

MEETING DATE: December 13, 2018

TITLE: Approval of Minneapolis Local Water Management Plan

RES. NUMBER: 18-123

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REVIEWED BY: Administrator Counsel Program Mgr.
 Board Committee Engineer Other

WORKSHOP ACTION:

<input type="checkbox"/> Advance to Board mtg. Consent Agenda.	<input type="checkbox"/> Advance to Board meeting for discussion prior to action.
<input type="checkbox"/> Refer to a future workshop (date): _____	<input type="checkbox"/> Refer to taskforce or committee (date): _____
<input type="checkbox"/> Return to staff for additional work.	<input type="checkbox"/> No further action requested.
<input checked="" type="checkbox"/> Other: Requesting final action December 13, 2018	

PURPOSE or ACTION REQUESTED:

Approval of the City of Minneapolis Local Water Management Plan (LWMP)

PROJECT/PROGRAM LOCATION:

City of Minneapolis (See attached map: Watershed Organization Jurisdiction Boundaries)

PROJECT TIMELINE:

May 18, 2018	Minneapolis LWMP first draft submitted to MCWD
July 17, 2018	MCWD denial letter sent
October 4, 2018	Minneapolis LWMP updated draft submitted to MCWD
November 08, 2018	MCWD provided additional comments on LWMP
Nov. 9 – 21, 2018	MCWD / Minneapolis staff developed coordination plan and response to comments
December 7, 2018	City of Minneapolis authorized submittal of the Minneapolis 2040 Comprehensive Plan, including the Water Resource Management Plan, to the Metropolitan Council pursuant to MN Statutes Section 473.864

PAST BOARD ACTION:

February 23, 2017	Authorization of a Memorandum of Understanding with the City of Minneapolis and the Minneapolis Park and Recreation Board to support integrated planning of the Minnehaha Creek subwatershed within Minneapolis (17-017)
January 11, 2018	Approval and adoption of MCWD Watershed Management Plan for the implementation period 2018-2027 (18-004)

SUMMARY:

Background:

MN Statutes § 103B.235 and MN Rules § 8410.0160 grant watershed districts the authority to review and approve local water management plans (LWMPs). Under this framework, watershed districts can assign responsibilities to local government units (LGUs) for carrying out implementation actions defined in the watershed plan. The LWMP is a required element of the LGU comprehensive land use management plan which LGU's must adopt by the end of 2018.

The Minnehaha Creek Watershed District (MCWD or District) adopted its new Watershed Management Plan (Plan) in January 2018. The Plan is rooted in the District's Balanced Urban Ecology policy (BUE) as the principal strategy to accomplish its mission. The BUE policy recognizes the inter-dependence of the natural and built environment and that both benefit through a holistic planning approach. The BUE policy establishes the guiding principles of focus in areas of highest resource needs, flexibility to respond to emerging opportunities as a result of land use change in real time, and pursuing clean water goals in partnership with our communities.

The Plan establishes the District as a regional water planning agency. The Plan provides rationale for subwatershed-based planning and prioritization by which to focus implementation efforts for the 2018-2027 Plan cycle. The District has prioritized the subwatersheds of Minnehaha Creek, Six Mile Creek-Halsted Bay and Painter Creek based on a combination of resource needs and opportunities for management of some of the State's most prized recreational natural resources of Lake Minnetonka and Minnehaha Creek – including the Minneapolis Chain of Lakes.

In addition to these focused planning and implementation efforts, the District's approach watershed-wide is to remain responsive to opportunities created by local land use change or partner initiatives. The District's responsive approach relies on early and effective coordination by the District's communities to help identify opportunities to integrate plans and investments. As opportunities arise, the District will evaluate them against the resource needs and priorities defined for each subwatershed in the District's Plan and determine the appropriate response. The District has a wide range of services it can mobilize to address resource needs and support partner efforts, including data collection and diagnostics, technical and planning assistance, permitting assistance, education and capacity building, grants, and capital projects.

