



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 9, 2019
RE: Year-end tracking of identified project and program implementation action items for 2018 - as identified in the District's 10-year Plan

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 2018 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 supposed to be undertaken in 2018 (as well as activities that are to be undertaken in 2019), 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 2018. 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 2018, there is one for 2019.

The result is 35 green cells, 8 yellow cells and 1 red cell for the 44 plan activities/implementation items identified in the 10-year Plan for 2018.

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	2018	Completed	Ongoing	To Do	2019	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 and 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. Expanded to include fish surveys on Normandale and Cornelia 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
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. Expanded to include fish surveys on Normandale and Cornelia lakes
DC-5	Conduct periodic inventory and assessment of aquatic invasive species.	Conduct periodic inventory and assessment of aquatic invasive species.	M	Partner	X		Partial		NA	Adopt-a-dock monitors on Bryant and Bush
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			NA	Tageted monitoring costs associated with extra monitoring of SE Anderson Lake (extra lake), Cornelia Lake, Swimming Pool Pond, and Lake Level on Normandale lake (pressure transducer)

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	Measurable Outcome
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	As part of individual and O&E annual workplans
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	Hosted community events for Lake Normandale WQ project, Lake Cornelia UAA update, MAWD Summer Tour, and State of the Waters. Also hosted tours of other watersheds, Master Water Stewards, city groups and others. In addition we house backpack checkout kits and the watershed sandbox on-site for public use.
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	Bush Lake Ikes, Stop Over Salting, River Watch, Master Water Stewards, Metro Blooms, Metro WaterShed Partners, Cities, and Partner Watersheds

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	Measurable Outcome
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..
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	Hosted, led and partnered numerous workshops in 2018 including: No Mow Lawn workshops, salt solutions workshops, smart salting trainings, summer education series, outreach as part of BWSR Clean Water Fund grant, and presentations & field trips with schools.
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	Provide support during educational events and work around Discovery Point (including buckthorn busts and volunteer planting events). Also, used volunteers for clean up day along the north branch of the creek at Valley Park in Hopkins and Adopt-a-Drain, Adopt-a-Dock and master Water Stewards programs.

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	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	4 formal and 1 informal meetings. Involvement in State of the Waters, cost-Share grant program and photo contest review. Working with CAC to expand responsibilities while meeting District goals.
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		Partial		X	Incorporated "Art in Nature" series into 2018 summer education series. Had artists lead events (e.g., tiny boatr making, Ojwe block prints). Need to set up more official program
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	Lake Normandale water quality improvement project, Lake Cornelia UAA update, input on Rule revisions, and State of Waters event.
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 quarterly newsletter, continually update update "what's happening", upcoming events" and "news & announcement" sections of website, social media, and attended community events

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	Measurable Outcome
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	Cost-share grant program
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		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. We look to increase the number of these meetings in the future.
OA-3	Assist cities in implementing climate change adaptation strategies.	Work with local governments to implement climate change adaptation strategies.	M	Partner	X			X	X	Have had little in discussions with municipalities on climate change since climate resiliency grant
OA-4	Identify and/or develop tools to effectively measure life-cycle costs and benefits of District projects.	Identify and/or develop tools to effectively measure life-cycle costs and benefits from District projects.	H	Lead	NA				X	Develop and initiate cost-share BMP inspection tool.

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	Measurable Outcome
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		Partial		X	Watershed-Based Funding (both county and Metro MN River watersheds based). Worked with t Met Council on regional monitoring
OA-6	Assist cities in the development of local water management plans and review plans for consistency with District goals and policies.	Assist cities in development of local water management plans	H	Lead/Partner	X	X			NA	Bloomington, Edina, Hopkins, Minnetonka and Richfield
OA-7	Review Biennially District performance relative to identified goals, planned implementation items, and available resources; revise programs as necessary.	Biannually review the District implementation program relative to current opportunities, emerging issues, and other evolving factors.	H	Lead	NA				X	NA
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.	H	Lead	X	X	X		X	Completed through the annual review of current year workplan, and development of upcoming workplan through budgeting process.
OA-9	Update District's Water Management Plan		H	Lead	NA	X			NA	Amended Plan to incorporate amended Rules.
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 permitting process as well as working with cities on visioning planning process (e.g., Fred Richards and Braemer golf courses).

