

RPBCWD Staff Report – July 2022

Administration	Description	Update	Partners
Accounting, Audit & Budget	Coordinate with Accountants for the development of financial reports. Coordinate with the Auditor. Continue to work with the Treasurer to maximize on fund investments.	Staff Bakkum compiled the monthly treasurer’s report. Administrator Jeffery, Staff Bakkum, and Engineer Sobiech continue to work on the 2023 budget and levy which will be presented again at the August meeting. The account with US Bank has been set up and is ready for the transfer of funds. The 4M account is also set up and will begin investing upon transfer of funds to the account. Administrator Jeffery is working with Manager Crafton, Staff Bakkum, Counselor Welch, and Jennifer Vuccinovich from US Bank to facilitate this.	
Administration	Administrator activities	Administrator Jeffery met with the Personnel Committee to discuss staff organization, duties, and compensation. Administrator Jeffery attended Metro-MAWD summer meeting. MPCA reported on watershed needs survey that should be coming out in late summer/early fall. Annual reviews were performed by Administrator Jeffery for Staff Mahon, Staff Dickhausen, and Staff Maxwell.	
Annual Report & Communication	Compile, finalize and submit an annual report to agencies.	No change	
DEI	Diversity, Equity, and Inclusion	No change.	
Human Resources	General Human Resources	No Change. Personnel Committee met July 29 th .	
Internal Policies	Work with Governance Manual and Personnel Committees to review bylaws and manuals as necessary.	Comments have been received from one CAC member and will be placed in the SharePoint folder to be shared with the Governance Committee.	
Advisory	Engage with the Technical Advisory Committee on water conservation, chloride management and emerging topics. Engage with the Citizen Advisory Committee on water conservation, annual budget, and emerging topics.	The CAC held a regular meeting on July 18 The next regular meeting of the CAC will be on Aug 15. Administrator Jeffery and Engineer Sobiech will be meeting with local road authorities to discuss possible changes to regulatory program and RPBCWD policy to allow for a more creative, cooperative, and holistic approach to stormwater management on linear projects. This meeting will be held on August 18, 2022. A subsequent meeting will be held with the entire TAC and Community Development staff at a date to be determined.	
Local SWMP		No changes.	

MAWD	Minnesota Association of Watershed Districts	The MAWD summer tour is scheduled for August 23-24 in Grand Forks, ND. The MAWD Annual Conference and Trade Show is scheduled for November 30, 2022 – December 3, 2022.	
District-Wide	Description	Update	Partners
Regulatory Program	Review regulatory program to maximize efficiency. Engage Technical Advisory Committee and Citizen Advisory Committee on possible rule changes. Implement a regulatory program.	Administrator Jeffery and Engineer Sobiech met with staff for the City of Chanhassen to discuss the Upper Riley Creek Project and potential improvements to the Chanhassen Public Works facility including a decant facility for street sweeping and vector truck waste. Administrator Jeffery spoke with Chanhassen Public Works about receiving a report on the amount of material removed via street sweeping. Administrator Jeffery attended a neighborhood meeting with Chanhassen City staff and city residents to hear their concerns about the Morrin Subdivision in Chanhassen. They were primarily concerned that the in-fill development of marginal land might have negative impacts on the surrounding properties. Administrator Jeffery encouraged them to get involved with the watershed district.	
Aquatic Invasive Species (AIS)	Review AIS monitoring program. Develop and implement Rapid Response Plan as appropriate. Coordinate with LGUs and keep stakeholders aware of AIS management activities. Manage and maintain the aeration system on Rice Marsh Lake. Riley Chain of Lakes Carp Management. Purgatory Chain of Lakes Carp Management. Review AIS inspection program. Keep abreast of technology and research in AIS. Zebra mussel adult and veliger monitoring.	Staff have been checking/cleaning the barrier one to two times per week. No removal events have occurred since the spring spawning run. Regular carp monitoring activities will begin at the end of July. Lake Susan Park Pond and Lucy were electrofished with only a few carp captured. Carp sampling will increase during August including the start of small mesh fyke netting. Zebra mussel veliger sampling occurred on all regular lakes this past month and samples will be submitted for processing. EDNA testing occurred this month by Carver County this month. The 22 Adopt-a-Dock volunteers have been checking plates monthly. District staff have not found any new invasive species during their regular boat launch scans. A more in-depth zebra mussel survey will occur on Lotus and Ann this month. All curly leaf pondweed treatments were finished in June. Early observations of the Staring Lake Fluridone treatment indicate good control on the Eurasian Watermilfoil. Lake Riley will receive the final herbicide treatment for the district this month	City of Chanhassen City of Eden Prairie University of Minnesota MN DNR Carver County

