



**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](mailto: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](mailto:claudia.hochstein@state.mn.us), Dan Miller at 651-757-2246 or [daniel.miller@state.mn.us](mailto: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 Northfield \*County: Dakota/Rice  
*(city, county, municipality, government agency or other entity)*  
\*Mailing address: 801 Washington Street  
\*City: Northfield \*State: MN \*Zip code: 55057  
\*Phone (including area code): 507-645-8833 \*E-mail: jasper.kruggel@ci.northfield.mn.us

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

\*Last name: Kruggel \*First name: Jasper  
*(department head, MS4 coordinator, consultant, etc.)*  
\*Title: GIS & Engineering Technician  
\*Mailing address: 801 Washington Street  
\*City: Northfield \*State: MN \*Zip code: 55057  
\*Phone (including area code): 507-645-3027 \*E-mail: jasper.kruggel@ci.northfield.mn.us

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

Last name: \_\_\_\_\_ First name: \_\_\_\_\_  
*(department head, MS4 coordinator, consultant, etc.)*  
Title: \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Phone (including area code): \_\_\_\_\_ E-mail: \_\_\_\_\_

## Verification

- 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
- 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)

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- 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: Jasper J. Kruggel  
*(This document has been electronically signed)*

Title: GIS & Engineering Technician Date (mm/dd/yyyy): 12/10/2013

Mailing address: 801 Washington Street

City: Northfield State: MN Zip code: 55057

Phone (including area code): 507-645-3027 E-mail: jasper.kruggel@ci.northfield.mn.us

**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*.

## 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:

*Northfield City Code, Chapter 22 - Environment, Article VI. - Surface Water Management, Division 3. Illicit Discharge and Illegal Connection to the Stormwater System, Sec. 22-351*

Direct link:

<http://bit.ly/J2RawS>

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:

## 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: \_\_\_\_\_

- 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:

*Northfield City Code, Chapter 22 - Environment, Article VI. - Surface Water Management, Division 2. Stormwater Management, Sec. 22-301*

Direct link:

<http://bit.ly/1bvrpiF>

- 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:

- 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.   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. BMPs to minimize the discharge of sediment and other pollutants.  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3. BMPs for dewatering activities.   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 4. Site inspections and records of rainfall events   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5. BMP maintenance   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Management of solid and hazardous wastes on each project site.  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 8. Criteria for the use of temporary sediment basins.  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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:

## 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: \_\_\_\_\_

- 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:

*Northfield City Code, Chapter 22 - Environment, Article VI. - Surface Water Management, Division 2. Stormwater Management, Sec. 22-302*

Direct link:

<http://bit.ly/JbXd38>

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 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:  Yes  No
      - 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:

*The Public Works Department will be releasing a RFP in January requesting services from an outside consulting organization to help us implement these requirements. Areas we answered "no" (2A&B, 3-A1, 3-A3, 4A through 4F, and 5A through 5C) will be addressed and will be properly added to our stormwater ordinances. Included in our RFP will be a feasibility study used to determine if a position should be created in the City to monitor and regulate these measure or if outside consulting services will be sufficient.*

### 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:  
*We will included the development of ERPs in the RFP to be released in January.*

B. Describe your ERPs:

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

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

*Our storm sewer system data is managed using an ArcSDE database which utilizes Microsoft SQL Server 2012. We then pair that RDBMS with ESRI ArcGIS for Server Enterprise Standard to view and make necessary updates and edits in the field. We also have the ability to plot off large format maps of our system focusing on any aspect we find necessary.*

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:

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:

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 Northfield recently partnered up with the Cannon River Watershed Partnership to develop a more robust public education and outreach program.*