Integration of land use and water planning is the primary focus of the LWMP requirements set forth in the District's Plan. To effectively integrate the goals of MCWD and its LGUs in a way that maximizes community benefits and effectively leverages public funds, the District has invited a partnership framework with its communities. In addition to the legally required elements of LWMPs, as defined in State statute and rules, the MCWD Plan requires communities to propose a coordination plan which describes how the LGU and MCWD will share information and work together to integrate land use and water planning. Specifically, the purpose of a MCWD/LGU coordination plan is to:

1. Establish a framework to be informed as to current LGU land use and infrastructure planning and enable early coordination of land use and water resources management
2. Foster LGU development regulation that integrates water resource protection before plans are fixed
3. Identify and capitalize on project opportunities for improved water resources outcomes while maximizing other public and private goals

As established in the District's Plan, MCWD will prioritize implementation efforts and resource deployment based on its established priorities and LGU commitment to coordination. This commitment is demonstrated through the coordination plan and its implementation by the LGU.

Minneapolis LWMP Summary:

The City of Minneapolis (City) has submitted its LWMP for MCWD review and approval. District staff reviewed the LWMP and provided detailed comments regarding the goals and requirements of the District's Plan for consideration and incorporation into the LWMP. The City has agreed to revise the October 2018 LWMP to address the District's comments. Final outstanding LWMP edits requested by MCWD, which have been reviewed by City Council and will be made prior to final plan adoption by the City, are noted in Attachment 2.

The City of Minneapolis is approximately 58 square miles located partially within the MCWD and includes three other watershed jurisdictions: Mississippi Watershed Management Organization, Bassett Creek Watershed Management Commission, and Shingle Creek Watershed Management Commission.

Minneapolis is part of the Minnehaha Creek subwatershed. Major water bodies located within the City of Minneapolis include Cedar Lake, Lake of the Isles, Lake Bde Maka Ska, Lake Harriet, Lake Hiawatha, Lake Nokomis, and Minnehaha Creek. A number of these water bodies are listed on the State's Impaired Waters List. Cedar Lake, Lake Hiawatha, and Lake Nokomis are impaired for excess nutrients. Brownie Lake, Powderhorn Lake, and Minnehaha Creek are impaired for chloride. Minnehaha Creek is also impaired for bacteria, dissolved oxygen, fish bioassessments, and aquatic macroinvertebrate bioassessments.

Water quality and flooding issues within the Minnehaha Creek subwatershed and within Minneapolis are complex in nature and require a systems understanding and multijurisdictional effort to address. For this reason, the MCWD Plan places emphasis on the Minnehaha Creek subwatershed as an area where we will focus our implementation efforts pursuant to the guiding principles defined within the Balanced Urban Ecology Policy.

The City of Minneapolis has a large and complex stormwater drainage system. In 2018, the City completed a comprehensive review and update of the City's delineation of the pipeshed areas for each of 419 stormwater outfalls which discharge stormwater to 22 lakes, four streams, and the Mississippi River. A city-wide model of the stormwater drainage system completed in 2017 is currently being used to assess capacity, discharge rates and volumes generated in each of the 406 unique stormwater pipeshed areas identified within the LWMP. These models will be used to further identify specific capacity issues at a local level on the landscape, prioritize flood improvements, and evaluate water quality improvement opportunities. This work is identified within the City's Water Resource Management Implementation Program. Flood mitigation and water quality improvement projects are specific areas of coordination between MCWD and the City of Minneapolis. Current efforts include the Southwest Harriet Flood Mitigation study.

As a required element of the LWMP, the City has developed a MCWD Coordination Plan which incorporates the current collaborative planning effort established through the 2017 Memorandum of Understanding between the City, Minneapolis Park and Recreation Board, and the MCWD. The proposed Coordination Plan expands upon that collaboration to include the following:

- Quarterly meetings – Consistent with the MOU, quarterly planning team meetings to ensure on-going coordinated progress towards implementation of the initiatives identified within the Coordination Plan and generally to identify multi-jurisdictional initiatives to achieve complex water resource goals including:
 - Flood reduction
 - Pollutant load reductions
 - Reducing discharge volumes and peak flows within Minnehaha Creek
 - Eliminating combined sewer overflows and reducing inflow to the sanitary sewer system

- Regulatory coordination through annual meetings and on-going communication which includes specific staff notifications of redevelopment activities at the time of application
- Capital improvement program planning - specific opportunities include:
 - FEMA flood repairs to Minnehaha Creek
 - Minnehaha Parkway Regional Trail Master Plan
 - Hiawatha Golf Course
 - Southwest Harriet Flood Mitigation
 - Outfall repairs along Minnehaha Creek
 - Minnehaha Creek Bacterial Source Identification Study
- Public and private project coordination – A detailed description of the City’s development review process is provided including how projects are referred to MCWD. Guidance policy pursuant to the Minneapolis 2040 Comprehensive Plan related to water resources that guide development review and implementation activities, including coordination opportunities with MCWD, are also provided in this section.