		for Eurasian Watermilfoil which was reduced from 13.4ac to 8.1ac because of cost.	
Cost-Share	Schedule and coordinate site visits. Review applications and recommend implementation. Evaluate program.	The 2022 Watershed Stewardship Grant (WSG) program currently has a total of 19 active grants. One project wrapped up in July. Staff Forbes gave a second virtual presentation about the District, cost share program, and benefit of native plants at the annual Cherry Creek Association meeting in Minnetonka on July 26. The homeowners' group has formed a committee and plans to pursue a habitat restoration project on their property, which is close to Purgatory Creek.	Carver County Soil & Water Conservation District
Data Collection	Continue Data Collection at permanent sites. Watershed Outlet Monitoring Program. Identify monitoring sites to assess future project sites. Water Level Sensors	Drought conditions persist across the district. Many stream sites are dry or have extremely limited flow compared to normal. Lake levels are very low across all lakes. WOMP stations: samples were collected 3 times this month for the Metropolitan Council. Regular bi-weekly lake and stream sampling resumed in June and will continue through the growing season (September). Zooplankton and Phytoplankton will be collected monthly on Riley, Lotus, Susan, Staring, and Rice Marsh in 2022. Staff have placed and been visiting three auto sampling stations this year: Site LL_3 – West Lotus Lake North Tributary. Site LL_7 - West Lotus Lake North Tributary. Site STL_17 – Purgatory Creek/Staring Lake Parkway. These stations were placed to collect more storm event nutrient and flow data to assess/confirm upstream loading for the proposed upcoming project sites. Staff will be visiting lake level sensors this month to download data and ensure they are working correctly. Staring Lake sensor had to be resurveyed due to the low water levels and the sensor being out of the water.	Metropolitan Council City of Eden Prairie University of MN City of Chanhassen MN DNR City of Minnetonka Three Rivers Park District
District Hydrology & Hydraulics Model	Coordinate maintenance of Hydrology and Hydraulics Model. Coordinate model update with LGUs if additional information is collected. Partner and implement with the City of Bloomington on Flood Evaluation and	Administrator Jeffery and Engineer Sobiech met with Eden Prairie engineering staff and Barr engineering on 8/2 to discuss the H&H model. Administrator Jeffery would like Barr to present the results of the modeling effort to the BOM in the fall.	City of Bloomington City of Minnetonka City of Eden Prairie City of Deephaven City of Shorewood

	Water Quality Feasibility.		
Education & Outreach	<p>Implement Education & Outreach Plan, review at year end.</p> <p>Manage partnership activities with other organizations.</p> <p>Coordinate Public Engagement with District projects.</p>	<p>Staff Bakkum continues to receive inquiries via the district website “Contact Us” form.</p> <p>Staff continue to work on populating new draft website while maintaining existing site. Final draft of new site is expected to be ready for review in August.</p> <p>Staff Mahon met with education staff of Nine Mile Creek and Minnehaha Creek Watershed Districts to coordinate efforts and discuss potential partnership opportunities.</p> <p>Staff Mahon is working with staff at NMCWD and the City of Minnetonka to build a stormwater story-map ahead of a raingarden workshop to be hosted October 25th.</p>	<p>Adopt-a-drain partners: Cities of Eden Prairie, Minnetonka, Bloomington, and Eden Prairie; Hamline University; Nine Mile Creek Watershed District; MPCA; Bolton & Menk</p> <p>Freshwater Society</p> <p>City of Chanhassen</p> <p>City of Minnetonka</p>
Groundwater Conservation	<p>Work with other LGUs to monitor, assess, and identify gaps.</p> <p>Engage with the Technical Advisory Committee to identify potential projects.</p> <p>Develop a water conservation program (look at Woodbury model).</p>	<p>No updates.</p>	<p>Metropolitan Council</p> <p>City of Eden Prairie</p> <p>City of Shorewood</p> <p>City of Bloomington</p> <p>City of Minnetonka</p> <p>City of Chanhassen</p>
Lake Vegetation Management	<p>Work with the University of Minnesota or Aquatic Plant Biologist, Cities of Chanhassen and Eden Prairie, lake associations, and residents as well as the Minnesota Department of Natural Resources on potential treatments.</p> <p>Implement herbicide treatment as needed.</p> <p>Secure DNR permits and contracts with herbicide applicators.</p> <p>Schedule regularly scheduled point intercept surveys.</p> <p>Work with Three Rivers Park District for</p>	<p>The University of Minnesota aquatic vegetation agreement was signed, and work began last month. The new contract was processed, and incoming graduate student Maija Weaver started on the project; Maija comes from Kalamazoo College, MI. Katie Hembre, the new graduate student on the companion USGS Alum project was able to fill in to help complete sampling in June. Aquatic plant point intercept surveys, biomass collection and water quality surveys were conducted on Staring, Riley, and Susan in June. Biomass samples from Riley and Staring have been processed. Water clarity remains high in Riley and a number of native taxa were found. Locally abundant, but not widespread, patches of Eurasian water milfoil were found. Water levels are low on</p>	<p>City of Eden Prairie</p> <p>City of Chanhassen</p> <p>University of Minnesota</p> <p>MN DNR</p>

