Minnehaha Creek Watershed District *REQUEST FOR BOARD ACTION*

MEETING DATE: June 25, 2019

TITLE: Approval of Tonka Bay Local Water Management Plan

RES. NUMBER: 19-067

PREPARED BY: Becky Christopher

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

WORKSHOP ACTION:

☐ Advance to Board mtg. Consent Agenda. ☐ Advance to Board meeting for discussion prior to action.

☐ Refer to a future workshop (date):_____ ☐ Refer to taskforce or committee (date):_____

☐ Return to staff for additional work. ☐ No further action requested.

☒ Other: Requesting final action on June 25, 2019

PURPOSE or ACTION REQUESTED:
Approval of the City of Tonka Bay Local Water Management Plan

PROJECT/PROGRAM LOCATION:
City of Tonka Bay

PROJECT TIMELINE:

May 31, 2018	Tonka Bay LWMP first draft submitted to MCWD
July 27, 2018	MCWD comments and denial letter sent
December 5, 2018	Tonka Bay LWMP revised draft submitted to MCWD
January 15, 2019	MCWD comments sent
May 7, 2019	Tonka Bay LWMP revised draft submitted to MCWD
June 13, 2019	MCWD comments sent
June 19, 2019	Tonka Bay LWMP final draft submitted to MCWD

PROJECT/PROGRAM COST:
N/A

PAST BOARD ACTION:

October 1, 2009	MCWD approval of Tonka Bay local water management plan (09-101) and associated memorandum of understanding (09-102)
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 were required to 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-Jennings Bay 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.

Tonka Bay LWMP Summary:
The City of Tonka Bay (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 of Tonka Bay occupies approximately 1 square mile within the Lake Minnetonka subwatershed. The City drains to Lafayette Bay, Upper Lake, Lower Lake, and Gideon Bay, none of which are impaired (with the exception of mercury). The primary management strategies identified for this area in the District's Plan are protection through regulation, promotion of shoreline best management practices to improve ecological integrity, and implementation of opportunity-based stormwater management projects.

The City is considered to be fully developed. There are no plans for new development, though there is potential for additional residential or mixed use redevelopment in the City. The City will continue to look for opportunities to add or improve stormwater treatment using City-owned parcels, specifically parks and open space, as the budget allows. The City will also explore opportunities to implement stormwater treatment in coordination with street reconstruction projects. Additional implementation priorities identified by the City for this plan cycle include street sweeping, adopting a Best Management Practices Guide, educating residents about the phosphorus fertilizer ban, and reviewing and improving road salt application practices.

As a required element of the LWMP, the City has developed a MCWD-City Coordination Plan which serves as a framework to support ongoing communication and promote value-added collaboration between the City and MCWD. In its coordination plan, the City has committed to:

- Annual Meeting - Meet annually with MCWD to review capital improvement plans, MS4 reports and activities from the previous year, and opportunities for early coordination and review of land use change applications and regulatory coordination.
- Land Use Planning - Include the MCWD early on in potential land use changes and redevelopment.
- Regulatory Coordination - Route request for land use approvals to the District at concept plan phase in effort to maximize water resources benefits and streamline regulatory processes. Require documentation of required MCWD permits in advance of issuing applicable City permits.
- Outreach and Education - Help promote MCWD education workshops and events to private homeowners and developers. Coordinate with the MCWD on educational efforts when possible to avoid duplicating efforts.
- Funding - The City seeks support from the MCWD in terms of grant funding for water quality projects and requests that MCWD staff continue to provide information about upcoming grants and other funding opportunities internal and external to the MCWD.
- Data Sharing - City staff will coordinate with MCWD staff to share any new or relevant data (e.g. monitoring, studies) on an annual basis to ensure consistency.

The City has not proposed to acquire implementation authority for any MCWD water resource regulation and has proposed that the MCWD retain Local Government Unit status for the Wetland Conservation Act.

Recommendation:

Staff has verified that the LWMP meets the requirements of Minnesota Statutes §103B.235, Minnesota Rules 8410.0160, and the MCWD Watershed Management Plan and recommends approval.

Attachments:
1. Tonka Bay Map
2. Tonka Bay Coordination Plan
3. Tonka Bay LWMP (via website)

RESOLUTION

RESOLUTION NUMBER: 19-067

TITLE: Approval of Tonka Bay 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; and

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 Tonka Bay (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 January 11, 2019, 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 LWMP contains a coordination plan that meets the standards set forth in the MCWD WMP, Appendix A; and

WHEREAS, the MCWD has determined that the final revised LWMP meets 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 Tonka Bay Local Water Management Plan; and

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

BE IT FINALY 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 19-067 was moved by Manager _____, seconded by Manager _____.
Motion to adopt the resolution ___ ayes, ___ nays, ___abstentions. Date:_____.

_____ Date: _____.
Secretary

Figure 24 - Stormwater System

Lafayette Bay

Minnetonka-Upper Lake

Minnetonka-Lower Lake

Gideon Bay

19

Wetland-012

Wetland-010

Wetland-009

Wetland-008

Wetland-007

Wetland-006

Wetland-004

Wetland-003

Wetland-001

Wetland-002

Wetland-011

Wetland-005

Pond-001 (Private)

Pond-002 (Private)

Pond-003 (Private)

Pond-004 (Private)

MS4 Outfalls
Storm Sewer
Subwatersheds
City Boundary
Pond
Wetland
Private Pond

N

0 1,000 Feet

1 inch = 750 feet

Tonka Bay

wsb

Document Path: K:\0133\14-000\GIS\Working\Water Resources.mxd Date: 5/1/2019

7. MINNEHAHA CREEK WATERSHED COORDINATION PLAN

7.1 Background

The Minnehaha Creek Watershed District (MCWD/District) Watershed Management Plan (WMP/Plan) focuses on partnership with the land use community and incorporates a subwatershed focus to address areas of significant resources needs with a level of complexity that requires sustained effort and coordination across multiple partners. While operating on a subwatershed scale, focused within the priority areas indicated in its WMP, the MCWD is remaining responsive to its communities District-wide by providing technical resources, regulatory coordination, and in some cases, funding. MCWD partnership and level of response is driven by early coordination of land use planning.

As part of the development of the District's Plan, communities provided information as to local goals, plans, and priorities. This information was used to broadly characterize opportunities and to inform the development of District implementation plans. The City of Tonka Bay, within the Lake Minnetonka Subwatershed, understands the importance of protecting Lake Minnetonka. Within the City, the WMP has identified water resource issues of excess nutrients. Strategies identified to address these issues and drivers include stormwater management, restoration of upstream water bodies and others. The City of Tonka Bay recognizes that implementation of these strategies may expand outside City boundaries and will require a partnership-driven approach with the MCWD and neighboring Cities. It is the intent of this Coordination Plan to provide a systematic approach to early coordination between the City of Tonka Bay and the MCWD to facilitate and maximize water resources implementation priorities together.

7.2 Purpose

The Minnehaha Creek Watershed District's (MCWD) approach to water resource planning recognizes the environmental, social, and economic value created when built and natural systems work in harmony. Through its WMP the MCWD emphasizes early coordination of land use and water resources planning with Cities to integrate water resources goals with other public and private goals to add this broader value and quality of life to the community. To maintain awareness of needs and opportunities to implement programs and projects that reflect the cooperation of other public and private partners, align investments, and secure a combined set of District, City, and partner goals, the MCWD requests that cities establish a coordination plan as part of the Local Water Management Plan that the City and MCWD can implement at a staff level. Improving coordination between land use planning at the City and watershed planning at the MCWD at the conceptual level planning phase will result in better projects that meet agency goals and are a more efficient use of public funds. Early coordination and collaboration between entities is the key to maximizing shared water resource goals and community goals for private redevelopment and public capital improvements. Through this coordination, it is the intent of the City to efficiently manage water quality concerns and maximize the asset value of the City's natural resources in the future.

7.3 Coordination

The following is a coordination plan, which will be adjusted and expanded as deemed appropriate by the City and MCWD during project implementation. It is anticipated that the City Administrator and Public Works Director will be the primary contacts for the coordination plan.

1. Annual meeting – City and MCWD staff will meet during the first quarter of each year to review the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer Systems (MS4) reports and activity from the previous year. Staff will also discuss draft Capital Improvement Plans (CIP) for each organization for the upcoming year. Opportunities for early coordination and review of land use change applications and regulatory coordination will also be reviewed to identify areas of collaboration.

2. Land Use Planning –Through on-going coordination of land use planning and changes, the City and MCWD will adaptively evaluate project opportunities and assess them against the established goals the partnership. Because there is little land left for development, the City expects changes in land use to be driven by redevelopment and infill development. The City will include the MCWD early on in potential land use changes and redevelopment projects so the MCWD can be value added to projects. Specific land use changes can be found in the Land Use Chapter of the 2040 Comprehensive Plan.

3. Regulatory coordination – The City of Tonka Bay staff and consultants will endeavor to continue to route request for land use approvals including but not limited to, subdivisions, site plan approvals, WCA applications, infrastructure improvements, and park improvements to the District at concept plan phase in effort to maximize water resources benefits and streamline regulatory processes. Specific areas of regulatory coordination include the following:

    a. Pre-application meetings and permit reviews coordinated with MCWD early in the planning process.
    b. City assistance to support MCWD in construction site inspections and compliance
    c. MCWD will keep the City appraised of water resource violations and expectations for compliance.
    d. The City will require documentation of required MCWD permits in advance of issuing applicable City permits. Approved MCWD permits will be stored with other project documentation for future reference.
    e. City road, infrastructure, facilities and land improvements that require MCWD permits will be coordinated as part of the annual meeting and otherwise early in the CIP process so that the regulatory process may be efficient and integrated water and natural resource improvements may be explored.
    f. The primary person responsible for regulatory coordination at the City of Tonka Bay is the City Administrator and the Public Works Director and the Permitting Program Manager at MCWD.

4. Public Outreach and Education – The City will continue to distribute a newsletter and post on the City website to spread awareness of stormwater related issues. The City will help promote the MCWD's educational workshop and events to private homeowners and developers. The MCWD's educational workshops cover topics such as winter maintenance training, installing turf alternatives, and informational sessions on the Master Water Steward program. The City will coordinate with the MCWD on other educational efforts when possible to avoid duplicating efforts.

5. The City understands that the process to align investments begins at the concept stage of project development and recognizes that in addition to a future competitive grant program, the MCWD may offer technical resources and planning assistance to assist the City in aligning public and private investments providing value to its residents and the environment.

6. Funding – The City seeks support from the MCWD in terms of grant funding for water quality projects. The City requests that MCWD staff continue to provide information about upcoming grants and other funding opportunities internal and external to the MCWD.

7. Communication – The primary contact person responsible for implementation of the coordination plan is the City Administrator or Public Works Director at the City of Tonka Bay and the Policy Planning Manager at the MCWD.

8. Data Sharing – City staff will coordinate with MCWD staff to share any new or relevant data on an annual basis to ensure consistency. This data could be related to any newly completed studies water quality monitoring, or Best Management Practice (BMP) performance monitoring, among other things. The City would also request that MCWD share their data as well related to those items listed above.

Chapter 11: Local Surface Water Management

Chapter 11 Sections

Figures

Tables

CHAPTER 11: LOCAL SURFACE WATER MANAGEMENT PLAN

INTRODUCTION

The Local Surface Water Management Plan (SWMP) serves as a planning document to guide the City of Tonka Bay in managing water resources. The SWMP meets the requirements of Minnesota Administrative Rules 8410. All of Tonka Bay is located within the Minnehaha Creek Watershed District (MCWD). Minnesota State Law and the MCWD Watershed Management Plan dated January, 2018, allow the City of Tonka Bay to incorporate the MCWD's Lake Minnetonka Subwatershed Inventory by reference to develop the subwatershed implementation plans.

The Watershed Management Plan of the Minnehaha Creek Watershed District is included in this chapter of Tonka Bay's Comprehensive Plan by reference. The City of Tonka Bay authorizes the MCWD to continue to apply all of its permitting rules and regulations in the City of Tonka Bay including but not limited to: Erosion Control, Floodplain Alteration, Wetland Protection, Dredging, Shoreline and Streambank Stabilization, Waterbody Crossings and Structures, Stormwater Management, Sandblanket Installation, Enforcement, Variances and Exceptions, Fees, and Financial Assurances. Additionally, the City of Tonka Bay authorizes the MCWD to be the "local unit of government" responsible for implementing the Minnesota Wetlands Conservation Act within the City of Tonka Bay.

REGULATORY REQUIREMENTS

In 1982, the Minnesota Legislature adopted The Metropolitan Surface Water Management Act requiring all watersheds within the Twin Cities seven county metropolitan area to be incorporated into Watershed Districts and Watershed Management Organizations and the preparation and adoption of watershed management plans by each. The Act also requires that Local Governmental Units prepare Local Water Management Plans which include the official controls and capital improvements necessary to bring each local surface water management into conformance with its respective Watershed District or WMO plan.

The City of Tonka Bay is located within the Minnehaha Creek Watershed District and also within the Lake Minnetonka sub-watershed basin. The City of Tonka Bay LWMP is intended to meet the requirements of the following regulatory documents:

1. Minnehaha Creek Watershed District (MCWD) "Watershed Management Plan" and "Permitting Rules and Regulations";
2. Metropolitan Surface Water Management Act - Minnesota Statutes Chapter 103B;
3. Metropolitan Area Local Water Management - Minnesota Rules Chapter 8410;
4. Minnesota Wetland Conservation Act of 1991 and subsequent rules and amendments;
5. State and Federal laws pertaining to National Pollution Discharge Elimination System (NPDES);
6. (NPDES) permitting for stormwater outfalls to designated drainage ways;

7. Erosion Control Guidelines and Best Management Practices prepared by the Minnesota Pollution Control Agency;
8. Regulations of the Lake Minnetonka Conservation District.
9. Minnesota Shoreland and Floodplain Management – Minnesota Rules Chapter 6120

RESOURCE MANAGEMENT RELATED AGREEMENTS

1. The City of Tonka Bay agrees to authorize the MCWD permitting authority in all areas regulated by the District and all City stormwater management controls are as protective as the District's.
2. Lake Minnetonka Conservation District: The City of Tonka Bay is a participating City member of the Lake Minnetonka Conservation District. Tonka Bay has an appointed representative who reports monthly to the City Council.
3. Cooperative Agreement for the Lake Minnetonka Shoreline Stabilization Project in the City of Tonka Bay: The City and MCWD have entered an agreement to provide for the implementation and maintenance for a shoreline stabilization project on Lake Minnetonka at Old Orchard Park. A copy of the agreement can be found in the Appendix.

1. EXECUTIVE SUMMARY OF LOCAL WATER MANAGEMENT PLAN CONTENT

The City of Tonka Bay's LWMP has been developed to meet the needs of the community and address the management planning requirements of the Metropolitan Surface Water Management Act and MCWD Watershed Management Plan. The LWMP has been prepared in general accordance with Minnesota Rules Chapter 8410 and follows the plan outline identified in the rules.

The following summaries identify the major sections of the LWMP and where information can be located in the plan document:

Section 1 – Executive Summary

This section presents an introduction for, and summary of, all of the sections of the Surface Water Management Plan. This section also summarizes strategic recommendations for consideration by the City in implementing the LWMP.

Section 2 – Land and Water Resource Inventory

This section categorizes a wide range of information under the subsections entitled Physical Environment, Human Environment and Surface Water System. The sub-sections provide information and references regarding water resources and physical factors within the City of Tonka Bay including the following:

- Precipitation data for hydrologic/hydraulic review and design
- Geologic and topographic information
- Surface soils and groundwater information
- Land Erosion (Runoff) Susceptibility

- Unique features and scenic areas
- Land use
- Water-based recreational areas and land ownership
- Potential pollutant sources
- Public waters and wetlands
- Flood Insurance Studies and surface water drainage information
- City sub-watersheds and storm water modeling data, limitations and results
- Flood problem areas and surface water quality

Section 3 – Establishment of Policies and Goals

This section outlines goals and policies addressing specific water resource management needs of the City and their relationship with the MCWD, Regional, State, and Federal goals and programs.

Section 4 – Assessment of Problems and Corrective Actions

This section provides an assessment of existing or potential water resource related problems within the City. This section also describes potential structural, nonstructural and programmatic solutions on corrective actions to the identified problems.

Section 5 – Implementation Program

This section identifies the regulatory controls, management programs, storm water design and performance standards, and capital improvements to be utilized by the City in implementing this LWMP.

Section 6 – Amendment Procedures

This section presents the process for making amendments consistent with the future MCWD plan.

2. LAND AND WATER RESOURCE INVENTORY

This section provides a localized description and summary of land and water resource factors affecting the water resources within the City of Tonka Bay to supplement the MCWD "Watershed Management Plan". The subsections include Physical Environment, Human Environment, Surface Water Systems, and Groundwater Resource Data. The Physical Environment subsection presents local information on precipitation, geology, topography, soils, fish and wildlife habitat and unique features and scenic areas. The Human Environment subsection identifies local land use, public utility services, water based recreational areas and known pollutant sources. The Surface Water Systems subsection presents information on the City's drainage patterns, hydrologic systems, public waters and wetlands, floodplain areas, flood studies, shoreland management and water quality.

Much of the information contained within this section was compiled from available governmental sources, 2018 MCWD Watershed Management Plan, and the City of Tonka Bay Comprehensive Plan. Whenever possible, the location of the information or additional resources have been identified or referenced.

PHYSICAL ENVIRONMENT

Precipitation

The climate of the Minneapolis/St. Paul metropolitan area is a humid continental climate with moderate precipitation, wide daily temperature variations, warm humid summers and cold winters. The total average annual precipitation is approximately 30 inches, of which approximately one third occurs during the months of June, July and August. The annual snowfall average is about 55 inches and is equivalent to approximately 5.3 inches of water. The average monthly temperatures, precipitations, and snowfalls are shown on Table 15.