The City has not proposed to exercise sole water resource regulatory authority and concurs that the MCWD will continue to apply its erosion control, stormwater management, floodplain alteration and wetland protection rules, as well as other MCWD rules, within City boundaries. The LWMP states that the City elects for the MCWD to retain Local Government Unit status for the Wetland Conservation Act.

The City’s coordination plan is attached, and the full LWMP can be found at:

http://www.minneapolismn.gov/publicworks/stormwater/stormwater_local-surface

Recommendation:

Staff finds that with the text amendments listed in Attachment 2 (attached), the LWMP meets the requirements of Minnesota Statutes §103B.235, Minnesota Rules 8410.0160, and the MCWD Watershed Management Plan and recommends approval, conditioned on the incorporation of those amendments.

Attachments:

1. Minneapolis Coordination Plan
2. October 2018 Minneapolis Water Resource Management Plan Text Amendments
3. Minneapolis Watershed Organization Jurisdiction Boundaries Map

RESOLUTION

RESOLUTION NUMBER: 18-123

TITLE: Approval of Minneapolis Local Water Management Plan

WHEREAS, on January 11, 2018, the MCWD adopted its Watershed Management Plan (WMP) pursuant to Minnesota Statutes §103B.231 and Minnesota Rules 8410, which describes how the MCWD will fulfill its responsibilities under the Metropolitan Surface Water Management Act for implementation over the period 2018-2027, and which is guided by the organizational strategy and approach defined through the Balanced Urban Ecology policy; and

WHEREAS, the Balanced Urban Ecology policy prioritizes partnership with the land use community to integrate policy, planning, and implementation in order to leverage the value created when built and natural systems are in harmony; and

WHEREAS, the Balanced Urban Ecology policy rests on the guiding principles of focusing in areas of highest resource needs, being flexible to respond to opportunities that arise through land use changes, and working in partnership to achieve the MCWD's goals; and

WHEREAS, on watershed district adoption of its WMP, cities and towns (local government units or LGUs) within the watershed must prepare local water management plans (LWMPs) that meet content requirements of Minnesota Statutes §103B.235, Minnesota Rules 8410.0160 and the WMP;

WHEREAS, the LWMP is a primary tool to provide a framework for increased early coordination of land use and water planning through the coordination plan that is a required component of the LWMP and the content of which is described in the WMP, Appendix A; and

WHEREAS, the MCWD will prioritize implementation efforts and resource deployment based on its established priorities and LGU commitment to coordination as demonstrated through the coordination plan and its implementation by the LGU; and

WHEREAS, the City of Minneapolis (City) has revised its LWMP and submitted it to the MCWD for review and approval; and

WHEREAS, MCWD staff reviewed the draft LWMP, provided detailed written comments on the LWMP, and thereafter worked with City staff to achieve the development of a proposed LWMP for consideration by the MCWD Board of Managers; and

WHEREAS, the Metropolitan Council has reviewed the LWMP and provided its written comments to the MCWD in a letter on June 29, 2018, and the MCWD has fully considered the comments; and

WHEREAS, the LWMP states that the City does not choose to exercise sole regulatory authority but, instead, wishes that the MCWD continue to require permits for the use and development of land, and otherwise exercise its regulatory authority, within the meaning of Minnesota Statutes §103B.211, subd. 1(a)(3); and

WHEREAS, the LWMP states that the City elects for the District to continue to act as the Local Government Unit responsible to implement the Minnesota Wetland Conservation Act; and

WHEREAS, the October 2018 Minneapolis Water Resource Management Plan Text Amendments contains a coordination plan that meets the standards set forth in the MCWD WMP, Appendix A; and

WHEREAS, the City has supplied a list of final amendments to the LWMP, attached to this resolution, which it will incorporate into the final LWMP;

WHEREAS, the MCWD has determined that the final LWMP will meet the requirements of Minnesota Statutes § 103B.235, Minnesota Rules 8410.0160, and is consistent with the MCWD WMP including Appendix A, "Local Water Plan Requirements";

NOW, THEREFORE, BE IT RESOLVED, that the MCWD hereby approves the City of Minneapolis Local Surface Water Management Plan, conditioned on incorporation of the final amendments;

BE IT FURTHER RESOLVED, that the Board approves the associated coordination plan and adopts it on behalf of the MCWD;

BE IT FINALLY RESOLVED that the City is to adopt and implement its LWMP within 120 days, and to notify the MCWD within 30 days thereafter that it has done so.

