

June 2019 Administrator report From: Linda Loomis, Administrator To: LMRWD Board of Managers

In addition to items on the meeting agenda, work continues on the following District projects and issues:

Other Work

MN River Congress

The 12th Minnesota River Congress was held in St. Peter on May 16, 2019. This Congress was very well attended. Karen Gran was the features speaker. Karen is from the University of Minnesota Duluth and has studied the LeSueur River in great detail. She worked with the group that developed the Collaborative Sediment Source Reduction Strategy.

Two representatives from Minnesota Association of Soil & Water Conservation Districts (MASWCD) Area 5 and 6 spoke about each region's intention to make water storage a priority. Area 5 includes Lac Qui Parle, Yellow Medicine, Lincoln, Lyon, Redwood, Pipestone, Murray, Cottonwood, Rock, Nobles and Jackson counties. Area 6 includes Renville, McLeod, Sibley, Nicollet, LeSueur, Brown, Blue Earth, Watonwan, Waseca, Martin and Faribault Counties. Scott Sparlin plans to seek legislation to get State funding to pay for the creation of upland storage.

Bloomington Public Works Open House

The Bloomington Public Works Open House was held Saturday, May 18th from 9:00am to 12:00 noon. It was very well attended; lots of families with young children. I was able to speak to lots of people. The majority of comments were regarding the MN Valley State Trail that is being proposed by the DNR. Everyone that I spoke to about the trail was opposed to spending money on the trail, particularly paving the trail, since the area is so often under water.

Dakota County Ground Water Plan

Dakota County invited the LMRWD to participate in the development of its County Groundwater Plan. I attended one of several meeting the County held to gather input from stakeholders.

Scott County Emergency Management Plan

Scott County held a second meeting with stakeholders to update its emergency management plan. With the flooding this year, high water was a big topic of discussion. It was mentioned by several of the police chiefs that they see tile drainage as a significant part of the problem. Slope failure was also mentioned by more than one member of the group.

MN River Tour with Savage Chamber of Commerce

Upper River Services is not able to commit to provide a barge for a River Tour this summer because of the impact of flooding on navigation. The Savage Chamber has given me several dates in August. We will make arrangements with either the Padelford Packer Boat Company or the Magnolia Blossom.

Watershed Plan Projects

Eden Prairie Area #3 Stabilization: See Item 4.D. on the June agenda.

http://lowermnriverwd.org/projects/east-chaska-creek-bank-stabilization

Riley Creek Cooperative project/Lower Riley Creek restoration - See Item 6. G. i. on the Jne agenda. Project website: http://www.rpbcwd.org/whats-happening/projects/lower-riley-creek-ecological-restoration

Seminary Fen ravine stabilization project: The city of Chaska has been notified that BWSR declined payment of the second half of the grant. The LMRWD and the city are discussing options. Redpath and Company is not comfortable issuing an audit statement for the LMRWD until there is certainty as to how the shortfall in this project, because of the denial of the second half of the grant, will be addressed. Project website: http://lowermnriverwd.org/projects/bwsr-clean-water-fund-grant-administration

East Chaska Creek: (Carver County Watershed Based Funding): Engineering staff is working on the wetland delineation and the 60% design. Once the 60% design is complete LMRWD will meet with the city to share the design plan and get its feedback. Project website:

Schroeder Acres Park (Scott County Watershed Based Funding): This project has not begun and staff developing a cooperative agreement between the city and the LMRWD. Project website: http://lowermnriverwd.org/projects/schroeder-acres-parkeagle-creek-sub-watershed-stormwater-study

Shakopee Downtown BMO Retrofit (Scott County Watershed Based Funding): This project has not begun and staff developing a cooperative agreement between the city and the LMRWD. Project website: http://lowermnriverwd.org/projects/targeted-bmps-downtown-shakopee

PLOC (Prior Lake Outlet Channel) Restoration (Scott County Watershed Based Funding): This project has not begun and staff developing a cooperative agreement between the city and the LMRWD. Project website: http://lowermnriverwd.org/projects/prior-lake-outlet-channel-realignmentwetland-restoration