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
1A-1 & 1C-2 - Organize volunteers to stencil message on storm drains - <i>No Dumping Drains to Cannon River</i> . Will focus on using existing groups – scouts, neighborhood or homeowner associations, park groups.  Distribution of door hangers in neighborhoods where stenciling takes place.	100 Drains (location TBD by city), 500 door hangers  At least 25 people participate  Completed in 2013. (Priority 3)
1A-1 & 1C-2 - Host rain barrel workshops where participants learn about water conservation and stormwater pollution. Attendees pay Fee to CRWP for each rain barrel. City gives \$20 credit for utility bill.	3 workshops, estimate 30 participants/barrels  Completed in 2013. (Priority 1 and 3)
1A-1 & 1C-2 - Host rain garden workshops where residents learn basics of what rain gardens area and how they help reduce stormwater pollution. Promote the City rain garden cost-share program.	2 workshops, at least 20 participants.  Completed in 2013. (Priority 1)

BMP categories to be implemented	Measurable goals and timeframes
1A-1, 1C-2, 1E-1 - Host a talk about stormwater that will meet the requirements of the permit for an annual public meeting. CRWP will plan to host this in conjunction with citizen-led Earth Day event, if reasonably possible	Reach at least 5500 households with invitation in water bill. 10 people attend.  Complete task by the end of 2014 (Priority 1, 2, 3)
1A-1 & 1C-2 - Attend homeowner association meetings or schedule gatherings for neighbors who have land on stormwater ponds to provide info on what they are and how to maintain land around the ponds. Take a walk around the ponds to showcase examples of good landscaping for pond quality.	Focus on Mayflower Hill/Parmeadow/Afton Street neighborhoods. Reach at least 300 people with invitation. At least 20 people attend.  Complete task by the end of 2014 (Priority 2)
1A-1 - Articles – 1 for each of the 3 priority topics - in newspaper and electronic media.  Interviews on KYMN radio for each topic as well.	Reach circulation of Northfield News, Locally Grown, Patch, KYMN. Complete task by the end of 2014 (Priority 1, 2, 3)
1A-1 - Poster contest for Northfield students on stormwater pollution– winners displayed at Library, schools, businesses, etc. Seek prizes from local businesses.	Reach 2000 students with announcement of contest. 100 students submit posters, 3 top winners. Reach ~ 3,000 people with displayed posters. Complete task by the end of 2014. (Priority 3)



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

*Jasper Kruggel, GIS & Engineering Technician*

**B. MCM2: Public participation and involvement**

- 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:

*The City of Northfield recently partnered up with the Cannon River Watershed Partnership to develop a more robust public education and outreach program*

- 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/hpdes/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
1A-1 & 1C-2 - Organize volunteers to stencil message on storm drains - <i>No Dumping Drains to Cannon River</i> . Will focus on using existing groups – scouts, neighborhood or homeowner associations, park groups.	100 Drains (location TBD by city), 500 door hangers  At least 25 people participate  Completed in 2013. (Priority 3)
Distribution of door hangers in neighborhoods where stenciling takes place.	
1A-1 & 1C-2 - Host rain barrel workshops where participants learn about water conservation and stormwater pollution. Attendees pay Fee to CRWP for each rain barrel. City gives \$20 credit for utility bill.	3 workshops, estimate 30 participants/barrels  Completed in 2013. (Priority 1 and 3)
1A-1 & 1C-2 - Host rain garden workshops where residents learn basics of what rain gardens area and how they help reduce stormwater pollution. Promote the City rain garden cost-share program.	2 workshops, at least 20 participants.  Completed in 2013. (Priority 1)
BMP categories to be implemented	Measurable goals and timeframes

- 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:

*A process for receiving and documenting citizen input will be developed in 2014 and will be a part of the RFP to be released in January 2014.*

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

*Jasper Kruggel, GIS & Engineering Technician*

**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:

*We will be developing an illicit discharge detection and elimination program in 2014. This will be included in the RFP that will be released in January.*

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 reporting illicit discharges for further investigation.  Yes  No
- 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:

*We will be developing an illicit discharge detection and elimination program in 2014. This will be included in the RFP that will be released in January.*

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
Storm Sewer Map	Review annually, update in real time using a RDBMS
BMP categories to be implemented	Measurable goals and timeframes
Regulatory Mechanism	Evaluate the current regulatory mechanism and consider amendments in accordance with the permit within 12 months of the date permit coverage is extended.
City Website	Include information on how the public can report illicit discharges. Complete this task within 12 months of date permit coverage is extended.