Resolution Number 18-123 was moved by Manager _____, seconded by Manager _____.
Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: December 13, 2018.

Secretary Date: _____.

**DRAFT for discussion purposes only and subject to Board approval and the availability of funds.
Resolutions are not final until approved by the Board and signed by the Board Secretary.**

Appendix K - Minnehaha Creek Watershed District Coordination Plan

Coordination Plan

The Minnehaha Creek Watershed District (MCWD) Watershed Management Plan (2018) indicates a desire to coordinate subwatershed planning with partners and align investments to improve water resources as development and redevelopment occurs. The City and MCWD have a history of partnership. The past successes have largely been the result of strong working relationships that promote regular conversations.

In 2017, the City, the Minneapolis Park and Recreation Board, and Minnehaha Creek Watershed District initiated a Memorandum of Understanding (MOU) to share responsibility for improving environmental quality within the Minnehaha Creek Subwatershed of the City of Minneapolis and recognize the benefit of working in close partnership at the intersection of the vision and mission of the respective organizations.

The goals of this MOU are to work together to coordinate and align policies, plans, and capital improvements to improve the natural and built environments within the Minnehaha Creek subwatershed in the City of Minneapolis, and to work together to identify multi-jurisdictional initiatives to achieve complex water resource goals such as:

- Reducing flooding
- Achieving regional pollutant load reductions identified in TMDLs
- Reducing discharge volumes to, and peak flows within Minnehaha Creek, and
- Eliminating combined sewer overflows and reducing inflow and infiltration to the sanitary sewer

As articulated in the MOU the City and the MCWD are committed to working together to integrate natural resource goals across disciplines to intersect with planned recreation improvements, infrastructure improvements, development, etc., to reduce cost and maximize public benefit.

The City and the MCWD will achieve the desired integration through the use of a predictable and repeatable annual work plan, identifying opportunities to establish shared agency priorities that can be subsequently incorporated into budgets, capital improvement plans, policy development, master planning efforts, and other agency-specific plans and initiatives.

These shared agency priorities are intended to benefit from collaborative planning, cost sharing, and the development of investment strategies that will attract additional outside funding, through the coordinated pursuit of grant funds, legislation, and other partnerships.

To better maintain awareness of needs and opportunities and to implement programs and projects that meet the goals of the MCWD and the City the partners will implement the following integrated planning process:

- The parties commit to work together by designating staff representatives to a Planning Team who are well informed about all their respective agency goals, plans, and budgets.

- The Planning Team will collaborate at least quarterly to identify opportunities for shared agency priorities, and be responsible for jointly recommending to policy makers the alignment of policies, long range planning efforts, master plans, feasibility studies, capital improvement plans, and the operational and project budgets to support them.
- The City of Minneapolis prepares budget requests for the Capital Long Range Improvement Committee (CLIC) in the first quarter of each calendar year to establish capital project and program priorities for five years.
- The MCWD begins budget forecasting in the first quarter of each calendar year and produces a draft 2-3 year capital improvement plan, which it distributes for review, in June of each calendar year.
- On or before March of each year the Planning Team will produce a draft 2-5 year Partnership Plan and Investment Strategy. The Plan will inform and be informed by the CLIC process and the development of the MCWD capital improvement plan. The Plan will identify opportunities for integrating planning, policy, and capital project initiatives across agencies. The Plan will include, but not necessarily be limited to:
 - A brief initiative/project description;
 - Estimated upfront costs, capital costs and long-term operation and maintenance costs;
 - Potential cost sharing opportunities across the agencies;
 - Supporting outside funding and financing (grants, appropriations, bonding, etc); and
 - Timelines for implementation including quarterly milestones
- The parties agree that this Partnership Plan is intended as a planning guide for coordinated project planning and implementation, but does not formally obligate any party to implementation of any specific project; such commitments are to be addressed in specific project agreements.
- On or before June 30 each year, the partners will present the Plan for review and a resolution of support by each party's governing board or council. For the City the CLIC process and development and presentation of the annual budget will satisfy this provision. The Plan will inform the respective agencies' budget priorities.
- Following review and support of the Plan by each agency, the Planning Team will jointly develop a project specific implementation plan to be memorialized into a project specific agreement. Project specific implementation plans will detail roles and responsibilities for further feasibility studies, design, bidding, construction management and oversight, and long-term operations and maintenance.