Dakota County Fen Gap Analysis and Conceptual Model (Dakota County Watershed Based Funding): Staff has received a preliminary cost to prepare/update relevés for the fens. The costs were higher than expected so LMRWD engineering consultant, Barr, was asked for a more detailed cost estimate. Staff has asked the DNR if any mitigation money remains for fen projects. The DNR indicated that money is available and they will consider the LMRWD' request to contribute to the preparation of the relevés. A report o the gap analysis is expected to be ready in mid-July. Project website: http://lowermnriverwd.org/projects/dakota-county-fen-study-management-plan

Hennepin County Chloride Project (Hennepin County Watershed Based Funding): An update on the county wide chloride project is attached. The Minnesota River WMOs in Hennepin County have met and plan to have a plan put together by fall, to make funds available to property managers and winter maintenance companies to assist with upgrading equipment. The City of Bloomington sent two city employees to a national training conference and the report they provided regarding the use of chloride for winter de-icing is attached.

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Vegetation Management Plan: This project is currently on hold while staff works on other projects.

Sustainable Lake Management Plan - Trout Lakes: This project is currently on hold while staff works on other projects.

Geomorphic Assessment of Trout Streams: Interns have been trained and their work is being overseen by Professor Magner and Della Young. The interns conducted reconnaissance of the creek and several of them are flooded. The LMRWD received a permit from US Fish and Wildlife Service for the interns to access Ike's Creek. Data and cross sections have been collected on parts of the Eagle Creek sub-watershed, Assumption Creek and work has begun on Ike's Creek.

Spring Creek Cost Share: Staff is hoping to conduct a field inspection in the next couple of weeks.

West Chaska Creek Re-meander: No new information to report on this project since the last update.

Project Reviews

City of Carver - Levee rehabilitation - The LMRWD was notified by an engineering consultant for the City of Carver (WSB) that the City is planning to improve the Levee that protects the City from the Minnesota River. WSB indicated that the City is looking for financial partners to share in the cost of the project. WSB is planning to schedule a meeting to discuss the project with the LMRWD.

City of Carver - Jonathan Parkway upgrades - Carver County is planning upgrades to Jonathan Parkway through the City of Carver. LMRWD staff met with the consulting engineer for the city, Josh Stier, of Bolton & Menk. This project will create more impervious surface, which will be directed to Spring Creek. Staff has indicated that the LMRWD is concerned with rate control because of erosion issues downstream. On May 17th, a subsequent meeting was held with the County. LMRWD was unable to attend that meeting and the District has not received any follow-up yet.

City of Burnsville - CenterPoint Energy Training Facility - application for a Conditional Use Permit Amendment for a training facility to be located at 11500 12th Ave S, Burnsville, MN 55337. This parcel is in a High Value Resource Area, so the LMRWD asked the applicant to explain how they intend to meet the LMRWD standards. It was determined that this project will fall below the thresholds of the standards (less than 5,000 square disturbed or less than 50 CY of material moved), so the project does not require any more review

City of Burnsville -5337 Properties, LLC - This project is an application for rezoning from B-4, Highway Commercial to B-4/PUD, Highway Commercial/Planned Unit Development, an Interim Use Permit to allow vehicles to be parked on an unpaved surface and Concept Stage Planned Unit Development for the future phased development including future office warehouse building fronting on 126th Street, addition to the Park-Chrysler-Jeep building, site and parking lot improvements and future two lot plat for the seven parcels located at 1408 Highway 13 West. Staff reviewed this project and not enough information was provided for the LMRWD to determine if the proposal met LMRWD standards or not. The proponent was asked to provide information as to how they intend to address the LMRWD standards. Portions of this property are in the LMRWD steep slope overlay zone.

City of Burnsville - Freedom Enterprises, LLC - 2000 Hwy 13 Frontage North, J & F Motors - This project is a request to amend to the Conditional Use Permit. The proponent is requesting to remove a condition that a second building be constructed, as the building is not necessary.