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:

*We will be developing an illicit discharge detection and elimination program in 2014. This will be included in the RFP that will be released in January.*

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

*Jasper Kruggel, GIS and Engineering Technician*

**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 of Northfield complies with standards that require compliance with the NPDES general permit. We require erosion and sedimentation provisions for construction sites. We will be reevaluating this aspect and will develop a more robust program in 2014.*

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.

*We will be reevaluating this aspect and will include this item to develop a protocol in the RFP being released in January of 2014.*

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
Comply with State and Local Codes	Continue compliance with state and local codes for construction

	and site runoff control. Be compliant in an annual review.

BMP categories to be implemented	Measurable goals and timeframes
Inspections	Develop a program to get into compliance with state and local codes for construction site runoff control. Program to be developed within 12 months of extension of permit coverage.
Establish Regulatory Mechanism	Establish regulatory mechanism for construction site runoff control within 12 months of extension of permit coverage.

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

Jasper Kruggel, GIS and Engineering Technician

**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 of Northfield complies with the requirements contained within our NDPEs General Permit. We will be evaluating and dedeveloping a more comprehensive Post-construction stormwater management program in 2014. This aspect will be included in the RFP being released in January 2014.*

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.

*We will be evaluating and dedeveloping a more comprehensive Post-construction stormwater management program in 2014. This aspect will be included in the RFP being released in January 2014.*

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
Comply with State and Local Codes	Continue compliance with state and local codes for post-construction stormwater management. Be compliant in an annual review.

<b>BMP categories to be implemented</b>	<b>Measurable goals and timeframes</b>
Training	Develop a training program on post-construction stormwater management compliance for developers within the community. Develop program within 12 months of extension of permit coverage.
Establish Regulatory Mechanism	Establish regulatory mechanism for post-construction stormwater management within 12 months of extension of permit coverage.

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

*Jasper Kruggel, GIS & Engineering Technician*

**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 of Northfield will be developing a Pollution prevention/good housekeeping for municipal operations program in 2014. This will be an item included in the RFP being released in January 2014.*

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 of Northfield will be developing a facilities inventory as outlined in the permit in 2014. This will be an item included in the RFP to be released in January 2014.*

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.

<b>Established BMP categories</b>	<b>Measurable goals and timeframes</b>
Parking lot and street sweeping	The City of Northfield sweeps the entire city, including parking lots at least two times in the spring and at least two times in the fall. Also, the downtown area streets and lots are swept every other week. This was practiced all of 2013 and will continue into 2014.
<b>BMP categories to be implemented</b>	<b>Measurable goals and timeframes</b>
Training	Develop a training program that covers MS4 topics. Document

	the attendance of employees in attendance. This will be completed within 12 months of extension of the permit coverage.

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 assessments conducted by or for the Minnesota Department of Health under the federal Safe Drinking Water Act, U.S.C. §§ 300j – 13?  Yes  No
- 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:

*The City of Northfield will include the aspects of MCM 6 in which we answered "No" in the RFP to be released in January 2014. We will use the consulting services derived from that RFP to develop and implement a protocol for pollution prevention/good housekeeping for municipal operations.*

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

*Jasper Kruggel, GIS & Engineering Technician*

## 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

*The City of Northfield plans to revamp our current program in 2014 to become 100% compliant to the new MS4 SWPPP requirements. We will do so by releasing an RFP in January to receive outside assistance in doing so. Throughout the year we will work to establish and implement new measures to enhance our stormwater management program.*

# TMDL Wasteload Allocation Excel Spreadsheet PART II.D.6.a.-e.

Copy and paste from the Master List MS4 TMDL Spreadsheet for your MS4 to the space below.

Attach this completed form with your SWPPP Document at the time of submittal. At a minimum, provide all of the information "" items (TMDL Project Name, Type of WLA, Numeric WLA, Unit, Flow Condition, and Pollutant of Concern).

