State of Wisconsin
Department of Natural Resources

Biennial Report
Group Municipal Storm Water Discharge Permit
WPDES Permit No. WI-S058416-3 (Rev. 12/16)

2015-2016 (Due by March 31, 2017)

For the Cities of Fitchburg, Madison, Middleton, Monona, Sun Prairie, and Verona; the Villages of DeForest, Maple Bluff, McFarland, Shorewood Hills, Waunakee, and Windsor; the Towns of Blooming Grove, Burke, Madison, Middleton, and Westport; Dane County; and the University of Wisconsin – Madison.

This document is for the purpose of biennial reporting on activities undertaken pursuant to WPDES Permit No. WI-S058416-3 for the above listed municipalities. An owner or operator of a municipal separate storm sewer system covered by a municipal storm water discharge permit under ch. NR 216, Wis. Adm. Code, is required to submit a biennial report to the Department of Natural Resources by March 31 of every odd numbered year to report on activities for the previous two (2) calendar years. Information in the biennial report will be used by the Department of Natural Resources to assist with assessing permit compliance. Use of this specific form is optional. The Department of Natural Resources has created this form for the user's convenience and believes that the information requested on this form meets the reporting requirements for an owner or operator of a municipal separate storm sewer system covered by WPDES Permit No. WI-S058416-3. However, an owner or operator of a municipal separate storm sewer system that uses and completes this form will not automatically be deemed to be in compliance with other requirements of WPDES Permit No. WI-S058416-3.

Complete and submit the biennial report by March 31, 2017, to the following address: Storm Water Management Specialist, Wisconsin Dept. of Natural Resources, South Central Region, 3911 Fish Hatchery Rd., Fitchburg, WI 53711

I. MUNICIPAL INFORMATION

Name of municipality City of Fitchburg	Contact person and title Holly Powell, Engineering Technician/GIS Specialist
Mailing Address 5520 Lacy Road Fitchburg, WI 53711	Telephone no. (608) 270-4263
	Fax no. (608) 270-4275
	E-mail address Holly.powell@fitchburgwi.gov

Does the municipality have an internet website? ☒ Yes ☐ No
If yes, provide internet address:
http://www.fitchburgwi.gov/

If the municipality has an internet website, is there current information posted about or links provided to the municipal storm water discharge permit and the municipality's storm water management program? ☒ Yes ☐ No
If yes, provide internet address:
http://www.fitchburgwi.gov/Stormwater

II. CERTIFICATION

I certify that the information contained in this document and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of the biennial report.

Authorized representative printed name Cory Horton, P.E.	Authorized representative title City Engineer/Director of Public Works
Authorized representative signature Cory Horton	Date signed 3/31/2017

III. GENERAL INFORMATION

a. Has the municipality made any changes under its legal authority that affects implementation of the requirements of the municipal storm water discharge permit (e.g., changes to ordinances)? ☐ Yes ☒ No
If yes, describe the changes in **Appendix A**.

b. List the people who attended quarterly meetings on behalf of the municipality and indicate the quarterly meetings in which the municipality was represented for the reporting years.

Name	Title	Affiliation
Rick Eilertson	Environmental Engineer	City of Fitchburg
Felipe Avila	GIS Engineering Specialist	City of Fitchburg
Holly Powell	GIS Engineering Specialist	City of Fitchburg
Cory Horton	City Engineer/Director of Public Works	City of Fitchburg

c. Quarterly meetings represented: ☒ February 2015 ☒ May 2015 ☒ August 2015 ☒ November 2015
☒ February 2016 ☒ May 2016 ☒ August 2016 ☒ November 2016

d. Describe in **Appendix A** how the municipality internally coordinates implementation of the requirements of the municipal storm water discharge permit between the municipality's agencies, departments, and programs. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

e. Describe in **Appendix A** how elected and municipal officials and appropriate staff are kept apprised of the municipal storm water discharge permit. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

f. What is the date of the latest municipal-wide storm water management plan update? N/A

IV. Permit Conditions

a. Public Education and Outreach

Dane County only:

1. Has any municipality failed to submit its financial contribution in accordance with the *Intergovernmental Agreement to Create and Fund a Position Responsible for Storm Water Management Education and Outreach*? ☐ Yes ☐ No
If yes, list municipalities:

2. Describe in **Appendix B** the Information and Education plan implementation and activities for the reporting years, including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

All municipalities:

3. Describe in **Appendix B** how any materials produced by Dane County on behalf of the municipality have been used and/or distributed. Provide examples.

