



Nine Mile Creek Discovery Point
12800 Gerard Drive

Eden Prairie, MN 55346

(952) 835-2078

www.ninemilecreek.org

MEMO

TO: Nine Mile Creek Watershed District Board of Managers
FROM: Randy Anhorn
DATE: January 11, 2020
RE: Year-end tracking of identified project and program implementation action items for 2020 - as identified in the District's 10-year Plan of Board approved workplan

Background

In an effort to track our annual accomplishments against the program and project implementation action items shown in Table 6-1 and 6-2 of the District's 10-year Plan, staff has tried to indicate which 2020 action items were completed, which are still ongoing, or which have not had much progress made on them.

The attached table highlights plan activities that we were supposed to be undertaken in 2020 (as well as activities that are to be undertaken in 2021), where we are in completing that plan activity, and measurable outcomes for each.

The green cells indicate that we have completed the action item for 2020. The yellow cells indicate that we partially completed or are still working toward completing the activity (with additional work still needed), and the red cell indicates that little or no progress was made on that activity. "NA" indicates that while the 10-year Plan did not show a plan activity for the implementation item in 2020 activities under the item were undertaken anyway.

The result is 44 green cells, 7 yellow cells and 1 red cell for the 52 plan activities/implementation items identified in the 10-year Plan for 2020.

Request

No action required. The presented is for informational purposes to promote discussion.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
Data Collection (DC)										
DC-1	Develop and implement a groundwater monitoring plan, including identification of abandoned wells and well abandonment procedures.	Develop groundwater monitoring plan, including consideration of monitoring groundwater levels and contamination concentrations.	M	Partner	X	X			X	Continued existing program (may look at expanding # of wells as recommended in GW/SF interaction study), worked with county on sealing abandoned wells
DC-2	Develop and implement a lake monitoring plan including water levels, water quality, and ecological indicators.	Develop lake monitoring plan and update annually.	H	Lead	X	X			X	Continued existing program (on Arrowhead Lake, North and South Cornelia lakes, Lake Edina, Holiday Lake, Indianhead Lake, Normandale Lake, Lake Rose and Wing Lake) in 2020. And continued to include fish surveys on Normandale, Cornelia and Smetana lakes
DC-3	Summarize annually the results of District data collection programs, assess conditions relative to standards, perform QA/QC, review the data for trends, document results in monitoring report(s), and provide a data summary to appropriate state agencies.	Prepare annual lake monitoring report.	H	Lead	X	X			X	Annually analyze data and prepare water quality monitoring result that is uploaded onto website and included in Annual Report. Expanded the report in 2020 to include lake and groundwater level monitoring info. In addition, the District implemented an interactive "data-sharing web map" to its webpage, where stakeholders can view groundwater observation well information (level) and lake information (level, water quality and other information such as lake fact sheets detail more information for most of the District lakes).