Permittee name	Preferred ID	TMDL project name*	Waterbody ID	Type of WLA*	Numeric WLA*	Unit*	Percent reduction	Flow condition*	Waterbody name	Pollutant of concern*	Date approved
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040001-511	Categorical	13.1	tons/day		High	Cannon River, HUC boundary in Rice Lk Bottoms to Vermillion Slough/Mississippi R	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040001-511	Categorical	4.7	tons/day		Moist	Cannon River, HUC boundary in Rice Lk Bottoms to Vermillion Slough/Mississippi R	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040001-511	Categorical	3	tons/day		Mid-Range	Cannon River, HUC boundary in Rice Lk Bottoms to Vermillion Slough/Mississippi R	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040001-511	Categorical	1.5	tons/day		Dry	Cannon River, HUC boundary in Rice Lk Bottoms to Vermillion Slough/Mississippi R	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040001-511	Categorical	0.6	tons/day		Low	Cannon River, HUC boundary in Rice Lk Bottoms to Vermillion Slough/Mississippi R	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040002-502	Categorical	12.1	tons/day		High	Cannon River, Pine Creek to Belle Creek	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040002-502	Categorical	4.3	tons/day		Moist	Cannon River, Pine Creek to Belle Creek	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040002-502	Categorical	2.7	tons/day		Mid-Range	Cannon River, Pine Creek to Belle Creek	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040002-502	Categorical	1.4	tons/day		Dry	Cannon River, Pine Creek to Belle Creek	TSS	7/13/2007
Northfield City	MS400271	Lower Cannon River Turbidity TMDL	07040002-502	Categorical	0.5	tons/day		Low	Cannon River, Pine Creek to Belle Creek	TSS	7/13/2007
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-502	Categorical	6.86	10 <sup>12</sup> organisms/month		High	Cannon River, Pine Creek to Belle Creek	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-502	Categorical	2.52	10 <sup>12</sup> organisms/month		Moist	Cannon River, Pine Creek to Belle Creek	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-502	Categorical	1.12	10 <sup>12</sup> organisms/month		Mid-Range	Cannon River, Pine Creek to Belle Creek	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-502	Categorical	0.39	10 <sup>12</sup> organisms/month		Dry	Cannon River, Pine Creek to Belle Creek	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-502	Categorical	0.15	10 <sup>12</sup> organisms/month		Low	Cannon River, Pine Creek to Belle Creek	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-509	Categorical	6.82	10 <sup>12</sup> organisms/month		High	Cannon River, Northfield Dam to Lake Bylesby Inlet	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-509	Categorical	2.47	10 <sup>12</sup> organisms/month		Moist	Cannon River, Northfield Dam to Lake Bylesby Inlet	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-509	Categorical	1.07	10 <sup>12</sup> organisms/month		Mid-Range	Cannon River, Northfield Dam to Lake Bylesby Inlet	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-509	Categorical	0.35	10 <sup>12</sup> organisms/month		Dry	Cannon River, Northfield Dam to Lake Bylesby Inlet	Fecal Coliform	4/5/2006
Northfield City	MS400271	Lower Mississippi River Basin Fecal Coliform Bacteria TMDL	07040002-509	Categorical	0.11	10 <sup>12</sup> organisms/month		Low	Cannon River, Northfield Dam to Lake Bylesby Inlet	Fecal Coliform	4/5/2006



**Compliance Schedule PART II.D.6.f.-g.**

Is your MS4 currently meeting its WLA for any approved TMDLs?

- NO (Complete Table 1, Strategies for continued BMP implementation beyond the term of this permit, and Table 2 below)
- YES (Provide the following information below)

Go to:  
[Table 1](#)

Go to:  
[Strategies...](#)

Go to:  
[Table 2](#)

If YES, indicate the WLAs (may be grouped by TMDL Project) you believe are reasonably being met. For each WLA, list the implemented BMPs and provide a narrative strategy for the long-term continuation of meeting each WLA. PART II.D.6.g.(1)-(2)

-**Lower Cannon River Turbidity TMDL:** The implementation plan does not specifically call out for a percent reduction in turbidity from the City. In 2010 the City adopted a surface stormwater management ordinance for volume control that was more restrictive than the state requirement. A volume control standard of 0.75" has been enforced for expansion/redevelopment projects equal to or greater than 500 sq. ft. of impervious area. The City will continue to provide the same level of treatment to ensure compliance with the permit.

