



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Please note the Carver County Government is closed therefore the meeting will be held online.
PLEASE CONTACT DISTRICT ADMINISTRATOR, LINDA LOOMIS FOR DIRECTIONS ON HOW TO PARTICIPATE.

Lower Minnesota River Watershed District
7:00 PM
Wednesday, June 17, 2020
Carver County Government Center
602 East Fourth Street, Chaska, MN 55318

Agenda Item	Discussion
1. Call to order	<p>A. Oath of office Lauren Salvato, Term expires 2/28/2023</p> <p>B. Roll Call</p>
2. Approval of agenda	
3. Citizen Forum	<p><i>Citizens may address the Board of Managers about any item not contained on the regular agenda. A maximum of 15 minutes is allowed for the Forum. If the full 15 minutes are not needed for the Forum, the Board will continue with the agenda. The Board will take no official action on items discussed at the Forum, with the exception of referral to staff or a Board Committee for a recommendation to be brought back to the Board for discussion or action at a future meeting.</i></p>
4. Consent Agenda	<p><i>All items listed under the consent agenda are considered to be routine by the Board of Managers and will be enacted by one motion and an affirmative vote of a majority of the members present. There will be no separate discussion of these items unless a Board Member or citizen request, in which event, the items will be removed from the consent agenda and considered as a separate item in its normal sequence on the agenda.</i></p> <p>A. Approve Minutes May, 2020 Regular Meetings</p> <p>B. Receive and file May 2020 Financial reports</p> <p>C. Approval of Invoices for payment</p> <ul style="list-style-type: none"> i. Daniel Hron - for May 2020 office rent ii. Time Savers Offsite Secretarial Service - for preparation of March 2020 meeting minutes iii. US Bank Equipment Finance - June 2020 payment on copier lease iv. USGS - for Q2 2020 payment for sediment monitoring v. Dakota County SWCD - for Q1 2020 monitoring vi. DRB Consulting - for first installment of payment for data management vii. Daniel Hron - for June 2020 office rent viii. HDR Engineering, Inc. - for updating website with rules and permit applications ix. Time Savers Off site Secretarial Services - for preparation of April 2020 meeting minutes x. Young Environmental Consulting Group - For April 2020 technical services

5. New Business/ Presentations	A. 2019 Financial Audit presentation B. Scott County SWCD 2019 monitoring results C. Future Board meetings and COVID -19 D. Braun 2020 Cost Share Application - 10312 Portland Avenue S., Bloomington E. Professional Services Requests for Proposals
6. Old Business	A. Larson 2020 Cost Share Application - 1033 Sunny Ridge Drive, Carver B. City of Carver Levee - no new information to report C. Remote meeting participation - no new information to report D. Dredge Management i. Vernon Avenue Dredge Material Management site ii. Private Dredge Material Placement E. Watershed Management Plan F. 2020 Legislative Action G. Education & Outreach - no new information to report H. LMRWD Projects - See Administrator Report for project updates <i>(only projects that require Board action will appear on the agenda. Informational updates will appear on the Administrator Report)</i> I. Project Reviews - See Administrator Report for project updates <i>(only projects that require Board action will appear on the agenda. Informational updates will appear on the Administrator Report)</i> i. Prairie Heights, Eden Prairie ii. 565 Lakota Lane, Chanhassen, variance request iii. Structures, Inc., Chaska J. MPCA Soil Reference Values - No new information since last update
7. Communications	A. Administrator Report B. President C. Managers D. Committees E. Legal Counsel F. Engineer
8. Adjourn	Next meeting of the LMRWD Board of Managers is 7:00pm Wednesday, July 15, 2020

Upcoming meetings/Events

- UMWA - Thursday, May 21, 2020, 12:30pm to 1:30pm, check with District Administrator to join
- Metro MAWD - Tuesday, July 21, 2020, 7:00pm Capitol Region Watershed District (no word yet on whether or not it will be virtual or cancelled)
- [2020 Salt Symposium](#) - August 4, 2020 8:30am & August 5, 2020, 7:30am streamed live on-line
- USACE River Resource Forum #117 - August 25-26, Savage City Hall
- USACE River Resource Forum #118 - December 1-2, MN Valley US Fish & Wildlife Service Visitor's Center, Bloomington, MN

For Information Only

- **WCA Notices**
 - City of Shakopee - Notice of Decision - Ridge Creek, residential development, (Prior Lake Outlet Channel realignment.

- **WCA Notices (continued)**
 - City of Shakopee - Notice of Application - Keyland Development
 - City of Shakopee - Notice of Application Hentges Industrial Park
- **DNR Public Waters Work permits**
 - City of Chaska (LMRWD project) - East Chaska Creek permit issued to construct project
- **DNR Water Appropriation permits**
 - City of Burnsville - Temporary water appropriation to allow for construction of gas mains.
 - City of Shakopee - Commercial /Institutional Water Supply application for Biff's to clean portable latrines.



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Minutes of Regular Meeting

Board of Managers

Wednesday, May 20, 2020

Carver County Government Center, 602 East 4th Street, Chaska, MN 7:00 p.m.

Approved _____, 2019

1. CALL TO ORDER AND ROLL CALL

On Wednesday May 20, 2020, at 7:00 PM, President Hartmann called to order the meeting of the Board of Managers of the Lower Minnesota River Watershed District (LMRWD) and asked for roll call to be taken. The meeting was convened on-line due to a declaration of a peacetime emergency by Governor Walz. The following Managers were present: Manager Adam Frey, Manager Dave Raby President Jesse Hartmann. In addition, the following joined the meeting: Linda Loomis, Naiad Consulting, LLC, LMRWD Administrator; Della Schall Young, Young Environmental Consulting Group, LLC, Technical Consultant; John Kolb, Rinke Noonan, Attorneys at Law, Legal Counsel; Lisa Frenette, Frenette Legislative Advisors, lobbyist for the LMRWD; Jennifer Gora, Metropolitan Airport Commission; Charley Howley, Prior Lake/Spring Lake Watershed District; and Lindsey Albright, Dakota County Soil & Water Conservation District.

2. APPROVAL OF THE AGENDA

Administrator Loomis said she had no additions or corrections to the Agenda.

Manager Raby clarified the approval for the meeting minutes should be for April, not March. He said the financials should also be for April. It was noted that the printed agenda was incorrect; however the agenda on-line was correct.

Manager Raby made a motion to approve the Agenda. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

3. CITIZEN FORUM

Administrator Loomis said she had not received any communications from anyone that wished to address the Board.

4. CONSENT AGENDA

President Hartmann introduced the item.

A. Approve Minutes of the April 19, 2020 Regular Meeting

B. Receive and file April 2020 Financial reports

C. Approval of Invoices for payment

- i. Liberty Mutual Insurance Company - annual payment for surety bond
- ii. Frenette Legislative Advisors - for April 2020 lobbying services
- iii. Rinke Noonan Attorneys at Law - for March 2020 legal services

- iv. **Star Tribune - for public hearing legal notice publication**
- v. **TimeSaver Off Site Secretarial Service - for preparation of February meeting minutes**
- vi. **HDR Engineering, Inc. - for website maintenance and development of rules pages**
- vii. **Naiad Consulting, LLC - for January, February and March 2020 administrative services, mileage and expenses**
- viii. **Young Environmental Consulting Group - for March 2020 technical services**

Manager Raby made a motion to approve the Consent Agenda. The motion was seconded by Manager Frey. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

5. NEW BUSINESS

A. Metropolitan Airport Commission presentation

Jennifer Gora updated the Board with construction projects that are scheduled to be done in 2020 at the Minneapolis/St. Paul Airport. She showed a map of the airport and explained the work that is planned. She noted that information was also provided on construction projects planned for Flying Cloud Airport.

President Hartmann asked if there was only one runway at Flying Cloud. Ms. Gora said there are two parallel runways that go east to west.

The Board thanked Ms. Gora for her time and the information.

B. MAWD Dues

Administrator Loomis asked the Board to authorize payment of the MAWD dues.

Manager Raby said he is still very concerned with the fact that MAWD continues to extend the \$500 dues to WMOs. He said at this point he is fine going ahead.

President Hartmann Felt that he didn't think there was much alternative. He asked how the dues are paid. Administrator Loomis said she puts in a claim request for a check with Carver County. Carver County then sends a check to MAWD.

Manager Raby made a motion to approve paying the MAWD Dues for 2020. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

C. Larson 2020 Cost Share Application - 1033 Sunny Ridge Drive, Carver

Administrator Loomis said this application is for a rain garden. The cost is \$5,878 so the request is for \$2,500 which is the maximum amount under a cost share program. The raingarden is planned to divert water from the street to a low area of the yard.

Manager Raby said there is no breakdown at all to the costs. He would like to see more detail. The other concern he has is whether or not the plants are approved. Administrator Loomis said they are using plants approved for rain gardens and that a sketch was included.

Manager Raby made a motion to table the Larson 2020 Cost Share Application to the June meeting and that more information regarding costs and plant material be provided. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

6. OLD BUSINESS

A. City of Carver Levee

Administrator Loomis said she doesn't have any information to add other than what was reported in the executive summary.

Manager Raby asked if the any of the information discussed with the city improved the rating to determine at what level the LMRWD should participate in sharing the cost of the project. Administrator Loomis said they some of the points the city made did improve the rating and others were not convincing. She did note that there are points that the city could make that would improve the rating, but were not made. She said LMRWD staff will continue to work with the City.

Administrator Loomis noted someone from Chaska is possibly interested in joining the board.

B. Remote meeting participation

No new information to report since last update.

C. Dredge Management

i. Vernon Avenue Dredge Material Management site

Administrator Loomis reported that staff met with the terminal operators. They asked for a date by which that they needed to have their material removed for the site. Material must be removed in order for construction to proceed. She said that Della Young is checking with technical consultants to determine a date.

ii. Private Dredge Material Placement

Administrator Loomis said that all the barge slips have been dredged and material placed on the Vernon Avenue site to dewater.

D. Watershed Management Plan

Administrator Loomis said a fee scheduled was shared with the Board at the April meeting. The item is on the agenda this month for Board approval. Attorney Kolb said that fees can be charged immediately on a case by case basis. He said the District established its authority to charge an inspection and permit fee in the rules and the Watershed Management Plan which have been adopted. He recommended that a fee be charged regardless of timing of receipt of a project.

The Board clarified what the fees were for. Administrator Loomis explained that this is the fee that is charged for the District to review a project for compliance with the LMRWD rules. She said that right now none of the cities have been approved for a municipal permit and therefore the LMRWD is reviewing every project.

Manager Raby made a motion to approve the fee schedule as presented. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

Attorney Kolb advised that it may be beneficial to make a motion to apply the fee schedule to the Chaska project that was received before adoption of the schedule.

Manager Raby made a motion to apply the fee schedule to the City of Chaska project that came in prior to the adoption. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

E. 2020 Legislative Action

Administrator Loomis reported that the Legislature adjourned on Monday without much happening. Lisa Frenette, lobbyist for the LMRWD, reported that the Senate and the House could not come to an agreement on the "Clean Car Rule" and therefore an Environmental bill went down. She has been talking to legislators and its likely there will be a special session.