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City of Burnsville - Industrial Equities - 250 River Ridge Circle North: No new information to report since last update.

City of Burnsville - United Properties - 12400 Dupont Avenue North: No new information to report since last update.

CenterPoint Energy - sign replacement: No new information to report since last update.

City of Burnsville - Kraemer Mining: No new information to report since last update.

Dakota County - MN River Greenway: No new information to report since last update. Project website: https://www.co.dakota.mn.us/parks/About/TrailPlanning/Pages/minnesota-river.aspx

City of Shakopee - Jackson Township AUAR: No new information to report since last update.

City of Burnsville - CenterPoint Energy Lyndale Valve Replacement Project: No new information to report since last update.

City of Eden Prairie - C. H. Robinson: No new information to report since last update.

City of Burnsville - Burnsville Sanitary Landfill: No new information to report since last update.

City of Eden Prairie - Peterson Wetland Bank: No new information to report since last update.

City of Chanhassen - TH 101 Improvements: LMRWD staff has been told that wetland delineation work is complete and project consultants are planning to schedule a meeting with the watershed districts. LMRWD staff conducted a field visit to a ravine adjacent to the proposed roadway. LMRWD staff is concerned with erosion of the ravine, since the proposed project will direct stormwater to this ravine. LMRWD staff noted there is already significant water flow in this ravine. Project website: https://www.highway101improvements.com/

City of Savage - 12113 Lynn Avenue: No new information to report since last update.

Cities of Richfield/Bloomington - TH 77 & 77th Street underpass: No new information to report since last update.

MNDOT - 1494 Brush removal: No new information to report since last update.

MNDOT - TH 5 Signage projects: No new information to report since last update.

MPCA - MN River TSS TMDL: No new information to report since last update.

City of Bloomington - MN Valley State Trail: No new information to report since last update. Project website: https://www.dnr.state.mn.us/state_trails/minnesota_valley/plans.html

Hennepin County - CSAH 61/Flying Cloud Drive: LMRWD staff conducted inspections of the project May 23rd, May 31st and June 13th. The June 13th inspection report is attached for the Board's information. In addition, Gerry Shimek of US Fish & Wildlife Service was out and inspected the site on June 6th. The LMRWD has been sharing its reports with USFWS and the City of Eden Prairie.

MNDOT - I494/TH 5/TH 55 Mill & Overlay project: No new information to report since last update. Project website: https://www.dot.state.mn.us/metro/projects/i494invergroveheights/

MNDOT - I35W Bridge Replacement: No new information to report since last update. Project website: https://www.dot.state.mn.us/metro/projects/i35wbloomington/index.html

MNDOT - I494 from TH169 to Minnesota River: MNDoT has scheduled a meeting with the LMRWD for June 25th.

Scott County - TH 41/169/78 Interchange: No new information to report since last update. Project websitehttps://www.scottcountymn.gov/1778/Highways-1694178-
Interchange?PREVIEW=YES&PREVIEW=YES&PREVIEW=YES&PREVIEW=YES

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City of Shakopee - Amazon Fulfillment Center drainage: Since the last report, staff has conducted a field visit to the site. The preferred solution to divert stormwater from the Amazon Fulfillment Center away from Native American Burial Mounds is to direct water along the TH 101 Right of Way east to a ravine that flows to the Minnesota River. The ravine is as the east end of Three River Park's Murphy Landing. The field inspection indicated that the ravine has some head-cutting and channel obstructions. Consulting engineer, Barr, is preparing an estimate of the cost to stabilize the ravine channel and repair the head-cutting and stabilize the channel to eliminate future head-cutting.

MAC/LMRWD/MCWD boundary realignment: No new information to report since last update.

Fort Snelling - Dominion Housing: Staff is reviewing the most recent report received on this project. The LMRWD has not received a maintenance plan for the stormwater management features planned to mitigate the increase in impervious surfaces proposed for this project.