4. Describe in **Appendix B** any individual information and education activities undertaken for the reporting years, including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

b. Public Involvement and Participation

1. The group permit requires that the information in this biennial report be an agenda item for discussion before the appropriate governing board(s) or council(s) contemporaneous with the submittal of the biennial report to the Department of Natural Resources. Accordingly, please provide the following information:

2. Name of board(s)/council(s):
Board of Public Works (BPW) & Fitchburg's Resource Conservation Commission (RCC)

3. Date(s) of meeting(s) to discuss the biennial report: RCC – Jan. 23, 2017, BPW – Feb. 21, 2017

4. Describe in **Appendix B** the opportunities and types of forums for public involvement and participation in permit related activities that occurred during the reporting years. Include an assessment of the effectiveness of efforts to involve the public and the level of participation.

c. Illicit Discharge Detection and Elimination

1. Describe in **Appendix B** the illicit discharge detection and elimination program developed to comply with the permit. Include information on the municipality's strategy to prevent, detect, and eliminate all types of illicit discharges; how priorities are established for field screening and the methodologies to be used for field screening; and procedures for responding to and rectifying illicit discharges to the MS4, including spills, improper disposal of waste or dumping. Also include and assessment of the effectiveness of detection and elimination of illicit discharges, prevention of improper disposal of waste and dumping, the handling of spills, and any enforcement efforts involving these activities.

2. Has the municipality performed any field screening for the reporting years? ☒ Yes ☐ No
If yes, please provide documentation in **Appendix B** the results of the field screening.

3. Has the municipality investigated any instances of spills, improper disposal of waste or dumping? ☒ Yes ☐ No
If yes, please provide documentation in **Appendix B** the results of the investigations.

4. Describe in **Appendix B** how the municipality facilitates public reporting of illicit discharges.

d. Construction Site Pollution Control

1. Does the municipality notify landowners who apply for local construction or land disturbing permits of the possible applicability of subch. III of ch. NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, to the landowners' construction projects? ☒ Yes ☐ No

If yes, please explain the process for providing this notification. If no, please explain why this notification is not provided.

This notification is incorporated into the Erosion Control & Stormwater Management Permit Application checklist and discussed with the applicant during the permit review process.

2. Describe in **Appendix B** the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

3. Describe in **Appendix B** the procedures the municipality employs for the inspection of construction sites and enforcing erosion control standards. Provided documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for a construction site where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

4. List the name, title, address, telephone number, e-mail address, and duties of all persons designated with the responsibility to ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards.

Rick Eilertson, P.E., Environmental Engineer
5520 Lacy Road, Fitchburg, WI 53711, 608-270-4264, rick.eilertson@fitchburgwi.gov
-Plan review and site inspections

Holly Powell, GIS Specialist/Engineering Technician
5520 Lacy Road, Fitchburg, WI 53711, 608-270-4263, holly.powell@fitchburgwi.gov
-Plan review and site inspections

5. Include in **Appendix B** an assessment of the municipality's construction site pollution control program effectiveness in meeting the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, including enforcement efforts.

e. Post-Construction Site Storm Water Management

1. Describe in **Appendix B** the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

2. Describe in **Appendix B** the procedures the municipality employs for inspecting the construction and installation of storm water best management practices and enforcement actions to ensure compliance with post-construction storm water management standards. Provided documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for non-compliance with post-construction storm water management standards for sites where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

3. List the name, title, address, telephone number, e-mail address, and duties of all persons designated with the responsibility to ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards, and the requirements of subch. III of ch. NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, where applicable.