TABLE 15. AVERAGE CLIMATE DATA FOR MINNEAPOLIS

Month	Temperature (°F)	Precipitation (Inches)	Snowfall (Inches)
January	13.1	1.04	13.5
February	20.1	0.79	8.2
March	32.1	1.86	10.4
April	46.6	2.31	3.1
May	59.3	3.24	0.1
June	68.4	4.34	0
July	73.2	4.04	0
August	70.6	4.05	0
September	61.0	2.69	0
October	49.7	2.11	0.6
November	32.5	1.94	10.0
December	18.7	1.00	10.0
Annual Average	45.40	29.41	55.90

Source: Minnesota State Climatology Office

For the purposes of this LWMP and for enforcement of citywide and individual stormwater management plans, the City will rely on synthetic storms based on a 24-hour duration. The 24-hour design storms are the 1-year, 10

-year and the 100-year events. Table 2 identifies the specific design storm events, probability of occurrence and design rationale typically used for each design storm event

TABLE 16. STORM EVENT TABULATION

Storm Event (Return Period)	Rainfall Amount (24-hour period)	Storm Event Use Criteria (Typical)
1-Year	2.49"	Stormwater Rate Control, Volume Control
10 -Year	4.24"	Storm Sewer Design, Stormwater Rate Control
100 -Year	7.27"	Design of Ponding/ Flooding Structures, High Water Levels, Stormwater Rate Control

The use of synthetic storms and the cumulative rainfall amounts are consistent with MCWD standards. Rainfall amounts are based on the National Oceanic and Atmospheric Administration (NOAA) Atlas 14 Point Precipitation Frequency Estimates.

GEOLOGY AND GROUND WATER

The general geology of Hennepin County and the City of Tonka Bay has been compiled by the Minnesota Geological Survey in a document titled Geologic Atlas of Hennepin County Minnesota (H. Hobbs and G. Meyer, Editors, 1989).

The surficial geology of the city consists of Glacial Till deposits and Des Moines Lobe deposits. The 30- to 60-foot top layer of Glacial loamy till and ice contact stratified deposits are underlain by a layer of Des Moines/Grantsburg Sub-lobe outwash deposits up to 50 feet, underlain by a layer of Superior Lobe sediments up to 75 feet thick, and underlain by a layer of pre-late Wisconsinan deposits and glacial deposits of unknown age up to 110 feet thick to the top of bedrock.

The bedrock surface is between 150 and 400 feet below surface elevation within Tonka Bay. The Geologic Atlas of Hennepin County indicates the top bedrock is a thin layer of St. Peter Sandstone in most of Tonka Bay; however, in portions of the City, the St. Peter Sandstone is not present and the top bedrock is the Prairie du Chien Group. The next formations are the Prairie du Chien Group and Jordan Sandstone formation. Below the Jordan Sandstone are the St. Lawrence and Franconia Formations and the Ironton Galesville Sandstones. The Eau Claire Formation separates the Mt. Simon Sandstone.

The water table (soil consisting of saturated water located above the highest elevation of bedrock) in Tonka Bay varies with the lake level and local soil conditions. The clayey soils and granular lenses make for a variable water table condition. The estimated water table elevation is between 920 and 940. The water table elevation

at a given location can vary from time to time depending on rainfall activity, soil water capacity, soil type, distance from the lake, and lake level.

The sensitivity of ground water pollution to the water table, the upper most ground water resource, is greater near the shoreline of Lake Minnetonka. The sensitivity lessens in the upland areas where there is greater separation between the surface and the ground water, as well as in areas of loamy till, clay loam till, and lake silt and clay. The ground water table is connected directly to Lake Minnetonka which also makes the lake sensitive to pollution entering the ground water in upland areas.

There are no known wells that need to be abandoned in accordance with Minnesota Department of Health requirements.

TOPOGRAPHY

Terrain within the city can be classified as gently rolling to level. The highest land elevations are in the residential areas near Tonka Bay Road to the north and Birch Bluff Road to the south. The terrain gently slopes to the east and west toward Lake Minnetonka. Isolated areas contain steeper slopes. The majority of the steep slopes exist near the shoreline.

SOILS

The soils in areas of Tonka Bay that have not been developed and properties where re-development can be considered are to have moderate to questionable limitations in terms of building site suitability. The surface soils are made up primarily of loams and clay soil types.

The general classification and hydrologic classification of the soils in Tonka Bay is found in the "Soil Survey for Hennepin County" prepared by the USDA Natural Resource Conservation Service (NRCS). All NRCS soil findings can now be found online in the Web Soil Survey.

The information found online provides a good preliminary estimate of soil classification. Where land disturbing activities are proposed, the City requires verification via soil borings and will not rely on information presented by the NRCS alone, given the information presented by the NRCS is general in nature and the degree of sampling is too large of a scale for land disturbing activities. The NRCS information is a suitable tool for runoff estimation and land use planning.

LAND EROSION SUSCEPTIBILITY

Land that is located on high sloping land, or has previously been developed has a greater likelihood of generating more runoff than in areas that have not been developed or are located on gently sloping areas. The loams and clay soil types and gently sloping terrain in Tonka Bay represent a low to medium susceptibility to land erosion.

The close proximity to the shoreline of Lake Minnetonka makes land erosion an important issue from both an existing land use and new construction condition. The disturbed or exposed soils have a greater chance of

flowing off site. Establishing or maintaining vegetation on exposed soil in these areas will keep silt and urban pollutants from washing into the receiving storm sewer lines and ultimately reaching the Lake Minnetonka.

UNIQUE FEATURES AND SCENIC AREAS

According to Minnesota Department of National Resources (MnDNR) records, there are no occurrences of any rare plant or animal species within the city limits of Tonka Bay. The MnDNR does have regulatory jurisdiction within their Lake Minnetonka shoreline setbacks. The City of Tonka Bay is located within these setback limits. Before any land alteration, dredging, or grading is scheduled to occur, the MnDNR office will need to be notified.

The City does not contain the following Federal, State, or County managed areas:

- Minnesota Historic Districts
- State, National or local forests
- Scientific or Natural Areas or areas designated for Wildlife Protection
- Three Rivers Park District Parks

The Lake Minnetonka region is known as a "Scenic Area" and a premiere sport fishery with biodiversity significance and recreational features.

BIOLOGICAL ENVIRONMENT

Vegetation

The City of Tonka is predominantly developed with large wetland areas dispersed throughout the city. Natural vegetation consists of shoreline, aquatic and wetland varieties.

Wetlands

Wetlands function to slow down run-off, enhance water quality before entering the lake, lagoons, and water table and provide scenic wetland habitats that contribute significantly to diversity of the City's flora and fauna. Lagoons are highly valuable for all the reasons stated above and because they can or do provide access to Lake Minnetonka.

The City has several wetlands and lagoons, with virtually every part of the City located within 800 feet of Lake Minnetonka, a lagoon, or "wetland." Figure 20 shows the wetlands and lakes from the National Wetland Inventory per the Minnesota Department of National Resources (MnDNR). Minnesota wetlands are protected by the Wetland Conservation Act with wetlands and lakes under MnDNR jurisdiction having added levels of protection.

In 2003, MCWD completed a Functional Assessment of Wetlands on all wetlands greater than one-quarter acre in size. Categories were assigned based on ecological and hydrologic values from Preserve down to a Manage 3. These wetland categories are used by MCWD to regulate and protect existing wetlands throughout the City. Wetlands that were evaluated and their corresponding categories can be requested from MCWD.

Major Bodies of Water

Tonka Bay's major bodies of water include Lake Minnetonka and the wetlands, lagoons, and ponds located within the City (Figure 21). The City does not have any rivers or notable creeks.

The MnDNR regularly stocks and surveys the fish populations in the lake. The fishery is classified as a sport-walleye lake populated with blue gill, walleye, northern pike, yellow perch, bass and black crappie. The MnDNR stocks the lake with walleye and muskellunge.

Lake Minnetonka is under a Minnesota Pollution Control (MPCA) "Fish Consumption Advisory" due to elevated levels of mercury. Several Lake Bays including West Arm (Bay) have been added to the MPCA's impaired waters list for nutrient/eutrophication biological indicators.

Impaired Waters

The Minnesota Pollution Control Agency (MPCA) publishes a list of impaired waters that do not meet federal water quality standards. The list includes Lake Minnetonka, which was added to the list in 2008 due to excessive nutrients (Figure 22). Cities adjacent to impaired waters are required to incorporate the MPCA's requirements for the water body into their Stormwater Pollution Prevention Plans (SWPPPs).

Total Maximum Daily Load Studies (TMDLs) have also been conducted on specific impaired waters. Waterbody specific studies are summarized in the MCWD Watershed Management Plan. Some of the studies conducted on specific waterbodies include:

Upper Minnehaha Creek Watershed Nutrient and Bacteria TMDL Study, 2014

Twin Cities Metropolitan Area Chloride TMDL Study, 2016

HUMAN ENVIRONMENT

Land Use

The City's 2040 Comprehensive Plan contains descriptions of existing land use, current zoning, population and proposed land use projections. The predominant land uses within the City are residential and open water/wetlands. The City is considered to be fully developed. There are no plans for future new developments, though there is potential for additional residential or mixed use redevelopment in the City. The City will continue to look for opportunities to add or improve stormwater treatment using City-owned parcels, specifically parks and open space, as the budget allows. Parcels in areas of the City with little treatment currently will be prioritized. Partnership opportunities with MCWD for BMPs will likely occur in coordination with City street reconstruction projects. Grant funding will be sought after to help fund retrofit BMPs.

In 2015, the Cityscape Parks Improvement Plan was created to study the City's existing park system and provide recommendations for improvements. Additional information can be found in Chapter 4.

Storm Sewer

The City has a natural storm water drainage system. A few locations have culverts under the street. Four storm water ponds have been constructed. Figure 23 shows the ponds and the known outfalls. Additionally, the 'City of Tonka Bay, Minnesota MS4 Program Map' shows the storm sewer conveyance system following the requirements of the MS4 general permit.

Section 6.6 of the City of Tonka Bay's 'Minimal Control Measure 6 Pollution Prevention and Good Housekeeping Practices for Municipal Facilities' includes stanrdard operating procedures for inspecting, maintaining, and assessing stormwater elements such as catch basins, outfalls, structural BMPs, ponds and ditches.

Water Pollution Sources

Various land use practices have the potential to contaminate local surface waters and groundwater. There is significant contamination potential at open and closed landfills, dumps, hazardous waste sites, and underground and aboveground storage tanks. The City does not have operating private septic systems, operating landfills, superfund sites, permitted wastewater discharges, or animal feedlots.

The MPCA currently lists a total of eight (8) sites in Tonka Bay with aboveground and underground tanks. Four of those sites are active, the rest are inactive or removed. These sites are shown on the Polluted Sites Map (Map 8). Refer to the MPCA website for additional information on the sites. None of the inactive or active sites are considered threats to surface or ground water resources.

A total of 55.9% of land (345.67 acres) in the City is used for housing, parks, open spaces, other public spaces, or is vacant. Only 3.63% (22.46 acres) is used for commercial purposes and 12.32% (76.26 acres) is in right-of-way. No septic systems are in use in the City. Business uses are primarily office, retail, and service. The City's maintenance facility stores salt only during the winter months, weather permitting.

SURFACE WATER SYSTEM

Public Waters and Wetlands

Lake Minnetonka is the primary water resource in Tonka Bay. The City is bordered by Lake Minnetonka – Upper Lake to the west, Echo Bay to the northeast, and Gideon Bay to the southeast. Wetlands within the City of Tonka Bay are shown on Figure 20.

Flood Information

The City of Tonka Bay is bordered by Lake Minnetonka floodplain. The basis for floodplain zoning and regulation is the Federal Insurance Rate Map (FIRM) developed by the Federal Emergency Management Agency (FEMA). The FIRM for the City of Tonka Bay identifies the areas that are subject to 100-year and 500-year floodplain elevations. The City of Tonka Bay administers the FEMA program and recognizes the Lake Minnetonka 100-year floodplain elevation as 931.5.

MCWD has completed a Hydrologic and Hydraulic and Pollutant Loading Study (HHPLS) of the entire district using XPSWMM. The district uses this model to establish regulatory elevations for permitting development an redevelopment. The City of Tonka Bay is responsible for informing property owners about floodplain elevations for the both insurance and zoning purposes.

Surface Water Drainage Information and Modeling

The surface water drainage system consists of catch basins that collect run-off from streets and parking lots and drain into storm sewer. The storm sewer lines either flow into stormwater treatment basins and outlet into Lake Minnetonka or outlet from storm sewers directly into Lake Minnetonka. Shoreline areas drain overland, mostly across residential yards directly into Lake Minnetonka.

When site specific stormwater management plans are required, the City will use modeling software to estimate stormwater flows based on techniques and methods developed by the National Resource Conversation Service (NRCS). The results of the model can provide probability-statistical determinations of runoff rates, pond/basin storage volumes and water elevations.

Stormwater runoff generated in the city flows to Lake Minnetonka in a very short time period. The impact on the Lake Minnetonka water level is minimal. Runoff rates in the past were regulated based on water quality treatment criteria and storm sewer capacity.

Citywide runoff volumes have increased slightly over the years due to development and re-development adding to the existing impervious surfaces. With very limited land and resources for infiltration, runoff volumes are expected to remain the same.

Surface Water Quality

The quality of stormwater runoff generated in the city is typical for a mixed land use community consisting of residential, commercial, multi-family, light industrial and public right- of-way. Based on comprehensive plan land use projections, the pollutants in the stormwater runoff and the overall quality of the generated runoff will remain unchanged. There are no illicit discharge outlets into Lake Minnetonka or MPCA permits for discharge in the City of Tonka Bay.

3. ESTABLISHMENT OF POLICIES AND GOALS

The City of Tonka Bay authorizes the MCWD to continue to apply all of its permitting rules and regulations in the City of Tonka Bay including but not limited to: Erosion Control, Floodplain Alteration, Wetland Protection, Dredging, Shoreline and Streambank Stabilization, Waterbody Crossings and Structures, Stormwater Management, Sandblanket Installation, Enforcement, Variances and Exceptions, Fees, and Financial Assurances. Additionally, the City of Tonka Bay authorizes the MCWD to be the "local unit of government" responsible for implementing the Minnesota Wetlands Conservation Act within the City of Tonka Bay.

City of Tonka Bay Ordinance No. 2018 Section 370 outlines stormwater management requirements such as volume control, water quality, rate control, erosion and sediment control, and maintenance agreements for new developments and re-development.

The last part of Goal 5 (in Chapter 2 – The Plan) states "…provide a natural drainage system that is harmonious with nature and the lake."

The policies which follow are based on this goal, and the inventory, analysis, and identified issues and needs.

Policy 1 – Natural Drainage. Foster continuous preservation and enhancement of the City's natural drainage system.

Comment: The City has adopted Floodplain, Shoreland, and Wetland Ordinances.

Policy 2 – Phosphorus Reduction. Promote the reduction of phosphorus in the environment through education and administration of the City's ordinance.

Comment: The City adopted Ordinance 2000-3 that prohibits the use of lawn fertilizers that contain phosphates. (Exceptions are granted for newly established turf, areas that show low levels of phosphorous in soil tests, and natural or organic fertilizers that contain phosphorous, such as yard waste compost).

Policy 3 – Best Management Practices. In concert with the watershed district, promote and assist in the use and enforcement of best management practices including erosion and sediment control.

Comment: The City sweeps the streets three times each year. The City will require BMPs in accordance with MCWD standards for water quality and quantity. The City will require the BMPs be designed to the standards of MCWD and the MPCA's Minnesota Stormwater Manual. The City will require a maintenance agreement for any privately owned BMPs that are constructed. The City will maintain City-owned BMPs as part of their MS4 permit requirements.

Policy 4 – Floodplain and Shoreland Protection. Minimize potential losses of property and environmental degradation through coordinated enforcement of the spirit, intent, and regulations of the floodplain, shoreland, and wetland zoning districts.

Comment: The City has adopted Floodplain, Shoreland, and Wetland Ordinances.

Policy 5 – Dredging. Comply with MCWD's Dredging Rule to limit dredging in the beds, banks, or shores of Lake Minnetonka or public waters wetland.

Utilize the joint Department of Natural Resources (DNR) and Lake Minnetonka Conservation District (LMCD) agreement regarding dredging on Lake Minnetonka.

4. ASSESSMENT OF PROBLEMS AND CORRECTIVE ACTIONS

The City's overall water resource management concerns and needs are listed and described below:

1. **Natural System –** Maintaining and protecting the City's natural drainage system is cost-effective and supports the City's vision and goals.
2. **City's Marina and Lagoons –** Water is attractive, it provides scenic beauty and an opportunity for unique active and pervasive recreation. The City's marina could be expanded to provide lake access for residents not having lakeshore property. The lagoons can be aesthetically and functionally improved.
3. **Surface Water Quality –** The quality of the surface water and conditions in wetlands will be greatly affected by the amount of sediment and use of chemicals. Reducing phosphorus and erosion are important.

   Specific issues related to the City's overall water resource management concerns and needs are described in further detail below. Corrective actions have been identified for each specific issue.

Issue 1: The City currently discharges stormwater to Lake Minnetonka, which is currently impaired for mercury.

Corrective Action 1: The Environmental Protection Agency (EPA) has approved the statewide TMDL mercury study. No action by the City is needed. If additional TMDLs are identified that affect the City, the City shall participate in the stakeholder process to develop the TMDL and implementation plan. The City is committed to protecting the existing water quality of Lake Minnetonka and would partner with MCWD to do so.

Problem 2: There may be small landlocked subwatersheds located within the City.

Corrective Action 2: As needed, the City will complete feasibility studies for these areas, identifying potential flooding areas as well as strategies to minimize flooding, and create new outlets with future redevelopment or street improvement projects. Outlets will be provided in areas where there is a demonstrated threat to structures or public safety.

Problem 3: As infill development and redevelopment occur throughout the City, rates and volumes of stormwater runoff could likely increase. Other land development and land use practices have negatively impacted both water quality and quantity outside the City limits.