In addition, the City will:

- Transmit the annual NPDES MS4 report to the MCWD
- Notify the MCWD of:
 - Institution and completion of small area plans and other focused development or redevelopment planning within the MCWD.
 - Significant alterations within the City's MS4 system.
 - Partnership opportunities for public communications and education.

Coordination Plan Meeting Framework

Consistent with the MOU, quarterly Planning Team meetings will occur. To ensure coordinated progress one of the quarterly Planning Team meetings will be dedicated to annual reporting on progress towards WRMP implementation. The meeting will include the City's Director of Surface Water and Sewers, Water Resources Regulatory Coordinator, Project Engineer responsible for development/redevelopment reviews, Project Managers for specific projects of interest, CPED Director of Long Range Planning or their designee, and the Minneapolis Park and Recreation Board's Director of Environmental Management. The City will accommodate reasonable requests from the MCWD for additional meetings and communication. Specific communication plans and schedules will be made for discrete projects or programs that arise that need more detailed accounting. The City's Water Resources Regulatory Coordinator will facilitate communication among appropriate parties based on the scope of the item.

Opportunities for Regulatory Coordination

The City is eager to continue and expand cooperative work with MCWD in the following areas:

- CIP and budget planning: The City's process for this is described in more detail in Section 6 of the WRMP.
- Private development and redevelopment: The City will share known upcoming projects at the annual meeting. The City will inform permit applicants of the potential need for a MCWD permit and, when one is required, will not issue a City permit until the MCWD permit application has been made.
- Public development and redevelopment: Because of our strong working relationship with the MCWD, the City is continually seeking opportunities for coordination. This occurs through informal conversations as opportunities arise. Any future efforts including small area plans, rezoning studies, resiliency plans, or other planning activity will be shared at the annual meeting.
- Operation and maintenance: The City will inform the MCWD of illicit discharges in a timely manner and share a summary of the illicit discharge detection and elimination program at each annual meeting. Additionally, the City will share its MS4 inspection results through its NPDES MS4 Annual Report and at each annual meeting. If the MCWD discovers an illicit discharge within the City of Minneapolis they will notify the city in a timely manner so action can be taken to address the issue.
- Addition of link to Minnehaha Creek Watershed District permitting website and/or handouts explaining District permitting to the development services website with a map of watersheds in Minneapolis.
- City Planners will inform applicants at the time of PDR application that permits may be required from the District and provide them with the necessary information to contact District staff. District staff will be notified when development/redevelopment applications are distributed for staff review and comment.
- District staff will be notified when PW-SWS staff has approved a development/redevelopment Plan

- Existing and new City Planners assigned to areas within the District will receive guidance on the role of the District in development review and the desire of the District to work in partnership with private developers to achieve greater natural resource benefits.

Capital Improvement Program Planning

The City will work closely with the MCWD to identify and implement water resource related partnership projects. Some upcoming opportunities for partnership include:

- FEMA Flood Repairs to Minnehaha Creek – The Minnehaha Creek Watershed District (MCWD) has been awarded monies from the Federal Emergency Management Association (FEMA) to repair sections of streambank on Minnehaha Creek, damaged during 2014 flooding. This work intersects with the clean water and recreation goals of the Minneapolis Park and Recreation Board, that has planned investments in trail improvements within areas of identified damage to Minnehaha Creek; is undertaking an ecosystems services plan for MPRB land; and has interest in developing a shared vision for the Minnehaha Creek corridor through the City of Minneapolis (discussed below). This work also intersects with the clean water and infrastructure management goals of the City of Minneapolis that has planned storm sewer improvements within the areas of identified damage to Minnehaha Creek.

Minnehaha Parkway Regional Trail Master Plan – The master plan will be prepared between 2018-2019 in a three-agency collaboration between Minneapolis Park and Recreation Board, the City, and MCWD. This master plan will set the vision for the Minnehaha Parkway Regional Trail which encompasses 253 acres with 5.3 miles of parkway, and includes most of the corridor along Minnehaha Creek. The MCWD has also been awarded monies from the Clean Water Legacy Fund to integrate the planning of FEMA damage repair (noted above) with opportunities to address water quality issues associated with stormwater discharges into Minnehaha Creek. Together these efforts will improve the ecological integrity of the Minnehaha Creek corridor and reduce pollutant loading to Lake Hiawatha, an Impaired Water. The parties have a mutual interest in collaboratively planning this work to identify opportunities for the intersection of streambank improvements, stormwater management improvements, infrastructure improvements, recreation investments, ecosystems and corridor plans. Together these three agencies will prepare a master plan that will set a vision and priorities for future park improvements and management along the Minnehaha Creek corridor for the next 20-30 years