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
DC-4	Develop and implement a stream monitoring plan including assessment of water quality, continuous flow, substrate and bank conditions, and ecological indicators (e.g. fish and macroinvertebrates).	Develop stream monitoring plan and update annually.	H	Lead	X	X			X	Continued existing program plus walk through of Edina and Lower Valley stream restoration reaches to assess erosion. Will conduct a walk of the south fork in 2021 to identify restoration areas for the upcoming south fork restoration project
DC-5	Conduct periodic inventory and assessment of aquatic invasive species.		M	Partner	X	X			X	The District currently assesses and inventories for AIS through our routine lake monitoring program and Adopt-a-Dock program
DC-6	Conduct targeted monitoring of lakes, streams, and stormwater to assess pollutant sources and measure success of District management activities.	Conduct targeted monitoring of lakes, streams, and stormwater to assess pollutant sources and measure success of District management activities.	H	Lead	X	X			X	Targeted monitoring associated in 2020 Lake Cornelia (winter dissolved oxygen, carp/goldfish), Lake Smetana (fisheries survey), Normandale, (turon survey, aquatic vegetation, and fisheries), Rose/Wing/Holiday (continuous lake levels), Arrowhead/Indianhead (more frequent lake levels)
Education and Outreach (EO)										
EO-1	Develop and annually update the District's Education and Outreach Plan, updating the plan as necessary to address emerging issues, audiences, and communication strategies.	Review and prioritize educational programming annually.	H	Lead	X	X			X	Continued current program and evaluation as part of individual and E&O annual workplans. One new area has been staff initiating discussions with partner cities on potential partnerships and city needs to promote groundwater conservation objectives as detailed in WMP.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items	Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
EO-2 Develop and host events, exhibits, and demonstrations at Discovery Point, including an annual state-of-the-watershed event to update stakeholders on progress towards accomplishing District goals.	Develop and maintain permanent and temporary educational exhibits.	H	Lead	X	X			X	Due to the COVID-19 pandemic, Discovery Point was closed to the public for most of the year. However, we changed much of our programming to virtual events. We will continue to monitor the pandemic in 2021 as to hosting events and equipment rental at the facility. We worked with partners to purchase a new Roots Puller display, made by Blue Thumb, which will be used at community events and Discovery Point once it is safe to do so again. The State of the Waters event was held virtually in early January, to discuss 2020 district achievements, honor volunteers, and debut the 2021 Photo Calendar. Photo calendars were available for
EO-3 Support and collaborate with other entities implementing education and outreach programs that promote citizen engagement and leadership for watershed management.	Maintain and develop new partnerships to provide educational programming.	H	Lead	X	X			X	Collaborated with Bush Lake Ikes, Schools, Stop Over Salting, Minnesota Water Stewards, Metro Blooms, Metro Watershed Partners, Cities, and Partner Watersheds. Some partnership programs, like River Watch, had to be put on hold due to the COVID-19 pandemic. Began collaborating with RPBCWD on groundwater conservation education. Developed a new program for the District, Winter Salt Watch, in partnership with the Izaak Walton League of America, to monitor chloride hot spots in the District.
EO-4 Develop, maintain, and distribute educational communications and other materials in support of the District's educational goals (e.g., signage, website, newsletters, brochures).	Develop and/or distribute educational materials.	H	Lead	X	X			X	Website, newsletter, social media, updated signage, brochures, video, interpretive signage (new signs at north fork headwaters in Hopkins, describing projects and stormwater BMPs at Valley Park in Hopkins, Harrison Park in Bloomington) and new project signage for the Normandale Lake project. Developed new video communications to virtually connect with stakeholders. Created lake factsheets.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
EO-5	Develop and deliver educational materials, workshops, demonstrations, and/or presentations addressing emerging issues, innovative strategies, and best management practices.	Host, conduct, or partner to provide educational workshops, trainings and events.	H	Lead/Partner	X	X			X	Due to the COVID-19 Pandemic, the District was unable to host in person events and moved toward web-based virtual events. In 2020, events included: smart salting trainings, Kiss the ground documentary screening, nature photography webinar, Writing in Nature art program, raingarden maintenance classes and videos, and sustainable lawns classes.
EO-6	Coordinate the District's volunteer program(s) and support volunteer programs coordinated by other entities.	Incorporate volunteer events and opportunities into education programming, as achievable.	H	Lead/Partner	X	X			X	Hosted a volunteer gathering in early 2020. We also provided support during educational events and work around Discovery Point (including buckthorn busts and volunteer planting events) as well as Adopt-a-Drain, Adopt-a-Dock, CAMP and Minnesota Water Stewards programs. However, the use of volunteers for clean up day along the north branch of the creek at Valley Park in Hopkins was changed to a dispersed Adopt a Drain campaign due to the COVID-19 Pandemic.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
EO-7	Support and maintain an active Citizens Advisory Committee (CAC) representative of the entire watershed.	Support and maintain an active Citizens Advisory Committee (CAC) representative of the entire watershed.	H	Lead	X	X			X	There were 6 formal and a few informal CAC meetings in 2020. CAC members also helped choose pictures for the 2021 photo calendar and plan the annual State of the Waters event. In addition, the District funded for three CAC members to attend the 2020 Salt Symposium, and 4 members for the Water Resources Conference and MAWD Annual Conference. Staff continues to work with CAC to expand responsibilities while meeting District goals. CAC members assisted in the selection of cost share grants at the residential level and helped assess a new strategy for restoration grants.
EO-8	Develop a program to incorporate public art into the District's projects and facilities.	Incorporate public art into District capital improvement projects, when feasible.	M	Lead	X	X			X	While the District has not directly incorporated art into our projects, we are working with the cities of Bloomington and Edina for some art components as part of the Normandale Lake outlet, Cornelia Lake Rosland Park and Lynmar Park BMP projects. And, we incorporated "Art in Nature" in our programming, including Writing in nature and Nature photography webinars.
EO-9	Engage the public and solicit public input on District projects and programs.	Host public engagement and input forums on District programs and projects.	H	Lead	X	X			X	Conducted a Normandale Lake community meeting, Lake Smetana UAA results stakeholder meeting, met with a concerned citizens on Normandale Lake and held update presentations on ongoing water quality projects as part of District open to the public Board meetings.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
EO-10	Regularly communicate information about District activities, projects, and progress towards goals to cities, residents, and other stakeholders.	Promote awareness of the District's presence and its role in managing water resources.	H	Lead	X	X			X	Published newsletter, continually update "what's happening", upcoming events" and "news & announcement" sections of website, and social media. Also, hosted a "Kiss the Ground" documentary screening and discussion night and held update presentations on ongoing water quality projects as part of District open to the public Board meetings. Staff also started discussions with partner cities on potential partnerships and city needs to promote groundwater conservation objectives as detailed in WMP. An annual communication was incorporated into the 2021 Photo Calendar, and distributed throughout the watershed and through our e-newsletter.
Operations and Administration (OA)										
OA-1	Establish and implement an Incentive Program for implementation of wetland buffer areas on private properties.	Establish an incentive program for implementation of wetland buffer areas on private properties.	H	Lead	X	X			X	Continued cost-share grant program. In 2020, the District has increased its cost-share grant budget item to help provide funds to private and public partners to achieve groundwater conservation objectives in the District's WMP.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items	Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
OA-2 Work with cities to provide technical support for floodplain issues, including identification of floodplains, review of land uses, identification of improvement alternatives, and assistance in implementing city projects to address these issues.	Work with municipalities to identify floodplain areas and permissible land uses.	H	Partner	X	X			X	The District continues to provide its Hydrologic and Hydraulic model to partner cities to help identify water quantity issues as well as helping identify associated issues stemming from proposed projects (through the District's regulatory program). The District has had a few meetings with City planning and public works staff to discuss upcoming known private and public projects. While we have had little in discussions with municipalities on climate change since the climate resiliency grant, the District has had a few meetings with City planning and public works staff to discuss upcoming known private and public projects. In addition, the District undertook a few studies (whose outcomes are somewhat associated with climate change) in 2020 that were shared with the TAC and individual cities (including the groundwater/surface water interaction study and high water levels and potential for springtime flooding). In addition, the District is currently updating its Atlas-14 model to assess flood vulnerability, worked with the City of Edina on lake level management plans for Arrowhead and Indianhead lakes, and partnered with RBCWD and