She said there weren't a lot of issues that affected watershed districts. She said she has been working with Representative Torkelson and Senator Webber on legislation to start a pilot project to hold water back in the Upper Minnesota to reduce sediment flow. Because of the economic crisis that the State is in right now there was no money for it, but it is the start of something for water management organizations to begin thinking about.

Ms. Frenette has been looking at cuts that have been proposed to State funding to determine the affects of cuts on watersheds and the LMRWD. She said 14 to 17% across the board cuts have been proposed. She thinks bigger cuts will come in future years if there is not a good economic recovery. Agencies are looking to cut projects and programs rather than staff to maintain capacity. She has been working closely with MAWD to convince agencies to maintain funding to programs and projects. MAWD feels that programs and projects are more important than capacity. MAWD, Minnesota Association of Counties and the Association of Soil & Water Conservation Districts are looking to draft a united letter to that effect. All three groups working together will make more of an impact.

She noted she is still working on the grant money lost from BWSR.

The Board thanked Ms. Frenette for her report.

F. Education and Outreach Plan

No information to report since last update.

G. LMRWD Projects

(only projects that require Board action will appear on the agenda. Informational updates will appear on the Administrator Report)

i. Eden Prairie Study Area #3

Administrator Loomis reported that two memos were in the meeting packet on this project. She noted the first memo was from January and it had some recommendations for the District. She noted that Young Environmental pulled together estimated costs for the recommendations. She noted the second memo was prepared after staff made a field inspection of the area. She noted that the LMRWD has levied \$110,000 to be applied toward this area and has not spent much of that. Mostly just for the annual reading of the inclinometers;

President Hartmann noted that the first four recommendations amounted to approximately \$15,000. Manager Raby said he would personally not go forward with item v. of the projects. He said he could be convinced that the first four should proceed. President Hartmann said he thought the first four would give the District more information about what is going on hydrologically in the area.

Della Young said that was exactly right, the recommendations were listed in order of least cost and each one will inform the next recommendation. President Hartmann asked how the District gets the city of Eden Prairie to contribute to the project.

Manager Raby said they should check with the City of Eden Prairie about sharing the costs of these recommendations.

Manager Raby made a motion to approve i, ii, iii and iv with the stipulation that the City be approached to share in the cost (he noted he would be willing to proceed with i, ii, iii and iv without the City's participation). The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

ii. Gully Inventory and Conditions Assessment

Administrator Loomis said in 2007 the LMRWD worked with the MN Conservation Corps to conduct an inventory of gullies and ravines within the District. Since erosion problems have been seen more recently staff thought it is time to update the inventory. A work plan was shared with the board.

She noted there are some areas that will be difficult to access and that drones would be used to assess those areas. President Hartmann asked how drone inspection would be done. Ms. Young said they would contract with a drone pilot. This project would have to be done in the fall or spring when there are no leaves on the trees. Administrator Loomis noted the District has been setting money aside to be used to address work on these gullies that will be used for this project.

President Hartmann made a motion to approve the Gully work plan and authorize implementation. The motion was seconded by Manager Raby. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

iii. 2020 Trout Stream Gap Analysis & Long Term Strategic Management Plan

Administrator Loomis said this project is a continuation of the geomorphic assessment done by the LMRWD in 2019. This phase would look at the data that has been collected regarding the trout streams. President Hartmann asked about the cost. Ms. Young said the cost is \$42,000 - \$49,500.

Manager Raby asked if interns would be used. Ms. Young said they would be partially using interns.

Manager Raby made a motion to approve the Trout Stream Gap Analysis. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

H. Project/Plan Reviews

(only projects that require Board action will appear on the agenda. Informational updates will appear on the Administrator Report)

iv. Peterson Farms, LLC Road Maintenance Review (Permit No. 2020_100)

Administrator Loomis said this is an application to repair an access to several parcels on the river flats south of Flying Cloud Drive in Carver County. She noted the applicant is looking to place fill in the floodplain in order to access the parcels. She noted that the applicant was not asked to prepare a no rise evaluation because the project is a repair of an existing condition

Ms. Young noted this is the first project to use the online permit application process.

Manager Raby made a motion to approve the Person Farms, LLC application. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

v. Regional Rail Authority

Administrator Loomis said the Hennepin County Regional Railroad Authority owns this trail. An area of the trail in Chanhassen washed out in 2014 and has been closed since then. It is now being repaired. Staff has reviewed the project and requested that a maintenance agreement be prepared and executed. The maintenance agreement was reviewed by legal counsel and execution of the contract is being recommended.

Manager Raby made a motion to approve the agreement. The motion was seconded by President Hartmann. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

vi. 565 Lakota Lane, Chanhassen, variance request

Administrator Loomis said this project is requesting a variance from the city's ordinance for a septic system. The request is to relocate the septic from the backyard to the side yard, away from the bluff. She noted the District requested to know where the tank will be before to determine whether or not the new location is in the steep slope overlay zone.

President Hartmann asked if they have an existing septic. Administrator Loomis said she thought they did. She noted that Charley Howley, the Public Works Director for the City of Chanhassen, was on the line and might be willing to provide more information on this project. Mr. Howley said he reviewed this and they do have an existing tank on the back of the house. Attorney Kolb said that as long as the septic tanks are not located within the steep slope zone there is no variance needed from LMRWD rules. This is strictly a variance from city ordinance. Ms. Young said the District's concern is that when reviewing the project it was difficult to tell if the tanks were located within the steep slope overly zone.

Administrator Loomis noted that this property is in the same ravine system that is contributing sediment to the box culvert on Flying Cloud Drive that has been a topic of previous discussions by the Board. She noted that this is also the same system that two residential slope failures occurred in 2014 and the HCRRRA trail. She said this is a very active area.

vii. Structures, Inc., Chaska

Administrator Loomis said this is for a development of a property in Chaska. She said the LMRWD reviewed the project and one of the concerns is there is a 17 year old existing storm water pond on the site. The project is not in a steep slope overlay zone or a high value resource area. The City noted that there has not been any significant maintenance to the existing pond since its construction. She noted it was on the tonight's agenda, because staff hoped that it would be able to be approved it at the meeting; however staff did not get the information needed in time to recommend approval.

Administrator Loomis noted staff is meeting with the applicant and the City tomorrow morning. The City has approved the project and feels that it can't meet the LMRWD volume control standard because of the geology of the site. The City did not require any alternative BMPs to meet the LMRWD standards. The City does not have a Municipal Permit from the District and therefore projects need to apply to the District for a permit.

Ms. Young said staff wanted to make sure the fee schedule is applied to this project.

Administrator Loomis expressed concern over the City's implementation of LMRWD standards, since the standard for volume control did not change with the most recent Plan.

Administrator Loomis noted the Board does not need to take any action.

I. MPCA Soil Reference Values - no change since last update

No new information since last update.

7. COMMUNICATIONS

A. Administrator Report: Administrator Loomis reported that the 2019 financial audit was just completed and that the Auditor conducted the exit interview with her today. She asked the Board if they wanted to have Redpath come to the next Board meeting to walk through the audit and if paper copies of the audit were desired. The board asked for electronic copies. Manager Raby asked if they really need to have a presentation. Administrator Loomis noted there was a significant finding, but she is not sure if it will stay in the report after the conversation today. She recommended that they have someone come this year since they did not have anyone come last year. She said they could just do a walk through the report.

Administrator Loomis reported that a captain from Upper River Services noticed an unusual flow of water from Gun Club Lake into the MN River, which was reported to the DNR. The DNR sent inspectors to check it out and discovered that the beavers had dammed the normal outlet of Gun Club Lake and that water found another outlet.

Administrator Loomis said President Hartmann was reappointed by Scott County. Attorney Kolb recommended that President sign the oath of office and the Bond, which can be read into the record at the next Board meeting.

Lower MN River South Watershed Based Funding held its second meeting this morning. The group is still working on developing priorities.

B. Managers: Manager Raby noted that he is back in Minnesota.

C. Committees: No report

D. Legal Counsel: Attorney Kolb said the Board should think about how to conduct meetings once the District's regular meeting space opens up and we transition back into face to face meetings.

E. Engineer: No report

8. ADJOURN

President Hartmann adjourned the meeting at 8:38pm. Manager Raby seconded the motion. Upon a vote being taken the following voted in favor of the motion: Frey, Hartmann and Raby the following voted against: None.

The next meeting of the LMRWD Board of Managers will be 7:00, Wednesday, June 17, 2020 and will be held at the Carver County Government Center, 602 East 4th Street, Chaska, MN. Electronic access will also be available.

Dave Raby, Secretary

Attest:

Linda Loomis, Administrator

Item 4.B.
 LMRWD 6-17-20

BEGINNING BALANCE	30-Apr-20	\$ 2,317,757.62
ADD:		
General Fund Revenue:		
Dakota County 1st half 2020 tax settlement		\$ 32,638.72
		<u>32,638.72</u>
Total Revenue and Transfers In		\$ 32,638.72
DEDUCT:		
Warrants:		
423469 Daniel Hron May 2020 office rent		\$ 650.00
423495 US Bank Equipment Finance June copier payment		\$ 168.10
423815 Daniel Hron June 2020 office rent		\$ 650.00
100012666 Time Saver Offsite Secretarial March 2020 mtg minutes preparation		\$ 183.50
100012667 US Geological Survey Q1 2020 sediment monitoring		\$ 5,045.75
100012803 Dakota County Soil & Water Q1 2020 monitoring		\$ 3,400.00
100012811 HDR EGINEERING, Inc website upgrades for rules		\$ 1,120.53
100012482 TimeSaver Off Site Secretarial April 2020 mtg minutes preparation		\$ 148.00
100012615 Young Environmental Consulting April 2020 technical services		\$ 48,341.69
JE Carver County adjustments for accounting services		\$ 70.70
		<u>\$ -</u>
Total Warrants/Reductions		\$ 59,778.27
ENDING BALANCE	30-Apr-20	\$ 2,290,618.07