- Hiawatha Golf Course – The Minneapolis Park & Recreation Board is working with a Community Advisory Committee to identify potential land use changes that support the reduced groundwater pumping scenario endorsed by the MPRB commissioners. Future changes will prioritize methods of addressing TMDL levels at Lake Hiawatha, water and habitat quality at Lake Hiawatha and Minnehaha Creek, localized flooding, local stormwater infrastructure function and capacity, and enhanced or expanded public recreation opportunities.

- Southwest Harriet Flood Mitigation in the vicinity of Fulton, Linden Hills, and Lynnhurst neighborhoods of the City – there is a need to integrate planning and implementation actions to address localized flooding south west of Lake Harriet. The City completed the feasibility study in August 2018 in coordination with MCWD and the MPRB. Future selection of individual projects to mitigate flooding and improve water quality will be done recognizing programmed neighborhood park improvements and aligning with MCWD efforts to minimize pollutants and minimize peak flows to connected downstream waters.
- Outfall repair along Minnehaha Creek – High priority reaches have been identified along Minnehaha Creek where stream restoration could improve streambank stability. Many of these reaches contain a number of storm sewer outfalls that require repair or improvement. There are opportunities to partner with planned transportation and park restoration projects to repair storm sewer outfalls, reduce erosion, improve the quality of the riparian area through bioengineering and native vegetation plantings, and improve fish and macroinvertebrate habitat.
- Minnehaha Creek Bacterial Source Identification Study – Due to elevated levels of fecal coliform bacteria and exceedances of the *E. coli* water quality standards, the entire length of Minnehaha Creek is listed as impaired. The City has initiated a bacterial source identification study Creek to identify the sources of *E. Coli* within the City. To date this study has determined what the major sources of *E. coli* are, if they are human sources, if bacterial regrowth in the creek and storm sewer system contributes to *E. coli* levels, and if ground water is a source. The next steps of this study are to develop, study, and begin to implement bacteria management BMPs with the assistance of the MCWD and MPRB.

Public and Private Project Coordination

The Minneapolis Development Review (MDR) is a service center administered by Community Planning and Economic Development (CPED). This service center receives private development and redevelopment project proposals and carries out the preliminary development review (PDR) process. Most development and redevelopment project proposals are routed through the PDR process. This process precedes issuance of building and other types of permits.

Public Works Surface Water and Sewers (PW-SWS) staff is involved in the PDR process to review sanitary sewer connections to public infrastructure, site drainage, and adherence to the City's Stormwater Management Ordinance. PW-SWS staff refer applicants to the MCWD for all development and redevelopment projects within the watershed. The MCWD will carry out its own review and issue and enforce permits or approvals.

CPED staff review development and redevelopment proposals with the guidance of the City's Comprehensive Plan and Zoning Ordinances. The City of Minneapolis 2040 Comprehensive Plan includes the policies, principals, and goals that guide development across the city. Minneapolis 2040 has 17

policies that directly address Environmental Systems within the City. These policies related to water resource management include:

- Manage the city’s surface waters, groundwater, stormwater, wastewater, and drinking water equitably and sustainably, while minimizing the adverse impacts of climate change.
- Manage natural areas in and around surface waters, as well as stormwater ponds and other stormwater treatment facilities, as areas supportive of aquatic and terrestrial ecosystems.
- Integrate water resource management into public and private projects in order to benefit natural systems.
- Ensure city infrastructure and residents are resilient to the shocks and stresses of climate change.
- Establish environmental justice frameworks for policy and regulation.
- Protect and improve soil health to sustain and promote plant, animal, and human health.
- Improve the tree canopy and urban forest
- Require landscaping in conjunction with new development and that complements its surroundings and enhances the built environment.
- Improve the ecological functions of the natural environment in the urban context through planning, regulation, and cooperation.