Cory Horton, P.E., City Engineer/DPW, 5520 Lacy Road, Fitchburg, WI 53711, 608-270-4261, cory.horton@fitchburgwi.gov – Approves ECSWM Permits and Oversees ECSWM Permit Administration and Enforcement

Rick Eilertson, P.E., Environmental Engineer, 5520 Lacy Road, Fitchburg, WI 53711, 608-270-4264, rick.eilertson@fitchburgwi.gov – Coordinates ECSWM Permit Application Review, Administration and Enforcement

Holly Powell, GIS Engineering Specialist, 5520 Lacy Road, Fitchburg, WI 53711, 608-270-4263, holly.powell@fitchburgwi.gov – Assists in ECSWM Permit Application Review, Administration and Enforcement

4. Include in **Appendix B** an assessment of the municipality's post-construction site storm water management program effectiveness in meeting the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, including enforcement efforts.

f. Municipal Pollution Prevention

1. List in **Appendix B** an inventory of long-term storm water best management practices owned, operated, managed, or maintained by the municipality. Include storm water basins, infiltration practices, treatment structures, and other practices for long-term water quality treatment. For each best management practice, provide the name, location, type of practice, and any maintenance activities undertaken for the practice during the reporting years. Also in **Appendix B**, provide a description of the maintenance procedures used and schedules for each long-term storm water best management practice and the approximate amount of solids collected (tons or cubic yards) from any structural control receiving maintenance.

2. Does the municipality perform catch basin cleaning? ☒ Yes ☐ No
If yes, approximate amount of solids collected (tons or cubic yards): ~16 cy. Describe in **Appendix B** the procedures used and schedules for catch basin cleaning. If no, explain:

3. Does the municipality perform street sweeping? ☒ Yes ☐ No
If yes, approximate number of street miles swept: ~96 miles ; approximate amount of solids collected (tons or cubic yards): ~3,350 cubic yards . Describe in **Appendix B** the procedures used and schedules for street sweeping. If no street sweeping is performed, explain:

4. Describe in **Appendix B** the municipality's procedures for roadway snow removal and de-icing. Provide information on what practice and procedures the municipality has implemented in consideration of water quality impacts from snow removal and de-icing. Include an estimate of the annual amount of salt and/or sand used for roadway de-icing.

5. Does the municipality haul snow to off-site disposal locations? ☐ Yes ☒ No
If yes, provide in **Appendix B** the location of all off-site snow disposal locations and describe what practices and procedures are used to protect water quality from snow and ice melt from the disposal site.

6. Does the municipality own or operate salt storage facilities? ☒ Yes ☐ No
If yes, provide in **Appendix B** the locations of all salt storage facilities. Are all salt storage facilities managed in accordance with ch. Trans 277, Wis. Adm. Code? ☒ Yes ☐ No

7. Does the municipality provide curbside pickup service for leaves, yard waste, and grass clippings? ☒ Yes ☐ No
If yes, approximate amount of material collected (tons or cubic yards): 11,238 cubic yards

8. Describe in **Appendix B** the municipality's procedures for the collection of leaves, yard waste, and grass clippings, and/or instruction to citizens for on-site management of these items. Provide the location of sites used by the municipality or citizens for the disposal of leaves, yard waste, and grass clippings.

9. Describe in **Appendix B** the municipality's policies and procedures for the use and application of lawn and garden fertilizers on municipally controlled properties. Include information on how these policies and procedures address pollution prevention efforts.

10. Describe in **Appendix B** any local program the municipality employs to regulate the private use of lawn and garden fertilizers.

11. Include in **Appendix B** an assessment of the effectiveness of the municipality's pollution prevention efforts through the municipal pollution prevention program.

V. STORM SEWER SYSTEM MAP

City of Madison only:
a. Has any municipality failed to submit its hard copy changes for the storm sewer system map by January 31, 2017?
☐ Yes ☐ No If yes, list municipalities:

b. Attach in **Appendix C** a copy of the updated storm sewer system map.