EXPENDITURES	2020 Budget	April Actual	YTD 2020	Over (Under) Budget
Administrative expenses	\$ 250,000.00	\$ 4,227.65	\$ 58,862.62	\$ (191,137.38)
Cooperative Projects				
Eden Prairie Bank Stabilization Area #3	\$ 35,000.00	\$ -	\$ 2,352.21	\$ (32,647.79)
Gully Erosion Contingency Fund		\$ 5,249.59	\$ -	\$ -
USGS Sediment & Flow Monitoring	\$ 19,700.00	\$ 5,045.75	\$ -	\$ (19,700.00)
Ravine Stabilization at Seminary Fen in Chaska	\$ 55,200.00	\$ -	\$ -	\$ (55,200.00)
Riley Creek Cooperative Project with RPBCWD	\$ 74,565.67	\$ -	\$ -	\$ (74,565.67)
509 Plan Budget				
<i>Resource Plan Implementation</i>				
TH 101 Shakopee Ravine	\$ 35,000.00	\$ -	\$ -	\$ (35,000.00)
Assumption Creek Hydrology Restoration		\$ -	\$ -	\$ -
Carver Creek Restoration	\$ 15,000.00	\$ -	\$ -	\$ (15,000.00)
Groundwater Screening Tool Model	\$ 50,000.00	\$ -	\$ -	\$ (50,000.00)
Eagle Creek (East Branch) Project			\$ -	\$ -
Minnesota River Floodplain Model Feasibility Study		\$ -	\$ -	\$ -
Schroeder Acres Park Stormwater Mgmt Proj	\$ 181,055.00	\$ -	\$ -	\$ (181,055.00)
PLOC Realignment/Wetland Restoration		\$ -	\$ -	\$ -
Spring Creek Project		\$ -	\$ -	\$ -
West Chaska Creek		\$ -	\$ -	\$ -
Sustainable Lakes Management Plan (Trout L	\$ 50,000.00	\$ -	\$ 1,223.62	\$ (48,776.38)
Geomorphic Assessments (Trout Streams)	\$ 50,000.00	\$ -	\$ -	\$ (50,000.00)
Paleolimnology Study (Floodplain Lakes)		\$ -	\$ -	\$ -
Fen Stewardship Program		\$ 34,641.45	\$ 68,669.90	\$ 68,669.90
District Boundary Modification		\$ -	\$ -	\$ -
East Chaska Creek Bank Stabilization Project		\$ 1,369.75	\$ 32,999.25	\$ 32,999.25
East Chaska Creek Treatment Wetland Project		\$ -	\$ -	\$ -
Minnesota River Sediment Reduction Strategy		\$ -	\$ -	\$ -
Seminary Fen - gap analysis		\$ -	\$ -	\$ -
Seminary Fen C2 Ravine Stabilization	\$ -	\$ -	\$ 97.50	\$ 97.50
Data Assessments and Program Review		\$ -	\$ -	\$ -
Dakota County Fen Management Study	\$ 25,000.00	\$ -	\$ -	\$ (25,000.00)
Riley Creek Cooperative Project		\$ -	\$ -	\$ -
Local Water Management Plan reviews	\$ 8,000.00	\$ -	\$ 3,277.25	\$ (4,722.75)
Project Reviews	\$ 20,000.00	\$ 4,278.65	\$ 17,865.05	\$ (2,134.95)
<i>Monitoring</i>	\$ 65,000.00	\$ 2,600.00	\$ -	\$ (65,000.00)
<i>Watershed Management Plan</i>	\$ 56,000.00	\$ 1,538.53	\$ 22,387.60	\$ (33,612.40)
<i>Public Education/CAC/Outreach Program</i>	\$ 30,000.00	\$ -	\$ 5,222.05	\$ (24,777.95)
<i>Cost Share Program</i>	\$ 20,000.00	\$ -	\$ -	\$ (20,000.00)
Nine Foot Channel				
Transfer from General Fund	\$ 80,000.00	\$ -	\$ -	\$ (80,000.00)
Dredge Site Improvements	\$ 315,000.00	\$ 826.90	\$ 3,506.80	\$ (311,493.20)
Total:	\$ 1,184,520.67	\$ 59,778.27	\$ 216,463.85	\$ (1,026,919.44)



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, June 17, 2020

Agenda Item

Item 5. A. - 2019 Audit presentation

Prepared By

Linda Loomis, Administrator

Summary

Andy Hering from Redpath and Company will join the meeting to present the 2019 Audit report and answer any questions the Board may have. The Audit report was provided to the Board on May 26 and can also be found on the LMRWD Website.

Attachments

[LMRWD 2019 Financial Audit Report](#)

Recommended Action

Motion to receive and file 2019 Audit report and authorize distribution



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, June 17, 2020

Agenda Item

Item 5. B. - Scott County SWCD 2019 monitoring results

Prepared By

Linda Loomis, Administrator

Summary

This item was scheduled for the March 2020 Board meeting. However, it was cancelled due to the Governor's Executive Order. Jon Utecht from the Scott County SWCD will join the meeting to make the presentation of the 2019 monitoring results from Scott County resources. The written report was received and filed by the Board in March. The monitoring report can be found on the LMRWD website. A link is provided to the report.

Attachments

[2019 Scott County Annual Monitoring Report](#)

Recommended Action

No action recommended



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, June 17, 2020

Agenda Item

Item 5. C. - Future Board meetings and COVID-19

Prepared By

Linda Loomis, Administrator

Summary

The Governor's Emergency has ended. However, the meeting location for Board meetings has not reopened to the public. The Board should discuss how it wishes to conduct future meetings. Legal Counsel for the LMRWD has provided an opinion for the Board's information. The Board should provide direction to staff, regarding future meetings, if the regular meeting location does not open to the public.

Attachments

Legal opinion dated June 4, 2020 - COVID 19, District Operations Update

Recommended Action

provide direction to staff



RINKE NOONAN
attorneys at law

1015 W. St. Germain St., Ste. 300, P.O. Box 1497
St. Cloud, Minnesota 56302-1497
Telephone 320-251-6700, Fax 320-656-3500

Office Memorandum

To: Linda Loomis, Administrator, Lower Minnesota River Watershed District
From: John C. Kolb (320) 656-3503
Re: COVID 19, District Operations Update
Date: June 4, 2020

On May 13, 2020, Governor Walz issued Emergency Executive Order (EEO) 20-56, which continues to expand the sphere of permitted business activity. You have asked how this order affects: (a) the closure of public facilities used by the District; and (b) the Board's conduct of meetings by remote means pursuant to Minnesota Statutes §13D.021.

Public Facilities Closure

By Resolution, the Carver County Board authorized a minimum office presence to address essential administrative matters by designating that work as "Critical Sectors" work under EEO 20-20. At the same time, the County closed its facilities to the public – impacting the availability of the Watershed District's regular, in-person meeting location. EEO 20-48 (April 30, 2020) authorized local government to re-open its offices to employees generally, but not to the public. EEO 20-56 has broadened this authority further. The County Board now has the authority to re-open its offices both to employees and to the public. To do so, the County Board must adopt, maintain and train employees in a Preparedness Plan that contains the following:

- Protocols to follow Minnesota OSHA standards and MDH/CDC Guidelines.
- Policies and procedures, including health screenings, that prevent sick employees from entering the workplace.
- Social distancing policies and procedures.
- Hygiene and source control policies for employees.
- Cleaning, disinfection and ventilation protocols for the office.
- If the office is open to the public, additional elements to keep employees and the public safe in staff-public interactions.

EEO 20-56 contains a link to a template preparedness plan. If the County Board were to reopen its facilities under preparedness plan, the Watershed District's use of the facilities would be

subject to the plan. It is important to note that even as public facilities are reopened, workers must still work from home if able to do so.¹

Relatedly, EEO 20-54 (May 13, 2020) sets forth employer obligations to protect employees from unsafe working conditions and against retaliation for raising concerns about such conditions. The District should review and required protocols before returning to in-person meetings or direct public interaction.

Note that while EEOs 20-48 and 20-56 allow for the re-opening of public facilities, they do not mandate it. Local government may continue to restrict public access to facilities if it finds that work is adequately being accomplished and that re-opening the facilities would not yet be prudent for employee or public health.

Board of Managers Meetings

EEO 20-56 allows for in-person meetings of governmental bodies to occur, and states that such meetings are not subject to the limit on public gatherings of 10 persons or fewer. Accordingly, the Board of Managers may meet in person. In the same way as for public facilities re-opening, EEO 20-56 authorizes, but does not mandate, that the Board meet in person. In fact, the EEO "strongly encourages" the continuation of remote meeting.

Even if the Board decided to hold in-person, public meetings, it would likely have to accommodate access and participation to those with heightened risk factors or health and safety concerns. These individuals could include members of the public, Board members or employees.

EEO 20-56 does not explicitly require a Preparedness Plan, and associated training, in conjunction with a decision to hold an in-person meeting of a governmental body. It is my impression that this may be an oversight in the structure of the order. The District could seek guidance on this from the Department of Employment and Economic Development, or could decide that regardless of whether EEO 20-56 requires such steps, they would be prudent. Such a plan could address meetings in the District's regular (if available) or alternative meeting locations, in a location under others' control, and when members of the public are in attendance.

Minnesota Statutes §13D.021 states that the Board of Managers may meet remotely if the Board President "determines that an in-person meeting ... is not practical or prudent because of a health pandemic or an emergency declared under chapter 12." A health pandemic and a

¹ Work defined as "Critical Sectors" work is not subject to the above-referenced requirements to prepare, train employees in and implement a Preparedness Plan. EEO 20-48, at paragraph 6.i(ii), designated as Critical Sectors work: "Workers supporting environmental compliance and assistance activities, field research, monitoring and surveying, habitat restoration, natural land and water management, and plant and animal population management." There is an ambiguity as to whether this refers only to workers engaged in field activities supporting the described activities, or whether it more broadly encompasses office work supporting such activities. We would advise a conservative reading that treats office work, beyond the essential work authorized by the Board or other specifically designated Critical Sectors work, as Non-Critical Business work under EEO 20-56 subject to preparedness requirements.

chapter 12 emergency are alternative bases for this determination. The Board President's determination was premised on both health pandemic and the Governor's emergency declaration. The Board's authority to meet remotely, then, is independent of the status of the Governor's emergency declaration, or of any other external finding as to pandemic status. Therefore, the Board may continue to meet remotely until the Board President, administrator or legal officer, in their judgment, withdraw the determination, or until the pandemic has resolved to the extent that the judgment that it is imprudent to meet in person becomes objectively insupportable.



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, June 17, 2020

Agenda Item

Item 5. D. - Braun 2020 Cost Share Application - 10312 Portland Avenue South, Bloomington

Prepared By

Linda Loomis, Administrator

Summary

Dustin Braun completed the Master Water Steward Program and this project will be his Capstone project. Hennepin County provided technical assistance to Mr. Braun for this project. The project is will capture the rainwater and store it in a 1,000 gallon cistern. The cistern will provide irrigation to the gardens, fruit and nut trees that will be planted are planned to be planted. Mr. Braun is a landscape designer and intends to do the majority of work himself.

The total estimated cost of the project is \$4,835.00. Mr. Braun is asking for a cost share of half that amount \$2,417.50. This is the third cost share application the District has received this summer.

Attachments

Cost share application

Recommended Action

Motion to approve Cost Share Application



Application type (check one) Homeowner Non-profit - 501(c)(3) School
 Business or corporation Public agency or local government unit

Project type (check all that apply) Raingarden Vegetated Swale Infiltration Basin
 Wetland restoration Lake/creek/wetland buffer Conservation practice
 Shoreline/bank stabilization Pervious hard surface
 Other CISTERN

Applicant Information

Name of Organization or Individual Applying for Grant (to be named as Grantee): DUSTIN BRAUN

Address (street, city and ZIP code): 10312 PORTLAND AVE S, BLOOMINGTON, MN 55420

Phone: 952-994-5864 Email address: DUSTIN@HOMEGROWNDESIGN.LAND

Primary Contact (if different from above)

Name of Organization or Individual Applying for Grant (to be named as Grantee):

Address (street, city and ZIP code):

Phone: _____ Email address: _____

Project location

Address (street, city and ZIP code): 10312 PORTLAND AVENUE S, BLOOMINGTON, MN 55420

Property Identification Number (PID)

Property Owners: DUSTIN & NICOLE
BRAUN

Project Summary

Title RESIDENTIAL RAINWATER HARVESTING AND IRRIGATION

Total Project Cost \$4,835 Grant amount requested \$2,418

Estimated start date JULY 2020 Estimated completion date SEPTEMBER 15, 2020

Is project tributary to a water body? No, water remains on site Yes, indirectly Yes, directly adjacent

Project description:

PLEASE SEE ATTACHED DOCUMENT WITH FULL DESCRIPTION AND DETAILS

Is this work required as part of a permit? No Yes

(If yes; describe how the project provides water quality treatment beyond permit requirement on a separate page.)