USACOE/USFWS - Bass Ponds, Marsh & Wetland: The comment period for the EAW ended on May 29th. LMRWD staff has not received any update on this project since the close of the EAW comment period. Project website: https://www.scottcountymn.gov/1865/Bass-Ponds-EAW

Upcoming meetings/events

- Upper Mississippi River Waterway Association Thursday, June 20, 2019, 11:30am Lilydale Pool
 Yacht Club
- o MAWD Summer Tour June 26 through June 28 Red River Valley
- Metro MAWD Tuesday, July, 16, 7:00pm Cap Region Watershed District, 595 Aldine Street, St. Paul



Hennepin County Chloride Update

Claire Bleser <cbleser@rpbcwd.org>

Thu, Jun 13, 2019 at 9:30 PM

To: "bscharenbroich@plymouthmn.gov" <bscharenbroich@plymouthmn.gov>, "naiadconsulting@gmail.com" <naiadconsulting@gmail.com>, Becky Christopher <bchristopher@minnehahacreek.org>, "laura.jester@keystonewaters.com" <laura.jester@keystonewaters.com>, Abby Moore <AMoore@mwmo.org>, "esniegowski@ninemilecreek.org" <esniegowski@ninemilecreek.org>, Amy Juntunen <Amy@jass.biz>, "ranhorn@ninemilecreek.org" <ranhorn@ninemilecreek.org>, Andrew Hogg <ahogg@ci.brooklyn-center.mn.us>, "Gruidl, Bryan (bgruidl@BloomingtonMN.gov)" <bgruidl@bloomingtonmn.gov>, Diane Spector <dspector@wenck.com>, Claire Bleser <cbleser@rpbcwd.org>, Leslie Yetka <lyetka@eminnetonka.com>

Cc: Karen Galles <Karen.Galles@hennepin.us>, Amelia Kreiter <kreit044@umn.edu>, "Asleson, Brooke (MPCA)"

*Connie Fortin <connie@fortinconsulting.com>, Sue Nissen <n.sue4408@gmail.com>

Hi Everyone!

This is a long overdue update of what is happening on this initiative.

The last few months have been quite busy over here and I wanted to reassure everyone that work is moving forward. As you might I have heard, Leslie Yetka with Freshwater Society has changed jobs and is now working with the City of Minnetonka. She will be still engaged in the project but as a partner. We welcome the City of Minnetonka as a new partner! Below are a few highlights that have been happening in the Chloride world and then specifically for the Hennepin County Chloride Initiative.

First the Chloride World!

The Minnesota Pollution Control Agency was able to secure funds to develop a Smart Salting Property Management Training. Nine Mile Creek WD and RPBCWD were able to sit on the advisory panel along with property managers and salt applicators. The first two pilot training went well and a wait list had to be created! RPBCWD volunteered to host a third training – please find details of the upcoming training below. We already have 15 people registered for this event, please feel free to advertise. If you are interested in hosting one of these, let me know.

Agency offering new course: Smart Salting for Property Managers

The MPCA is offering a new state certification course: Smart Salting for Property Managers, on July 24, from 9 a.m.-1 p.m., at the Riley Purgatory Bluff Creek Watershed District in Chanhassen.

The goal is to help property managers save money and protect water resources by using less salt to de-ice parking lots, sidewalks and other surfaces. The salt used in winter maintenance is having serious side effects on infrastructure, vegetation and lakes, streams and groundwater. Participants will learn strategies for achieving safe surfaces in the winter with less salt.

There is no fee for the training, but registration is required. Sign up online at EventBrite. For more information, contact Lauren Schulzetenberg of Fortin Consulting at 763-478-3606 orlauren@fortinconsulting.com.