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
OA-3	Assist cities in implementing climate change adaptation strategies.	Work with local governments to implement climate change adaptation strategies.	M	Partner	X		Partial		X	<p>While we have had little in discussions with municipalities on climate change since the climate resiliency grant, the District has had a few meetings with City planning and public works staff to discuss upcoming known private and public projects. In addition, the District undertook a few studies (whose outcomes are somewhat associated with climate change) in 2020 that were shared with the TAC and individual cities (including the groundwater/surface water interaction study. In addition, staff also start discussions with partner cities on potential partnerships and city needs to promote groundwater conservation objectives as detailed in WMP.</p> <p>and high water levels and potential for springtime flooding). In addition, the District is currently updating its Atlas-14 model to assess flood vulnerability, worked with the City of Edina on lake level management plans for</p>
OA-5	Participate in local and regional resource and land planning activities, as appropriate, to identify and leverage opportunities to achieve District goals, objectives and policies.	Partner with Hennepin County, local water management organizations, municipalities, and state agencies to promote development of a regional groundwater management plan, and participate in regional groundwater planning efforts, as appropriate.	H	Partner	X	X			X	<p>Continued working on regional issues through the watershed-based funding initiatives (both county and Metro MN River watersheds based). sed projects (through the District's regulatory program). The District has had a few meetings with City planning and public works staff and future permittees (MNDOT for the upcoming 494 project) to discuss upcoming known private and public projects and regional issues and potential remedies</p>