Project Details

Checklist To be considered complete the following must be included with the application.

location map

project timeline

site plan & design schematic

proof of property ownership

itemized budget or contractor bid

plant list & planting plan (if project includes plants)

Description

Describe the current site conditions, as well as site history, and past management

PLEASE SEE ATTACHED DOCUMENT WITH FULL DESCRIPTION AND DETAILS

What are the project objectives and expected outcomes? Give any additional project details.

PLEASE SEE ATTACHED DOCUMENT WITH FULL DESCRIPTION AND DETAILS

List other key participants and their roles (provide contact information for each partner and his/her expected contribution to the project)

MASTER WATER STEWARD PROGRAM - They have provided the education and support for me to start this project and see it through to completion. I am in the 2020 cohort of this program and this will be my capstone project.

Which cost share goals does the project support? (check all that apply)

improve watershed resources

Foster water resource stewardship

increase awareness of the vulnerability of watershed resources

increase familiarity with and acceptance of solutions to improve waters

How does the project support the goals you checked?

PLEASE SEE ATTACHED DOCUMENT WITH FULL DESCRIPTION AND DETAILS

Project Details (continued)

Benefits Estimate the project benefits in terms of restoration and/or **annual** pollution reduction. If you are working with a designer or contractor, they can provide these numbers. If you need help contact the district Administrator.

Benefit	Amount
Water captures	gal/year
Water infiltrated	gal/year
Phosphorus removed	lbs/year
Sediment removed	lbs/year
Land restored	sq. ft.

How will you share the project results with your community?

PLEASE SEE ATTACHED DOCUMENT WITH FULL DESCRIPTION AND DETAILS

Are there other projects that could be initiated as a result of this one?

PLEASE SEE ATTACHED DOCUMENT WITH FULL DESCRIPTION AND DETAILS

Evaluation

How will the project be monitored and evaluated?

PLEASE SEE ATTACHED DOCUMENT WITH FULL DESCRIPTION AND DETAILS

Maintenance agreement

I acknowledge that receipt of a grant is contingent upon agreeing to maintain the project for the number of years outlined in the cost share guidelines. Yes

Authorization

Name of landowner or responsible party DUSTIN BRAUN

Signature *Dustin Braun* Date 6/12/2020

Type or handwrite your answers on this form. Attached additional pages as needed

(For questions, contact Linda Loomis at NaiadConsulting@gmail.com or call 763-545-4659.)

Mail the completed application to:

or Email to:

Lower Minnesota River Watershed District
c/o Linda Loomis, Administrator
112 E. Fifth St., Suite 102
Chaska, MN 55318

Linda Loomis, Administrator
naiadconsulting@gmail.com

2020 Master Water Steward capstone application form

Submit the first draft of the application by April 22, 2020 to Christina Schmitt: christina.schmitt@hennepin.us. Final application is due May 22, 2020. Application approval is required prior to receiving capstone funds.

Contact information

Master Water Steward candidate name:	Dustin Braun
Project Name:	Homestead Scale Rain Cistern
Project Location (address):	10312 Portland Ave. S., Bloomington, MN 55420

Best Management Practices (BMP) installation project description

- **Project summary:** *Briefly summarize the water quality problem you intend to address and your proposed project.*

This project is intended to address the over consumption and mis-direction of our limited water resources across the typical residential landscape by offering an alternative low-tech solution to capturing, storing, infiltrating and irrigating with the rain water that lands on site.

As we know, the majority of residential landscapes have been designed to shed water that falls from the sky off site as fast as possible; inundating our local watersheds with large spikes of water that carries with it all sorts of fertility, pollutants, foregoing any potential positive uses and dumping it in the nearest water body. We then choose to import back to our landscapes a very energy intensive form of water from surface and below surface sources and use it to supplement the irrigation needs for our landscapes and personal uses. I am going to show how we can substantially reduce, if not all together eliminate the need for supplemental city supplied water resources for a suburban landscape.

I have chosen to install a large rain cistern at my home which has been designed to be a water wise, eco-friendly, edible landscape which has a net positive environmental impact. This cistern will close the loop on taking this landscape off of the municipal water supply for landscape irrigation and will offer an important educational aspect to the neighborhood and for the community tours that will held here. This location is only 1 block from the MN River Valley and will bring awareness to the responsibility we all have of maintaining the water quality of our local rivers.

- **Please provide contact information of the firm that assisted you with project scoping and design:**

I am a landscape designer by profession and will manage all aspects of design and implementation.

HomeGrown Land Design, Dustin Braun, dustin@homegrowndesign.land, 952-994-5864

- **Project selection:** *Describe how and why you chose to complete a project in the location you are proposing. Why is this the right project for this location? What alternatives did you and your designer consider? Reference Watershed Management Plans and/or correspondence with county staff of watershed representatives.*

I live in a neighborhood that has direct access to the MN River Valley within a block or two from most people's homes. We all have a very important role to play in mitigating the potential negative impacts our landscapes can have on this local water body and currently I'm not seeing a lot of action and examples for others to be motivated by. Bloomington did support a rain garden installation project in our area which does showcase an example BMP for mitigating water runoff from our hardscapes and I'd like to showcase another solution which residents can get more hands on with at their homes. During conversations with the Hennepin County staff, the ideas I presented were well received and there was a lot of excitement to see this project move forward. With that excitement I knew I was on the right track.

My house has already begun a large transformation from being a typical flat lawn sloped towards the street, to one with pollinator plantings, water harvesting infiltration basins, gutter redirection, fruit trees and shrubs, vegetable gardens and more. Currently the one piece that's missing to tie it all together as being truly 'water wise' is to capture, store and irrigate with the rain water that falls onsite; reducing the amount of storm water entering our local system and increasing the health of this ½ acre + ecosystem.

The location of the cistern will catch water from the largest and cleanest portion of the garage roof. It will be located on the north side of the garage near some of our gardens and will offer a cooler location to maintain a high level of water quality. Once the water is captured, any overflow will be directed back into the landscape into a low lying area which will infiltrate and passively irrigate establishing fruit trees, shrubs and pollinator plantings making this a great example of a close loop system that takes water from a hardscape and infiltrates it into the ground. We have very sandy soils in this area and will be able to infiltrate all of the water flowing through this system.

- **Site selection:** *Include letter of support from the project site's property owner.*

It's my own property and I support this project 😊

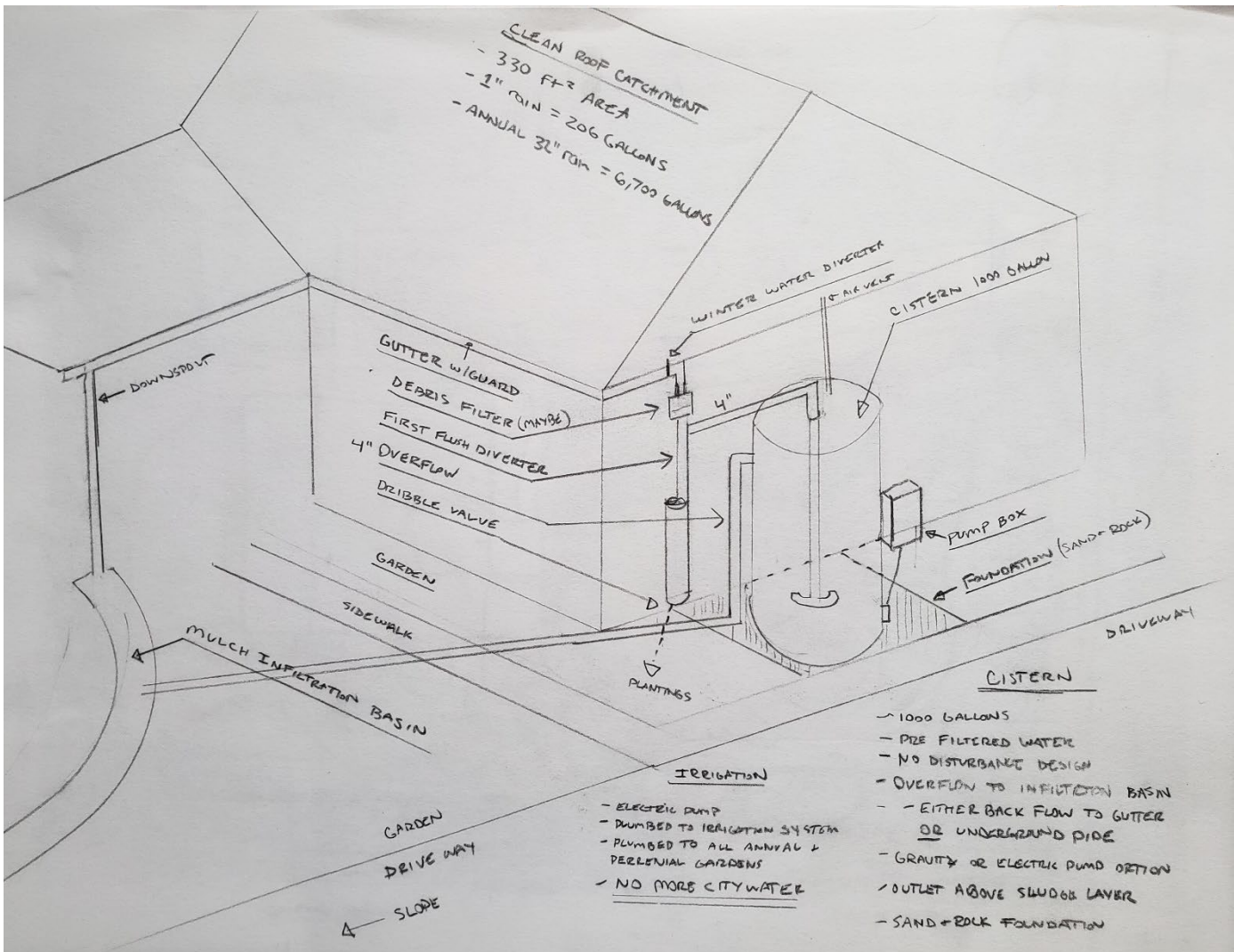
- **Detailed project description:** *Describe the proposed project and your implementation timeline. What will be the end result? Include time-specific major milestones between project initiation and project completion.*
 - Installation of a properly designed 1,000 gallon rain water cistern which will supply 100% of the landscapes seasonal irrigation needs.
 - Sourced from debris free asphalt roof of home
 - Filtered at gutter source with gutter guards
 - Pre-treatment using a first-flush diverter designed to separate initial ~20 gallons of dirtier water prior to clean water entering cistern. Weekly maintenance check to be performed.
 - Quiet inlet design to ensure no mixing of tank sediment while filling
 - Overflow design with appropriately sized 4" plumbing and draining to a mulch infiltration basin which will passively irrigate annual vegetables, fruit trees and pollinator plantings, ending up in a grass infiltration basin/rain garden.
 - Diverter Valve allows water to be harvested in summer and diverted in winter.
 - Automated irrigation for all landscaping needs
 - On-demand electric pump to automate irrigation needs and remove need for pressurized city water source for landscape.
 - Plumbing to existing irrigation system (which will be disconnected from the city supply), annual garden beds and new outdoor faucets will replace the city water source with water from the cistern.
 - Automatic Timer will be used to automate irrigation tasks making them easier and removing barrier to engagement.