Corrective Action 3: The City will implement policies and projects in this SWMP. Additionally, areas that develop or redevelop will be subject to the policies of the MCWD. The City will look into partnering with MCWD on future projects to reduce impacts from development and improve water quality. The City places high priority on maintaining local parks and open spaces and have developed the Cityscape Parks Improvement Plan. The use of natural landscaping in these areas will help minimize runoff and erosion concerns. When maintenance or upgrading to local parks, trials or open spaces is required, the City will look for opportunities to install additional BMPs to help further reduce erosion and runoff concerns.

Problem 4: The City is generally fully developed, with little opportunity to construct stormwater management projects.

Corrective Action 4: Upon new development and redevelopment, the stormwater management policies of the MCWD will apply. By applying these policies, previously untreated areas will have treatment and implementation of BMPs.

The City will also pursue alternative funding through local, state, and/or federal grants for potential regional stormwater treatment facilities, if the opportunity arises.

Issue 5: Inspecting and maintaining existing stormwater infrastructure throughout the City.

Corrective Action 5: The City of Tonka Bay is responsible for maintenance of its stormwater system in conformance with the MCPA's MS4 Program. This includes maintenance of pipes, outlets, constructed ponds, lakes, wetlands, ditches, swales, and other drainage ways. Proper maintenance will ensure that the stormwater system continues to provide the necessary flood control and water quality treatment.

5. IMPLEMENTATION PROGRAM

In general, the City will continue to use MCWD's regulatory, permitting and enforcement authority within Tonka Bay. Table 5 gives a 10-year schedule for the City's Implementation Program related to water resources management. Some of the items listed include the following:

1. **Phosphorus Fertilizer –** Inform the residents of the ordinance and promote its enforcement.
2. **Sweeping –** Sweep streets and parking lots at least three times a year.
3. **Best Management Practices –** Adopt a Best Management Practices Guide.
4. **Education –** The City will promote understanding of the phosphorus ordinance and the relationship between clean water and activities of the public.
5. **Ordinances –** Continue to use and apply the adopted floodplain, shoreland, and wetland ordinances.

Note: The City does not have any animal containment areas, feedlots, or hobby/recreational farms.

As part of the implementation program, it will be noted that the City will update the City's Surface Water Management Plan (SWMP) in response to any regulation changes that may occur on the local, regional, state, or federal level. The implementation table, along with Tonka Bay's Capital Improvements Plan, will also be reviewed and updated annually during the budget process by City staff. Coordination will occur with MCWD to add any upcoming projects that the City anticipates collaborating.

6. AMENDMENT PROCEDURES

It is the City's intention to have this LWMP reviewed and approved by the Minnehaha Creek Watershed District (MCWD) and Metropolitan Council in accordance with Minnesota Statutes. After approval, it will be adopted by the City Council and incorporated into the City's Water Resource Library.

Review and adoption and future major amendments of this LWMP will follow the procedure outlined in Minnesota Statutes 103B.235:

> After consideration, but before adoption by the governing body, each local government unit shall submit its water management plan to the watershed management organization[s] for review for consistency with the watershed plan. The organization[s] shall have 60 days to complete its review.
>
> Concurrently with its submission of its local water management plan to the watershed management organization, each local government unit shall submit its water management plan to the Metropolitan Council for review and comment. The council shall have 45 days to review and comment upon the local plan. The council's 45-day review period shall run concurrently with the 60-day review period by the watershed management organization. The Metropolitan Council shall submit its comments to the watershed management organization and shall send a copy of its comments to the local government unit.
>
> After approval of the local plan by the watershed management organization[s], the local government unit shall adopt and implement its plan within 120 days, and shall amend its official controls accordingly within 180 days.

This LWMP has been prepared to extend through the year 2028, in accordance with the MCWD 10-year Watershed Management Plan approved in January of 2018. The LWMP may need to be updated with amendments, in the interim to conform to changes in the MPCA determined TMDLs for Lake Minnetonka, updates to the MS4 permit, or any MCWD issued updates to their comprehensive plan. Amendments will also be required within two years of the adoption of a watershed plan by a Watershed District or Watershed Management Organization, consistent with State Rules part 8410.0160.

If the City proposes changes to this LWMP before year 2028, the changes and their impacts will be determined by the City.

Minor changes would include small adjustments to sub-watershed district or sub-district boundaries or other minor changes that would not significantly affect the rate or quality of stormwater runoff discharged across the municipal boundary or significantly affect high water levels (HWLs) within the City. Minor changes also include revisions made to the stormwater related Capital Improvements Program to best meet the City's phosphorus loading reduction requirements, water resource needs and financial considerations. For proposed changes, the City will prepare a document, which defines the change and includes information on the scope and impacts of the change. Minor changes will be provided for MCWD review when formal amendments are not required. The minor change will be implemented after the document is adopted by the City Council.

TABLE 5

SURFACE WATER MANAGEMENT IMPLEMENTATION PLAN

No.	Project Description	10 Year Total Cost Estimate [1,3]	Possible Funding Sources [2]	Proposed Cost By Year[1]										Comments
				2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
Capital Improvement Projects (CIP)														
1	Storm sewer improvements paired with Street CIP items.	$75,000	Storm Water Utility Fund				$20,000				$25,000		$30,000	To be implemented when street reconstruction projects are constructed.
2	Water Quality Projects - Bioretention or infiltration BMPs for phosphorus removal as opportunities arise.	$30,000	MCWD Grants/ Storm Water Utility Fund					$10,000		$10,000		$10,000		
3	Assess and identify any identified localized flooding area by the MCWD subwatershed models	$2,000	MCWD Grants/ Storm Water Utility Fund		$1,000				$1,000					
4	Undertake projects to restore potential wetlands outlined in the MCWD Functional Assessment Report	$25,000	Storm Water Utility Fund, MCWD, Grants			$10,000						$15,000		
Operation and Maintenance														
5	Conduct inspections and clean up of illicit discharges and illegal dumping within the City	$5,000	Stormwater Utility Revenue	$500	$500	$500	$500	$500	$500	$500	$500	$500	$500	
6	Conduct erosion control inspections of construction sites	$8,000	Stormwater Utility Revenue	$800	$800	$800	$800	$800	$800	$800	$800	$800	$800	
7	Plan review and inspection of long term operation and maintenance of BMPs.	$8,000	Stormwater Utility Revenue	$800	$800	$800	$800	$800	$800	$800	$800	$800	$800	
8	Inspect 20% of storm sewer system including outfalls, ponds, and structural pollution control devices	$12,000	Stormwater Utility Revenue	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	
9	Inspect all identified structural pollution control devices and BMPs once per year.	$12,000	Stormwater Utility Revenue	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	$1,200	
10	Sweep streets at least three times each year.	$50,000	Stormwater Utility Revenue	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	
11	Conduct annual pond surveys to schedule and prioritize the necessary maintenance projects.	$10,000	Stormwater Utility Revenue	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	

No.	Project Description	10 Year Total Cost Estimate [1,3]	Possible Funding Sources [2]	Proposed Cost By Year[1]										Comments
				2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
Official Controls														
12	Prepare and distribute annual newsletter and distribute information in City mailing regarding surface water management	$3,800	Stormwater Utility Revenue	$200	$400	$400	$400	$400	$400	$400	$400	$400	$400	
13	Maintain and update website for surface water management education per NPDES permit	$2,900	Stormwater Utility Revenue	$200	$300	$300	$300	$300	$300	$300	$300	$300	$300	
14	Maintain and update GIS database and storm sewer map	$3,000	Stormwater Utility Revenue			$1,000			$1,000			$1,000		
15	Hold annual public meetings to educate residents and business owners on surface water management	$4,000	Stormwater Utility Revenue	$400	$400	$400	$400	$400	$400	$400	$400	$400	$400	
16	Provide annual training workshops to educate City staff about surface water management	$8,000	Stormwater Utility Revenue	$800	$800	$800	$800	$800	$800	$800	$800	$800	$800	
17	Implement the MCWD coordination plan regarding data sharing, etc.	$5,000	Stormwater Utility Revenue	$500	$500	$500	$500	$500	$500	$500	$500	$500	$500	
18	Maintain and submit annual inspection reports, maintenance records, and other documentation in conformance with the NPDES permit	$5,000	Stormwater Utility Revenue	$500	$500	$500	$500	$500	$500	$500	$500	$500	$500	
Monitor and Study														
19	Coordinate with MCWD in the development and implementation of TMDLs - specifically in the identification of BMPs to address water quality concerns.	$1,000	MCWD Grants / Storm Water Utility Fund / Clean Water Legacy Fund						$1,000					
20	Review planning and zoning policies and ordinances and update as needed to comply with Surface Water Management Plan and MCWD rules	$2,000	MCWD Grants/ Storm Water Utility Fund	$500			$500			$500			$500	
21	Review road salt application practices and review alternative products (as available). Implement projects or other management actions based on the Minnesota Pollution Control Agency's Twin Cities Metro Chloride TMDL when applicable.	$2,500	Storm Water Utility Fund		$500		$500		$500		$500		$500	
	TOTAL	$274,200		$13,600	$14,900	$24,400	$34,400	$23,400	$16,900	$23,900	$38,900	$39,400	$44,400	

[1] Cost estimates are preliminary and subject to review and revision as engineer's reports are completed and more information becomes available. Table reflects 2018 costs and does not account for inflation. Costs generally include labor, equipment, materials, and all other costs necessary to complete each activity. Some of the costs outlined above may be included in other operational costs budgeted by the City.

[2] Funding for stormwater program activities projected to come from following sources - Surface Water Management Fund, Developers Agreements, Grant Funds, General Operating Fund, or Special Assessments.

[3] Staff time is not included in the cost shown.

7. MINNEHAHA CREEK WATERSHED COORDINATION PLAN

7.1 Background

The Minnehaha Creek Watershed District (MCWD/District) Watershed Management Plan (WMP/Plan) focuses on partnership with the land use community and incorporates a subwatershed focus to address areas of significant resources needs with a level of complexity that requires sustained effort and coordination across multiple partners. While operating on a subwatershed scale, focused within the priority areas indicated in its WMP, the MCWD is remaining responsive to its communities District-wide by providing technical resources, regulatory coordination, and in some cases, funding. MCWD partnership and level of response is driven by early coordination of land use planning.

As part of the development of the District's Plan, communities provided information as to local goals, plans, and priorities. This information was used to broadly characterize opportunities and to inform the development of District implementation plans. The City of Tonka Bay, within the Lake Minnetonka Subwatershed, understands the importance of protecting Lake Minnetonka. Within the City, the WMP has identified water resource issues of excess nutrients. Strategies identified to address these issues and drivers include stormwater management, restoration of upstream water bodies and others. The City of Tonka Bay recognizes that implementation of these strategies may expand outside City boundaries and will require a partnership-driven approach with the MCWD and neighboring Cities. It is the intent of this Coordination Plan to provide a systematic approach to early coordination between the City of Tonka Bay and the MCWD to facilitate and maximize water resources implementation priorities together.

7.2 Purpose

The Minnehaha Creek Watershed District's (MCWD) approach to water resource planning recognizes the environmental, social, and economic value created when built and natural systems work in harmony. Through its WMP the MCWD emphasizes early coordination of land use and water resources planning with Cities to integrate water resources goals with other public and private goals to add this broader value and quality of life to the community. To maintain awareness of needs and opportunities to implement programs and projects that reflect the cooperation of other public and private partners, align investments, and secure a combined set of District, City, and partner goals, the MCWD requests that cities establish a coordination plan as part of the Local Water Management Plan that the City and MCWD can implement at a staff level. Improving coordination between land use planning at the City and watershed planning at the MCWD at the conceptual level planning phase will result in better projects that meet agency goals and are a more efficient use of public funds. Early coordination and collaboration between entities is the key to maximizing shared water resource goals and community goals for private redevelopment and public capital improvements. Through this coordination, it is the intent of the City to efficiently manage water quality concerns and maximize the asset value of the City's natural resources in the future.

7.3 Coordination

The following is a coordination plan, which will be adjusted and expanded as deemed appropriate by the City and MCWD during project implementation. It is anticipated that the City Administrator and Public Works Director will be the primary contacts for the coordination plan.

1. Annual meeting – City and MCWD staff will meet during the first quarter of each year to review the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer Systems (MS4) reports and activity from the previous year. Staff will also discuss draft Capital Improvement Plans (CIP) for each organization for the upcoming year. Opportunities for early coordination and review of land use change applications and regulatory coordination will also be reviewed to identify areas of collaboration.

2. Land Use Planning –Through on-going coordination of land use planning and changes, the City and MCWD will adaptively evaluate project opportunities and assess them against the established goals the partnership. Because there is little land left for development, the City expects changes in land use to be driven by redevelopment and infill development. The City will include the MCWD early on in potential land use changes and redevelopment projects so the MCWD can be value added to projects. Specific land use changes can be found in the Land Use Chapter of the 2040 Comprehensive Plan.

3. Regulatory coordination – The City of Tonka Bay staff and consultants will endeavor to continue to route request for land use approvals including but not limited to, subdivisions, site plan approvals, WCA applications, infrastructure improvements, and park improvements to the District at concept plan phase in effort to maximize water resources benefits and streamline regulatory processes. Specific areas of regulatory coordination include the following:

    a. Pre-application meetings and permit reviews coordinated with MCWD early in the planning process.
    b. City assistance to support MCWD in construction site inspections and compliance
    c. MCWD will keep the City appraised of water resource violations and expectations for compliance.
    d. The City will require documentation of required MCWD permits in advance of issuing applicable City permits. Approved MCWD permits will be stored with other project documentation for future reference.
    e. City road, infrastructure, facilities and land improvements that require MCWD permits will be coordinated as part of the annual meeting and otherwise early in the CIP process so that the regulatory process may be efficient and integrated water and natural resource improvements may be explored.
    f. The primary person responsible for regulatory coordination at the City of Tonka Bay is the City Administrator and the Public Works Director and the Permitting Program Manager at MCWD.

4. Public Outreach and Education – The City will continue to distribute a newsletter and post on the City website to spread awareness of stormwater related issues. The City will help promote the MCWD's educational workshop and events to private homeowners and developers. The MCWD's educational workshops cover topics such as winter maintenance training, installing turf alternatives, and informational sessions on the Master Water Steward program. The City will coordinate with the MCWD on other educational efforts when possible to avoid duplicating efforts.

5. The City understands that the process to align investments begins at the concept stage of project development and recognizes that in addition to a future competitive grant program, the MCWD may offer technical resources and planning assistance to assist the City in aligning public and private investments providing value to its residents and the environment.

6. Funding – The City seeks support from the MCWD in terms of grant funding for water quality projects. The City requests that MCWD staff continue to provide information about upcoming grants and other funding opportunities internal and external to the MCWD.

7. Communication – The primary contact person responsible for implementation of the coordination plan is the City Administrator or Public Works Director at the City of Tonka Bay and the Policy Planning Manager at the MCWD.

8. Data Sharing – City staff will coordinate with MCWD staff to share any new or relevant data on an annual basis to ensure consistency. This data could be related to any newly completed studies water quality monitoring, or Best Management Practice (BMP) performance monitoring, among other things. The City would also request that MCWD share their data as well related to those items listed above.