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
OA-8	Implement annual work plan in pursuit of District goals, consistent with available resources and applicable legal requirements.	Diligently comply with state and Hennepin County budgeting and levying requirements and protocols and other reporting requirements	H	Lead	X	X			X	Staff fulfilled all State Statutory requirements including: all requirements to preparing, holding public hearings and submitting 2021 budget, meeting required annual report and audit needs (with no findings in the annual audit), biennial solicitation for professional service and Federal, State and County organizational requirements (e.g., pay equity reporting,, indebtedness reporting, census of government and LGU finances, truth in taxation reporting, etc..)
OA-10	Provide technical assistance to cities, developers, and other stakeholders to promote incorporation of water and natural resource benefits into capital improvement, development, and redevelopment projects.	Identify opportunities to incorporate water resource management efforts into capital improvement projects and major redevelopment projects.	H	Lead/Partner	X	X			X	Through the permitting process as well as working with cities on visioning and planning process (e.g., continued discussions resulting from the stormwater volume reduction opportunity analysis and stormwater facility funds to go above and beyond compliance [e.g., Braemar cold storage site]). Also, undertook a few studies in 2020 that were shared with our partner cities (, groundwater/surface water interaction study, updating Atlas -14 model and flood vulnerability) and provided support on local and regional high water issues including lake level management plans, and outlet options on land locked lakes. There was also a lot of technical assistance proves to citizen's in 2020--answering questions on ongoing District projects and lake water quality.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
OA-11	Work with local governments to identify and implement strategies to reduce road salt usage.	Work with local governments to reduce salt usage on roadways.	H	Lead/Partner	X	X			X	We continue to meet chloride reduction objectives through continued conversations with city public works, hosting level 1 and 2 smart salt trainings, chloride cost-share grants, support and promotion of limited liability legislation, and watershed-based funding group. Assisted creating guidance for communities interested in developing a rebate program to reduce chloride from home water softeners as well as a model ordinance for municipal officials regulating the use of deicers and participated in the creation of a smart salting training and manual for property managers. Staff assisted with the planning of the 2020 salt symposium and is sitting on an advisory committee to work on the reduction of chloride from fertilization.
Maintenance (M)										
M-1	Maintain and improve stormwater management facility maintenance standards in collaboration with cities; work with the cities and private entities to confirm facilities are maintained.	Maintain and improve stormwater management facility maintenance standards in collaboration with the cities of the District.	H	Lead	X		Partial		X	The Permit Coordinator conducts and tracks permit inspections and continues to strengthen permitting relationships with city permit and public work staff. The Permit Coordinator has also worked with peers in the permitting field to enhance efficiencies and in 2020 helped in the development and implementation of a new permit and inspection tracking software - MS4Front.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
M-2	Develop a stormwater management facility maintenance system to document maintenance agreements and track compliance.	Develop a stormwater management facility maintenance database to document maintenance agreements and track compliance.	H	Lead	X	X			X	The Permit Coordinator has expanded the District's currently used permit tracking spreadsheet to include this information. In addition, to better track compliance and other permitting information, 2020 helped in the development and implementation of a new permit and inspection tracking software - MS4Front to improve efficiency by auto populating and self notifying permit tracking and inspections.
M-3	Operate, monitor, and maintain current and future NMCWD water quality improvement facilities to ensure the designed benefits are achieved.	Operate, monitor, and maintain current and future NMCWD water quality improvement facilities to ensure the designed benefits are achieved.	H	Lead	X	X			X	Continue to initiate cost-share BMP inspection tool - which in 2020 included the development and implementation of MS4Front to increase the efficiency of BMP grant tracking, reporting and inspections.
Rules and Permitting (RP)										
RP-1	Continue to implement the District's permitting program, including inspections and enforcement actions.	Implement stormwater volume, quality and rate-control criteria in District rules.	H	Lead	X	X			X	Continued current regulatory program which processed 135 permits in 2020--40 of which triggered stormwater for a reduction of roughly 105 lbs. of phosphorus and 30,00 lbs. suspended solids. Have fully moved permit inspections in-house, which has allowed the District more timely violation follow up. In addition, to increase the efficiencies of the permit tracking, reporting and inspections, staff developed and implemented of MS4Front tool in 2020.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
RP-3	Review periodically District rules and update as necessary.	Conduct review of District stormwater rules to ensure rules are adequately protective of groundwater quality.	H	Lead	NA		Partial		NA	In 2020, staff compiled a list of Rule housekeeping items and small changes that the Managers have discussed as tweaks to the rules that either clarifies the intent of the rule or reduces the need for variances that the Board has recently seen such as the installation of rip-rap to dissipate energy for from culverts or maintenance where rip-rap has already been approved in the past, and lastly some larger items that have come up at past meetings that would result in a change to the Rules or how the District would require Board discussion and direction. The proposed edits and changes will be brought before the Board in early 2021 to discuss.
RP-4	Administer WCA requirements as the responsible Local Government Unit (LGU) for the cities of Eden Prairie, Edina, Hopkins, and Richfield; provide technical assistance, as requested, in wetland-related matters in Bloomington and Minnetonka.	Provide technical assistance (participating in the Technical Evaluation Panel [TEP]) in wetland-related matters in Bloomington and Minnetonka.	H	Lead	X	X			X	Continue current program
Studies (5)										