- Shade Structure to keep water temperature cool during the summer season
 - Pergola over rain cistern with seasonal shade provided by Hardy Kiwi Vines
- (Not in scope, potential future enhancement) Potable water treatment system for rain water harvested.
 - Three/Four stage filter: Gravel up-flow filter, sand bio filter, biochar filter, UV filter
 - Potable water storage tank in basement which can supply household needs.
- Benefits
 - Reduce demand on local water resources and infrastructure during peak seasons.
 - ~3-4,000 gallons seasonally (maybe more, hard to say as demand may change annually)
 - Reduced runoff into storm water system diverted into cistern and landscape
 - 1" rain event: ~171 gallons
 - 24" average rainfall April-October: ~4,104 gallons
 - Healthy water used to grow produce which feeds a family and community.
 - Chlorine/Chloramine/Fluoride/etc... free
 - Nutrient rich containing high levels of nitrogen
 - Water independence: Take ownership of our water needs
- Implementation Timeline:
 - Coordinate Installation workshops: May-June
 - Materials Ordered: Week of July 1st
 - Installation: June 20th-June 28th
 - Installation workshops: July 18th, July 25th
 - Video Documentary: Installation process documentary complete by: September 15th
- Notes:
 - There will be no required permits for this project based on my conversations with the city permit office. Rain barrels/cisterns do not require a permit and since I'll be disconnecting the inground irrigation system from the city supply they will not require any permitting.
 - My home is insured and I carry a liability policy to cover issues with the cistern and volunteers helping on the project.
 - Social distancing guidelines will be followed during project installation:
 - Stay at home if you're sick, don't share tools, limited interactions, sanitize and wash hands. If there are tasks, where maintaining social distancing may be challenging, the workers should wear masks. It's also best to minimize the number of people working on-site at any one time.

BMP project design detail

1,000 Gallon Cistern sizing considerations are based on average monthly rainfall, monthly usage and installation location.

Imagine the same setup shown below on the North side of the garage. The overflow will be directed into a low laying area near the cistern where water will infiltrate and irrigate the water loving plantings nearby. If the overflow is very large, the water will then slowly travel ~150' through grass, infiltrating and irrigating fruiting shrubs along the way before it ever enters the street. *Foundation will be 6" of compacted gravel after excavation of topsoil.



Seasonal Maintenance

- Winterizing in late October includes draining tank, leaving valves cracked open, diverting water to regular overflow path.
- Tank Cleaning: In the Spring the tank will be laid on it's side and fully cleaned before being used for the season.
- Debris filter and gutter guard cleaning will be performed in between large rain events as necessary.

Community outreach plan description

- **Topics:** *Which topics will you cover in your outreach and education efforts (select all that apply):*
 - Erosion or sediment
 - Road salt
 - General water quality**
 - Groundwater**
 - Critical habitat**
 - Other (please list):
- **Outreach goals:** *What are your goals for your outreach and education efforts/what changes are you hoping to affect in your community?*
 - My goal is to connect with the community I live within to foster greater sense of ownership of maintaining the health of our local ecologies and water resources. I want to share with others the knowledge that I have gained through this program as well as the years of self-study and coursework that guides me in most decisions I make. I'd like to create community with others that share this passion and develop neighborhood level relationships that are rooted in environmental and personal health. Most of all, I want to share that being eco-conscience is not only easy, it's fun!
- **Describe your audience:** *Include a description of the audience you intend to reach with your education and outreach efforts. Be as specific as possible regarding geographic area, demographics, and other relevant information about your audience.*
 - My target audience will be members of my community here in SE Bloomington as well as I've built connections with online through my edible landscape business. The audience can be young and old, my next-door neighbors to those that need to drive a few miles to come over. I'd like to speak directly to those that share the responsibility of stewarding the MN River Valley that is so close to our hearts and homes.
- **Project activities:** *Describe the activities you plan to do to engage your audience in learning about and/or taking action to protect water. Include a timeline of activities. Tell us about the educational resources you plan to use.*

I'll be taking part in a two different outreach programs which are both aimed at educating the public on how to design, implement and maintain water quality BMP's at home.

 - I've been working with the Bloomington Water Resources department to develop and understanding of what condition the current ~100 rain gardens are in that the city of Bloomington installed for residents as part of the street reconstructions projects.
 - Rain Garden Owner Survey: We started by developing an approach for how we think the best way to reach residents and garner feedback from them would be. This resulted in a 15 question survey that was sent to all the residents with raingardens in Bloomington and the nine mile creek watershed district. This survey lead to information that allowed us to create a tailored approach for what the community needed.
 - Rain Garden Management Plan: The next items was to create/update a rain garden management plan that Capital Region Watershed was nice enough to share with us. This work was finalized the week of 4/13/20 and will be mailed out in the coming weeks to residents.
 - Rain Garden Maintenance Class: The residents also shared a desire to have an in-person education event which we concluded would be a neighborhood level rain garden maintenance class hosted at one of the residents rain garden. Our goal is to either collectively lead three different courses over the summer months OR Lead a live webinar covering the same material this summer at the Nine Mile Creek offices rain garden if the shelter in place is still in effect. Our target audience is likely around 100 people.

- I'll also be educating the community about the importance of managing your own water-print across your landscape with the main subject being the installation of the home scale rain water cistern.
 - Installation events: As part of the implementation I'll be hosting two in person workshops for the rain water cistern installation on July 18th and July 25th. These will allow the local community to see up close what it takes to make a difference and to learn and ask questions along the way. At this event I'll also discuss the adopt a drain program and share a few easy tips for getting started at home.
 - Video Documentary: An installation process documentary will be filmed of the entire process from the conceptual goals, the decision making patterns, installation and the system in use. This will be shared on social media platforms through my network and any others that are interested. I plan to complete this by September 15th and believe I'll be able to reach multiple hundreds of people through this medium, especially with the covid events this year. I will leverage the help of a professional videographer to make the content really stand out from the average video. This is a personal friend of mine.

Budget

- **Budget:** *Provide a budget for the project, including total costs broken down by tasks and the amount requested through this capstone grant application. Describe how the costs were estimated. In addition, provide the following breakdown:*
 - Total project cost: \$4,835
 - LMRWD Grant requested amount \$2,418
 - Funding from other sources: \$2417
- **Budget detail:** *Use table below and/or attach budget detail*

These costs have been estimated using research from various companies that supply the main components of the rain water harvesting components. Some of the items have been estimated and shipping and taxed have been estimated. Any costs above and beyond the \$2,500 will be covered out of pocket by myself.

Description	Cost	Source
1,000 Gallon Cistern	\$ 800.00	https://www.rainharvest.com/1000-gallon-snyder-vertical-water-tank.asp
Pump, first flush diverter, calming inlet, overflow siphon, accessories	\$ 725.00	https://www.rainharvest.com/rainflow-ags-above-ground-rainwater-collection-system.asp
Plumbing (Overflow, Irrigation lines, timer)	\$ 300.00	Menards
Cement Foundation	\$ 500.00	Local
Cistern Shade Structure	\$ 500.00	Menards
Plants (Hardy Kiwi)	\$ 60.00	Bachmans
Video Documentary Editing Support	\$ 200.00	Local Videographer friend
Labor (\$12/hr x 150 hours)	\$ 1,800.00	
Total Project Estimation	\$ 4,835.00	

Master Water Stewards

MIDS (Minimal Impact Design Standards) Calculator Data

http://stormwater.pca.state.mn.us/index.php/MIDS_calculator

Rain Barrel/ Cistern	
Date of Project	June 2020
Zip code of Site	55420
Total Area of site	23,099 sqft/.53 acres
Total Impervious Area on Site	4,016 sqft
Area Routed to project	275 sqft (27.5'x20.5')
Impervious Area captured by project	275 sqft (27.5'x20.5')
Cistern Volume Capacity	1,000 gallon
Irrigation Application Area	19,000 sqft (potentially irrigated area)
Irrigation Application Rate	1x per week
Irrigation Season Start	April
Irrigation Season End	October
Does the system go offline during off season?	Yes
Date of Project	June 2020



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, June 17, 2020

Agenda Item

Item 5. E. - Professional Services Requests for Proposals

Prepared By

Linda Loomis, Administrator

Summary

The LMRWD advertised that it was requesting proposals for Legal Consulting services, Technical/Engineering Consulting services and Education and Outreach services. The deadline to submit proposals was Friday, June 5, 2020. The LMRWD received one proposal for each category. Rinke Noonan Attorneys at Law submitted a proposal to provide legal services and Young Environmental Consulting Group, LLC provided a proposal to provide technical and a second proposal to provide Education and Outreach Services. All proposal have been uploaded to the LMRWD website and can be accessed through the links below.

I did receive inquiries from other firms about providing services; however none of those firms submitted proposals.

Attachments

[Rinke Noonan proposal to provide legal services](#)

[Young Environmental Consulting Group proposal to provide technical services](#)

[Young Environmental Consulting Group proposal to prove Education and Outreach Services](#)

Recommended Action

Motion to accept proposals and authorize preparation of contracts to provide professional services



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, June 17, 2020

Agenda Item

Item 6. A. - Larson 2020 Cost Share Application - 1033 Sunny Ridge Drive, Carver

Prepared By

Linda Loomis, Administrator

Summary

At the May meeting a decision on this Cost Share application was tabled pending additional information. The Board requested more detailed information regarding the costs of the project.

Ms. Larson has provided more information regarding the costs of the project. The total cost of the project is \$5,878.13. The LMRWD Cost Share program allows for grants on residential properties of 50% of the project cost up to a maximum of \$2,500. 50% of the cost of this project is \$2,393.07 so the homeowner is eligible for reimbursement of \$2,500. Rain gardens are allowed projects under the Cost Share program.

Attachments

Larson Cost Share application with additional information regarding the cost.