Figure 20
Wetlands

Figure 21
MnDNR Public Waters

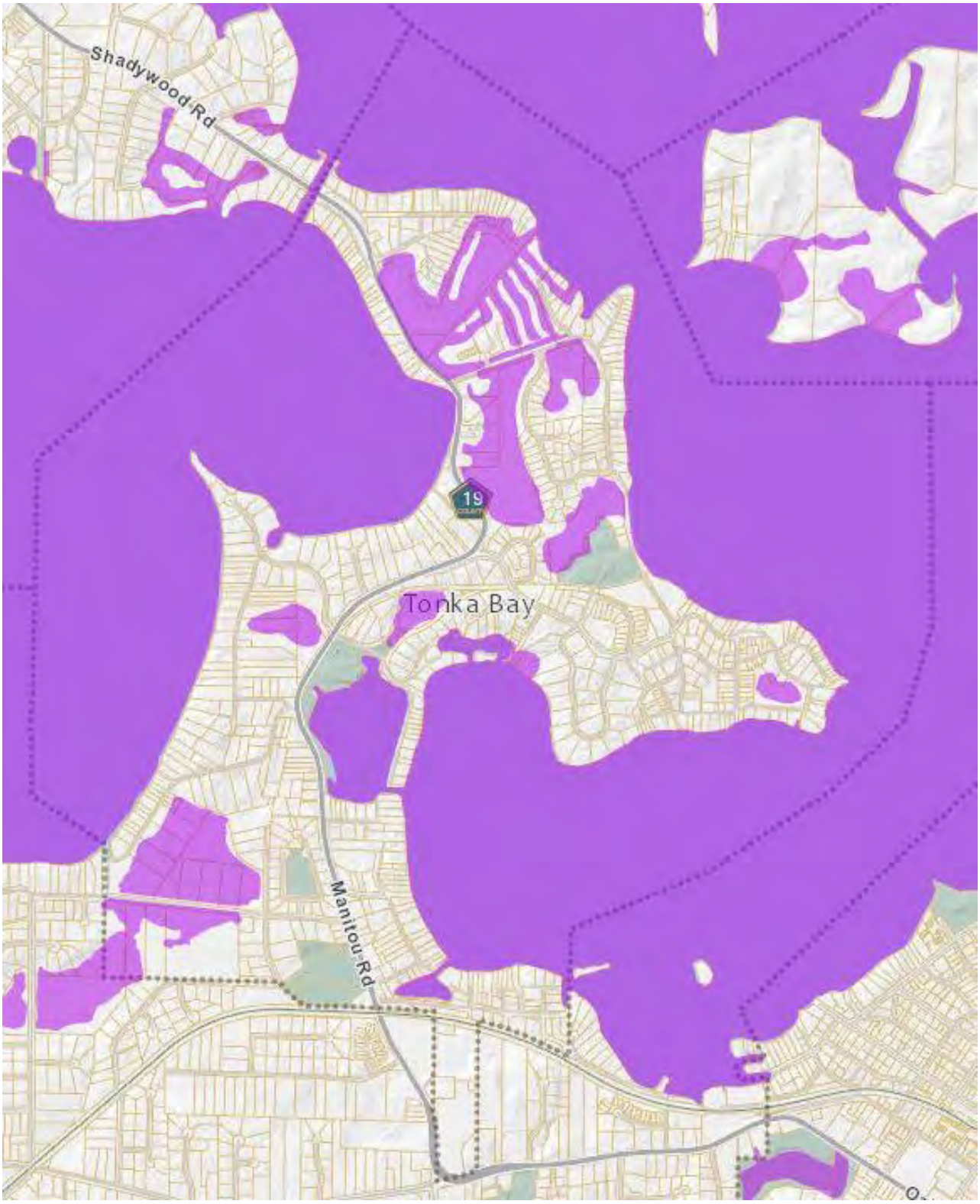

Figure 22
MPCA Impaired Waters

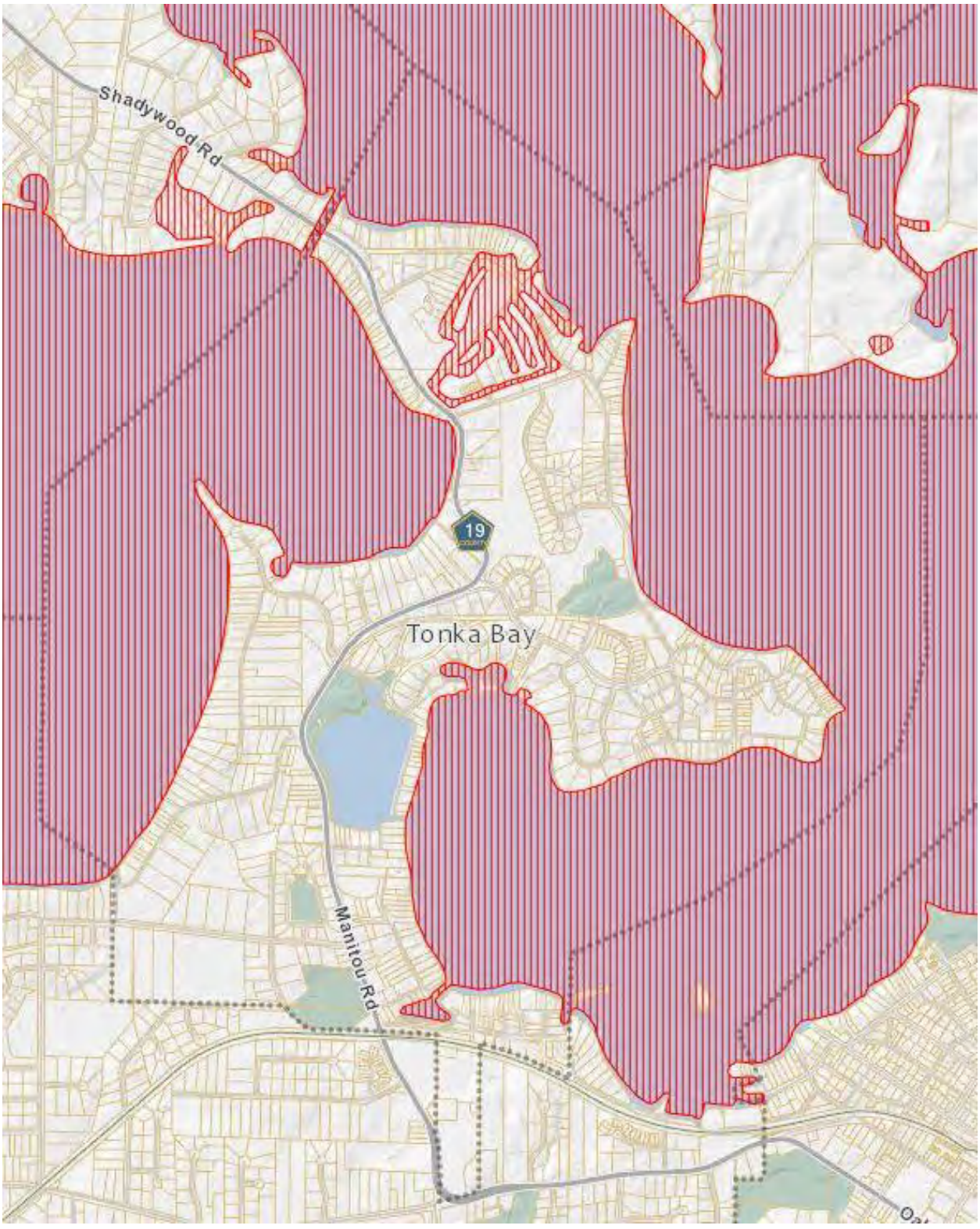

Figure 23
Existing Stormwater Ponds and Stormwater Outfalls

Figure 24 - Stormwater System

Lafayette Bay

Minnetonka-Upper Lake

Minnetonka-Lower Lake

Gideon Bay

19

Wetland-012

Wetland-010

Wetland-009

Wetland-008

Wetland-007

Wetland-006

Wetland-004

Wetland-003

Wetland-001

Wetland-002

Wetland-011

Wetland-005

Pond-001 (Private)

Pond-002 (Private)

Pond-003 (Private)

Pond-004 (Private)

MS4 Outfalls
Storm Sewer
Subwatersheds
City Boundary
Pond
Wetland
Private Pond

N

0 1,000 Feet

1 inch = 750 feet

Tonka Bay

wsb

Document Path: K:\0133\14-000\GIS\Working\Water Resources.mxd Date: 5/1/2019

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

MS4 SWPPP Application for Reauthorization

for the NPDES/SDS General Small Municipal Separate Storm Sewer System (MS4) Permit MNR040000 reissued with an effective date of August 1, 2013

Stormwater Pollution Prevention Program (SWPPP) Document

Doc Type: Permit Application

Instructions: This application is for authorization to discharge stormwater associated with Municipal Separate Storm Sewer Systems (MS4s) under the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) Permit Program. **No fee** is required with the submittal of this application. Please refer to "Example" for detailed instructions found on the Minnesota Pollution Control Agency (MPCA) MS4 website at http://www.pca.state.mn.us/ms4.

Submittal: This *MS4 SWPPP Application for Reauthorization* form must be submitted electronically via e-mail to the MPCA at ms4permitprogram.pca@state.mn.us from the person that is duly authorized to certify this form. All questions with an asterisk (*) are required fields. All applications will be returned if required fields are not completed.

Questions: Contact Claudia Hochstein at 651-757-2881 or claudia.hochstein@state.mn.us, Dan Miller at 651-757-2246 or daniel.miller@state.mn.us, or call toll-free at 800-657-3864.

General Contact Information (*Required fields)

MS4 Owner (with ownership or operational responsibility, or control of the MS4)

*MS4 permittee name: City of Tonka Bay *County: Hennepin
(city, county, municipality, government agency or other entity)

*Mailing address: 4901 Manitou Road

*City: Tonka Bay *State: MN *Zip code: 55331

*Phone (including area code): 952-474-7994 *E-mail: jkohlmann@cityoftonkabay.net

MS4 General contact (with Stormwater Pollution Prevention Program [SWPPP] implementation responsibility)

*Last name: Bowman *First name: Robin
(department head, MS4 coordinator, consultant, etc.)

*Title: Public Works Director

*Mailing address: 4901 Manitou Road

*City: Tonka Bay *State: MN *Zip code: 55331

*Phone (including area code): 952.474.3464 *E-mail: rbowman@cityoftonkabay.net

Preparer information (complete if SWPPP application is prepared by a party other than MS4 General contact)

Last name: Peters First name: Jeff
(department head, MS4 coordinator, consultant, etc.)

Title: WSB & Associates

Mailing address: 701 Xenia Ave South Suite 300

City: Minneapolis State: MN Zip code: 55416

Phone (including area code): (763) 541-4800 E-mail: jpeters@wsbeng.com

Verification

1. I seek to continue discharging stormwater associated with a small MS4 after the effective date of this Permit, and shall submit this *MS4 SWPPP Application for Reauthorization* form, in accordance with the schedule in Appendix A, Table 1, with the SWPPP document completed in accordance with the Permit (Part II.D.). ☒ Yes
2. I have read and understand the NPDES/SDS MS4 General Permit and certify that we intend to comply with all requirements of the Permit. ☒ Yes

Certification (All fields are required)

☒ Yes - *I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted.*

I certify that based on my inquiry of the person, or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of civil and criminal penalties.

This certification is required by Minn. Stat. §§ 7001.0070 and 7001.0540. The authorized person with overall, MS4 legal responsibility must certify the application (principal executive officer or a ranking elected official).

By typing my name in the following box, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing my application.

Name: Joe Kohlmann
(This document has been electronically signed)

Title: City Administrator Date (mm/dd/yyyy): 12/02/2013

Mailing address: 4901 Manitou Road

City: Tonka Bay State: MN Zip code: 55331

Phone (including area code): 952-474-3464 E-mail: jkohlmann@cityoftonkabay.net

Note: *The application will not be processed without certification.*

Stormwater Pollution Prevention Program Document

I. Partnerships: (Part II.D.1)

A. List the **regulated small MS4(s)** with which you have established a partnership in order to satisfy one or more requirements of this Permit. Indicate which Minimum Control Measure (MCM) requirements or other program components that each partnership helps to accomplish (List all that apply). Check the box below if you currently have no established partnerships with other regulated MS4s. If you have more than five partnerships, hit the tab key after the last line to generate a new row.

☒ No partnerships with regulated small MS4s

Name and description of partnership	MCM/Other permit requirements involved

B. If you have additional information that you would like to communicate about your partnerships with other regulated small MS4(s), provide it in the space below, or include an attachment to the SWPPP Document, with the following file naming convention: *MS4NameHere_Partnerships.*

Minnehaha Creek Watershed District - City will continue to pursue opportunities to team with the Watershed District on educational opportunities.

II. Description of Regulatory Mechanisms: (Part II.D.2)

Illicit discharges

A. Do you have a regulatory mechanism(s) that effectively prohibits non-stormwater discharges into your small MS4, except those non-stormwater discharges authorized under the Permit (Part III.D.3.b.)? ☒ Yes ☐ No

1. If **yes:**

   a. Check which *type* of regulatory mechanism(s) your organization has (check all that apply):

   ☒ Ordinance ☐ Contract language
   ☐ Policy/Standards ☐ Permits
   ☐ Rules
   ☐ Other, explain: _____

   b. Provide either a direct link to the mechanism selected above or attach it as an electronic document to this form; or if your regulatory mechanism is either an Ordinance or a Rule, you may provide a citation:

   Citation:

   City Code: Sec. 1080 Illicit Discharge and Connection

   Direct link:

   http://www.cityoftonkabay.net/vertical/sites/%7B4A0B5943-C4EE-4132-80D2-7FD9E610BCBF%7D/uploads/SECTION_1080_ILLICIT_DISCHARGE_AND_CONNECTION.pdf

   ☐ Check here if attaching an electronic copy of your regulatory mechanism, with the following file naming convention: *MS4NameHere_IDDEreg.*

2. If **no:**

   Describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, this permit requirement is met:

   Ordinance will be reviewed and updated if needed within 12 months of the date of permit coverage.

Construction site stormwater runoff control

A. Do you have a regulatory mechanism(s) that establishes requirements for erosion and sediment controls and waste controls? ☒ Yes ☐ No

1. If **yes:**

a. Check which *type* of regulatory mechanism(s) your organization has (check all that apply):

☒ Ordinance ☐ Contract language
☐ Policy/Standards ☒ Permits
☐ Rules
☒ Other, explain: Building Permit - Watershed Rules

b. Provide either a direct link to the mechanism selected above or attach it as an electronic document to this form; or if your regulatory mechanism is either an Ordinance or a Rule, you may provide a citation:

Citation:

City Code: Sec. 1080.12 Requirement to prevent, control, andreduce storm water pollutants by the use of best management practices.

City Code: Sec. 1030 Subdivision Ordinance

Direct link:

http://www.cityoftonkabay.net/vertical/sites/%7B4A0B5943-C4EE-4132-80D2-7FD9E610BCBF%7D/uploads/SECTION_1080_ILLICIT_DISCHARGE_AND_CONNECTION.pdf

http://www.cityoftonkabay.net/vertical/sites/%7B4A0B5943-C4EE-4132-80D2-7FD9E610BCBF%7D/uploads/SECTION_1030_SUBDIVISION.pdf

☐ Check here if attaching an electronic copy of your regulatory mechanism, with the following file naming convention: *MS4NameHere_CSWreg.*

B. Is your regulatory mechanism at least as stringent as the MPCA general permit to Discharge Stormwater Associated with Construction Activity (as of the effective date of the MS4 Permit)? ☐Yes ☒ No

If you answered **yes** to the above question, proceed to C.

If you answered **no** to either of the above permit requirements listed in A. or B., describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met:

The City's construction site stormwater runoff control requlatory mechnaism will be evaluated and updated to be at least as strigent as the MPCA CSW permit. This effort will completed within 12 months of the date permit coverage is extended.

C. Answer **yes** or **no** to indicate whether your regulatory mechanism(s) requires owners and operators of construction activity to develop site plans that incorporate the following erosion and sediment controls and waste controls as described in the Permit (Part III.D.4.a.(1)-(8)), and as listed below:

1.	Best Management Practices (BMPs) to minimize erosion.	☒ Yes	☐ No
2.	BMPs to minimize the discharge of sediment and other pollutants.	☒ Yes	☐ No
3.	BMPs for dewatering activities.	☐ Yes	☒ No
4.	Site inspections and records of rainfall events	☐ Yes	☒ No
5.	BMP maintenance	☒ Yes	☐ No
6.	Management of solid and hazardous wastes on each project site.	☐ Yes	☒ No
7.	Final stabilization upon the completion of construction activity, including the use of perennial vegetative cover on all exposed soils or other equivalent means.	☐ Yes	☒ No
8.	Criteria for the use of temporary sediment basins.	☐ Yes	☒ No

If you answered **no** to any of the above permit requirements, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met:

C. (3.), (4.), (6.), (7.),(8) The City will review current city ordinances and permits. The city will draft these amendments using the MPCA model ESC ordinance as a guideline. The city will evaluate the current building permits and guidance documents for compliance with permit requirements. If needed the city will amend ordinances and place changes on the City Council's meeting agenda for approval within 12 months following the date permit coverage is extended.

Post-construction stormwater management

A. Do you have a regulatory mechanism(s) to address post-construction stormwater management activities?
☒ Yes ☐ No

1. If **yes:**

a. Check which *type* of regulatory mechanism(s) your organization has (check all that apply):

☐ Ordinance ☒ Contract language
☒ Policy/Standards ☐ Permits
☐ Rules
☒ Other, explain: Minnehaha Creek Watershed District Rules.

b. Provide either a direct link to the mechanism selected above or attach it as an electronic document to this form; or if your regulatory mechanism is either an Ordinance or a Rule, you may provide a citation:

Citation:

City Code: Sec. 1030 Subdivision Ordinance

Building Permit The city uses a combination of: policies, standards, and rules from the Minnehaha Creek Watershed District to enforce post-construction stormwater management standards. The city will revise and adopt an ordinance within 12 months of permit coverage to address all of MS4 requirements.

Direct link:

http://www.cityoftonkabay.net/vertical/sites/%7B4A0B5943-C4EE-4132-80D2-7FD9E610BCBF%7D/uploads/SECTION_1030_SUBDIVISION.pdf

☐ Check here if attaching an electronic copy of your regulatory mechanism, with the following file naming convention: *MS4NameHere_PostCSWreg.*

B. Answer **yes** or **no** below to indicate whether you have a regulatory mechanism(s) in place that meets the following requirements as described in the Permit (Part III.D.5.a.):

1. **Site plan review:** Requirements that owners and/or operators of construction activity submit site plans with post-construction stormwater management BMPs to the permittee for review and approval, prior to start of construction activity. ☒ Yes ☐ No

2. **Conditions for post construction stormwater management:** Requires the use of any combination of BMPs, with highest preference given to Green Infrastructure techniques and practices (e.g., infiltration, evapotranspiration, reuse/harvesting, conservation design, urban forestry, green roofs, etc.), necessary to meet the following conditions on the site of a construction activity to the Maximum Extent Practicable (MEP):

a. For new development projects – no net increase from pre-project conditions (on an annual average basis) of: ☐ Yes ☒ No

1) Stormwater discharge volume, unless precluded by the stormwater management limitations in the Permit (Part III.D.5.a(3)(a)).
2) Stormwater discharges of Total Suspended Solids (TSS).
3) Stormwater discharges of Total Phosphorus (TP).

b. For redevelopment projects – a net reduction from pre-project conditions (on an annual average basis) of: ☐ Yes ☒ No

1) Stormwater discharge volume, unless precluded by the stormwater management limitations in the Permit (Part III.D.5.a(3)(a)).
2) Stormwater discharges of TSS.
3) Stormwater discharges of TP.

3. **Stormwater management limitations and exceptions:**

a. Limitations

1) Prohibit the use of infiltration techniques to achieve the conditions for post-construction stormwater management in the Permit (Part III.D.5.a(2)) when the infiltration structural stormwater BMP will receive discharges from, or be constructed in areas: ☐ Yes ☒ No

a) Where industrial facilities are not authorized to infiltrate industrial stormwater under an NPDES/SDS Industrial Stormwater Permit issued by the MPCA.
b) Where vehicle fueling and maintenance occur.
c) With less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock.
d) Where high levels of contaminants in soil or groundwater will be mobilized by the infiltrating stormwater.

2) Restrict the use of infiltration techniques to achieve the conditions for post-construction ☐ Yes ☒ No

stormwater management in the Permit (Part III.D.5.a(2)), without higher engineering review, sufficient to provide a functioning treatment system and prevent adverse impacts to groundwater, when the infiltration device will be constructed in areas:

a) With predominately Hydrologic Soil Group D (clay) soils.
b) Within 1,000 feet up-gradient, or 100 feet down-gradient of active karst features.
c) Within a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, subp. 13.
d) Where soil infiltration rates are more than 8.3 inches per hour.