All municipalities:
c. Has the municipality updated and maintained documentation of all storm sewer outfalls from its MS4 to waters of the state?
☒ Yes ☐ No

VI. Water Quality Concerns

a. Does any part of the MS4 discharge to outstanding resource water (ORW) or exceptional resource water (ERW) listed under s. NR 102.10 or 102.11, Wis. Adm. Code? A list of ORWs and ERWs may be found on the Department's Internet site at: http://dnr.wi.gov/topic/SurfaceWater/orwerw.html

b. ☐ Yes ☒ No If yes, list:

b. Does any part of the MS4 discharge to an impaired waterbody listed in accordance with section 303(d)(1) of the federal Clean Water Act, 22 USC § 1313(d)(1)(C)? A list of the most current Wisconsin impaired waterbodies may be found on the Department's Internet site at: http://dnr.wi.gov/topic/impairedwaters/ ☒ Yes ☐ No
If yes, identify the following information in **Appendix D**:

- Impaired Waterbody to which the MS4 discharges.
- Description of actions municipality has taken to comply with section A(13) of the MS4 permit for discharges of pollutant(s) of concern to an impaired waterbody.

c. In **Appendix D**, identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.

d. In **Appendix D**, identify any known water quality degradation in the receiving water to which the MS4 discharges during the reporting period and what actions are being taken to improve the water quality in the receiving water:

VII. ADDITIONAL INFORMATION

a. Provide in **Appendix E** a description of any revisions or proposed revisions to any element of the municipality's storm water management program.

b. Provide in **Appendix E** an updated listing and contact information for any new industrial facilities that may be regulated under subch. II of NR 216, Wis. Adm. Code, and that have commenced operation during the reporting period.

c. Provide in **Appendix E** a summary of any other activities undertaken to comply with the conditions of this permit or other information you feel the Department of Natural Resources should be aware of.

d. Complete the fiscal analysis table provided below.

Program Element	2015 Annual Expenditure	2016 Annual Expenditure	2017 Budget	2018 Budget	Source of Funds
Public Education and Outreach	$6,000	$6,000	$6,000	$6,000	Stormwater Utility, DNR Planning Grants
Public Involvement and Participation	$1,500	$1,500	$1,500	$1,500	Stormwater Utility, DNR Planning Grants
Illicit Discharge Detection and Elimination	$3,000	$3,000	$3,000	$3,000	Stormwater Utility
Construction Site Pollution Control	$12,000	$15,000	$25,000	$25,000	Stormwater Utility
Post-Construction Site Storm Water Management	$7,000	$8,000	$9,000	$10,000	Stormwater Utility
Municipal Pollution Prevention	$260,000	$375,000	$300,000	$570,000	Stormwater Utility, DNR, Dane County & Yahara WINs Planning & Const. Grants

e. What is the overall estimated annual cost to the municipality for compliance with the permit in 2015? $289,500 2016? $408,500

f. Has the municipality implemented a storm water utility? ☒ Yes ☐ No, but considering ☐ No, and not considering
If yes, provide a description of the storm water utility in **Appendix E** and any additional information that will assist the Department of Natural Resources in understanding how the utility works in your municipality.

Appendix A - E

Appendix A

III. General Information

III.d. Information on Fitchburg's implementation of the Group Municipal Storm Water Discharge Permit is available on Fitchburg's web site at: http://www.fitchburgwi.gov/233/Stormwater-Discharge-Permit. Key Fitchburg staff members (City Engineer, Environmental Engineer, and GIS Specialist/Engineering Technician) are all included in the e-mail correspondence related to the Madison Area Municipal Stormwater Partnership (MAMSWaP) quarterly meetings. Fitchburg's Environmental Engineer is the primary Fitchburg contact attending the quarterly meetings; however the GIS Engineering Specialist also attends occasionally depending on the meeting agenda topics. Fitchburg's City Engineer has also attended several of the quarterly meetings. Fitchburg pays an annual fee to Dane County as part of an Intergovernmental Agreement for Dane County's Stormwater Education Coordinator to provide stormwater-related Information and Education (I&E) services to property owners and residents throughout Dane County. Fitchburg's Environmental Engineer, Rick Eilertson, has served on MAMSWaP's I&E Committee from 2006 to 2017.

III.e. Past Annual and Biennial Reports have been submitted to Fitchburg's Resource Conservation Commission (RCC), the Board of Public Works (BPW), and Common Council. Past Annual and Biennial Reports are also available to the public at: http://www.fitchburgwi.gov/233/Stormwater-Discharge-Permit. Copies of agendas and minutes for the RCC, BPW, and Common Council can be found at: http://www.fitchburgwi.gov/2346/Agendas-Minutes.

