliate members as determined by the Board of Directors. *The fee portion of the dues may be based on a differential structure which will be calculated on a yearly basis to meet the requirements of the budget for that year.*

There should be a sincere and thorough review of the MAWD dues structure and creation of one that more equitably reflects a District's ability to pay, based upon its budget and/or levy. This revised structure should be effective for the 2019 dues.

Based upon the above facts, what is the proposed solution to the problem discussed above:

Serious consideration of a dues structure that isn't dependent upon the total market value of real estate. This structure should consider a District's ability to pay, based upon its budget and/or levy.

Likely Reaction by the Public or Other Governmental Units?

We would expect some regions to support it, while others would oppose it.

This issue is of importance (Check one):

To just our District: _____

To just our Region: _____

To the entire State: X

PRIOR LAKE - SPRING LAKE WATERSHED DISTRICT

MAWD MOPP Change on Dues Structure Resolution 17-321

WHEREAS, the Prior Lake-Spring Lake Watershed District (PLSLWD) is a watershed management organization and political subdivision of the State of Minnesota and is a member of MAWD and

WHEREAS, the current MAWD MOPP states that "the fee portion of the dues may be based upon a differential structure which will be calculated on a yearly basis to meet the requirements of the budget for that year" and

WHEREAS, the current dues structure is based upon the total market value of real estate and

WHEREAS, a District's Board of Managers is in-tune with its property taxpayers and makes decisions on budgets based upon its priorities and ability to raise revenues, not the total market of real estate

THEREFORE, BE IT RESOLVED that the PLSLWD Board of Managers supports a thorough review of the MAWD dues structure and creation of one that more equitably reflects a District's ability to pay based upon its budget and levy.

The question was on the adoption of the Resolution and there were 5 yeas and 0 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>
BREITBACH	<i>[Signature]</i>		
CORRIGAN	<i>[Signature]</i>		
HENNES	<i>[Signature]</i>		
SPITZMUELLER	<i>[Signature]</i>		
HOWLEY	<i>[Signature]</i>		

Upon vote, the chair declared the resolution adopted.

[Signature]

Charlie Howley, Secretary

Dated: 9-12, 2017

PRIOR LAKE - SPRING LAKE WATERSHED DISTRICT

MAWD Board Term Limits Resolution 17-320

WHEREAS, the Prior Lake-Spring Lake Watershed District (PLSLWD) is a watershed management organization and political subdivision of the State of Minnesota and is a member of MAWD and

WHEREAS, the current MAWD bylaws indicate that the Board should be comprised up three directors from each region and

WHEREAS, according to MAWD's bylaws, members of the Board of Directors do not have term limits and

WHEREAS, according to MAWD's bylaws, Board Officers have term limits

THEREFORE, BE IT RESOLVED that the PLSLWD Board of Managers supports a change in the MAWD Board that establishes a limit of three consecutive terms for members on the MAWD Board of Directors to ensure there will be new perspectives and fresh ideas to move the organization forward.

The question was on the adoption of the Resolution and there were 5 yeas and 0 nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>
BREITBACH	<i>MB</i>		
CORRIGAN	<i>CS</i>		
HENNES	<i>CS</i>		
SPITZMUELLER	<i>MS</i>		
HOWLEY	<i>CSH</i>		

Upon vote, the chair declared the resolution adopted.

Charlie Howley
Charlie Howley, Secretary

Dated: 9-12, 2017

2017 MAWD Resolutions Background Information

Proposing District: Prior Lake-Spring Lake Watershed District

Contact Name: Diane Lynch

Phone Number:
(day) 952-440-0067

Email Address: dlynch@plslwd.org

Resolution Title: Term Limits for MAWD Board Members

Factual points which provide background to, or a basis for, the issue addressed by Resolution:

1. MAWD's Bylaws, Article IV, 4.4, Number, Qualification and Term of Office, states:

The number of directors constituting the board shall be nine. Each director elected at the annual meeting shall be elected for a three-year term. Directors shall be on the board of a watershed member in good standing of this corporation.

This language is silent on term limits.

Based upon the above facts, what is the proposed solution to the problem discussed above:

Board Officers have term limits, but Board Members do not. We suggest staggered terms for Board members and retirement from the Board on a date certain (i.e., 3, 1-year terms).

Likely Reaction by the Public or Other Governmental Units?

We would expect some regions to support it, while others would oppose it.

This issue is of importance (Check one):

To just our District: _____

To just our Region: _____

To the entire State: X