3) For linear projects where the lack of right-of-way precludes the installation of volume control practices that meet the conditions for post-construction stormwater management in the Permit (Part III.D.5.a(2)), the permittee's regulatory mechanism(s) may allow exceptions as described in the Permit (Part III.D.5.a(3)(b)). The permittee's regulatory mechanism(s) shall ensure that a reasonable attempt be made to obtain right-of-way during the project planning process. ☐ Yes ☒ No

4. **Mitigation provisions:** The permittee's regulatory mechanism(s) shall ensure that any stormwater discharges of TSS and/or TP not addressed on the site of the original construction activity are addressed through mitigation and, at a minimum, shall ensure the following requirements are met:

a. Mitigation project areas are selected in the following order of preference: ☐ Yes ☒ No
   1) Locations that yield benefits to the same receiving water that receives runoff from the original construction activity.
   2) Locations within the same Minnesota Department of Natural Resource (DNR) catchment area as the original construction activity.
   3) Locations in the next adjacent DNR catchment area up-stream
   4) Locations anywhere within the permittee's jurisdiction.

b. Mitigation projects must involve the creation of new structural stormwater BMPs or the retrofit of existing structural stormwater BMPs, or the use of a properly designed regional structural stormwater BMP. ☐ Yes ☒ No

c. Routine maintenance of structural stormwater BMPs already required by this permit cannot be used to meet mitigation requirements of this part. ☐ Yes ☒ No

d. Mitigation projects shall be completed within 24 months after the start of the original construction activity. ☐ Yes ☒ No

e. The permittee shall determine, and document, who will be responsible for long-term maintenance on all mitigation projects of this part. ☒ Yes ☐ No

f. If the permittee receives payment from the owner and/or operator of a construction activity for mitigation purposes in lieu of the owner or operator of that construction activity meeting the conditions for post-construction stormwater management in Part III.D.5.a(2), the permittee shall apply any such payment received to a public stormwater project, and all projects must be in compliance with Part III.D.5.a(4)(a)-(e). ☐ Yes ☒ No

5. **Long-term maintenance of structural stormwater BMPs:** The permittee's regulatory mechanism(s) shall provide for the establishment of legal mechanisms between the permittee and owners or operators responsible for the long-term maintenance of structural stormwater BMPs not owned or operated by the permittee, that have been implemented to meet the conditions for post-construction stormwater management in the Permit (Part III.D.5.a(2)). This only includes structural stormwater BMPs constructed after the effective date of this permit and that are directly connected to the permittee's MS4, and that are in the permittee's jurisdiction. The legal mechanism shall include provisions that, at a minimum:

a. Allow the permittee to conduct inspections of structural stormwater BMPs not owned or operated by the permittee, perform necessary maintenance, and assess costs for those structural stormwater BMPs when the permittee determines that the owner and/or operator of that structural stormwater BMP has not conducted maintenance. ☒ Yes ☐ No

b. Include conditions that are designed to preserve the permittee's right to ensure maintenance responsibility, for structural stormwater BMPs not owned or operated by the permittee, when those responsibilities are legally transferred to another party. ☐ Yes ☒ No

c. Include conditions that are designed to protect/preserve structural stormwater BMPs and site features that are implemented to comply with the Permit (Part III.D.5.a(2)). If site configurations or structural stormwater BMPs change, causing decreased structural stormwater BMP effectiveness, new or improved structural stormwater BMPs must be implemented to ensure the conditions for post-construction stormwater management in the Permit (Part III.D.5.a(2)) continue to be met. ☐ Yes ☒ No

If you answered **no** to any of the above permit requirements, describe the tasks and corresponding schedules that will be taken to assure that, within twelve (12) months of the date permit coverage is extended, these permit requirements are met:

B.2.a, B.2.b. Review and Amend current post-construction stormwater ordinance and City Design Standards, which includes goals for reducing post-development TSS and TP on an annual basis, to include volume-control and be more consistent with permit language for new and redevelopment sites. The City Engineer will draft these amendments they will be placed on the City Council's meeting agenda for approval within 12 months following the date permit coverage is extended.

B.3.a.1: The City will review and amend the ordinance and City Design Standards to include prohibiting the use of infiltration techniques for post-construction stormwater management as described in the Permit (PartIII.D.5.a(3)(a).1). The ordinance will be amended on the same schedule as the items in B.2.a and B.2.b.

B.3.a.2: The City will review and amend the ordinance and City Design Standards to include restricting the use of infiltration techniques for post-construction stormwater management as described in the Permit (PartIII.D.5.a(3)(a).2). This will occur on the same schedule as the items above.

B.3.a.3: The City will review and amend the ordinance and City Design Standards to include the exceptions for linear projects as described in the Permit (PartIII.D.5.a(3)(b)). This will occur on the same schedule as the items above.

B.4.a.: The City will review and amend the ordinance and City Design Standards to include order of preference for selecting mitigation project areas as described in the Permit (PartIII.D.5.a(4)(a)). This will occur on the same schedule as the items above.

B.4.b.: The City will review and amend the ordinance and City Design Standards to include requirements for the creation of mitigation projects as described in the Permit (PartIII.D.5.a(4)(b)). This will occur on the same schedule as the items above.

B.4.c.: The City will review andamend the ordinance and City Design Standards to include the restriction from using routine maintenance of structural BMPs to meet the requirements for mitigation projects as described in the Permit (PartIII.D.5.a(4)(c)). This will occur on the same schedule as the items above.

B.4.d.: The City will review and amend the ordinance and City Design Standards to include the requirement to complete mitigation projects within 24 months after the start of the original construction activity as described in the Permit (PartIII.D.5.a(4)(d)). This will occur on the same schedule as the items above.

B.4.e.: The City will review and amend the ordinance and City Design Standards to include requirement for identifying the person responsible for long-term maintenance of mitigation projects as described in the Permit (PartIII.D.5.a(4)(e)). This will occur on the same schedule as the items above.

B.5.b.: The City will review and amend the ordinance and City Design Standards to mandate that money received from an owner/operator of construction activity, in lieu of meeting the conditions for post-construction stormwater management, shall be used for a public stormwater project as described in the Permit (PartIII.D.5.a(4)(f)). This will occur on the same schedule as the items above.

B.4.f.: The City will amend the ordinance and City Design Standards to include conditions that require maintenance responsibility for structural stormwater BMPs through transfer of ownership as described in the Permit (PartIII.D.5.a(5)(b)). This will occur on the same schedule as the items above.

B.5.c.: The City will review and amend the ordinance and City Design Standards to include conditions to address BMP modification in the future as described in the Permit (PartIII.D.5.a(5)(c)). This will occur on the same schedule as the items above.

III. Enforcement Response Procedures (ERPs): (Part II.D.3)

A. Do you have existing ERPs that satisfy the requirements of the Permit (Part III.B.)? ☒ Yes ☐ No

1. If **yes**, attach them to this form as an electronic document, with the following file naming convention: *MS4NameHere_ERPs.*
2. If **no**, describe the tasks and corresponding schedules that will be taken to assure that, with twelve (12) months of the date permit coverage is extended, these permit requirements are met:

   Current ERPs are in city code: Section 1080.14 Violations, enforcement, and penalties.

B. Describe your ERPs:

Section 1080.14 Violations, enforcement, and penalties

Subd. 1. Violations

Subd. 2. Warning Notice

Subd. 3. Notice of Violation

Subd. 4. Compensatory Action

Subd. 5. Suspension of MS4 access.

Subd. 6. Civil Penalties

Subd. 7. Criminal Prosecution

IV. Storm Sewer System Map and Inventory: (Part II.D.4.)

A. Describe how you manage your storm sewer system map and inventory:

Storm Sewer system map is scheduled to be updated during the next permit cycle..

B. Answer **yes** or **no** to indicate whether your storm sewer system map addresses the following requirements from the Permit (Part III.C.1.a-d), as listed below:

1. The permittee's entire small MS4 as a goal, but at a minimum, all pipes 12 inches or greater in diameter, including stormwater flow direction in those pipes. ☐ Yes ☒ No
2. Outfalls, including a unique identification (ID) number assigned by the permittee, and an associated geographic coordinate. ☒ Yes ☐ No
3. Structural stormwater BMPs that are part of the permittee's small MS4. ☒ Yes ☐ No
4. All receiving waters. ☒ Yes ☐ No

If you answered **no** to any of the above permit requirements, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met:

Inventory will be updated within 12 months of the date permit coverage is extended.

C. Answer **yes** or **no** to indicate whether you have completed the requirements of 2009 Minnesota Session Law, Ch. 172. Sec. 28: with the following inventories, according to the specifications of the Permit (Part III.C.2.a.-b.), including:

1. All ponds within the permittee's jurisdiction that are constructed and operated for purposes of water quality treatment, stormwater detention, and flood control, and that are used for the collection of stormwater via constructed conveyances. ☒ Yes ☐ No
2. All wetlands and lakes, within the permittee's jurisdiction, that collect stormwater via constructed conveyances. ☒ Yes ☐ No

D. Answer **yes** or **no** to indicate whether you have completed the following information for each feature inventoried.

1. A unique identification (ID) number assigned by the permittee. ☐ Yes ☒ No
2. A geographic coordinate. ☒ Yes ☐ No
3. Type of feature (e.g., pond, wetland, or lake). This may be determined by using best professional judgment. ☐ Yes ☒ No

If you have answered **yes** to all above requirements, and you have already submitted the Pond Inventory Form to the MPCA, then you do not need to resubmit the inventory form below.

If you answered **no** to any of the above permit requirements, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met:

B.2. The City will update the storm sewer map to include a unique identification number for each stormwater feature inventoried as described in the Permit (Part III.C.2.b).

B.3. The City will update the storm sewer map to include a type of feature for each stormwater feature inventoried as described in the Permit (Part III.C.2.b.).

E. Answer **yes** or **no** to indicate if you are attaching your pond, wetland and lake inventory to the MPCA on the form provided on the MPCA website at: http://www.pca.state.mn.us/ms4 , according to the specifications of Permit (Part III.C.2.b.(1)-(3)). Attach with the following file naming convention: *MS4NameHere_inventory*. ☐ Yes ☒ No

If you answered **no,** the inventory form must be submitted to the MPCA MS4 Permit Program within 12 months of the date permit coverage is extended.

V. Minimum Control Measures (MCMs) (Part II.D.5)

A. MCM1: Public education and outreach

1. The Permit requires that, within 12 months of the date permit coverage is extended, existing permittees revise their education and outreach program that focuses on illicit discharge recognition and reporting, as well as other specifically selected stormwater-related issue(s) of high priority to the permittee during this permit term. Describe your **current** educational program, including **any high-priority topics included**:

   The city of Tonka bay when able to looks to partner with Minnehaha Creek Watershed District MCWCD to provide education to our residents and contractors. Newsletter distributed to residents includes stormwater section discussing proper practices for activities such as fall yard practices and winter deicing.

2. List the categories of BMPs that address your public education and outreach program, including the distribution of educational materials and a program implementation plan. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

   Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the U.S. Environmental Protection Agency's (EPA) *Measurable Goals Guidance for Phase II Small MS4s* (http://www.epa.gov/npdes/pubs/measurablegoals.pdf).

   If you have more than five categories, hit the tab key after the last line to generate a new row.

Established BMP categories	**Measurable goals and timeframes**
Education Activity Implementation Plan	*Complete outline of education activity implementation program and implementation schedule for the upcoming permit year by June 30th.*
Meeting with Building Contractors, Developers, and Excavators	*Hold meetings as needed to inform these professionals of stormwater related issues. As needed.*
Meetings with Educational Professionals	*Work with Minnehaha Creek Watershed District to make effective use of stormwater education programs. The goal is 1 partnership per year. Those partnerships will be documented during the next 5 years*
Presentations to City Council	*Report on yearly NPDES regulations and activities in Annual Report, urban storm water impacts to water bodies, current SWPPP status during an annual presentation each year of permit cycle. Additionally we will provide a specific review of SWPPP when considering zoning request. As needed*
City Staff Meetings	*Provide a presentation at City Department meetings to generate Staff awareness of SWPPP regulations and to develop projects with appropriate BMPs applied. Per permit requirements*
Newsletter	*Published Newsletter to spread awareness of stormwater related issues and distributed about 1,400 copies. When funds are available to do so. Evaluated yearly.*

BMP categories to be implemented	**Measurable goals and timeframes**
Citizen Survey	*City will look to use the Cities Web page to survey citizen's about Stormwater issues. Evaluate in the first permit year with changes being implemented if needed.*
City Stormwater Information Link	*Measure hits to the web page. Evaluate program yearly.*

3. Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

   Public Works Director- Suggest Delegating to Support Staff

   City Admin staff

B. MCM2: Public participation and involvement

1. The Permit (Part III.D.2.a.) requires that, within 12 months of the date permit coverage is extended, existing permittees shall revise their current program, as necessary, and continue to implement a public participation/involvement program to solicit public input on the SWPPP. Describe your current program:

   An opportunity to hear comments on the SWPPP is provided each year during an annual meeting held in combination with a City Council Meeting.

2. List the categories of BMPs that address your public participation/involvement program, including solicitation and documentation

of public input on the SWPPP. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the EPA's *Measurable Goals Guidance for Phase II Small MS4s* (http://www.epa.gov/npdes/pubs/measurablegoals.pdf). **If you have more than five categories**, hit the tab key after the last line to generate a new row.

Established BMP categories	Measurable goals and timeframes
Annual Meeting	*Hold annual public meeting combined with City Council Meeting*
Volunteer Storm Drain Stenciling Program	*Engage community groups in a storm drain stenciling effort to increase awareness that the drains are connect to lakes and rivers. Program has been completed as part of an eagle/boy scout project during the past permit cycle and will continue as long as there is a want from organizations. Evaluate Yearly*

BMP categories to be implemented	Measurable goals and timeframes
Online Availability of Stormwater Pollution Prevention Program Document	Provide an electronic document of Stormwater Pollution Prevention Program document online, to allow anytime, easier access to these documents. Within 1st year of permit coverage.
Coordination Meeting	Hold a coordination meeting involving other MS4 permittees, regulatory agencies, and interested stakeholders to discuss progress of the stormwater management program and the next year's activities. Evaluated on a yearly basis.
Receive Citizen Input through Website	Incorporate to the City Website a stormwater page which allows residents to provide comments to City Staff for a number of topics. The goal will be to provide a link to one of the high priority topics identified in MCM1. Web page will be evaluated for function and effectiveness for receiving comments. The community may determine that phone complaints might be the best option.

3. Do you have a process for receiving and documenting citizen input? ☐ Yes ☒ No

   If you answered **no** to the above permit requirement, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, this permit requirement is met:

   The city recieves complaints on many issues by concened citizen's contacting the city through phone, corespondance and email.

   B.3. The City will develop written procedures for receiving, documenting and storing citizen input as described in the permit (Part III.C.2.b). Procedures will be in place within 12 months following the date permit coverage is extended.

4. Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

   City Admin - Delegates issues to proper departments.

C. MCM 3: Illicit discharge detection and elimination

1. The Permit (Part III.D.3.) requires that, within 12 months of the date permit coverage is extended, existing permittees revise their current program as necessary, and continue to implement and enforce a program to detect and eliminate illicit discharges into the small MS4. Describe your current program:

   The City has an ordinance that prohibits illicit discharges and connections. City Staff and public works employees are trained to look for any signs of an illicit discharge while on the job. ERPs guide what actions the City can take after an illicit discharge has been identified.

2. Does your Illicit Discharge Detection and Elimination Program meet the following requirements, as found in the Permit (Part III.D.3.c.-g.)?

   a. Incorporation of illicit discharge detection into all inspection and maintenance activities conducted under the Permit (Part III.D.6.e.-f.)Where feasible, illicit discharge inspections shall be conducted during dry-weather conditions (e.g., periods of 72 or more hours of no precipitation). ☒ Yes ☐ No

   b. Detecting and tracking the source of illicit discharges using visual inspections. The permittee may also include use of mobile cameras, collecting and analyzing water samples, and/or other detailed procedures that may be effective investigative tools. ☒ Yes ☐ No

   c. Training of all field staff, in accordance with the requirements of the Permit (Part III.D.6.g.(2)), in illicit discharge recognition (including conditions which could cause illicit discharges), and ☒ Yes ☐ No

reporting illicit discharges for further investigation.

d. Identification of priority areas likely to have illicit discharges, including at a minimum, evaluating land use associated with business/industrial activities, areas where illicit discharges have been identified in the past, and areas with storage of large quantities of significant materials that could result in an illicit discharge. ☐ Yes ☒ No

e. Procedures for the timely response to known, suspected, and reported illicit discharges. ☐ Yes ☒ No

f. Procedures for investigating, locating, and eliminating the source of illicit discharges. ☐ Yes ☒ No

g. Procedures for responding to spills, including emergency response procedures to prevent spills from entering the small MS4. The procedures shall also include the immediate notification of the Minnesota Department of Public Safety Duty Officer, if the source of the illicit discharge is a spill or leak as defined in Minn. Stat. § 115.061. ☒ Yes ☐ No

h. When the source of the illicit discharge is found, the permittee shall use the ERPs required by the Permit (Part III.B.) to eliminate the illicit discharge and require any needed corrective action(s). ☒ Yes ☐ No

If you answered **no** to any of the above permit requirements, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met:

C.2.b., The City will develop written procedures for detecting and tracking source of illicit discharges as described in the permit (Part III.D.3.d). Procedures will be in place within 12 months following the date permit coverage is extended.

C.2.d., The City will develop written procedures for identification of priority areas likely to have illicit discharges as described in the Permit (Part III.D.3.f). Procedures will be in place within 12 months following the date permit coverage is extended.

C.2.e., The City will develop written procedures for a timely response to known, suspected, and reported illicit discharges as described in the permit (Part III.D.3.g). Procedures will be in place within 12 months following the date permit coverage is extended.

C.2.f., The City will develop written procedures for investigating, locating and eliminating the source of illicit discharges as described in the Permit (Part III.D.3.f). Procedures will be in place within 12 months following the date permit coverage is extended.