-**Lower Mississippi River Basin Fecal Coliform Bacteria TMDL:** The implementation does not specifically call out for a percent reduction in fecal coliform from the City. In 2010 the City adopted a surface stormwater management ordinance for volume control that was more restrictive than the state requirement. A volume control standard of 0.75" has been enforced for expansion/redevelopment projects equal to or greater than 500 sq. ft. of impervious area. The City will continue to provide the same level of treatment to ensure compliance with the permit.

**Table 1**  
Fill in the following table with your Interim Milestones, BMP IDs, and Implementation Dates. Replace "TMDL Project Name & Pollutant" Columns with each TMDL Project Name and the corresponding pollutant. Then put an "X" in the boxes for the TMDL that corresponds with each BMP. PART II.D.6.f.(1)-(2)

**NOTE:**  
It is recommended to assign each Interim Milestone (BMP) a BMP ID. You will be required to report on the status of each Interim Milestone and include a BMP ID for all structural BMPs as part of the MS4 Annual Report (see Part III.E.), so including those ID numbers at the time of application may be useful in tracking implementation efforts. If a pond that will be included in the pond inventory (Part III.C.2.) is to be applied toward a WLA, use the same ID for both the pond inventory and TMDL tracking. Non-structural BMPs are not required to have an ID, but it may be useful to assign it an ID for internal MS4 recordkeeping.

MPCA recommends the Implementation Dates align with the submittal of MS4 Annual Reports. Dates selected may not reflect the actual date a BMP is implemented, but shall indicate a BMP will be implemented on that date or before for that reporting year.

Interim Milestone (Best Management Practice)	BMP ID	Implementation Date	TMDL Project Name & Pollutant1	TMDL Project Name & Pollutant2






# 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
City of Northfield	12/17/2013	PND-0001	Pond	Bridgewater Elementary	44.43967215	-93.16212013
City of Northfield	12/17/2013	PND-0002	Pond	Cannon Commercial	44.44482263	-93.1795473
City of Northfield	12/17/2013	PND-0003	Pond	Carleton College Pond	44.45970466	-93.15856808
City of Northfield	12/17/2013	PND-0004	Pond	Clinton Heights Pond	44.44318136	-93.17696056
City of Northfield	12/17/2013	PND-0005	Pond	Evergreens of Cannon Va	44.47036519	-93.1778318
City of Northfield	12/17/2013	PND-0006	Pond	Fargaze Upper Pond	44.43364847	-93.14603488
City of Northfield	12/17/2013	PND-0007	Pond	Gleason Retention Pond	44.44032526	-93.19196125
City of Northfield	12/17/2013	PND-0008	Pond	Golf Course Pond	44.45489571	-93.13400926
City of Northfield	12/17/2013	PND-0009	Pond	Golf Course Pond	44.45528116	-93.1396046
City of Northfield	12/17/2013	PND-0010	Pond	Grant Park	44.4448922	-93.16857958
City of Northfield	12/17/2013	PND-0011	Pond	Greenvale Elementary Po	44.468202	-93.16916745
City of Northfield	12/17/2013	PND-0012	Pond	Hauberg Woods Pond #1	44.47839059	-93.17008345
City of Northfield	12/17/2013	PND-0013	Pond	Hauberg Woods Pond #2	44.47807844	-93.16932319
City of Northfield	12/17/2013	PND-0014	Pond	Hauberg Woods Pond #3	44.47777141	-93.16869508
City of Northfield	12/17/2013	PND-0015	Pond	Hidden Valley Park	44.43702406	-93.17791071
City of Northfield	12/17/2013	PND-0016	Pond	Hills of Spring Creek #1	44.43993914	-93.14489241
City of Northfield	12/17/2013	PND-0017	Pond	Hills of Spring Creek #2	44.43947539	-93.14519385
City of Northfield	12/17/2013	PND-0018	Pond	Hills of Spring Creek #3	44.43871795	-93.14500316
City of Northfield	12/17/2013	PND-0019	Pond	Hills of Spring Creek #4	44.43818071	-93.15003446
City of Northfield	12/17/2013	PND-0020	Pond	Hills of Spring Creek 2nd	44.43502596	-93.14720922
City of Northfield	12/17/2013	PND-0021	Pond	Honeylocust Lower Pond	44.43614567	-93.18356833
City of Northfield	12/17/2013	PND-0022	Pond	Honeylocust Upper Pond	44.43604315	-93.18311347
City of Northfield	12/17/2013	PND-0023	Pond	Hospital Pond	44.47207611	-93.19056235
City of Northfield	12/17/2013	PND-0024	Pond	John North Park	44.4715984	-93.16859509
City of Northfield	12/17/2013	PND-0025	Pond	Kildahl Park Pond	44.46821781	-93.1760394
City of Northfield	12/17/2013	PND-0026	Pond	Knecht's Nursery #1	44.45518782	-93.18400468
City of Northfield	12/17/2013	PND-0027	Pond	Knecht's Nursery #2	44.45516458	-93.18276809
City of Northfield	12/17/2013	PND-0028	Pond	Liberty Park #1	44.47541818	-93.17490939
City of Northfield	12/17/2013	PND-0029	Pond	Liberty Park #2	44.47627102	-93.17552706