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
S-2	Assess increased flood risk due to predicted climate changes.	Assess increased flood risks due to predicted climate changes.	H	Lead/Partner	X	X			X	Continued conversation with cities on areas and roles of flood risk (especially as it relates to Atlas-14) and future area prioritization. While we have had little in discussions with municipalities on climate change since the climate resiliency grant, the District has had a few meetings with City planning and public works staff to discuss upcoming known private and public projects. In addition, the District undertook a few studies (whose outcomes are somewhat associated with climate change) in 2020 that were shared with the TAC and individual cities (including the groundwater/surface water interaction study and high water levels and potential for springtime flooding). In addition, the District is currently updating its Atlas-14 model to assess flood vulnerability, worked with the City of Edina on lake level management plans for Arrowhead and Indianhead lakes, and partnered with RPBCWD and Bloomington on a flood prioritization project. We look to increase the number of these meetings in the future.
S-3	Conduct study of groundwater and surface water interaction in Nine Mile Creek watershed to better understand the impacts of groundwater on lake, wetland and stream hydrology; and identify and map areas in the watershed based on potential for (and limitations to) groundwater recharge.	Identify and map areas in the watershed based on potential for (and limitations to) groundwater recharge.		Lead	X	X			NA	Staff completed a groundwater-surface water interaction study in 2020 and presented findings to the managers and TAC. Findings have been helpful to assist our partners due to current high groundwater and surface water conditions over the past 5 years and its impact on land-locked lakes.
S-4	Collaborate with others to research infiltration impacts on groundwater and develop a consistent approach to protecting areas sensitive to groundwater contamination.	Collaborate with others to research infiltration impacts on groundwater and develop a consistent approach to protecting areas sensitive to groundwater contamination.	H	Participant	X	X			X	In addition to this being looked at on a site by site process through our permit program, the District recently worked with the city of Bloomington and the MPCA on getting direction from the MPCA on not allowing infiltration with the Lyndale Avenue superfund area of concern due to the potential of exasperating groundwater contamination