3. List the categories of BMPs that address your illicit discharge, detection and elimination program. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

   Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the EPA's *Measurable Goals Guidance for Phase II Small MS4s* (http://www.epa.gov/npdes/pubs/measurablegoals.pdf).

   If you have more than five categories, hit the tab key after the last line to generate a new row.

Established BMP categories	**Measurable goals and timeframes**
Ordinance	*Review Ordinance yearly to ensure that it continues to meet the needs of the City and legal requirements.*
Training	*Conduct an educational seminar to educate the Public and City Employees about the hazards associated with illicit discharges. Invite one member of City Council, Minnehaha Creek Watershed District or other regulatory agency to attend.*

BMP categories to be implemented	**Measurable goals and timeframes**
Illicit Discharge Detection and Elimination (IDDE) Program	*Review annually the illicit discharge written procedures, detection, and response procedures connection test performed within. Utilize information document about the IDDE program as described in the Permit (Part III.3.h) to make adjustments to written procedures as necessary.*
Inspections	*Annually inspect locations identified as high-priority outfalls and around high-risk establishments (fast food restaurants, dumpster, car washes, mechanics, and oil changes.)*
Illicit Discharge Investigation	*If needed hire a consultant to televise a section of our sewer system, collect grab samples or perform other effective testing procedures to find illicit connection in the system.*
Community Reporting Options and Documentation Procedures	*IT department will update Request Tracker on City webpage to include a link to report Illicit Discharges. This will allow the city to receive, document, and respond to citizen reports of illicit discharges.*

4. Do you have procedures for record-keeping within your Illicit Discharge Detection and Elimination (IDDE) program as

specified within the Permit (Part III.D.3.h.)? ☐ Yes ☒ No

If you answered **no**, indicate how you will develop procedures for record-keeping of your Illicit Discharge, Detection and Elimination Program, within 12 months of the date permit coverage is extended:

C.4., The City will develop written procedures for receiving, documenting and storing citizen input as descriped in the permit (Part III.D.3.h). Procedueres will be in place within 12 months following the date permit coverage is extended.

5. Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

Public Works Director - Suggest Delegating to public works staff

D. MCM 4: Construction site stormwater runoff control

1. The Permit (Part III.D.4) requires that, within 12 months of the date permit coverage is extended, existing permittees shall revise their current program, as necessary, and continue to implement and enforce a construction site stormwater runoff control program. Describe your current program:

The City requires review of construction site erosion and sediment control (ESC) plans before projects begin, and work with contractors to ensure appropriate and correct use of erosion and sediment control BMPs on sites. The building inspection department is who primarly checks for compliancy with construction site ESC plans.

2. Does your program address the following BMPs for construction stormwater erosion and sediment control as required in the Permit (Part III.D.4.b.):
   a. Have you established written procedures for site plan reviews that you conduct prior to the start of construction activity? ☐ Yes ☒ No
   b. Does the site plan review procedure include notification to owners and operators proposing construction activity that they need to apply for and obtain coverage under the MPCA's general permit to *Discharge Stormwater Associated with Construction Activity No. MN R100001*? ☐ Yes ☒ No
   c. Does your program include written procedures for receipt and consideration of reports of noncompliance or other stormwater related information on construction activity submitted by the public to the permittee? ☐ Yes ☒ No
   d. Have you included written procedures for the following aspects of site inspections to determine compliance with your regulatory mechanism(s):
      1) Does your program include procedures for identifying priority sites for inspection? ☐ Yes ☒ No
      2) Does your program identify a frequency at which you will conduct construction site inspections? ☐ Yes ☒ No
      3) Does your program identify the names of individual(s) or position titles of those responsible for conducting construction site inspections? ☐ Yes ☒ No
      4) Does your program include a checklist or other written means to document construction site inspections when determining compliance? ☐ Yes ☒ No
   e. Does your program document and retain construction project name, location, total acreage to be disturbed, and owner/operator information? ☒ Yes ☐ No
   f. Does your program document stormwater-related comments and/or supporting information used to determine project approval or denial? ☒ Yes ☐ No
   g. Does your program retain construction site inspection checklists or other written materials used to document site inspections? ☒ Yes ☐ No

If you answered **no** to any of the above permit requirements, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met.

D.2.a., The city uses the MPCA SWPPP Checklist for site plan reviews but does not have any estabilished written procedures. The City will develop written procedures for site plan reviews as described in the Permit (Part III.D.4.b). Procedures will be in place within 12 months following the date permit coverage is extended.

D.2.b., The City will include a notification to owners and operators proposing construction activity to apply for and obtain coverage uder the MPCA's construction activity permit into the written procedures fro (D.2.a) as described in the Permit (Part III.D.4.b). Notification will be inclueded in the procedures within 12 months following the date permit coverage is extended.

D.2.c., The City will develop written procedures for receipt and consideration of reports of noncompliance or other stormwater related information on construction activity submitted by the public as described in the Permit (Part III.D.4.c). Procedures will be in place within 12 months following the date permit coverage is extended.

D.2.d., City will develop written procedures for conducting site ESC inspections as described in the Permit (Part III.D.4.d). Procedures will be in place within 12 months following the date permit coverage is extended.

3. List the categories of BMPs that address your construction site stormwater runoff control program. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the EPA's *Measurable Goals Guidance for Phase II Small MS4s* (http://www.epa.gov/npdes/pubs/measurablegoals.pdf). **If you have more than five categories**, hit the tab key after the last line to generate a new row.

Established BMP categories	**Measurable goals and timeframes**
Site Plan Review	*City Engineering Staff utilizes SWPPP Checklist (wq-strm2-47) for review of NPDES Erosion Control Permits submitted to the department for review.*
Erosion Protection Maintenance Memo to Builders	*Update the erosion control handout when needed, handout explains how to properly install a silt fence and other erosion control BMPs is given to the application when a building permit is picked up.*

BMP categories to be implemented	**Measurable goals and timeframes**
Permit Update	*Update the City Grading, Building, and ROW permits and Construction Site Stormwater Runoff ordinance to meet MPCA General Permit to Discharge Stormwater Associate with Construction Activity within 12 months following the date permit coverage is extended*
Checklist for Site Plan Review	*Update procedures for site plan review annually and incorporate changes into the review process.*
Prioritize Inspections	*Ensure at least 10% of inspections conducted annually are performed at deemed high priority inspection sites (e.g., near sensitive receiving waters, projects larger than 5 acres)*
Permit Application System	*Develop written procedures to track and archive all plan review and inspection documents within 12 months following the date permit coverage is extended.*

4. Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

   City Engineer / City Staff

E. MCM 5: Post-construction stormwater management

1. The Permit (Part III.D.5.) requires that, within 12 months of the date permit coverage is extended, existing permittees shall revise their current program, as necessary, and continue to implement and enforce a post-construction stormwater management program. Describe your current program:

   The City has a post-construction sotrmwater management ordinace to encourage the utilization of BMPs for stormwater runoff from new and redevelopment projects, as well as to ensure the maintenance and operation of the stormwater BMPs.

2. Have you established written procedures for site plan reviews that you will conduct prior to the start of construction activity? ☐ Yes ☒ No

3. Answer **yes** or **no** to indicate whether you have the following listed procedures for documentation of post-construction stormwater management according to the specifications of Permit (Part III.D.5.c.):
   a. Any supporting documentation that you use to determine compliance with the Permit (Part III.D.5.a), including the project name, location, owner and operator of the construction activity, any checklists used for conducting site plan reviews, and any calculations used to determine compliance? ☐ Yes ☒ No
   b. All supporting documentation associated with mitigation projects that you authorize? ☐ Yes ☒ No
   c. Payments received and used in accordance with Permit (Part III.D.5.a.(4)(f))? ☐ Yes ☒ No
   d. All legal mechanisms drafted in accordance with the Permit (Part III.D.5.a.(5)), including date(s) of the agreement(s) and names of all responsible parties involved? ☐ Yes ☒ No

   If you answered **no** to any of the above permit requirements, describe the steps that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met.

   E.2., The City uses the MPCA SWPPP Checklist for site plan reviews but does not have any estabilished written procedures. The City will develop written procedures for site plan reviews as described in the Permit (Part III.D.5.b.). Procedures will be in place within 12 months following the date permit coverage is extended.

   E.3., The City will develop written procedures for documention of post-construciton stomwater management as

described in the Permit (Part III.D.5.c.). Procedures will be in place within 12 months following the date permit coverage is extended.

4. List the categories of BMPs that address your post-construction stormwater management program. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

   Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. Refer to the EPA's *Measurable Goals Guidance for Phase II Small MS4s* (http://www.epa.gov/npdes/pubs/measurablegoals.pdf). **If you have more than five categories**, hit the tab key after the last line to generate a new row.

Established BMP categories	**Measurable goals and timeframes**
Site Plan Review	*Completed plan review process and documentation procedures for sites qualifying as a land disturbance in accordance with definition set in the City Ordinance.*
Encourage the use of structural and non-structural BMPs during review of new and redevelopment projects	*Implement Stormwater retention/detention ponds as a BMP immediately in areas where it is appropriate* *Developers encouraged to install rain gardens* *Possible implantation of sand and organic filters into plan review process*
Stormwater Retention/Detention	*Implement Stormwater retention/detention ponds as a BMP immediately in areas where it is appropriate*
Outlet Structure stabilization	*Number of structures stabilized*
Land Development Ordinance	*Complete Ordinance including illicit discharges, erosion and sediment control at construction sites, and post construction runoff from new development and redevelopment*
Inspections to verify proper maintenance of stormwater BMPs	*Annual inspections of 20% of completed City-Owned BMPs*

BMP categories to be implemented	**Measurable goals and timeframes**
Update ordinance to meet new permit requirements	*Within 12 months of extension of permit coverage, revise ordinance to meet permit requirements*
Develop Written Procedures for Site Plan Review	*Within 12 months of extension of permit coverage, develop site plan review procedures that must be completed prior to the start of construction activity*
Document Pertinent Project Information	*Maintain all related documents pertaining to each new or redeployment project in more user-friendly filing system for better records management. Implement within 6 months.*
BMP Construction Guidance	*Develop BMP Construction Guidance document for developers and contractors within 12 months of permit coverage extension.*

5. Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

   Public Works Director / City Staff - Consider additional options for cordination.

F. MCM 6: Pollution prevention/good housekeeping for municipal operations

1. The Permit (Part III.D.6.) requires that, within 12 months of the date permit coverage is extended, existing permittees shall revise their current program, as necessary, and continue to implement an operations and maintenance program that prevents or reduces the discharge of pollutants from the permittee owned/operated facilities and operations to the small MS4. Describe your current program:

   The City currently inspects its structural pollution control devices on an annual basis and inspects all of its outfalls, sediment basins and ponds every 5 years. The City inspects stockpiles, storage and material handling areas at the maintenance yard for potential discharges and maintenance of BMPs. The City is evaluating the use of road salt for winter road maintenance activities to reduce chlorides entering our water resources. The City sweeps streets on a regular basis. Maintenance staff is trained annually on various topics related to pollution prevention during maintenance activities.

2. Do you have a facilities inventory as outlined in the Permit (Part III.D.6.a.)? ☐ Yes ☒ No

3. If you answered **no** to the above permit requirement in question 2, describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, this permit requirement is met:

   The city will create a facilities inventory as outline in the permit within 12 months of the date permit coverage is extended.

4. List the categories of BMPs that address your pollution prevention/good housekeeping for municipal operations program. Use the first table for categories of BMPs that you have established and the second table for categories of BMPs that you plan to implement over the course of the permit term.

   Include the measurable goals with appropriate timeframes that each BMP category will be implemented and completed. In addition, provide interim milestones and the frequency of action in which the permittee will implement and/or maintain the BMPs. For an explanation of measurable goals, refer to the EPA's *Measurable Goals Guidance for Phase II Small MS4s* (http://www.epa.gov/npdes/pubs/measurablegoals.pdf).

   If you have more than five categories, hit the tab key after the last line to generate a new row.

Established BMP categories	**Measurable goals and timeframes**
Park and Open Space Training Program	*Training focused on fertilizer application, pesticide/herbicide application, and mowing discharge.*
Fleet and Building Maintenance Training Program	*Training focused on automotive maintenance program (automotive inspections and washing), spill cleanup training, hazardous materials training, building leak prevention and inspection training.*
Stormwater Systems Maintenance Training Program	*Training focused on parking lot and street cleaning, storm drain systems cleaning, road salt materials management*
Parking Lots & Street Cleaning	*Train Employees and document number of times each street is swept annual.*
Storm Drain Cleaning System	*Document Number of Sumps cleaned per year.*
Road Salt Materials Management Program	*Document amount of salt applied each year and train employees in road salt management and application rates.*
Strom Sewer Inspection Program	*Annual inspection of 20% of completed City-Owned BMPs* *Annual inspection of 100% of pollution control devices*
Evaluate Inspection Frequency	*Evaluate inspection records and determine if inspection frequency needs to increase or decrease.*

BMP categories to be implemented	**Measurable goals and timeframes**
Develop Spill Prevention & Control Plans for Municipal Facilities	*Develop plans describing spill prevention and control procedures by the end of Year 1. Conduct annual spill prevention and response training sessions to all municipal employees. Distribute education materials, i.e. posters and pamphlets, to each municipal facility by the end of year 2.*
Increase Inspection Frequency of Maintenance Yard	*Once weekly and after all rain events utilizing a checklist for the inspection that documents findings and allows staff to compare to previous inspections*
Facility Inventory	*Continue to develop facilities inventory to include potential pollutants. Create a map of all identified facilities.*
Pond Assessment Procedures & Schedule	*In year 1, develop procedures for determining TSS and TP treatment effectiveness of city owned ponds use for treatment of stormwater. Implement schedule in year 2-5*

5. Does discharge from your MS4 affect a Source Water Protection Area (Permit Part III.D.6.c.)? ☐ Yes ☒ No

   a. If **no**, continue to 6.

   b. If **yes**, the Minnesota Department of Health (MDH) is in the process of mapping the following items. Maps are available at http://www.health.state.mn.us/divs/eh/water/swp/maps/index.htm. Is a map including the following items available for your MS4:

      1) Wells and source waters for drinking water supply management areas identified as vulnerable under Minn. R. 4720.5205, 4720.5210, and 4720.5330? ☐ Yes ☐ No

      2) Source water protection areas for surface intakes identified in the source water ☐ Yes ☐ No

assessments conducted by or for the Minnesota Department of Health under the federal Safe Drinking Water Act, U.S.C. §§ 300j – 13?

c. Have you developed and implemented BMPs to protect any of the above drinking water sources? ☐ Yes ☐ No

6. Have you developed procedures and a schedule for the purpose of determining the TSS and TP treatment effectiveness of all permittee owned/operated ponds constructed and used for the collection and treatment of stormwater, according to the Permit (Part III.D.6.d.)? ☐ Yes ☒ No

7. Do you have inspection procedures that meet the requirements of the Permit (Part III.D.6.e.(1)-(3)) for structural stormwater BMPs, ponds and outfalls, and stockpile, storage and material handling areas? ☐ Yes ☒ No

8. Have you developed and implemented a stormwater management training program commensurate with each employee's job duties that:

   a. Addresses the importance of protecting water quality? ☐ Yes ☒ No

   b. Covers the requirements of the permit relevant to the duties of the employee? ☐ Yes ☒ No

   c. Includes a schedule that establishes initial training for new and/or seasonal employees and recurring training intervals for existing employees to address changes in procedures, practices, techniques, or requirements? ☐ Yes ☒ No

9. Do you keep documentation of inspections, maintenance, and training as required by the Permit (Part III.D.6.h.(1)-(5))? ☐ Yes ☒ No

If you answered **no** to any of the above permit requirements listed in **Questions 5 – 9**, then describe the tasks and corresponding schedules that will be taken to assure that, within 12 months of the date permit coverage is extended, these permit requirements are met:

F.6. The City will develop a procedure for assessing ponds to determine TSS and TP effectiveness as described in the Permit (Part III.D.6.d) This study will develop procedures for determining TSS and TP treatment effectiveness of city-owned ponds used for treatment of stormwater. A schedule will be implemented in years 2 thru 5.

F.7., The City will develop written procedures for inspection of structural stormwater BMPs, ponds and outfalls, and stockpile, storage and material handling areas as described in the Permit (Part III.D.6.f.). Procedures will be in place within 12 months following the date permit coverage is extended.

F.8., The City will develop and implement a stormwater management training program commensurate with each employees job duties as described in the Permit (Part III.D.6.g.). Procedures will be in place within 12 months following the date permit coverage is extended.

F.8., The City will developwitten procedures to document inspections, mainenance, and training as described in the Permit (Part III.D.6.h.). Procedures will be in place within 12 months following the date permit coverage is extended.

10. Provide the name or the position title of the individual(s) who is responsible for implementing and/or coordinating this MCM:

Public works Director - evauate assign to additional staff.

VI. Compliance Schedule for an Approved Total Maximum Daily Load (TMDL) with an Applicable Waste Load Allocation (WLA) (Part II.D.6.)

A. Do you have an approved TMDL with a Waste Load Allocation (WLA) prior to the effective date of the Permit? ☐ Yes ☒ No

1. If **no**, continue to section VII.

2. If **yes**, fill out and attach the MS4 Permit TMDL Attachment Spreadsheet with the following naming convention**:** *MS4NameHere_TMDL.*

   This form is found on the MPCA MS4 website: http://www.pca.state.mn.us/ms4.

VII. Alum or Ferric Chloride Phosphorus Treatment Systems (Part II.D.7.)

A. Do you own and/or operate any Alum or Ferric Chloride Phosphorus Treatment Systems which are regulated by this Permit (Part III.F.)? ☐ Yes ☒ No

1. If **no**, this section requires no further information.

2. If **yes**, you own and/or operate an Alum or Ferric Chloride Phosphorus Treatment System within your small MS4, then you must submit the Alum or Ferric Chloride Phosphorus Treatment Systems Form supplement to this document, with the following naming convention: *MS4NameHere_TreatmentSystem*.