Hyland Lake.

Staring and the fluridone treatment was starting to have an effect on Eurasian watermilfoil. Coontail is the dominant species. Water clarity was poor in lake Susan and plants were restricted to shallow water. Lotus and water lilies were common. Lakes will again be surveyed in August.

Red Rock and Mitchell Lake Vegetation Management Plan has been finalized and will be available on our website. Both lakes had harvesting occur this past month for navigational channels.

BARR has been working on the Lotus Lake Vegetation Management Plan with anticipated delivery the week of July 11th.

The table below highlights the 2022 aquatic plant surveys and treatments. All Curly leaf Pondweed treatments have occurred. Eurasian Watermilfoil treatments occurred on Riley, Lotus, and Staring . Rotational point intercept surveys (PI) for 2022 include Lotus Lake, Lake Lucy, Round, Red Rock, and Rice Marsh Lake. They will be conducted by Freshwater Scientific Services and Eden Prairie (consultant). Staff received a MNDNR traditional aquatic plant management grant for the Staring Lake Fluridone treatment. A Lake Vegetation Management Plan was submitted and accepted for Staring Lake and Lake Riley by the MNDNR this spring.

Lake	PI Surveyor	Delineation Type	Delineation Surveyor	Herbicide Treatment	Acreage
Red Rock	EP	CLP	FWSS	Aquathol	13
Mitchell	EP	CLP	District	Diquat	12.85
Lotus	FWSS	CLP	FWSS	Diquat	20.8
Riley	UMN	CLP	FWSS	Diquat	16.7
Riley	UMN	EWM	District	Procellacor	8.1
Susan	UMN	CLP	District	Diquat	8.25
Staring	UMN	CLP/EWM	FWSS	Fluridone	164
Lucy	FWSS				
RML	EP				
Round	EP				

Opportunity Projects

Assess potential projects as they are presented to the District

Administrator Jeffery and Engineer Sobiech will be meeting with Eden Prairie Public Schools, Eden Prairie Public Works, and Eden Prairie

City of Chanhassen
St Hubert School

		Parks and Recreation to discuss a regional stormwater management plan for the area around Eden Prairie High School.	Eden Prairie Public Schools
Total Maximum Daily Load (TMDL)	Continue working with the Minnesota Pollution Control Agency on the Watershed Restoration and Protection Strategies (WRAPS).	No changes.	MPCA
Repair & Maintenance Fund	Develop and formalize grant program. Maintenance of RPBCWD BMPs	Peterson Construction had indicated they will be installing the pump and WaterVision SCADA system the week of August 1st.	
University of Minnesota	Review and monitor progress on University of Minnesota grant. Support Dr. John Gulliver and Dr. Ray Newman research and coordinate with local partners. Keep the manager abreast to progress in the research. Identify next management steps.	A final report was received from the University of Minnesota titled "Assessment of Internal Phosphorus Release and Treatment with Iron Filings in five RPBCWD Ponds. Administrator Jeffery will be presenting to the findings and conclusions to the BOM at the September or October meeting.	Stormwater ponds partners: Cities of Bloomington, Chanhassen, Eden Prairie, Minnetonka, Shorewood; U of MN
Watershed Plan	Review and identify needs for amendments.	No changes.	
Wetland Conservation Act (WCA)	Administer WCA within the Cities of Shorewood and Deephaven. Represent the District on Technical Evaluation Panel throughout the District.	No WCA applications have been received in Deephaven or Shorewood. Staff Dickhausen attended a TEP, on-site meeting on July 21 to review a wetland boundary determination application for a residential project in Chanhassen. Members of the TEP reviewed the area that was determined by the delineator to not have any wetland, just a drainage channel. The TEP members were in agreement that there was a strong presence of hydric vegetation in the surrounding depression around the top of the drainage channel. They suggested that Chanhassen (the LGU) have the delineator take some sample points in this area and re-do their delineation to ensure there in fact is not any wetland on the property. The LGU representative agreed and is going back to the delineator to require them to complete a more thorough delineation of the site.	City of Shorewood City of Deephaven City of Chanhassen City of Eden Prairie MCWD BWSR MN DNR ACOE
Wetland Management	Assess known existing wetlands, identify previously unknown wetlands, identify wetlands for potential restoration/	Staff Dickhausen has continued wetland assessments in Minnetonka/Deephaven/Shorewood area of the district. Administrator Jeffery and Staff Dickhausen continue updating the MNRAM Access database. Numerous requests for MNRAM scores	City of Chanhassen City of Eden Prairie Hennepin County