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
City of Northfield	12/17/2013	PND-0030	Pond	Locust Lower Pond	44.43220742	-93.1838533
City of Northfield	12/17/2013	PND-0031	Pond	Locust Middle Pond	44.43132999	-93.18389528
City of Northfield	12/17/2013	PND-0032	Pond	Locust Upper Pond	44.42898429	-93.18371533
City of Northfield	12/17/2013	PND-0033	Pond	Malt-O-Meal	44.45063148	-93.18707532
City of Northfield	12/17/2013	PND-0034	Pond	Maple Trails Pond	44.43748056	-93.18138176
City of Northfield	12/17/2013	PND-0035	Pond	McClane Parking Lot Pond	44.4538051	-93.17867266
City of Northfield	12/17/2013	PND-0036	Pond	Middle School Pond	44.43319185	-93.16222724
City of Northfield	12/17/2013	PND-0037	Pond	Multek Pond	44.47027522	-93.15830961
City of Northfield	12/17/2013	PND-0038	Pond	Northfield Retirement #1	44.46877764	-93.17955244
City of Northfield	12/17/2013	PND-0039	Pond	Northfield Retirement #2	44.47005245	-93.17861573
City of Northfield	12/17/2013	PND-0040	Pond	Park Pointe #1	44.4371857	-93.17117062
City of Northfield	12/17/2013	PND-0041	Pond	Park Pointe #2	44.43646824	-93.1708396
City of Northfield	12/17/2013	PND-0042	Pond	Parmeadow Park #1	44.44909795	-93.13985974
City of Northfield	12/17/2013	PND-0043	Pond	Parmeadow Park #2	44.44824405	-93.13825545
City of Northfield	12/17/2013	PND-0044	Pond	Parmeadow Park #3	44.44810581	-93.13653451
City of Northfield	12/17/2013	PND-0045	Pond	Prairie Hills #1	44.47295841	-93.18040653
City of Northfield	12/17/2013	PND-0046	Pond	Prairie Hills #3	44.47223234	-93.17893649
City of Northfield	12/17/2013	PND-0047	Pond	Regents Hall #1	44.45842814	-93.18123551
City of Northfield	12/17/2013	PND-0048	Pond	Regents Hall #2	44.45804497	-93.1817831
City of Northfield	12/17/2013	PND-0049	Pond	Regents Hall #3	44.45794874	-93.1813924
City of Northfield	12/17/2013	PND-0050	Pond	Regents Hall #4	44.45791854	-93.18103469
City of Northfield	12/17/2013	PND-0051	Pond	Rosewood	44.44843762	-93.13430309
City of Northfield	12/17/2013	PND-0052	Pond	Sibley View #1	44.44166495	-93.15987347
City of Northfield	12/17/2013	PND-0053	Pond	Sibley View #2	44.44184595	-93.15769806
City of Northfield	12/17/2013	PND-0054	Pond	South Point Add.	44.43444375	-93.1901324
City of Northfield	12/17/2013	PND-0055	Pond	Southbridge #1	44.43337065	-93.15436028
City of Northfield	12/17/2013	PND-0056	Pond	Southbridge #2	44.4333788	-93.15340517
City of Northfield	12/17/2013	PND-0057	Pond	Southbridge #4	44.43186194	-93.15474399
City of Northfield	12/17/2013	PND-0058	Pond	Southbridge Townhomes	44.43339542	-93.15143609
City of Northfield	12/17/2013	PND-0059	Pond	Spring Creek Park #1	44.43680638	-93.15230731
City of Northfield	12/17/2013	PND-0060	Pond	Spring Creek Park #2	44.43537238	-93.15214997
City of Northfield	12/17/2013	PND-0061	Pond	Spring Creek Park #3	44.43687616	-93.15341608
City of Northfield	12/17/2013	PND-0062	Pond	Spring Creek Park #4	44.43615795	-93.15396601
City of Northfield	12/17/2013	PND-0063	Pond	Spring Creek Park #5	44.43573939	-93.15487341