This form is found on the MPCA MS4 website: http://www.pca.state.mn.us/ms4.

VIII. Add any Additional Comments to Describe Your Program

BMP PAGE

Unique Identifying Number: 1-A

Permit Requirements Addressed by this BMP:

Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.		

BMP Title: Education Activity Implementation Plan

BMP Description:

The City will provide stormwater education and outreach programs for residents within the City. The City will complete an outline of the education program and implementation schedule for the upcoming permit cycle.

Measurable Goals:

The City will document the number of publications and households served by publication.
The effectiveness of this BMP will be measured by the number of articles and brochures published in newsletters, distributed via City mailings/website and WD workshops, and visits to the City's website.
Success of this BMP is defined as developing then implementing the educational activities schedule and distributing/hosting a minimum of four educational materials, workshops, or presentations per year.

Responsible Person:

Name:	Carol Spoerner
Title:	Bookkeeper/Utility Billing Clerk
Phone:	(952) 474-7994
Email:	cspoerner@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 1-B

Permit Requirements Addressed by this BMP:

Part III.D.1.	Part III.D.1.	Part III.D.1.				

BMP Title: Meetings with Building Contractors, Developers, and Excavators

BMP Description:

The City staff will hold meetings as needed to inform building contractors, developers, and excavators of stormwater related issues as appropriate as well as updates on ways to be compliant with the MPCA General Permit for construction.

Measurable Goals:

Track the number of new construction sites within the City each year to determine how many new construction professionals are receiving this information. The goal will be met by meeting with each construction site every year.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 1-C

Permit Requirements Addressed by this BMP:

Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.			

BMP Title: Meetings with Educational Professionals

BMP Description:

Work with Minnehaha Creek Watershed District, and Environmental Commission Group to make effective use of stormwater education programs as appropriate.

Measurable Goals:

The goal will be met by maintaining an effective partnership with the Minnehaha Creek Watershed District to help implement an appropriate stormwater education program.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 1-D

Permit Requirements Addressed by this BMP:

Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.		

BMP Title: Presentations to City Council

BMP Description:

Report on yearly NPDES regulations and activities in Annual Report, urban stormwater impacts to waterbodies, current SWPPP status during an annual presentation each year of permit cycle. Additionally provide a specific review of SWPPP when considering zoning request.

Measurable Goals:

Document attendance and record minutes at the public meeting, record statements and written comments and document changes made to the SWPPP. Effectiveness will be evaluated based upon the amount of resident feedback is received.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 1-E

Permit Requirements Addressed by this BMP:

Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.			

BMP Title: City Staff Meetings

BMP Description:

Provide a presentation at City Department meetings to generate Staff awareness of Stormwater Pollution Prevention Plan regulations and to develop projects with appropriate BMPs applied.

Measurable Goals:

The goal will be met by making the City staff aware of the program changes to the SWPPP and the MS4 permit provided by the MPCA.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 1-F

Permit Requirements Addressed by this BMP:

Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.			

BMP Title: City Newsletter

BMP Description:

City staff will develop then distribute stormwater related articles in the City newsletter. This goal will be met by distributing a minimum of two stormwater related articles in the City newsletter each year.

Measurable Goals:

Track the number of newsletters that were distributed. The goal will be met by distributing a minimum of two stormwater related articles in the City newsletter each year.

Responsible Person:

Name:	Carol Spoerner
Title:	Bookkeeper/Utility Billing Clerk
Phone:	(952) 474-7994
Email:	cspoerner@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 1-G

Permit Requirements Addressed by this BMP:

Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.		

BMP Title: Citizen Survey

BMP Description:

Send out a written survey in a random sample of mailings. The survey will gauge each selected household's practices related to the topic that will be featured in the following fall's brochure. This will help the City understand what topics are important to the City. Implementation to be within the next 5 year permit cycle.

Measurable Goals:

The goal of this BMP will be met by the availability of the survey to the citizens of Tonka Bay, as well as the amount of surveys taken.

Responsible Person:

Name:	Carol Spoerner
Title:	Bookkeeper/Utility Billing Clerk
Phone:	(952) 474-7994
Email:	cspoerner@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 1-H

Permit Requirements Addressed by this BMP:

Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.	Part III.D.1.		

BMP Title: City Stormwater Information Link

BMP Description:

The City updates their web page by providing information on high priority stormwater pollution prevention topics and effects of illicit discharge to City residents and business owners. The goal will be to add new material as it becomes available and record the number of website hits annually.

Measurable Goals:

Track website hits to the stormwater documents available. Track the comments left by community members about the stormwater program.

Responsible Person:

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Phone:	(952) 474-7994
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BMP PAGE

Unique Identifying Number: 2-A

Permit Requirements Addressed by this BMP:

Part III.D.2.	Part III.D.2.	Part III.D.2.	Part III.D.2.	Part III.D.2.		

BMP Title: Follow Applicable Public Notice Requirements

BMP Description:

Provide public notice of meeting to provide input on the SWPPP in accordance with City public hearing notification requirements.

Measurable Goals:

Make sure the notice for the public is posted within the acceptable timeframe for public input. The effectiveness of this BMP will be measured by the number of public notices posted.

Responsible Person:

Name:	Carol Spoerner
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Phone:	(952) 474-7994
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BMP PAGE

Unique Identifying Number: 2-B

Permit Requirements Addressed by this BMP:

Part III.D.2.	Part III.D.2.	Part III.D.a.	Part III.D.2.	Part III.D.2.		

BMP Title: Annual Meeting

BMP Description:

Hold an annual public meeting combined with a City Council meeting or other public participation/involvement event to solicit public input on the SWPPP, discuss its effectiveness, or make amendments to current SWPPP. Explore new venues and enhance meeting effectiveness and participation.

Measurable Goals:

Document attendance and record minutes at the public meeting, record statements and written comments and document changes made to the SWPPP. Effectiveness will be evaluated based upon the amount of resident feedback is received.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 2-C

Permit Requirements Addressed by this BMP:

Part III.D.2.	Part III.D.2.	Part III.D.2.	Part III.D.2.	Part III.D.2.		

BMP Title: Volunteer Storm Drain Stenciling Program

BMP Description:

Engage community groups in a storm drain stenciling effort to increase awareness that the drains are connected to lakes and rivers. The goal is to complete all of the storm drains.

Measurable Goals:

The goal of this BMP will be met by documenting all of the storm drains that have been stenciled by members of community groups. The goal is to complete all of them.

Responsible Person:

Name:	Robin Bowman
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BMP PAGE

Unique Identifying Number: 2-D

Permit Requirements Addressed by this BMP:

Part III.D.2.	Part III.D.2.	Part III.D.2.				

BMP Title: Online Availability of Stormwater Pollution Prevention Program Document

BMP Description:

Provide an electronic document of the SWPPP document to allow viewing anytime and easier access to these documents.

Measurable Goals:

The effectiveness of this BMP will be measured by tracking the number of website hits to the SWPPP and the amount of public input submitted electronically.

Responsible Person:

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BMP PAGE

Unique Identifying Number: 2-E

Permit Requirements Addressed by this BMP:

Part III.D.2.	Part III.D.2.	Part III.D.a.	Part III.D.2.	Part III.D.2.		

BMP Title: Coordination Meeting

BMP Description:

Hold a coordination meeting involving other MS4 permittees, regulatory agencies, and interested stakeholders to discuss progress of the stormwater management program and the next year's activities. Explore new venues and enhance meeting effectiveness and participation.

Measurable Goals:

Document attendance and record minutes at the coordination meeting, record statements and written comments and document changes made to the SWPPP. Effectiveness will be evaluated based upon information gathered from the other regulated MS4 communities.

Responsible Person:

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Name:	Joe Kohlmann
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BMP PAGE

Unique Identifying Number: 2-F

Permit Requirements Addressed by this BMP:

Part III.D.2.	Part III.D.2.	Part III.D.2.	Part III.D.2.	Part III.D.2.		

BMP Title: Receive Citizen Input Through Website

BMP Description:

The IT department will update request system on City webpage to include a link to report illicit discharges. This will allow the City to receive, document, and respond to citizen reports of illicit discharges.

Measurable Goals:

The effectiveness of this BMP will be measured by annually documenting all reported non-storm water discharges occurring on City owned land, private property, and right-of-ways, as well as any remedial actions taken (if applicable). The success will also be measured by the amount of reports submitted by members of the public.

Responsible Person:

Name:	Carol Spoerner
Title:	Bookkeeper/Utility Billing Clerk
Phone:	(952) 474-7994
Email:	cspoerner@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 3-A

Permit Requirements Addressed by this BMP:

Part III.D.3.	Part III.D.3.	Part III.D.3.				

BMP Title: Illicit Discharge Detection and Elimination (IDDE) and Enforcement Ordinance/Rules

BMP Description:

Review ordinance annually to ensure that ordinance continues to meet the needs of the City and legal requirements. Elements of this ordinance will include, but are not limited to, defining allowable discharges, setting policy as it pertains to violations and penalties, and mitigation requirements.

Measurable Goals:

The effectiveness of this BMP will be measured by the number of enforcement actions issued annually. Success will be defined as the review of existing ordinances or amendments made to the illicit discharge ordinance.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 3-B

Permit Requirements Addressed by this BMP:

Part III.D.3.	Part III.D.3.					

BMP Title: Training

BMP Description:

Conduct an educational seminar to educate the Public and City Employees about the hazards associated with illicit discharges. Invite one member of the City Council or other regulatory agency to attend.

Measurable Goals:

The effectiveness of this BMP will be measured by the number of enforcement actions issued annually. Success will be defined as the types of trainings offered to the City staff.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 3-C

Permit Requirements Addressed by this BMP:

Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.	

BMP Title: Illicit Discharge Detection and Elimination (IDDE) Program

BMP Description:

Develop written program and implement it as defined in City SWPPP to meet requirements of Part III.D.3.c.h. of the MS4 General Permit. This BMP includes providing information on recycling options, services, and programs within the City. The City will also review the current educational activities undertaken by its staff to eliminate illicit discharges from general City operations.

Measurable Goals:

The City will continue to annually review the educational content of printed literature for adequacy and update as necessary. BMP effectiveness will be measured by the number of calls to the City regarding illegal dumping or illicit discharges. Also, success will be defined by providing educational material to the City staff a minimum of one time annually.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
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Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 3-D

Permit Requirements Addressed by this BMP:

Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.			

BMP Title: Illicit Discharge Inspections

BMP Description:

In year 1, the City will map out areas that are identified as high-priority outfalls and around high-risk establishments (fast food restaurants, dumpsters, car washes, mechanics, and oil changes). In years 2-5, the City will integrate those sites into its annual MS4 inspection activities. The City will notify the MPCA state duty officer of any hazardous material spills or discharges.

Measurable Goals:

The effectiveness of this BMP will be measured by:
1. Annually documenting the number of miles covered by trash and debris collection,
2. Annually documenting all reported non-stormwater discharges occurring on City owned land, private property, and right-of-way, as well as any remedial actions taken (if applicable).

Responsible Person:

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Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 3-E

Permit Requirements Addressed by this BMP:

Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.			

BMP Title: Illicit Discharge Investigation

BMP Description:

As needed, City staff or a consultant will be used to televise a selection of the sewer system, collect grab samples, or perform other effective testing procedures to find illicit connection identified in the system.

Measurable Goals:

All non-stormwater discharges (as defined in Part III.D.3.f.) were evaluated and determined to be insignificant sources of pollutants to the MS4.

Responsible Person:

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Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 3-F

Permit Requirements Addressed by this BMP:

Part III.A.	Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.		

BMP Title: Community Reporting Options and Documentation Procedures

BMP Description:

The IT department will update request system on City webpage to include a link to report illicit discharges. This will allow the City to receive, document, and respond to citizen reports of illicit discharges.

Measurable Goals:

The effectiveness of this BMP will be measured by annually documenting all reported non-storm water discharges occurring on City owned land, private property, and right-of-ways, as well as any remedial actions taken (if applicable). The success will also be measured by the amount of reports submitted by members of the public.

Responsible Person:

Name:	Robin Bowman
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Name:	Carol Spoerner
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BMP PAGE

Unique Identifying Number: 3-G

Permit Requirements Addressed by this BMP:

Part III.A.	Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.	Part III.D.3.

BMP Title: Standard Operating Procedures (SOPs)

BMP Description:

Develop Standard Operating Procedures (SOPs) for Illicit Discharge Detection and Elimination (IDDE) within the initial 12 months of the beginning date of permit coverage.

Measurable Goals:

The effectiveness of this BMP and the SOPs for IDDE will be calculated by the amount of regulation as well as maintaining compliance with the NPDES MS4 permit.

Responsible Person:

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Title:	Public Works Superintendent
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BMP PAGE

Unique Identifying Number: 4-A

Permit Requirements Addressed by this BMP:

Part III.D.4.	Part III.D.4.	Part III.D.4.				

BMP Title: Construction Site Plan Review

BMP Description:

Every applicant for a city permit to allow land disturbing activities is required to submit a project specific stormwater management plan (if applicable) and/or erosion control plan to the City for review and approval. Construction permits will be required to meet MPCA NPDES Phase II guidelines for erosion and sediment control and all applicable City ordinances and codes.

Measurable Goals:

No City permit to allow land disturbing activities shall be issued until approval of a stormwater management plan (if applicable) and/or erosion control plan, or waiver of the approval requirement has been obtained. Success will be defined as enforcing the permit's submittal requirement.

Responsible Person:

Name:	Joe Kohlmann
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Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 4-B

Permit Requirements Addressed by this BMP:

Part III.D.4.	Part III.D.4.	Part III.D.4.				

BMP Title: Erosion Protection Maintenance Memo to Builders

BMP Description:

An erosion control handout, which explains how to properly install a silt fence and other erosion control BMPs is given to the application when a building permit is picked up. On going. Detail sheets will be updates as appropriate.

Measurable Goals:

Success of this BMP will be determined by implementation of each erosion and sediment control used on construction sites and if they are installed properly according to the details available to the builders.

Responsible Person:

Name:	Joe Kohlmann
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Phone:	(952) 474-7994
Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 4-C

Permit Requirements Addressed by this BMP:

Part III.D.4.	Part III.D.4.	Part III.D.4.				

BMP Title: Permit Update

BMP Description:

Update the City Grading, Building, and ROW permits and Contraction Site Stormwater Runoff ordinance to meet the new permit requirements within 12 month following the date permit coverage is extended. City staff will review and revise (if applicable) current City ordinances and codes annually for conformance to new or amended NPDES construction permit and/or watershed district erosion control standards.

Measurable Goals:

The City will annually review and update as necessary the City's erosion control ordinances.

Responsible Person:

Name:	Joe Kohlmann
Title:	City Administrator
Phone:	(952) 474-7994
Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 4-D

Permit Requirements Addressed by this BMP:

Part III.D.4.	Part III.D.4.	Part III.D.4.	Part III.D.4.			

BMP Title: Checklist for Site Plan Review

BMP Description:

Update procedures for site plan review annually and incorporate changes into the review process. The City will develop a process to determine the frequency for inspecting high priority inspection sites (e.g. near sensitive receiving waters, projects larger than 5 acres).

Measurable Goals:

The City will begin to annually evaluate the effectiveness of site inspections and enforcement procedures via enforcement actions taken annually. Additional and/or revised procedures will be added (if applicable) when deemed necessary or found non-conforming to NPDES Phase II requirements. The goal will be met from this BMP by the reduction in stormwater compliance issues of construction sites.

Responsible Person:

Name:	Joe Kohlmann
Title:	City Administrator
Phone:	(952) 474-7994
Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 4-E

Permit Requirements Addressed by this BMP:

Part III.D.4.	Part III.D.4.	Part III.D.4.	Part III.D.4.			

BMP Title: Prioritize Inspections

BMP Description:

The City will develop a process to determine the frequency for inspecting high priority inspection sites (e.g. near sensitive receiving waters, projects larger than 5 acres). The process will be developed onto a city map that calls out these sensitive areas.

Measurable Goals:

The City will begin to annually evaluate the effectiveness of site inspections and enforcement procedures via enforcement actions taken annually. Additional and/or revised procedures will be added (if applicable) when deemed necessary or found non-conforming to NPDES Phase II requirements.

Responsible Person:

Name:	unknown
Title:	Building Inspector
Phone:	(763) 479-1720
Email:	unknown

BMP PAGE

Unique Identifying Number: 4-F

Permit Requirements Addressed by this BMP:

Part III.D.4.	Part III.D.4.	Part III.D.4.	Part III.D.4.	Part III.D.4.		

BMP Title: Permit Application System

BMP Description:

Develop procedures to integrate construction site stormwater runoff review and inspection documents into permit tracking program. The documents will help to maintain compliance with the MPCA and the City Code on these construction sites.

Measurable Goals:

The effectiveness of this BMP will be determined by the amount of permits applied for and the ease to complete the inspections of the construction sites.

Responsible Person:

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Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 4-G

Permit Requirements Addressed by this BMP:

Part III.A.	Part III.D.4.	Part III.D.4.	Part III.D.4.			

BMP Title: Standard Operating Procedures (SOPs)

BMP Description:

Complete an annual review of SOPs for site inspections and site plan reviews by evaluating checklists and existing guidelines to ensure they are up-to-date to reflect MPCA's current construction general permit requirements.

Measurable Goals:

The effectiveness of this BMP and the SOPs for IDDE will be calculated by the amount of regulation as well as maintaining compliance with the NPDES MS4 permit.

Responsible Person:

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BMP PAGE

Unique Identifying Number: 4-H

Permit Requirements Addressed by this BMP:

Part III.B.1.	Part III.B.2.	Part III.D.4.	Part III.D.4.	Part III.D.4.		

BMP Title: Develop Enforcement Response Procedures (ERPs)

BMP Description:

Establish/outline enforcement response procedures (ERPs) for construction site activities that enforce the standard operating procedures and permit requirements.

Measurable Goals:

The effectiveness of this BMP will be measured by the amount of violations and enforcement actions taken place throughout each year within the City.