	rehabilitation and wetlands requiring additional protection.	have been made by municipalities and private developers. Staff Dickhausen, Administrator Jeffery, Engineer Sobiech, and Joe Bischoff of Barr Engineering met to discuss progress on Phase 1 of the assessment program and to begin scoping Phase 2. It is anticipated that a soil health action plan will be developed and this effort will be applicable to the Wetland Assessment Program.	Carver County MN DNR BWSR USFWS
Hennepin County Chloride Initiative	Phase 1: Develop a plan to target commercial and association-based sources or chloride pollution – businesses, malls, HOAs, property management companies and the private applicators that they hire. We will hire a consultant to facilitate focus groups with private applicators, as well as those that execute contracts with private applicators. These focus groups will help identify needs and barriers for our target audience. The consultant will compile information into a plan for implementation.	The HCCI team continues to develop a package/toolbox that will be available for city and watershed partners to use in their chloride reduction efforts. Testing of the materials will occur by end of summer. The chloride reduction initiative is called “Low Salt, No Salt Minnesota.” Administrator Jeffery is updating the eLink grant database hosted by BWSR for reimbursement of funds.	Eleven watershed districts/WMOs Multiple cities MPCA Hennepin County Environmental Services Board of Water and Soil Resources
Lower Minnesota Chloride Cost-Share Program	The Lower Minnesota River Watersheds are coming together to offer cost-share grants.	Chloride Reduction cost-share grant program remains open until the end of 2022. Information is posted on District website and advertised through Fortin Consulting (now Bolton & Menk) and the MPCA.	LMRWD RBWMO NMCWD
Bluff Creek Watershed	Description	Update	Partners
Bluff Creek Tributary Restoration	Implement and finalize restoration. Monitor Project.	No new updates.	City of Chanhassen
Bluff Creek Reaches B5 and B6	Develop Feasibility Study regarding potential creek and wetland restoration.	A public hearing on the project is scheduled for the August meeting of the RPBCWD BOM.	
Wetland Restoration at Pioneer Tr and MN TH 101	Remove 3 properties from flood zone, restore a minimum 7 acres and as many as 16 acres of wetlands, connect public with resources, reduction of volume, rate, pollution loads to Bluff Creek.	Administrator Jeffery and Engineer Sobiech did a final walkthrough with Davey Resource Group and Sunram Construction. With the exception of some minor changes to the flared end sections of the outlet culverts and the placement of smaller rock in the rip rap, all structural BMPs are installed properly. There is additional	City of Chanhassen MN DNR Carver County