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
City of Northfield	12/17/2013	PND-0064	Pond	Spring Creek Wetland #1	44.43738529	-93.14667538
City of Northfield	12/17/2013	PND-0065	Pond	Spring Creek Wetland #2	44.43685829	-93.14906871
City of Northfield	12/17/2013	PND-0066	Pond	Target #1	44.43505569	-93.18610275
City of Northfield	12/17/2013	PND-0067	Pond	Valley View	44.43981435	-93.1550982
City of Northfield	12/17/2013	PND-0068	Pond	Woodley St Pond	44.44704461	-93.1344658
City of Northfield	12/17/2013	PND-0069	Pond	Woodley St Wetland	44.44712156	-93.13540785
City of Northfield	12/17/2013	PND-0070	Wetland		44.48193062	-93.21651441
City of Northfield	12/17/2013	PND-0071	Wetland		44.46910034	-93.15507033
City of Northfield	12/17/2013	PND-0072	Wetland		44.44364571	-93.18113466
City of Northfield	12/17/2013	PND-0073	Wetland		44.44240412	-93.18922172
City of Northfield	12/17/2013	PND-0074	Wetland		44.47027985	-93.15309007
City of Northfield	12/17/2013	PND-0075	Wetland		44.44779019	-93.17940528
City of Northfield	12/17/2013	PND-0076	Pond		44.46188061	-93.15029146
City of Northfield	12/17/2013	PND-0077	Pond		44.45057605	-93.1410495
City of Northfield	12/17/2013	PND-0078	Pond		44.46341069	-93.15229649
City of Northfield	12/17/2013	PND-0079	Pond		44.46545033	-93.15314272
City of Northfield	12/17/2013	PND-0080	Pond		44.44287267	-93.15810149
City of Northfield	12/17/2013	PND-0081	Pond		44.44431243	-93.15434704
City of Northfield	12/17/2013	PND-0082	Wetland		44.44530347	-93.15476976
City of Northfield	12/17/2013	PND-0083	Pond		44.44307798	-93.18663451
City of Northfield	12/17/2013	PND-0084	Pond		44.44427061	-93.1855204
City of Northfield	12/17/2013	PND-0085	Pond		44.44100195	-93.19035119
City of Northfield	12/17/2013	PND-0086	Pond		44.43719717	-93.19450173
City of Northfield	12/17/2013	PND-0087	Pond		44.43525477	-93.19484266
City of Northfield	12/17/2013	PND-0088	Pond		44.46744723	-93.18254677
City of Northfield	12/17/2013	PND-0089	Pond		44.46808016	-93.18718867
City of Northfield	12/17/2013	PND-0090	Pond		44.46495614	-93.19287418
City of Northfield	12/17/2013	PND-0091	Pond		44.47325766	-93.14887139
City of Northfield	12/17/2013	PND-0092	Pond		44.47277638	-93.14804869
City of Northfield	12/17/2013	PND-0093	Pond		44.47713389	-93.17111581
City of Northfield	12/17/2013	PND-0094	Wetland		44.46916752	-93.18140495
City of Northfield	12/17/2013	PND-0095	Pond		44.44648132	-93.14893671
City of Northfield	12/17/2013	PND-0096	Wetland		44.48138558	-93.22094599
City of Northfield	12/17/2013	PND-0097	Wetland		44.47926981	-93.16994035