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	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	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. Also, helped fund the development model snow & ice contract (led by Edina)
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	Hire of Permit Coordinator will help
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		Partial		X	Hire of Permit Coordinator will help--Need to populate tracking spreadsheet
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	Develop and initiate cost-share BMP inspection tool.
Rules and Permitting (RP)										

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	Measurable Outcome
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 143 permits in 2018-- 45 of which triggered stormwater for a reduction of roughly 265 lbs of phosphorus and 82,500 lbs suspended solids. In addition, hired a full-time Permit Coordinator to help process, issue inspected and track permits
RP-2	Review periodically permitting program administration and costs; evaluate opportunities to improve efficiency.	Periodically review costs of administering its permitting program in comparison with fees collected.	H	Lead	NA	X			X	This is annually done through the budgeting process
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	X	X			NA	Amended Rules in 2018 and will evaluate small tweaks in Floodplain Rule in 2019
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 in wetland-related matters in Bloomington and Minnetonka.	H	Lead	X	X			X	Continue current program
Studies (S)										
S-2	Assess increased flood risk due to predicted climate changes.	Assess increased flood risks due to predicted climate changes.	H	Lead/Partner	X		Partial		X	Continued conversation with cities on areas of flood risk (especially as it relates to Atlas-14) and future area prioritization

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	Measurable Outcome
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.	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 to identify areas with high aquifer recharge potential	H	Lead	NA				X	NA
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	NA				X	NA
S-6	Complete update of Use Attainability Analyses for Normandale Lake.	Update Use Attainability Analyses for Normandale Lake.	H	Lead	X	X			NA	Completed as part of Normandale Lake WQ Improvement Study
S-7	Conduct Use Attainability Analyses for Lake Edina.	Conduct Use Attainability Analyses (UAA) for Lake Edina.	H	Lead	X	X			NA	Initiated in 2018 and will complete in early 2019
S-8	Update Use Attainability Analyses for Lake Cornelia (North and South).	Update Use Attainability Analyses for Lake Cornelia (North and South).	H	Lead	X	X			NA	Initiated in 2018 and will complete in early 2019
S-9	Update Use Attainability Analyses for Lake Smetana.	Update Use Attainability Analyses for Lake Smetana	H	Lead	NA				X	NA
S-20	Work with agencies and stakeholders to develop subwatershed-based implementation programs for the North Fork of Nine Mile Creek.	Work with agencies and stakeholders to develop subwatershed-based implementation program for the North Fork of Nine Mile Creek.	H	Lead	NA				X	NA
S-23	Identify and target priority chloride sources to Nine Mile Creek.	Identify and target priority chloride sources to Nine Mile Creek.	H	Lead	NA				X	NA
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	NA				X	NA
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 and 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	2018	Completed	Ongoing	To Do	2019	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		Partial		X	Worked with City of Eden Prairie, TRPD and MNDNR on zebra musselss in Bryant Lake. We should look at developing an overall AIS Strategy in 2019 (similar to that discussed at MAWD 2018).
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 (phase 2) of Discovery Point Landscape Restoration project
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.	H	Lead	NA		Partial		X	In discussions with Hopkins and Minnetonka on Shay Oak SWLRT station area regional SW management treatment plan.
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	Researching potential for stormwater reuse (irrigation) at Braemer Golf Course, had initial conversations with the City of Minnetonka and All Saints Lutheran Church, and through work on the District's BWSR Clean Water Fund grant,
P-6	Establish a wetland bank within the District for District-sponsored projects.	Establish a wetland bank within the District for District-sponsored projects.	H	Lead	NA				X	NA
P-7	Actively participate in the TMDL and WRAPS process for District waterbodies, incorporating UAAs or other District studies where applicable.	Actively participate in the TMDL process for District lakes and streams	H	Lead/Partner	X	X			X	Working with MPCA and others on Lower MN River TMDL and WRAPS

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

Implementation Items		Plan Activity	Priority	NMCWD Role	2018	Completed	Ongoing	To Do	2019	Measureable Outcome
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	X	X			NA	Construction and initial revegetation phases are completed. Possibility to address additional planting in spring depending on plant mortality
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.	Implement recommendations of Normandale Lake UAA.	H	Lead/Partner	X	X			X	Initiated lake drawdown component of Normandale Lake WQ Improvement project
3	Implement recommendations of Lake Cornelia UAA (2010) and/or subsequent studies (see S-8 from Table 6-2), which may include management of curlyleaf 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.	Implement recommendations of Lake Cornelia UAA or WRAPS.	H	Lead/Partner	NA				X	NA
4	Implement structural improvement recommendations from the Pentagon Park/Border Basin Regional Stormwater Management Study.		H	Lead/Partner	NA				X	NA