Appendix B

IV. Permit Conditions

IV.a.2 (Dane Co. only)
IV.a.3
IV.a.4. The following articles created in house were incorporated into Fitchburg's monthly newspaper, *The Fitchburg Star:*

2015

- "Keep Pet Waste Out of Fitchburg's Creeks"-Feb 2015
- "Fitchburg Roads Are On A Low Salt Diet"-Feb 2015
- "Spring 2015 Waterway Cleanup Set for April 18th"-Mar 2015
- "2015 Stream Volunteer Monitors Needed"-Mar 2015
- "Brush and Yard Waste Collection Begins April 13th"-Apr 2015
- "Thank You Fitchburg Waterway Cleanup Volunteers!"-May 2015
- "Garlic Mustard and Other Invasive Plant Disposal"-May 2015
- "Water Conservation"-June 2015
- "Water Sense Irrigation Systems Save Water, Promote Healthy Lawns and Gardens"-Jul 2015
- "Fall Leaf and Lawn Clean Up"-Sep 2015
- "Water Main Flushing"-Oct 2015
- "Getting Zero Waste Over the Holidays and Into the New Year"-Dec 2015

2016

- "Snow and Ice Removal Guidelines"-Jan 2016
- "Let's Get Salt Wise!"-Feb 2016
- "Spring 2016 Waterway Cleanup"-March 2016
- "Keep Pet Waste out of Fitchburg Creeks During Winter and Spring Rain and Melt Events"-Mar 2016
- "Brush and Yard Waste Collection"-Apr 2016
- "Garlic Mustard and Other Invasive Plant Disposal"-May 2016
- "Give Your Lawn a Checkup Before You Fertilize"-May 2016
- "Thank You Fitchburg Waterway Cleanup Volunteers"-May 2016
- "Lacy Heights Wet Pond Conversion to Bioretention Facility"-Aug 2016
- "Fall Leaf and Lawn Cleanup"- Sep 2016
- "Fall Leaf and Lawn Cleanup and Yard Waste Polybags"-Oct 2016
- "Fitchburg Toilet Rebates Provide $100 for Qualifying Replacements"-Oct 2016
- "Last Curbside Brush and Yard Waste Collection Is Week of November 14th"-Nov 2016
- "Getting Zero Waste Over the Holidays and Into the New Year"-Nov 2016

Throughout 2015 and 2016 Fitchburg newsletter articles related to water quality were published in the *Fitchburg Star* newspaper. The *Fitchburg Star* is available online on the City of Fitchburg website and is also delivered to all property addresses within the City of Fitchburg.

IV.b.4. The Resource Conservation Commission (RCC) meets eight times per year. Staff provides regular staff reports on stormwater-related issues and opportunities.
The Board of Public Works (BPW) meets approximately twenty times per year. Staff has also provided occasional reports to BPW on stormwater-related issues and opportunities.
Waterway clean ups were held on April 18th, 2015 and April 23rd, 2016. In the 2015 event, three different groups took action, with the help of 15 students from the Boys and Girls Club of Dane County, to clean various waterways and help improve ecosystem health. In the 2016 event, 40 volunteers helped to remove a large amount of refuse and recyclables from various waterways. Each year there is growing interest from residents who would like to help improve the health of the waterway ecosystems.

IV.c.1. Descriptions of Fitchburg's IDDE Program: Stormwater outfalls, release structures, and culverts were inspected for illicit discharges during dry weather periods from May to August of 2015 and 2016. The inspections involved commercial, industrial, and environmentally sensitive areas. Throughout the year the outfall and pond inspections involved a thorough look for evidence of illicit discharge. Inspectors included the Environmental Engineer, Engineering Technician/GIS Specialist, Stormwater Utility Intern, and Environmental Engineering Intern.

IV.c.2. IDDE Results of the Field Screening: Out of the ~300 structures inspected in 2015 and 2016, only one structure location exhibited evidence of a potential illicit discharge:

1. August 10, 2015 – Oil Sheen in Outfall under Cannonball Path draining into Dunn's Marsh – Stormwater Utility Intern noticed oil sheen and reported to other Environmental staff. Since the oil sheen broke up when poked with a stick, it was determined that this was a natural oil sheen and not an illicit discharge.