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
City of Northfield	12/17/2013	PND-0098	Wetland		44.47508618	-93.16947631
City of Northfield	12/17/2013	PND-0099	Wetland		44.4723827	-93.17021288
City of Northfield	12/17/2013	PND-0100	Wetland		44.46970443	-93.18600071
City of Northfield	12/17/2013	PND-0101	Wetland		44.46985477	-93.15179699
City of Northfield	12/17/2013	PND-0102	Wetland		44.46849465	-93.15497929
City of Northfield	12/17/2013	PND-0103	Wetland		44.45271585	-93.17168799
City of Northfield	12/17/2013	PND-0104	Wetland		44.45242368	-93.17193525
City of Northfield	12/17/2013	PND-0105	Wetland		44.45207808	-93.17200504
City of Northfield	12/17/2013	PND-0106	Wetland		44.45102912	-93.17503491
City of Northfield	12/17/2013	PND-0107	Wetland		44.45113045	-93.17303906
City of Northfield	12/17/2013	PND-0108	Wetland		44.45097212	-93.17161759
City of Northfield	12/17/2013	PND-0109	Wetland		44.45047166	-93.17173558
City of Northfield	12/17/2013	PND-0110	Wetland		44.44868783	-93.1752993
City of Northfield	12/17/2013	PND-0111	Wetland		44.4476481	-93.18097189
City of Northfield	12/17/2013	PND-0112	Wetland		44.44684976	-93.18070477
City of Northfield	12/17/2013	PND-0113	Wetland		44.4444505	-93.18271651
City of Northfield	12/17/2013	PND-0114	Wetland		44.44436212	-93.18209153
City of Northfield	12/17/2013	PND-0115	Wetland		44.44371055	-93.18365711
City of Northfield	12/17/2013	PND-0116	Wetland		44.44277915	-93.18542683
City of Northfield	12/17/2013	PND-0117	Wetland		44.44196538	-93.18835134
City of Northfield	12/17/2013	PND-0118	Wetland		44.44195531	-93.18698516
City of Northfield	12/17/2013	PND-0119	Wetland		44.4411573	-93.18919668
City of Northfield	12/17/2013	PND-0120	Wetland		44.44002137	-93.18882396
City of Northfield	12/17/2013	PND-0121	Wetland		44.43777705	-93.19236214
City of Northfield	12/17/2013	PND-0122	Wetland		44.43908581	-93.15747629
City of Northfield	12/17/2013	PND-0123	Wetland		44.43851239	-93.19013061
City of Northfield	12/17/2013	PND-0124	Wetland		44.4381646	-93.19117077
City of Northfield	12/17/2013	PND-0125	Wetland		44.43799125	-93.15614441
City of Northfield	12/17/2013	PND-0126	Wetland		44.43801652	-93.15727701
City of Northfield	12/17/2013	PND-0127	Wetland		44.43738362	-93.15917196
City of Northfield	12/17/2013	PND-0128	Wetland		44.43390279	-93.16459362
City of Northfield	12/17/2013	PND-0129	Wetland		44.43342841	-93.19115185