Policies guiding management of environmental systems and impacts, including city operations, water resources, waste management and recycling, air quality, brownfields cleanup, and energy are implemented on a short- to long-term planning schedule. Implementation activities and opportunities to coordinate with MCWD are noted below:

Short-term	Water resources – Continue to fund and implement programs per the management plan to maintain and improve sanitary sewer and stormwater infrastructure, and protect water resources in the city.	<ul style="list-style-type: none"> • Public Works Department • Projects within the MCWD watershed will be discussed by Planning team and progress reviewed at quarterly meetings. • City and MCWD resiliency planning will be discussed by Planning team and evaluated at annual meetings.
Short-term	Service provision – Continue to provide high quality city services to the community, including but not limited to public safety, water, sanitation, and health.	<ul style="list-style-type: none"> • Community Planning and Economic Development (CPED) • Public Works Department

		<ul style="list-style-type: none"> • Regulatory Services • Health Department • Fire Department • Police Department • Communications Department • Coordinate with MCWD to make short-term infrastructure repairs to outfalls and provide O&M to BMPs
Short-term	<p>Technical assistance, grant, and loan programs – Continue to use and expand the portfolio of tools and programs linked to economic competitiveness goals such as grants for brownfield cleanups.</p>	<ul style="list-style-type: none"> • CPED - Economic Development • PW will coordinate with MCWD if/when projects may be eligible for funding by MCWD to improve water quality or meet other shared goals
Long-term	<p>Environmental impacts of transportation – The City will work to encourage bicycle and transit use to reduce environmental impacts created from single-occupancy trips. The progress made on achieving climate action goals in the comprehensive plan will be tracked and measured as part of City climate goals.</p>	<ul style="list-style-type: none"> • Community Planning and Economic Development (CPED) • Public Works Department • Health Department • City Coordinator’s Office • Coordinate with MCWD on transportation projects that may have an impact on water quality or may offer an opportunity for water quality improvement

Small Area Plans outline a long-range vision for land use and development in very specific areas of the City. A list of completed Small Area Plans is available in the Minneapolis 2040 plan at <https://minneapolis2040.com/small-area-plans/>.

Information on approved plans including the Minneapolis Plan for Sustainable Growth, Citywide and Multi-Sector Plans, and Rezoning Studies along with maps of current planning and development activities and all current planning applications can be found at:

<http://www.ci.minneapolis.mn.us/cped/planning/index.htm>

For projects that propose changes to the City's publicly-owned infrastructure (streets, lights, public utilities, etc.), the Public Works Department coordinates the Capital Projects Task Force (CPTF) process of review for compliance with the City's requirements for working within the public right-of-way. PW-SWS staff will refer City Project Managers to MCWD for all public projects within the watershed. The MCWD will carry out its own review and issue and enforce permits or approvals.

PW-SWS staff will communicate with MCWD at quarterly meetings about development and redevelopment projects and public infrastructure projects that span jurisdictions and include stormwater BMPs.

October 2018 Minneapolis Water Resource Management Plan Text Amendments

The City of Minneapolis Water Resource Management Plan will be edited prior to final adoption to complete the text edits described below, provide working web links, and reference the most recently adopted MCWD Watershed Management Plan and Plan goals in all locations.

Amendment	Page	Amended Text
1	4-8	Figure 4.4 shows the stormwater drain system (note that Figure 4.4 does not include SMPs that are owned by other public agencies or are privately owned), and Figure 4.5 shows the location of City owned SMPs. <u>The city also maintains a geodatabase of the detailed stormwater system, including drainage systems and stormwater management facilities. The City's asset management program tracks infrastructure condition and maintenance needs.</u>
2	4-46	A detailed breakdown of these responsibilities is presented in Table 4.13. <u>Stormwater management for all municipal property and facilities is addressed in MCM 6 of the City's Stormwater Management Program.</u>
3	5-19	The City's wetland review also includes review for compliance with the BCWMC buffer requirements <u>for all wetlands on a development site. The City's wetland review process and wetland management requirements can be found in the City's Stormwater and Sanitary Sewer Guide.</u>
4	6-1	The intent of this section of the Minneapolis Water Resource Management Plan (WRMP) is to describe the City's structure and process for ongoing management of and changes to the City's water resource management projects and programs. <u>Transportation infrastructure planning is addressed in the City's Transportation Action Plan. Park, recreation, and conservation land acquisition and management is the purview of the MPRB.</u>
5	Appendix K	A Coordination Plan between the City of Minneapolis and the Minnehaha Creek Watershed District has been drafted to outline coordination procedures and opportunities between the two organizations.

Figure 2.1 – Watershed Organization Jurisdictional Boundaries in the City of Minneapolis