Recommended Action

Motion to approve cost share application for 1033 Sunny Ridge Drive, Carver



Application type (check one) Homeowner Non-profit - 501(c)(3) School
 Business or corporation Public agency or local government unit

Project type (check all that apply) Raingarden Vegetated Swale Infiltration Basin
 Wetland restoration Lake/creek/wetland buffer Conservation practice
 Shoreline/bank stabilization Pervious hard surface
 Other Pollinator habitat garden

Applicant Information

Name of Organization or Individual Applying for Grant (to be named as Grantee):

Renee Larson

Address (street, city and ZIP code):

1033 Sunny Ridge Dr, Carver, MN 55315

Phone: 612-280-9763 Email address: cattygiles@gmail.com

Primary Contact (if different from above)

Name of Organization or Individual Applying for Grant (to be named as Grantee):

Address (street, city and ZIP code):

Phone: _____ Email address: _____

Project location

Address (street, city and ZIP code):

1033 Sunny Ridge Drive, Carver, MN 55315

Property Identification Number (PID)

20.4500100

Property Owners:

Renee Larson

Project Summary

Title Larson Raingarden 2020

Total Project Cost 5878.13 Grant amount requested 2939.00

Estimated start date May 15, 2020 Estimated completion date July 1, 2020

Is project tributary to a water body? No, water remains on site Yes, indirectly Yes, directly adjacent

Project description:

SEE ATTACHMENT 1

Is this work required as part of a permit? No Yes

(If yes; describe how the project provides water quality treatment beyond permit requirement on a separate page.)

Project Details

Checklist To be considered complete the following must be included with the application.

location map ATTACHMENT 3(b) project timeline ATTACHMENT 1

site plan & design schematic ATT 3(a) proof of property ownership ATTACHMENT 4

itemized budget or contractor bid ATT 4 plant list & planting plan (if project includes plants) ATT 3(a)

Description

Describe the current site conditions, as well as site history, and past management

SEE ATTACHMENT 2 #1

What are the project objectives and expected outcomes? Give any additional project details.

SEE ATTACHMENT 2 #2

List other key participants and their roles (provide contact information for each partner and his/her expected contribution to the project)

Renee Larson 612-280-9763 cattygiles@gmail.com
Owner

David Pierson 612-251-9910 info@piersonlandscape.com
Pierson Garden and Landscape, Owner

Which cost share goals does the project support? (check all that apply)

improve watershed resources

Foster water resource stewardship

increase awareness of the vulnerability of watershed resources

increase familiarity with and acceptance of solutions to improve waters

How does the project support the goals you checked?

- Increases awareness with front yard exposure and expansiveness of project.
- Displays aesthetically pleasing manner to collect runoff of water and filtration of road debris.
- Increases familiarity with and acceptance of improving waters by being the first homeowner on Sunny Ridge Drive to put in a raingarden which may engage other homeowners in the area to do the same.

Project Details (continued)

Benefits Estimate the project benefits in terms of restoration and/or annual pollution reduction. If you are working with a designer or contractor, they can provide these numbers. If you need help contact the district Administrator.

Benefit	Amount	
Water captures	unknown	gal/year
Water infiltrated	unknown	gal/year
Phosphorus removed	unknown	lbs/year
Sediment removed	unknown	lbs/year
Land restored	1,500	sq. ft.

How will you share the project results with your community?

- Next Door
- Facebook
- Word of mouth
- Site may also be used in Pierson Garden & Landscape advertising as per ATTACHMENT 2

Are there other projects that could be initiated as a result of this one?

Possibility of a second raingarden on the west side of the driveway.

Evaluation

How will the project be monitored and evaluated?

Project will be monitored by the homeowner who will follow watering and maintenance guidelines provided by Pierson Garden & Landscape.

Maintenance agreement

I acknowledge that receipt of a grant is contingent upon agreeing to maintain the project for the number of years outlined in the cost share guidelines. Yes

Authorization

Name of landowner or responsible party Renae Larson

Signature Renae Larson Date 5/11/2020

Type or handwrite your answers on this form. Attached additional pages as needed

(For questions, contact Linda Loomis at NaiadConsulting@gmail.com or call 763-545-4659.)

Mail the completed application to:

or Email to:

Lower Minnesota River Watershed District
c/o Linda Loomis, Administrator
112 E. Fifth St., Suite 102
Chaska, MN 55318

Linda Loomis, Administrator
naiadconsulting@gmail.com

ATTACHMENT 2

Description

- 1) The house was built in 1986. Renae Larson is the original and only owner. The home sits lower than Sunny Ridge Drive. Therefore, the angle of the driveway slopes down towards the house from the street. Rainwater (and at times road debris such as salt, sand, dirt) run from the street into the driveway and pools at the northeast side. In 2009, the City of Carver installed curb and gutter on Sunny Ridge Drive. A better driveway was constructed, but since the house sits lower than the road, rainwater still collects at the northeast portion of the driveway. To temporarily mitigate this, a small trench was formed in the turf as a collection point. Mulch was added around the area. See pictures below.



- 2) The project objectives are to provide approximately 1500 sq. ft. area for rainwater to drain from the driveway into a small infiltration basis (currently the trench). The project includes a pollinator habitat with many flowering perennials. Plants used will be suitable for the dry and wet areas of the raingarden. See ATTACHMENT 1 for project details.

ATTACHMENT 3(a)



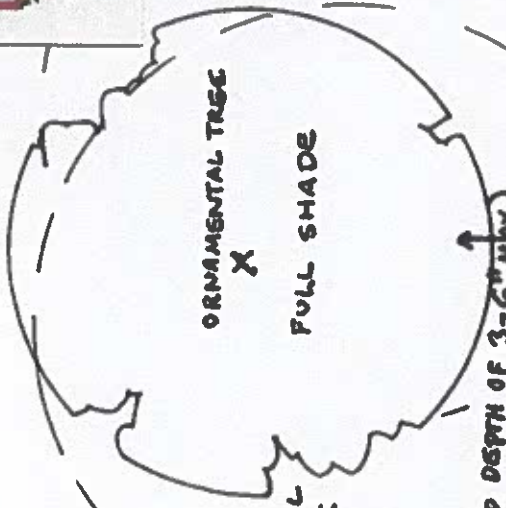
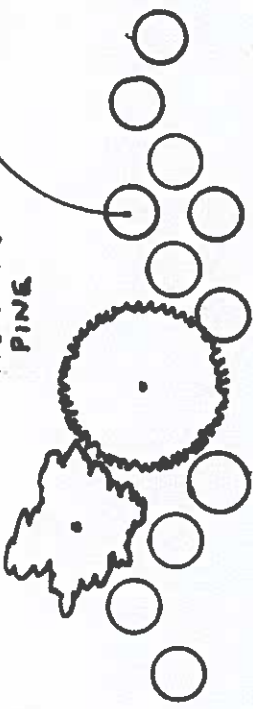
PIERSON GARDEN AND LANDSCAPE
 "CUSTOM LANDSCAPE HAPPINESS!"

DAVID PIERSON • PHONE: (612) 251-9910

ORNAMENTAL GRASSES

SUMAC

COMPACT COLUMNAR PINE



ORNAMENTAL TREE X

FULL SHADE

PARTIAL SHADE

FULL SUN

BRICK OR STONE BORDER

(ORANGE) OVERFLOW LEVEL (ESTIMATED DEPTH OF 3-6" MAX)

(RED) OCCASIONAL STANDING WATER, INFILTRATION ZONE

TURF GRASS

SHORT BURN, PLANT COVERED

CURBING

(W)

PRIMARY SOURCE RAINWATER RUNOFF

SECONDARY SOURCE OF RAINWATER RUNOFF (MINIMAL)

MESIC/DRY PARTIAL SHADE RECOMMENDATIONS:

DRY SHADE RECOMMENDATIONS:

MESIC/RAINGARDEN RECOMMENDATIONS:

MESIC/DRY RECOMMENDATIONS:

- AQUILEGIA
- CAREX PENNSYLVANICA
- GERANIUM (MLO)
- POLYGONUM
- PHYSOSTEGIA
- UVULARIA

- ECHINACEA PURPUREA
- LIATRIS
- IRIS
- LOBELIA
- CORSOPIA

- ASCLEPIAS MILKWEED
- BUTTERFLY FLOWER
- BAPTISIA
- ASTER
- RUDBECKIA HIERTA
- MONARDA
- SCHIZACHYRIUM LITTLE BLUESTEM

NET/RAINGARDEN SHADE: GALIUM, IRIS (FLAG)

(E)

(R)

ATTACHMENT 3(b)
Location map2



Pierson Garden and Landscape

PO BOX 114
Victoria, MN 55368
612-251-9910



INVOICE

BILL TO

Renaee Larson
1033 Sunny Ridge Drive
Carver, MN 55315-9355

INVOICE # 1381

DATE 05/17/2020

DUE DATE 05/25/2020

TERMS Due upon
completion

Page 2: Materials delivered

Page 3: Locations of planted materials

Page 4: Plants that will be planted once received (late June)

Page 5: Detailed pricing break-down

Page 6: Pricing Invoice (Summary)



5500 Blaine Ave | Inver Grove Heights, MN 55076
651.450.1501 | gertens.com

#2 REVISED

PAGE NO 1



CUST NO: 106616	JOB NO: 000	PURCHASE ORDER: 1033 SUNNY RIDGE	REFERENCE: AM FRI 5/22	TERMS: NET 15TH	CLERK: 1580	DATE / TIME: 5/20/20 8:06
--------------------	----------------	-------------------------------------	---------------------------	--------------------	----------------	------------------------------

SOLD TO:
PIERSON GARDEN & LANDSCAPES
9810 CO RD 43

CHASKA MN 55318
612-251-9910

SHIP TO:
DAVID - 612.251.9910
1033 SUNNY RIDGE DRIVE

CARVER MN 55315

DEL DATE: 5/22/20
TERMINAL: 419
SALESPERSON: AC ANGELA CESAR
TAX: CRV CARVER COUNTY

ORDER: 379185/6

LINE	SHIPPED	ORDERED	UM	SKU	DESCRIPTION	LOCATION	UNITS	PF
1					SHADE			
2		4	EA	NR0240	AQUIL CANADENSIS 3.5"/18T		4	
3		1	EA	NR3310	CAREX PEN COMMONOAKSEEDGE3.5"/18T	E20	1	
4		3	EA	NR2555	SOLID SPE SHOWYGOLDENROD3.5"/18T	E26	3	
5		4	EA	NR0305	ASCLE INC SWAMPMILKWEED 3.5"/18T	E20	4	
6		4	EA	NR0355	ASCLE TUB BUTTERFLYWEED 3.5"/18T		4	
7		3	EA	NR0705	BAPTI AUS BLUEFALSEINDIG3.5"/18T		3	
8		2	EA	NR0555	ASTER NOV ANG NEWENGLAND3.5"/18T	E20	2	
9		6	EA	NR1175	ECHIN PURPUREA 3.5"/18 TRAY	E25	6	
11		2	EA	NR1655	LIATR LIG MEADOWBLAZINGS3.5"/18T		2	
12					N/A TILL LATE MAY '20			
13		1	EA	NR1605	LIATR ASP ROUGHBLAZINGST3.5"/18T	E25	1	
14		6	EA	NR2135	RUDBE FULGIDA 3.5"/18T	E20	6	
15		2	EA	NR2605	TRADE OHI OHIOSPIDER3.5"/18T		2	
16		2	EA	NR2800	ZIZIA AUR GOLDEN ALEX 3.5"/18T		2	
17		2	EA	NR1555	IRIS VER BLUE FLAG IRIS 3.5"/18T	E20	2	
18		2	EA	NR2005	PENST DIG SMOOTH 3.5"/18T		2	
19		1	EA	NR4055	SPORO HET PRAIRIEDROPS3.5"/18T	E25	1	
20						E54		
21					HOUSE	E54		
22		2	EA	NR4055	SPORO HET PRAIRIEDROPS3.5"/18T	E25	2	
23		1	EA	NR0705	BAPTI AUS BLUEFALSEINDIG3.5"/18T		1	
24		1	EA	E2141	PINUS MUGO COLUMNARIS #15/3'		1	
25		1	EA	S2290	RHUS TYP TIGER EYE SUMAC #2 FE1.	S13	1	
26		30	EA	G0080	CALAM ACU KARL FOERSTER #1	E44	30	
27					PLANT 12 @ SUNNY RIDGE	S9		
28					HOWIE	S9		
29		2	EA	T1187.7	BETULA POP WHITESPIRE #25 TF	S9	2	
30					LOW INVENTORY	S9		
31					MAY SUB #15TF	S9		
32						S9		
33						S9		
34		1	EA	55315W	55315 ZIPCODE DELIVERY		1	