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
S-5	Inventory areas within the District for possible natural space restoration or enhancement and maintain a database of these opportunities.	Inventory areas within the District for possible natural space restoration or enhancement and maintain a database of these opportunities.	M	Lead/Partner			Partial		NA	The District continues to have informal discussions with partner cities, TRPD and Hennepin County about ecologically significant and natural resources corridors (as identified through MLCCS data) on their properties and their future plans for potential enhancements. In addition, the District initiated an inventory of its highest quality wetland in 2020 (to be completed in early 2021) that will result in a second phase that will prepare restoration and protection plans for the identified wetlands.
S-21	Work with agencies and stakeholders to develop subwatershed-based implementation programs for the South Fork of Nine Mile Creek.	Work with agencies and stakeholders to develop subwatershed-based implementation program for the South Fork of Nine Mile Creek.	H	Lead	X	X			X	Staff completed the Lake Smetana UAA update in early 2020 and presented the results and possible actions to the City and at a District open to the public Board meeting held a stakeholder meeting. While the lake is currently meeting state water quality standards, staff is continually discussing partnership opportunities with the city about potential project(s) to reduce watershed-based nutrient loading to the lake.
S-25	Conduct periodic inspections of Nine Mile Creek to identify and target areas prone to erosion.	Conduct periodic inspections of Nine Mile Creek to identify and target areas prone to erosion.	H	Lead	X	X			X	In 2020, areas along the north branch and lower valley areas were walked to look for erosion and erosion problem areas to be continually monitored.
S-26	Prepare a District wetland inventory that identifies high-value wetlands within the watershed, rare and high-quality wetland biological communities, and identifies opportunities for restoration and/or protection	Inventory wetlands within the watershed, including delineation, functions and values assessment.	H	Lead	X		Partial		NA	The District has started the high-quality wetland assessment and will be completed in early 2021. The subsequent steps will be to develop protection/enhancement plans for identified opportunities.
Projects (P)										
P-1	Work with cities to establish natural vegetated buffers on all publicly owned lands adjacent to Nine Mile Creek and stormwater detention areas.	Work with cities to establish natural vegetated buffers on all publicly owned lands adjacent to Nine Mile Creek and stormwater detention areas.	M	Partner	X	X			X	Through Edina Streambank project, Cornelia UAA project as well as cost-share grant program.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
P-2	Develop and implement strategies to manage invasive species in coordination with natural resource agencies.	Work with natural resource agencies to manage invasive species and restore native species.	M	Partner	X	X			X	Th Board determined the levels of involvement (lead, partner, no role) the District should have in various AIS management activates, a lake prioritization schematic to determine which lakes would be involved in various activities and flowcharts to guide the District's decision-making process in determining what the District's role should be in prevention, identification (e.g., early detection), rapid response, monitoring/inventories and overall management for the various prioritization classifications. A rapid response plan is to be completed in 2021.
P-3	Identify and implement natural resource protection and enhancement projects, including the restoration strategy for NMCWD Discovery Point, and seek opportunities to include open space, recreational, and habitat benefits into District capital projects.	Implement open space, natural area and habitat improvements opportunities as part of NMCWD capital improvement projects.	H	Lead	X	X			X	Continue current work on entire Discovery Point Landscape Restoration project and incorporating natural resources enhancement projects as part of the Normandale and Cornelia lake water quality efforts and as part of the Non Profit BMP Project. Phase 3 of the Discovery Point Landscape restoration Project will take part in 2021.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
P-4	Work with local governments in identification, planning, and development of regional or site-specific stormwater management systems to enhance treatment.	Establish a regional stormwater-management compliance option in the NMCWD rules and work with cities to implement regional stormwater options where applicable..	H	Lead	X	X			X	Continue to have conversations with the City of Bloomington to find areas for regional treatment to offset lost volume reduction in the Lyndale Avenue superfund area and commented on a regional approach to handle stormwater as part of the Minnetonka Opus Area AUAR. In addition, staff has worked with the City of Edina on the current Rosland Park Stormwater Filtration BMP project, concepts for a future Lynmar Park BMP project and going above and beyond the Districts stormwater volume rule as part of their Braemar cold storage project.
P-5	Implement opportunities for enhanced stormwater management in cooperation with cities or other public and private partners through the District's cost share program, including stormwater reuse projects and innovative stormwater management demonstration projects.	Continue to implement the District's cost share program, which provides financial assistance to engage stakeholders to implement BMPs.	H	Lead	X	X			X	Completed the District-wide analysis identifying stormwater volume reduction opportunities on public parcels and presented to our partner cities. In addition, staff has worked with the City of Edina on the current Rosland Park Stormwater Filtration BMP project, concepts for a future Lynmar Park stormwater retention BMP project and going above and beyond the District's stormwater volume rule as part of their Braemar cold storage project (this has led to conversations of doing the same on future projects in the city as well).