Next Parking Lot and Roads Winter Training in the metro

Date and time	Location	Training type	Contact
7/17/19 9am	Riley Purgatory Bluff Creek Watershed District, Chanhassen (Register)	Parking lots and sidewalks	Maya Swope

Date and time	Location	Training type	Contact
8/23/19 8am	Shakopee	Parking lots and sidewalks Melissa	
9/12/19 8:30am			Paula Leopold
9/18/19 9am	9 9 Mile Creek offices, Eden Prairie Parking lots and sidewalks		Gael Zembal
9/24/19 8am	Mississippi Watershed Management Organization, Minneapolis (Register)	Parking lots and sidewalks	Lauren Schulzetenberg
9/26/19 8am	Prior Lake	Roads	Melissa Bokman
10/23/19 8am	Mississippi Watershed Management Organization, Minneapolis (Register)	Parking lots and sidewalks	Lauren Schulzetenberg
10/23/19 9am	Riley Purgatory Bluff Creek Watershed District, Chanhassen (Register)	Roads	Maya Swope

<u>Limited Liability Legislation</u> did not go through © This is one we are hearing from property managers and applicators would make a difference. Stay tune for 2020 next year – we need to consider in making this a priority and pushing this through our lobbying groups or legislature.

<u>Model Ordinances:</u> MPCA was able to work with an advisory board and TetraTech to develop model ordinances and policies. More to come later – stay tune on this initiative.

Hennepin County Chloride Initiative

Emily Kreiter, who is a graduate student from U of M will be conducting qualitative research on behalf of the partnership. The research will specifically target private applicators. We are planning to conduct the interviews this summer and we need your help. If you or your organization knows of businesses that we should consider interviewing please input them https://docs.google.com/a/umn.edu/spreadsheets/d/1ATnz9nH9mqlgwwrdg2Bg_rXqmUwZ4kD6L9e7Tuz17Tk/edit?usp=drive_web

We do have some of training attendance from our workshops but if you know some others that would be helpful.

These can be those who do or do not follow best management practices. We are finalizing the interview guide and will begin soon the interviews.

If you want to know more, please feel free to contact me. Hope field season is not too chaoti	If you want to know more,	please feel free to contact	t me. Hope field seaso	n is not too chaotic
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Cheers.

Claire

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Dr. Claire BleserDistrict Administrator PURGATORY
BLUFF CREEK
WATERSHED DISTRICT
WATERSHED DISTRICT
BISTRICT Administration
Riley-Purgatory-Bluff Creek Watershed District
18681 Lake Drive East, Chanhassen, MN 55317
cbleser@rpbcwd.org | 952-607-6512



Chloride Conversation

Gruidl, Bryan

bgruidl@bloomingtonmn.gov>

Fri, Jun 14, 2019 at 10:08 AM

To: "Claire Bleser (cbleser@rpbcwd.org)" <cbleser@rpbcwd.org>, Randy Anhorn <ranhorn@ninemilecreek.org>, "Linda Loomis (naiadconsulting@gmail.com)" <naiadconsulting@gmail.com>

I met with Maintenance staff yesterday to discuss the APWA Snow and Ice Conference, chloride management, and private applicators. Below is a summary of our conversation. Let me know if you have any questions. Thanks! ~Bryan

The theme from the APWA Snow and Ice Conference was the use of liquids. It appears that liquids are the future of salt management. Not that manufacturers aren't trying, but there wasn't much for new snow and ice management technologies that we haven't already seen in MN. One new technology that was displayed was a plow with a steel cutting edge followed by a rubber squeegee to push as much water off the road as possible. Additionally anti-icing was applied to the road through the rubber squeegee, immediately after the water is cleared from the road. This technology was for front mounted plows and at this point it didn't look like a good fit for undercarriage plows that are pretty common in MN. Other plow related improvements were geared towards safety and driver comfort.

As far as working with private applicators it seems that the push should be for more use of liquids. One of the challenges with this approach is that it requires a plowing contractor to visit the site before the storm event and then during/after the event to push the snow. So the contractor has a minimum of two trips to the site which will increase cost of the operation. Additionally there is the question about where private applicators obtain a brine solution. A quick internet search turned up liquid de-icing systems for pickup trucks ranging from \$3k-\$8k depending on the volume of the tank. Ultimately a contractor will do the work how the customer wants it done. The additional cost of using pre-wetting technologies and more mechanical removal will be passed on to the customer and they will need to be willing to pay for that service. If it's not already, perhaps the increased cost of using some of these chloride reducing technologies on private parking lots should be part of the education program for property owners/managers.