SUNNY RIDGE

LEAVE ROOM

YELLOW HIGHLIGHTS ARE FOR LARSON, SUNNY RIDGE

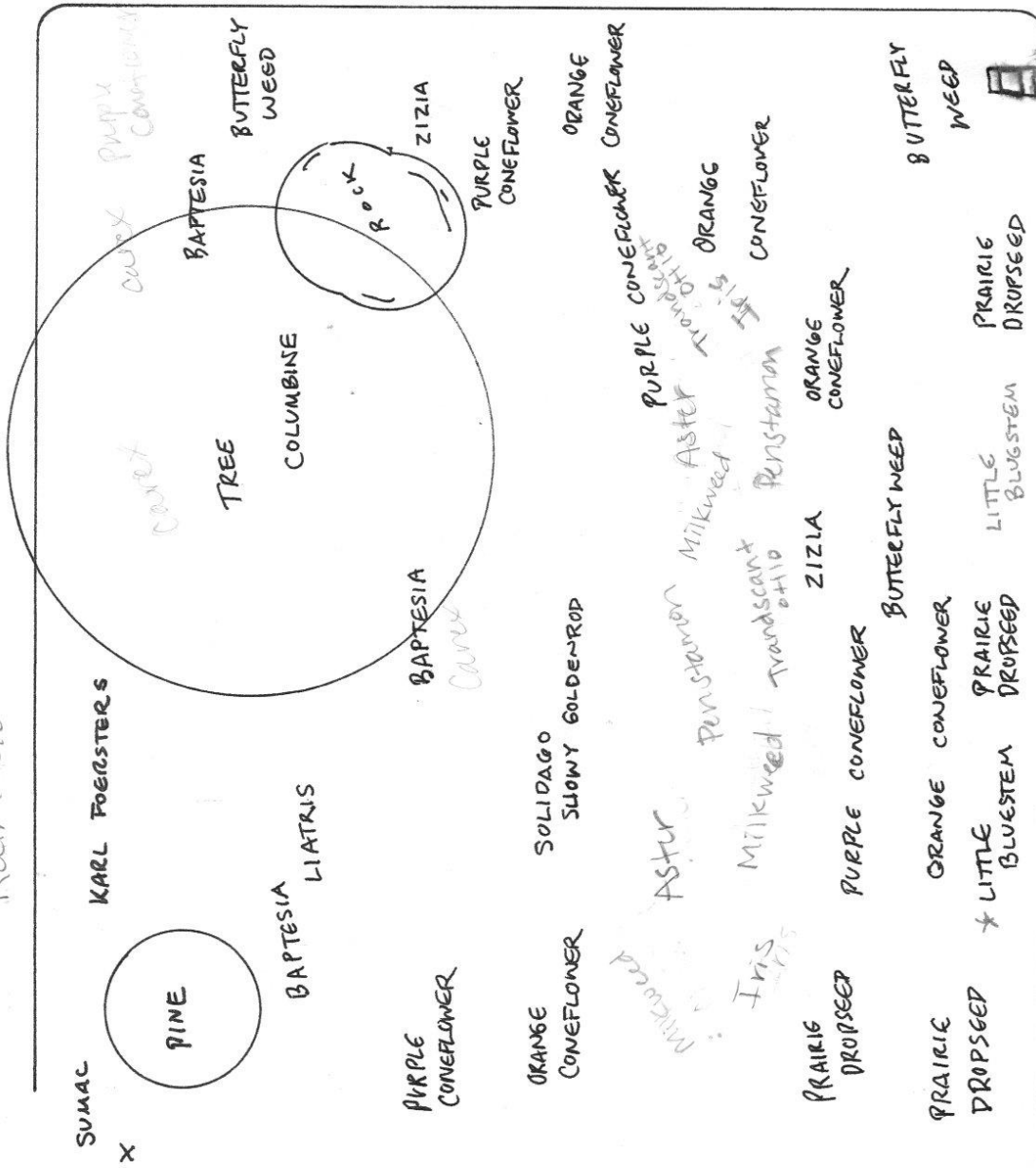
ALL OTHERS GO TO DAVES

Continued...

o 1 Columbine too many
o missing 1 _____?



Rain Garden



Remaining plant materials on page 4 are not yet included in the sketch above.

- Missing
- 18 Liatris 'Meadow'
 - 10 Virginia Bluebell
 - 10 Trillium
 - 1 Lady In Red
 - 18 Marsh Marigold
 - 36 Little Bluestem

Grower expects
product to be
available 6/30/20.
Install will be done
when available

1 flat
went
to Dale

1 flat
was
a
mishap

Pricing for above plant material and labor already included in totals on Invoice.

Total plant materials including state and local tax:	\$2,300.60*
Total non-taxable labor:	<u>\$1,829.52**</u>
Total new landscape improvement (First line on Invoice, pg 6)	\$4,130.12

*Price of all plants = $\$2,300.60 / 850$ plants = approximately \$2.71 per plant

**Price of installation labor = $\$1,829.52 / 850$ plants = approximately \$2.15 per plant

Total price of mulch (8 cubic yards) including tax:	\$413.01
Delivery of mulch:	\$100.00
Installation of mulch:	<u>\$400.00</u>
Total New Hardwood mulch as part of initial landscape construction:	\$913.01

Pierson Garden and Landscape
PO BOX 114
Victoria, MN 55368
612-251-9910



INVOICE

BILL TO

Renaee Larson
1033 Sunny Rldge Drive
Carver, MN 55315-9355

INVOICE # 1381

DATE 05/17/2020

DUE DATE 05/25/2020

TERMS Due upon
completion

ACTIVITY	QTY	RATE	AMOUNT
Non-taxable Services:Landscape Improvement Installation Initial landscape construction to improve real property. Native plant materials including installation and bulk delivery	1	4,130.12	4,130.12
Non-taxable Services:Offsite haul away and disposal Offsite haul-away and disposal per trailer, NO ADDITIONAL CHARGE	0	98.00	0.00
Non-taxable Services:Landscape Improvement Installation Initial landscape construction to improve real property. New hardwood mulch including installation and bulk delivery	1	913.01	913.01
Non-taxable Services:Landscape Improvement Installation Initial landscape construction to improve real property. Grading.	1	835.00	835.00
		PAYMENT	587.00
		BALANCE DUE	\$5,291.13

Paid in full.



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, June 17, 2020

Agenda Item

Item 6. D. - Dredge Management

Prepared By

Linda Loomis, Administrator

Summary

i. **Vernon Avenue Dredge Material Management site**

It was reported at the last meeting that LMRWD staff had met with the terminal operators to discuss the construction planned for the site this fall. The terminal operators asked for the LMRWD to give them a date certain by which material must be removed. Technical staff recommended that in order for restoration to become established after construction that material must be removed by September 15th. That date was sent to the terminal operators on June 3. I have not received any comment or questions since sending that communication.

LS Marine was also informed and LMRWD staff will communicate with the USACE to coordinate dredging of the main channel with the planned construction.

ii. **Private Dredge Material Placement**

Private barge slips have been dredged and material has been placed on the LMRWD site to dewater. The private material will be hauled away this year by the same individual that took material last year.

Attachments

No attachments

Recommended Action

No action recommended



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, June 17, 2020

Agenda Item

Item 6. E. - Watershed Management Plan

Prepared By

Linda Loomis, Administrator

Summary

The Bloomington City Council approved amending the City's official controls to conform to the LMRWD Plan at its June 1st City Council meeting. I attended the meeting and answered questions posed by the City Council. The District has also received proposed changes official controls from the city of Chanhassen. Staff has reviewed the amendments from Chanhassen and provided comments to the City.

We also received an inquiry from the City of Carver as to what was needed in order to get the municipal permit.

Attachments

No attachments

Recommended Action

No action recommended



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, June 17, 2020

Agenda Item

Item 6. F. -2020 Legislative Action

Prepared By

Linda Loomis, Administrator

Summary

Lisa Frenette, lobbyist for the LMRWD, has remained in touch with Senator Ingebritsen, chair of the Senate Environment and Natural Resource Committee and Representative Hansen, chair of the House Environment and Natural Resources Committee. She is hoping that the language we requested is included in whatever may get passed in the special session that started June 12th.

Ms. Frenette and I also discussed LMRWD funding with Kevin Bigalke of BWSR. Mr. Bigalke didn't think that funding for the LMRWD would be impacted by any the cuts proposed, since the funding the District receives is considered base funding. He believes that cuts will come from new spending that has proposed. We also talked about the suggestion that BWSR made regarding using the funding the LMRWD receives to stabilize sediment sources. We asked Mr. Bigalke making that shift would work and what a program like that would look like. He said he hadn't given any thought to that.

If there are any updates to report, Ms. Frenette will likely provide the District with any relevant information.

Attachments

No attachments

Recommended Action

No action recommended



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, June 17, 2020

Agenda Item

Item 6. I. -Project Reviews

Prepared By

Linda Loomis, Administrator

Summary

i. **Prairie Heights, Eden Prairie**

This is a new application. Norton Homes is planning a residential subdivision in Eden Prairie that falls partly in the LMRWD and partly in the RPBCWD. Eden Prairie does not have an approved Municipal Permit with the District. The applicant therefore needs to receive a permit from the District prior to construction.

LMRWD staff has reviewed the plans and shared comments with RPBCWD, the City of Eden Prairie and Norton Homes. A copy of LMRWD comments is attached. Staff requests Board approval of the permit.

ii. **565 Lakota Lane, Chanhassen, variance request**

Staff is still waiting to hear from the city on this project. The Board may remember at the last meeting this project was discussed. It is a request for a variance from the city's ordinances. The LMRWD agrees with providing a variance from the city code. The concern the LMRWD has is the location of the septic tanks in relation to the steep slope on the property.

iii. **Structures, Inc., Chaska**

The owner of this project has withdrawn the project from consideration

Attachments

Prairie Heights Preliminary review dated June 11, 2020

Recommended Action

Motion to approve permit 2020-103, Prairie Heights, Norton Homes developer, with conditions listed in preliminary review.

Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District

From: Katy Thompson, PE, CFM
Della Schall Young, CPESC, PMP

Date: June 11, 2020

Re: Prairie Heights Preliminary Review (Permit No. 2020-103)

Norton Homes has applied for an Individual Project Permit with the Lower Minnesota River Watershed District (District or LMRWD) for Prairie Heights, a 24-lot, single-family home subdivision in Eden Prairie, Minnesota. The proposed project is not in the High Value Resource Area overlay district or in the Steep Slope overlay district. The applicant has also applied for a preliminary plat approval from the City of Eden Prairie and provided these documents to the District for review.

The Prairie Heights project spans the boundary between the District and the Riley-Purgatory-Bluff Creek Watershed District (RPBCWD). The extension of Surrey Street and construction of six single-family homes comprise the extent of the proposed improvements within the District. The portion of the Prairie Heights project within the District flows into RPBCWD under both existing and proposed conditions, and all proposed stormwater best management practices (BMPs) are located within the RPBCWD boundary ([Figure 1](#)).

Summary

<u>Project Name:</u>	Prairie Heights
<u>Purpose:</u>	Construction of a 24-lot, single-family, detached home subdivision by Norton Homes
<u>Project Size:</u>	10.71 acres platted, 9.63 acres of disturbance (2.48

acres in the District), 0.38 acres of existing impervious, and 2.78 acres of new impervious surface (1.1 acres in the District)

Location: Southwest of Pioneer Trail and Yorkshire Lane, Eden Prairie, MN (Parcel IDs 2711622140035 and 2611622230005)

Applicable LMRWD Rules: Rule B—Erosion and Sediment Control
Rule D—Stormwater Management

Recommended Board Action: Conditional approval, pending approval by RPBCWD

Discussion

Norton Homes is proposing to construct a new subdivision comprising 24 single-family detached home lots southwest of the intersection of Pioneer Trail and Yorkshire Lane in Eden Prairie, Minnesota (Hennepin County Parcel IDs: 2711622140035 in LMRWD and 2611622230005 in RPBCWD). The District was provided with the following documents for review:

- Storm Water Management Plan for Prairie Heights Preliminary Plat, dated May 18, 2020, by Alliant Engineering, Inc.
- Preliminary Plat Plans, dated May 18, 2020, by Alliant Engineering, Inc.

The proposed project is located in the City of Eden Prairie and would normally be subject to municipal review; however, the City of Eden Prairie does not have an approved Municipal Permit with the District, and as such, the applicant must receive a District permit prior to construction.

Rule B—Erosion and Sediment Control

The District regulates land-disturbing activities that affect one acre or more outside the High Value Resource Area Overlay District under Rule B. The proposed project disturbs a total of 9.63 acres, which includes 2.48 acres and approximately 1 acre of new impervious surfaces within the District boundary. Norton Homes has provided a preliminary erosion and sediment control plan and a Stormwater Pollution Prevention Plan with the preliminary plat submittal. The Storm Water Management Plan states that there will not be a homeowners association. The applicant may need to enter into a stormwater maintenance agreement with the City of Eden Prairie and/or the RPBCWD to ensure proper long-term maintenance of the proposed stormwater facilities.

Rule D—Stormwater Management

The District requires stormwater management for projects that propose to create more than one acre of new impervious surface. Although the project is proposing approximately 1.1 acres of impervious area within the District boundaries, it will be treated in stormwater basins located with the RPBCWD.

Rate Control

Section 4.4.1 of Rule D requires that applicants demonstrate no increase in proposed runoff rates when compared to existing conditions. Although the proposed impervious within the District is treated outside the District limits in Basin A, the rate control requirement for the proposed development is met. A summary of the provided results appears in **Table 1** below.

Table 1. Prairie Heights West Outlet (Basin A) Rate Control Summary

EVENT	EXISTING (CFS)	PROPOSED (CFS)	Δ (CFS)
2-YR 24-HR	3.52	2.39	-1.13
10-YR 24-HR	10.49	10.04	-0.45
100-YR 24-HR	31.5	22.75	-8.75
100-YR 10-DAY (SNOW)	7.5	5.6	-1.9

Volume Reduction

Section 4.4.2 of Rule D requires volume reduction for post-construction stormwater runoff volume for projects that create more than one acre of impervious surface. Based on the Storm Water Management Plan provided, Norton Homes proposes to excavate in situ soils and backfill with amended soils due to clay soils and filtrate rather than infiltrate to meet the volume reduction/abstraction credit for the District and RPBCWD. The applicant is proposing to filter the stormwater runoff in excess of the 1.1-inch requirement imposed by RPBCWD.

Water Quality

Section 4.4.3 of Rule D requires projects that create more than one acre of impervious surface to provide evidence that no net increase in total phosphorus (TP) or total suspended solids (TSS) in the receiving waters will result from the project.

The applicant has provided P8 modeling to demonstrate an overall reduction in TP and TSS, exceeding the District requirements.

Recommendations

Although the project is located in both the Lower Minnesota River Watershed District and RPBCWD, the applicant has proposed a design that attempts to meet both districts' requirements. From our review of the preliminary plat submittal, the project as presented meets the Lower Minnesota River Watershed District criteria for both Rules B and D. We recommend it be conditionally approved, pending the following:

- Approval of the project by the Riley-Purgatory-Bluff Creek Watershed District
- Revision of the narrative and a final review of final plans should changes be made at the request of the Riley-Purgatory-Bluff Creek Watershed District
- Submission of a copy of the NPDES permit
- Submission of a copy of the final RPBCWD permit and executed maintenance agreement with the RPBCWD permit

Attachments:

Figure 1. Proposed Prairie Heights Project Location Map

LMRWD Permit Review Checklist








LOWER MINNESOTA RIVER
WATERSHED DISTRICT

Figure 1: Prairie Heights Preliminary Review Eden Prairie, MN 09-June-2020



LEGEND

-  LMRWD Boundary
-  Proposed Project Area
-  Proposed Impervious
-  Proposed Stormwater Basins
-  Hennepin Co. Parcels
-  Hennepin Co. Floodplain
-  100-yr Floodplain
-  Floodway
-  500-yr Floodplain
-  Calcareous Fen Locations
-  HVRA Overlay District
-  Steep Slopes Overlay District



Young Environmental Consulting
Group, LLC



LOWER MINNESOTA RIVER WATERSHED DISTRICT PROJECT REVIEW

Project ID	2020_0103	Authorization Agent	Patrick Hiller
Project Name	Prairie Heights Development	Email Address	path@nortonhomes.com
Organization	Norton Homes	Phone Number	7635592991
Notes	5/27/2020 - Rcvd application		

Project Summary

Anticipated start date	7/13/2020	Date received	5/27/2020
Project location	12701 Pioneer Tr	Project map included?	<input checked="" type="checkbox"/>
Project acres	9.63	Is the project in an unincorporated area?	<input type="checkbox"/>
Total disturbed acres	9.63	Is it located in a High Value Resource Area	<input type="checkbox"/>
New impervious acres	2.78	Is it located in a Steep Slope Overlay Distric	<input type="checkbox"/>
Local Partners	n/a	Other Sensitive Area	Th proposed project straddles the LMRWD and Riley-Purgatory-Bluff Creek Watershed District boundary

Project Description

Norton Homes is proposing a 24-lot single family, detached villa home development in Eden Prairie, MN

Additional Notes

Review Status

- Is this a preliminary review?
- Is this a permit review?
- Does this project require a technical review?

Project Status

- Project is pending
- Project is active
- Project has been archived

Erosion and Sediment Control

This project triggers one or more thresholds for this rule.

<u>Triggers</u>		<u>Criteria</u>	
Disturbs one acre plus	<input checked="" type="checkbox"/>	Erosion and Sediment Control Plan	<input checked="" type="checkbox"/>
Located within the HVRA Overlay District	<input type="checkbox"/>	Inspection and maintenance addressed	<input type="checkbox"/>
Meets the HVRA threshold	<input type="checkbox"/>	NPDES/SDS General Construction Permit documentation	<input type="checkbox"/>

The documentation requirements for this rule have not been met. A review cannot be completed until all required documentation has been submitted.

Additional Notes

6/8/20 - Prelim SWPPP and ESC provided

Floodplain Drainage Alteration

This rule does not apply.

<u>Triggers</u>			
Changes in water surface elevation of floodplain	<input type="checkbox"/>	Calculations by a professional engineer demonstrating no decrease to conveyance	<input type="checkbox"/>
<i>If yes,</i> Compensatory storage equal or greater than volume of fill	<input type="checkbox"/>	Conveyance capacity decrease below 100yr high water elevation	<input type="checkbox"/>
<i>If no,</i> No-rise certification by a professional engineer	<input type="checkbox"/>	Temporary placement of fill	<input type="checkbox"/>
<u>Criteria</u>		Adverse impacts to water quality, habitat, or fisheries	<input type="checkbox"/>
Net decrease of storage capacity OR increase in 100yr elevation	<input type="checkbox"/>	New structures have 2ft+ between lowest enclosed area's floor and 100yr high water elevation	<input type="checkbox"/>
Will floodplain storage be created	<input type="checkbox"/>		

Additional Notes

Stormwater Management

This project triggers one or more thresholds for this rule.

Type of project Development

Triggers

One acre or more of impervious surface

Are trout streams protected

HVRA Overlay District

Located within the HVRA Overlay District

Rate control exceeded for 1, 2, 10, and 100yr 24-hour event

If yes, Meets the HVRA threshold

Projects with 1+ acres of new impervious: are MPCA's Construction General Permit

Criteria

Post-construction runoff rates exceed existing rates for 1, 2, 10, and 100yr 24-hour events?

Net increase of TP

Net increase of TSS

New Development: the post-construction runoff volume retained onsite equal 1.1 inches of runoff from impervious surfaces

Is maintenance adequately addressed

Redevelopment: the project will capture and retain onsite 1.1 inches from new/fully reconstructed impervious surface

Project will result in a net decrease of TP and TSS

Linear: the site will capture and retain (a) 0.55 inches of runoff from new/fully reconstructed impervious, or (b) 1.1 inches of runoff from the net increase in impervious area

Volume control requirements sufficiently addressed

The documentation requirements for this rule have not been met. A review cannot be completed until all required documentation has been submitted.

Alternative Infiltration Measures

Infiltration not possible at all basins due to poor soils, filtering stormwater per RPBCWD standards instead.

Additional Notes

6/10/20 - Stormwater runoff to be treated by three infiltration basins located within RPBCWD.

Steep Slopes

This rule does not apply.

Triggers

Is the project in the Steep Slopes Overlay District

Excavation of 50 cubic yards+ of earth

Displacement of 5,000 sq. ft+ of earth

Vegetation removal or displacement

Activities that require LGU permits

Criteria

Has the project been certified by a professional engineer

Adverse impact to waterbodies

Unstable slope conditions

Degradation of water quality

Preservation of existing hydrology

New discharge points along slope

Additional Notes