Responsible Person:

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Phone:	(952) 474-7994
Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 5-A

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.		

BMP Title: Site Plan Review Program

BMP Description:

The City will review and revise (if necessary, during the plan review process) permanent BMP designs and criteria for post-construction stormwater management associated with new development and redevelopment projects of one acre or more. The City will also actively look for non-structural opportunities where prudent and feasible.

Measurable Goals:

The goal of this BMP will be met if the City conducts plan reviews on new development and redevelopment projects of one acre or more. Success of this BMP is defined as annually recording all revised BMP designs and implemented structural and non-structural BMPs on City properties.

Responsible Person:

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Phone:	(952) 474-7994
Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 5-B

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.			

BMP Title: Encourage the Use of Structural and Non-structural BMPs

BMP Description:

Implement stormwater retention/detention ponds as a BMP immediately in areas where it is appropriate during the review of new and redevelopment projects. Developers encouraged to install rain gardens. Possible implantation of sand and organic filters into plan review process. On going.

Measurable Goals:

The goal of this BMP will be met if the City conducts plan reviews on new development and redevelopment projects of one acre or more. Success of this BMP is defined as annually recording all revised BMP designs and implemented structural and non-structural BMPs on City properties.

Responsible Person:

Name:	Joe Kohlmann
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BMP PAGE

Unique Identifying Number: 5-C

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.			

BMP Title: Stormwater Retention/Detention

BMP Description:

Implement stormwater retention/detention ponds as a BMP immediately in areas where it is appropriate during the review of new and redevelopment projects. Implement stormwater retention/detention ponds as a BMP immediately in areas where it is appropriate. On going.

Measurable Goals:

The goal of this BMP will be met if the City conducts plan reviews on new development and redevelopment projects of one acre or more. Success of this BMP is defined as annually recording all revised BMP designs and implemented structural and non-structural BMPs on City properties. Success will also be measured by the reduction of stormwater runoff entering the city system.

Responsible Person:

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Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 5-D

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.			

BMP Title: Outlet Structure Stabilization

BMP Description:

During the inspections of outlet structures, they will be maintained on an as-needed basis. The City requires outlet structure stabilization within the standard specification for construction including but not limited to tie-rods, stabilization seeding, and class IV-V riprap. The City will continue to include this BMP during construction and document the number of structures stabilized.

Measurable Goals:

The goal of this BMP will be met if the City conducts plan reviews on new development and redevelopment projects of one acre or more. Success of this BMP is defined by the duration of outlet structure stability and the process of maintenance.

Responsible Person:

Name:	Robin Bowman
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Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 5-E

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.			

BMP Title: Land Development Ordinance

BMP Description:

Completed ordinance defining standards, review procedures and enforcement response procedures for erosion and sediment control at construction sites, and post construction runoff from new development and redevelopment.

Measurable Goals:

The effectiveness of this BMP will be measured by the reduction in TP and TSS at development and redevelopment sites.

Responsible Person:

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BMP PAGE

Unique Identifying Number: 5-F

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.	Part III.D.5.				

BMP Title: Inspections to Verify Proper Maintenance of Stormwater BMPs

BMP Description:

City staff will inspect post-construction BMP's then evaluate inspection records for determining the corrective maintenance actions (if necessary) for the long-term operation of all stormwater management facilities owned by the City of Tonka Bay. Corrective actions and routine maintenance of all stormwater management facilities will be guided by the Comprehensive Stormwater Management Plan.

Measurable Goals:

The City will continue to annually inspect a minimum of 20% of all its MS4 outfalls, sediment basins, and ponds, then evaluate and record the number of proposed maintenance projects and successful funding of each project (if applicable). Success of this BMP is defined as achieving the measurable goals of minimum control measure six.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 5-G

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.	Part III.D.5.	

BMP Title: Update Ordinance to Meet New Permit Requirements

BMP Description:

Complete Ordinance updates for post-construction runoff from new development and redevelopment within 12 months of extension of permit coverage.

Measurable Goals:

The City will annually review and update as necessary the City's post-construction ordinance and permit requirements.

Responsible Person:

Name:	Joe Kohlmann
Title:	City Administrator
Phone:	(952) 474-7994
Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 5-H

Permit Requirements Addressed by this BMP:

Part III.D.5. | Part III.D.5. | Part III.D.5. | Part III.D.5. | Part III.D.5. | Part III.D.5. | Part III.D.5.

BMP Title: Standard Operating Procedures (SOPs)

BMP Description:

In addition to existing stormwater management design guidelines and standards, the City will develop SOPs within the initial 12 months of the date of permit coverage to strengthen Post Construction Stormwater Management.

Measurable Goals:

The effectiveness of this BMP and the SOPs for post-construction will be calculated by the amount of regulation as well as maintaining compliance with the NPDES MS4 permit.

Responsible Person:

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Title:	City Administrator
Phone:	(952) 474-7994
Email:	jkohlmann@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 5-I

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.					

BMP Title: Document Pertinent Project Information

BMP Description:

Maintain all related documents pertaining to each new or redevelopment project in more user-friendly filing system for better records management. Implement within 12 months of the date of permit coverage.

Measurable Goals:

The effectiveness of this BMP will be measured by the ability to track records of inspections and maintenance pertaining to this minimal control measure.

Responsible Person:

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BMP PAGE

Unique Identifying Number: 5-J

Permit Requirements Addressed by this BMP:

Part III.D.5.	Part III.D.5.					

BMP Title: BMP Construction Guidance

BMP Description:

Develop a BMP Construction Guidance document for developers and contractors within 12 months of permit coverage extensions.

Measurable Goals:

The effectiveness of this BMP will be measured by the ability to track records of inspections and maintenance pertaining to this minimal control measure.

Responsible Person:

Name:	Joe Kohlmann
Title:	City Administrator
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BMP PAGE

Unique Identifying Number: 6-A

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.				

BMP Title: Park and Open Space Training

BMP Description:

Develop written procedures for the existing program to train full-time and seasonal employees on proper use and application of fertilizers and pesticides for maintenance of City lands.

Measurable Goals:

The effectiveness of this BMP will be maintained by holding the training sessions during times of the year when most seasonal employees are present.

Responsible Person:

Name:	Robin Bowman
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Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 6-B

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.	Part III.D.6.			

BMP Title: Fleet and Building Maintenance Training Program

BMP Description:

Training focused on automotive maintenance program (automotive inspections and washing), spill cleanup training, hazardous materials training, building leak prevention and inspection training.

Measurable Goals:

The effectiveness of this BMP will be measured by City staff annually attending appropriate training sessions throughout the year that focus on stormwater management within the fleet and building maintenance.

Responsible Person:

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BMP PAGE

Unique Identifying Number: 6-C

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.				

BMP Title: Stormwater Systems Maintenance Training Program

BMP Description:

Training focused on parking lot and street cleaning, storm drain systems cleaning, road salt materials management.

Measurable Goals:

The effectiveness of this BMP will be measured by City staff annually attending appropriate training sessions throughout the year that focus on stormwater management.

Responsible Person:

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Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 6-D

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.				

BMP Title: Parking Lots & Street Cleaning

BMP Description:

The City currently brush or vacuum sweeps City owned streets a minimum of twice per year in an effort to reduce the amount of sediment and trash from reaching the storm sewer system. One street sweeping activity will occur in the spring (April-June) on all streets, and the second activity will occur in the fall (September –November) on selected areas (as determined by the City Administrator).

Measurable Goals:

The City will continue recording the frequency and miles of streets that are annually swept, and quantify the amount of trash/debris removed per sweeping occurrence. Success of this BMP is defined as recording two street sweeping occurrences per year.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 6-E

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.				

BMP Title: Storm Drain Cleaning System

BMP Description:

Conduct one inspection of all City-owned ponds and outfalls prior to expiration date of the MS4 General Permit. Annually inspect of 100% of structural pollution control devices. Maintenance on these systems will occur as-needed.

Measurable Goals:

Maintenance and repair specifications and schedules will be developed and implemented as necessary. Success of this BMP will be defined as annually conducting and documenting inspections, repairs, and maintenance projects of all structural pollution control devices.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 6-F

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.	Part III.D.6.			

BMP Title: Road Salt Application Review

BMP Description:

The City will review the practices and policies of road salt applications such as alternative products, calibration of equipment, inspection of vehicles and staff training.

Measurable Goals:

The City will record, review, then adjust (if applicable) its practices in salt distribution. Success will be defined as reviewing and adjusting current practices as necessary.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 6-G

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.				

BMP Title: Storm Sewer Inspection Program

BMP Description:

Conduct one inspection of all City-owned ponds and outfalls prior to expiration date of the MS4 General Permit. Annually inspect of 100% of structural pollution control devices.

Measurable Goals:

Maintenance and repair specifications and schedules will be developed and implemented as necessary. Success of this BMP will be defined as annually conducting and documenting inspections, repairs, and maintenance projects of all structural pollution control devices.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 6-H

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.	Part III.D.6.			

BMP Title: Evaluation of Inspection Frequency

BMP Description:

The City will retain the records of inspection results and any maintenance performed or recommended. After two years of inspections, if patterns of maintenance become apparent, the frequency of inspections may be adjusted at the discretion of the City's engineering consultant.

Measurable Goals:

The effectiveness of this BMP will be measured by the annual recording of all inspections completed the previous year. Success of this BMP will be defined as annually reviewing the frequency of inspections to the maintenance completed by the City.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 6-I

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.	Part III.D.6.			

BMP Title: Develop Spill Prevention & Control Plans for Municipal Facilities

BMP Description:

Ensure that plans describing spill prevention and control procedures are consistent among all departments. Conduct annual spill prevention and response training sessions to all municipal employees. Distribute education materials to each municipal facility by the end of year 2.

Measurable Goals:

A spill prevention and control plan effectively reduces the risk of surface and ground water contamination. However, to be effective, workers must be trained, materials and cleanup equipment available, and procedures followed.

Responsible Person:

Name:	Robin Bowman
Title:	Public Works Superintendent
Phone:	(952) 474-2947
Email:	rbowman@cityoftonkabay.net

BMP PAGE

Unique Identifying Number: 6-J

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.	Part III.D.6.			

BMP Title: Facility Inventory

BMP Description:

The City will develop and maintain an inventory of City-owned facilities that contribute pollutants to stormwater discharges. The inventory will include a map of all identified facilities.

Measurable Goals:

The effectiveness of this BMP will be determined by the reduction of pollutants running off of these sites as well as the usability of the inventory.

Responsible Person:

Name:	Robin Bowman
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BMP PAGE

Unique Identifying Number: 6-K

Permit Requirements Addressed by this BMP:

Part III.D.6.	Part III.D.6.	Part III.D.6.				

BMP Title: Pond Assessment Procedures & Schedule

BMP Description:

In year 1, develop procedures for determining TSS and TP treatment effectiveness of city owned ponds use for treatment of stormwater. Implement schedule in year 2-5. The schedule (which may exceed this permit term) shall be based on measureable goals and priorities established by the City.

Measurable Goals:

The effectiveness of this BMP will be measured by the reduction of TSS and TP discharge into the stormwater systems. Success of this BMP will be defined as conducting and documenting inspections, repairs, and maintenance to the stormwater ponds.

Responsible Person:

Name:	Robin Bowman
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City of Tonka Bay, Minnesota

Pond Inventory

N
W E
S

0 1,250 2,500
Feet

CityBoundary
MS4 Outfalls
Storm Sewer
MnDNR Public Waters

Pond Inventory
Pond
Wetland
Lake

19
Wetland-012
Wetland-010
Wetland-009
Minnetonka-Upper Lake
Wetland-008
Wetland-007
Minnetonka-Lower Lake
Wetland-006
Wetland-004
Pond-001
Pond-002
Wetland-005
Pond-003
Wetland-003
Wetland-001
Wetland-002
Gideon Bay
Wetland-011
Pond-004
19

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

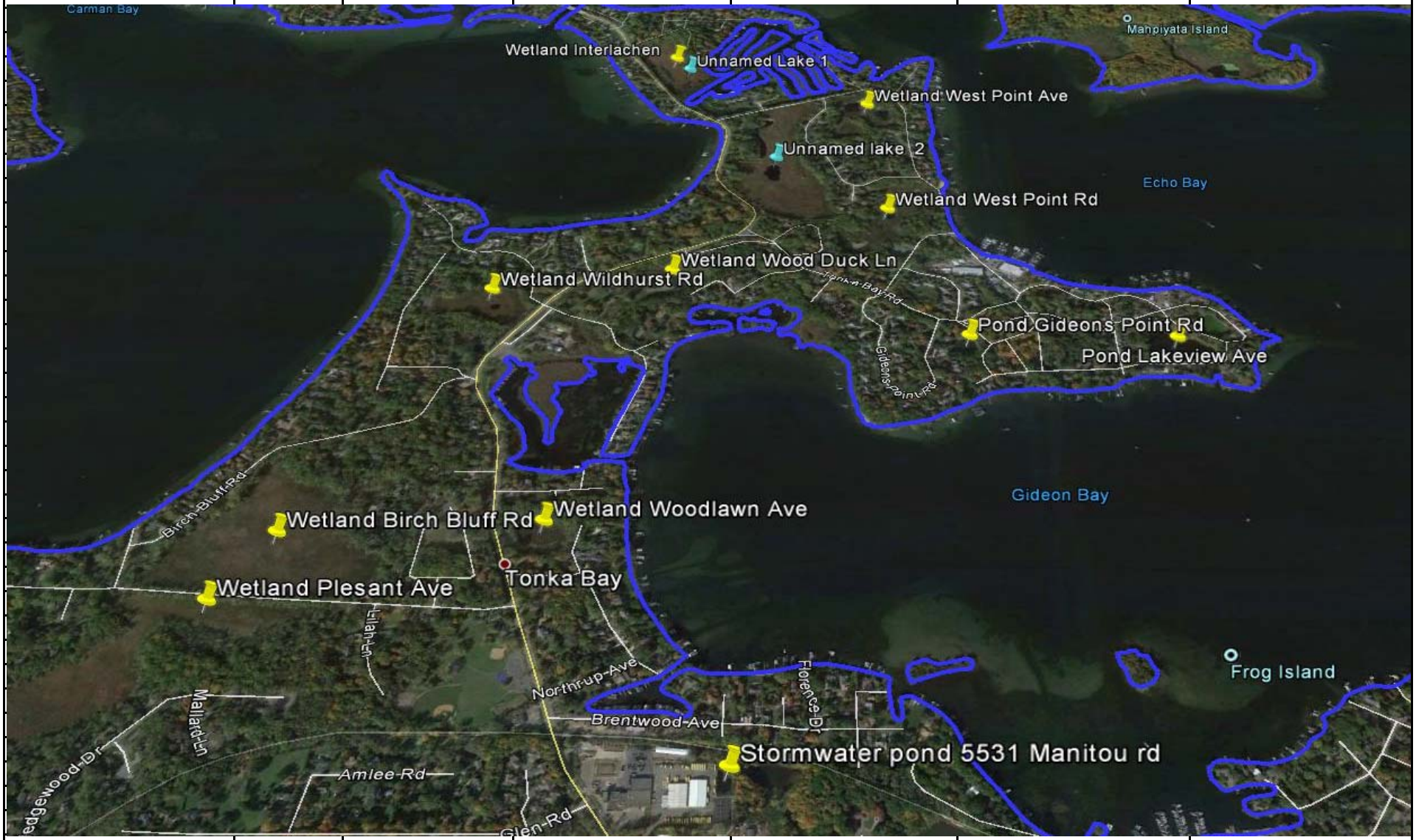
MS4 Pond, Wetland, and Lake Inventory Form

Municipal Separate Storm Sewer System (MS4) Program

Doc Type: Plans/Specifications/Maps

Name of MS4 Permittee	Date form completed	Unique ID Number	Type of Feature (Pond, Wetland or Lake)	Feature Common Name (If Applicable)	Y Coordinate (Latitude) Decimal Degrees	X Coordinate (Longitude) Decimal Degrees
Tonka Bay City	12/5/2016	27013300	Lake	Minnetonka	44°55'1.74"N	93°33'52.37"W
Tonka Bay City	12/5/2016		Lake	Unnamed Lake 1	44°55'13.54"N	93°35'13.26"W
Tonka Bay City	12/5/2016		Lake	Unnamed Lake 2	44°55'27.15"N	93°35'23.47"W
Tonka Bay City	12/5/2016		Wetland	Interlachen	44°55'28.97"N	93°35'25.11"W
Tonka Bay City	12/5/2016		Wetland	West Point Ave	44°55'21.02"N	93°35'2.98"W
Tonka Bay City	12/5/2016		Wetland	West Point Rd	44°55'6.12"N	93°35'1.57"W
Tonka Bay City	12/5/2016		Pond	Lakeview Ave	44°54'50.74"N	93°34'34.82"W
Tonka Bay City	12/5/2016		Pond	Gideons Point Rd	44°54'50.83"	93°34'54.71"W
Tonka Bay City	12/5/2016		Wetland	Wood Duck Ln	44°54'58.50"N	93°35'23.41"W
Tonka Bay City	12/5/2016		Wetland	Wildhurst Rd	44°54'57.04"N	93°35'41.12"W
Tonka Bay City	12/5/2016		Wetland	Birch Bluff Rd	44°54'33.41"N	93°35'54.76"W
Tonka Bay City	12/5/2016		Wetland	Plesant Ave	44°54'27.96"N	93°35'58.66"W
Tonka Bay City	12/5/2016		Wetland	Woodlawn Ave	44°54'34.02"N	93°35'32.55"W
Tonka Bay City	12/5/2016		pond	5531 Manitou rd	44°54'15.56"N	93°35'16.21"W

Name of MS4 Permittee	Date form completed	Unique ID Number	Type of Feature (Pond, Wetland or Lake)	Feature Common Name (If Applicable)	Y Coordinate (Latitude) Decimal Degrees	X Coordinate (Longitude) Decimal Degrees



Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

MS4 Pond, Wetland, and Lake Inventory Form

Municipal Separate Storm Sewer System (MS4) Program

Doc Type: Plans/Specifications/Maps

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