Overall private applicators keep their costs down by reducing the amount of trips they make to the site. Spreading excess salt on the parking lot reduces the number of trips a contractor needs to make to the site. Mechanical removal is hard on equipment and consumes large amounts of fuel, so leaving excess salt residue on the pavement or over salting is essentially a money saving technique to provide the same level of service without actually traveling to the site. Other challenges with private applicators are that most of them are using white salt, which works fine when temperatures are 15 degrees and above. Unfortunately when temperatures drop below that it takes a lot more white salt to melt the snow/ice. Once way to combat that is by adding calcium chloride or magnesium chloride which lowers the freezing point. Simply using treated salt (white salt enhanced with mag chloride) can reduce the volume of salt needed at lower temperatures.

Bryan Gruidl

Water Resources Manager | Engineering

City of Bloomington, Public Works 1700 West 98th Street | Bloomington, MN 55431 Direct 952-563-4557 bgruidl@bloomingtonMN.gov

Memorandum



DATE: June 13, 2019 (Email transmittal)

TO: Linda Loomis – Administrator, LMRWD

FROM: Della Schall Young, PMP, CPESC

SUBJECT: Stormwater Visit Summary

June 13, 2019, 5:24 a.m.–6:42 a.m. CSAH 61 – Flying Cloud Drive

Owner – Hennepin County and Contractor – Ames Construction

WEATHER: 60°F, clear, slight wind – per AccuWeather

SITE CONDITIONS/PHASE

Construction was active for road base pylons, retaining walls, bridge, erosion and sediment control, etc. The entire site was open and drivable.

PRESENT

Della Schall Young – Young Environmental Consulting Group Shane Soukup – Young Environmental Consulting Group

PURPOSE

To observe stormwater management/erosion control techniques being implemented by Ames Construction on the reconstruction of Flying Cloud Drive/County State Aide Highway (CSAH) 61 from Highway 101 to Charlson Road in the cities of Eden Prairie and Chanhassen and in Carver and Hennepin counties.

GENERAL NOTES/OBSERVATIONS

- Checked into the construction trailer; no one was around to discuss the project. Photographs were taken of the inspection log.
- Crews had not begun work during the site visit.
- Drove through the project area, beginning at the construction trailer, to Lyon's Tapp at Spring Road and Flying Cloud Drive.
- Pictures were taken of the different best management practices (BMPs) being used to prevent and/or minimize sediment and other construction material from reaching adjacent water resources (Rice Lake, Grass Lake, Riley Creek, and Minnesota River).
- Visible signs that BMPs have been applied and/or maintained. Generally, newly graded areas had been hydroseeded.
- Extensive use of plastic and rock as BMPs and that appeared generally effective when placed properly and maintained. When BMPs are damaged or no longer useful, they should be discarded and should not litter the site.

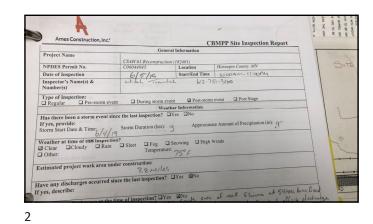
Memorandum (cont'd)

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RECOMMENDATIONS

- Continue monitoring the sediment-laden discharge passing through the site (photos #15 and #16).
- Pay additional attention to newly graded areas to make sure the proposed stabilization BMPs are effective.
- Consider additional BMPs adjacent to Riley Creek to address bank erosion (photo #43).
- Attend weekly project construction management meetings.
- Continue every other week visits to the project site.

	Date	Precipitation (in)	Rain Event (Y/N)
	4/17/19	.9 Ren	4
	4/22/19	,25 Ram	2
	4/30/19	,45" Zan	N
	3/2/19	.05" Ran	N
	5/3/19	, 75" Zam	N
	5/8/19	Zwi Ran	4
	5/15/19	"4" Ran	2
-	5/16/19	,55° Ram	7
	5/18/19	143" Ran	N
	5/19/19	97" 200	4



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