Riley Creek Watershed	Description	Update	Partners
Lake Riley Alum Treatment	Continue monitoring of Lake.	Staff will plan to core again in 2023 to assess the second alum dose. Lake Riley water quality remains excellent following the completed alum treatment. A study will be published about the project after the results of the final coring event are received.	
Lake Susan Improvement Phase 2	Complete final site stabilization and spring start up. Finalize and implement E & O for project. Monitor project.	Administrator Jeffery has entered into an agreement with Peterson Construction to install WaterVision. Schedules are being coordinated for installation.	City of Chanhassen Clean Water Legacy Amendment
Lake Susan Spent Lime	2022 startup and monitoring	The Lake Susan Spent Lime Treatment System has been monitored once a week. The drought conditions have eliminated any flow between the wetland and Lake Susan and therefore through the Spent Lime Unit.	City of Chanhassen
Lower Riley Creek Stabilization	Coordinate agreement and acquire easements if needed for the restoration of Lower Riley Creek reach D3 and E. Implement Project. Continue Public Engagement for project and develop signage for restoration.	Maintenance of the site has been turned over to the City of Eden Prairie although District staff will assist with inspections. As-built survey needs to be performed and provided to the City of Eden Prairie. The contractor will be out to the site to inspect and manage vegetation and remove the temporary sediment control practices.	City of Eden Prairie Lower MN River Watershed District
Rice Marsh Lake Alum Treatment	Continue monitoring of Lake.	Staff conducted sediment core sampling in February to assess treatment effectiveness and prepare for/direct the second dose application.	City of Eden Prairie City of Chanhassen
Rice Marsh Lake Watershed Load Project 1	Install proprietary BMPs. Install soil corrections and plant areas in native vegetation for long-term study of impact on soil health and runoff parameters. Install curb-cut rain garden.	Administrator Jeffery, Heather Lau from Barr, Chanhassen City staff and Myer Construction completed the final walkthrough of the site. Some mudding was needed in two of the structures but is otherwise substantially complete. Staff Maxwell and Administrator Jeffery will install monitoring equipment in the first half of August and the system will be put on-line. Administrator Jeffery is working with the Park and Recreation Director for the City of Chanhassen to provide screening for the small structure that will house the monitoring equipment.	City of Chanhassen

Upper Riley Creek	Work with city to develop scope of work (in addition to stabilizing the creek can we mitigate climate change). Conduct feasibility. Develop cooperative agreement with the City of Chanhassen. Order project and begin design.	Administrator Jeffery and District Engineer met with engineering and public works staff from the city of Chanhassen on July 25th to discuss project scope and additional improvements that could be made to the Chanhassen public works facility to provide further protection to Riley Creek.	City of Chanhassen
Middle Riley Creek	Work with Bearpath HOA/Golf Course to develop scope of work (in addition to stabilizing the creek, can we mitigate climate change and provide for an improved recreational experience). Draft feasibility report. Develop cooperative agreement with Bearpath.	The project is substantially completed. The project Engineer from Barr completed the final walkthrough with Sunram on	Bearpath Neighborhood Association City of Eden Prairie MN DNR
St Hubert Water Quality Project	Repair eroded ravine tributary to RML. Install BMPs to provide water quality and quantity benefits for site. Develop curriculum to be used with teachers and students at St. Hubert. Establish native vegetation and monitor soil development, water quality/quantity benefits, and ecological changes.	The project is substantially complete. Staff Mahon is developing curriculum to go along with project sites. Staff will be working closely with the middle school science teacher to ensure curriculum standards are met. Staff Mahon and Interim Administrator Jeffery will work with Science Committee to have students plant to areas in the prairie restoration that pond water to provide treatment, rate control, and infiltration.	CCSWCD Metropolitan Council City of Chanhassen
Purgatory Creek Watershed	Description	Update	Partners
PCRA Berm		No change	City of Eden Prairie MN DNR
Duck Lake Water Quality Project	Work with the City to implement neighborhood BMP. Identify neighborhood BMP to help improve water resources to Duck Lake. Implement neighborhood BMPs.	No changes	City of Eden Prairie
Lotus Lake Internal Load Control	Continue monitoring the Lake. Plan second alum application.	For the second dose of alum application, treatment areas will likely shift to 15-foot and deeper contours to account for high release rates at those shallower depths in the central and northern portions of the lake. This treatment would likely occur in 2024.	
Silver Lake Restoration	Order project. Design Project.	Legal Counsel for the RPBCWD has drafted the agreement and	City of Chanhassen

	Work with the City of Chanhasen for design, cooperative agreement, and implementation.	submitted to Prairie Restoration Inc for execution.	
Lotus Lake Watershed Water Quality Improvement Project	Feasibility Study/Preliminary Engineering Report Issue Identification Partnership Opportunities and CIP Alignment	Administrator Jeffery, District Engineer Sobiech, and Project Engineer Jen Koehler met with Chanhasen’s Public Works Director, Water Resources Engineer, Streets Superintendent, and Parks and Recreation Director to kick off the project. Areas of interest were discussed and potential subwatershed areas and alignment of projects was discussed.	City of Chanhasen

Professional Development

Staff Dickhausen has registered for a course in wetland vegetation through BWSR.
 Staff Nicklay has registered for courses on Regulatory Enforcement and Permeable Pavement Inspection Testing and Maintenance.
 Administrator Jeffery is currently taking a course on public financial management and another on project management life cycle through edX.
 Staff will receive CPR/AED/First Aid Certifications the week of August 8th