Capital Improvement Project (CIP)										
1	Stabilize and restore the North Fork of Nine Mile Creek in Edina ¹ .	Stabilize the North Fork of Nine Mile Creek in Edina.	H	Lead	NA	X			NA	Construction and initial revegetation phases are completed. In 2020 the District and City undertook some warranty repair and maintenance work as well as replace some vegetation that had died.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items	Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
2	Implement recommendations of Normandale Lake UAA (2005) and/or subsequent studies (see S-6 from Table 6-2), which may include in-lake alum treatment, aquatic plant management, and/or construction of two stormwater treatment ponds within the North Fork and South Fork watersheds.	H	Lead/Partner	X	X			X	Completed lake drawdown and in-lake alum treatment component of the phased Normandale Lake WQ Improvement project 2018/2019. In 2020, the District completed a herbicide treatment and continued to study fisheries management options which included a partial carp removal.
3	Implement recommendations of Lake Cornelia UAA (2010) and/or subsequent studies (see S-8 from Table 6-2), which may include management of curly leaf pondweed and carp, alum treatment of phosphorus-rich lake sediment, construction of a stormwater treatment pond and/or an iron-enhanced sand filter just upstream of North Lake Cornelia.	H	Lead/Partner	X	X			X	In 2020, the District completed in-lake alum treatment, partnered with Edina on herbicide treatments, and is undertaking a carp/goldfish management study. In addition, the Board ordered the Rosland Park Stormwater Filtration BMP project and staff is currently in final design stages and has received \$846,000 in grant funds to construct the project in 2021
4	Implement structural improvement recommendations from regional flood study projects.	H	Lead/Partner	X			X	X	While we continue to have had some conversation on the Pentagon Park/Border Basin in Edina/Bloomington and Cherokee-Chamberlain in Eden Prairie areas and possible solutions, the cities(who we would partner with) seem reluctant to move forward with options at this point
5	Implement recommendations of Lake Edina UAA or WRAPS, once completed.	H	Lead/Partner	X		Partial		X	As part of the Lake Cornelia and Lake Edina UAA update, staff has identified a potential bioretention project in Lynmar Park and staff is continues to have conversations with the city .
6	Implement Southeast Anderson Lake improvement recommendations from Anderson Lakes UAA (2005), which includes alum treatment of phosphorus-rich lake sediment and additional curly leaf pondweed management, as needed.	H	Lead/Partner	X		Partial		X	Following UAA update, the lake met state shallow lake standards. Because curly-pond-weed was determined to be a water quality and a potential flood hazard due to blocking of the lake's outlet, and is starting to do pre-permit work for a future herbicide treatment.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
17	Implement BMPs identified through Accelerated Implementation Grant on prioritized privately owned, nonprofit sites.	Non-Profit Stormwater BMP Project	H	Lead	X	X			X	Completed the Non-Profit Stormwater BMP Project which installed six stormwater BMPs on five sites owned by nonprofits. Continued Maintenance scheduled for 2021.
Other - Undefined in Plan										
1	Discovery Point Office Addition	Go out for bid, hire contractor and oversee construction	H	Lead	X	X			X	Went out for bid, hired contractor and oversaw construction that was completed in December 2020. Final landscaping is to take place in 2021.
2	Find opportunities to use Stormwater Facilities Fund dollars to make up lost stormwater volume, and water quality reductions from past permits that were unable to meet the District's full stormwater management requirements due to site constraints		H	Lead/Partner	X	X			X	The District executed an agreement with the City of Edina to provide SFF dollars for implementing a stormwater BMP above and beyond their stormwater volume requirement needs as part of a project at the Braemar public works facility. We are waiting on receiving and reviewing needed permit closeout documents to determine the resulting above and beyond stormwater volume amount that will be reimbursed through the District's SFF. As a result of the partnership, the District and the City continues to have conversations on similar partnerships on future city projects.
3	Repair Maintenance (Projects)	Per agreements with cities, annually inspect past projects and jointly undertake repair maintenance projects where needed	H	Lead/Partner	X	X			X	In partnership with area cities (per agreements) in 2020 the District undertook repair maintenance work as part of the Edina Stream Bank, Lower Valley and Bush Lake Shoreline Vegetation Maintenance projects

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2020	Completed	Ongoing	To Do	2021	Measurable Outcome
4	Covid-19 Pandemic	Fulfill requirements of Governor Walz's Covid-19 Pandemic Orders	H	Lead/Partner	X	X				Beginning in March 2020, staff have continually had to work to meet requirements of numerous Executive Orders by Governor Walz, including shifting to closing the District office to the public, establishing work from home protocols, shifting to virtual-based board and staff meetings (as well as stakeholders), the development, and continued updating of a District Covid-19 preparedness plan and the determination of critical work sectors the District needed to continue to fulfill through the continued pandemic.