IV.c.4. Investigations of Spills, Improper disposal of waste or dumping: Below is a summary of investigations related to spills, improper disposal of waste and/or dumping for 2015 – 2016:

1. November 6, 2015 – Resident contacted Fitchburg Fire Department about a large white moving truck leaking oil near 5511 McGann Lane. Resident also contacted Public Works staff on Nov. 10th. The Engineering GIS Specialist visited the site and spoke with the resident on Nov. 11th, and followed up with an e-mail letting the resident know how to contact Fitchburg staff and how to report future spills to the DNR Spill Hotline (http://dnr.wi.gov/topic/spills/, 1-800-943-0003)
2. May 18, 2016 – Fitchburg Public Works staff member notified Environmental Engineer about a full oil container that was left open at the curb near 2716 Turnstone Circle. The Environmental Engineering Intern removed the container and recycled the oil at Fitchburg's Recycling Drop Site since the adjacent home was still not occupied.
3. May 24, 2016 – Environmental Engineer noticed another full oil container left open at the curb near 2716 Turnstone Circle. The Environmental Engineering Intern removed the container and recycled the oil at Fitchburg's Recycling Drop Site since the adjacent home was still not occupied.

4. July 26, 2016 – Public Health Madison/Dane County staff witnessed T.C. Carpet Care van discharging wastewater into the Crescent Road Greenway (4625 Crescent Road). Since this property was in the Fitchburg City Limits, Public Health asked Fitchburg's Environmental Engineer for assistance in taking enforcement action. Fitchburg's Environmental Staff coordinated sending illicit discharge letter and citation to the business owner on August 10, 2016.
5. September 7, 2016 – DOT's contractor was installing water main along Nesbitt Road when their backhoe began leaking hydraulic fluid. DOT's consultants were on site; however, they did not take any action to require the contractor to initiate any illicit discharge or spill response protocols. Fitchburg's Environmental Engineer was dispatched to the site and requested that the contractor provide Material Safety Data Sheets (MSDS) for the spilled fluid and initiate spill response measures included cleaning up the spilled fluid that discharged into Fitchburg's municipal separate storm sewer system (MS4). Fitchburg's Environmental Staff met with DOT representatives and DOT's consultants on September 12, 2017 to discuss proper spill response protocols that DOT representatives, their consultants, and their contractors should follow when illicit discharges are noticed.

IV.c.4. Public Reporting of Illicit Discharges – Fitchburg staff includes reports of illicit discharges in the Biennial Report for each respective two year period. This report is reviewed by the Resource Conservation Commission and Board of Public Works and then posted on Fitchburg's web site at http://www.fitchburgwi.gov/233/Stormwater-Discharge-Permit.

IV.d.2. For all developments, the City requires an erosion control plan submittal, review, and approval before a Building Permit or Erosion Control & Stormwater Management (ECSWM) Permit is issued. The review process includes a check for compliance with NR 151 standards.

IV.d.3. The City requires the contractor for each construction project to conduct weekly erosion control inspections and upload those inspections for public viewing at: https://www.mypermitrack.com/sehsvc/ec_report?action=ecProjectMapView&client_id=cwZYkqVS6R4=o1xEBvUkYkg=&detail=twoColor. City staff conducts additional spot inspections weekly to monthly depending on scope and disturbance schedule of each project. Developments not in compliance with erosion control measures are contacted by the City with a Notice of Non-compliance of the Erosion Control Permit via e-mail or direct phone call to the contractor on-site. The contractor is notified that, if the non-compliance is not corrected within three days, a stop work notice will be issued and/or citations may be issued.

IV.d.5. In 2015 and 2016, City staff issued approximately 40 notices of non-compliance for insufficient erosion control practices and/or incomplete weekly construction inspection reports. One stop work order was issued in 2016. The City issued approximately 20 citations for failure to maintain erosion control during 2015 and 2016.

IV.e.1. For all construction projects adding over 20,000 sf of new impervious area, development that requires a Certified Survey Map, redevelopment >4,000 sq ft, and any other activity that poses a serious risk of flooding or damage due to runoff, the City requires a stormwater management plan submittal, review, and approval before construction may commence. The review process includes a check for compliance with NR 151 standards.

IV.e.2. Stormwater maintenance agreements are prepared and reviewed prior to construction. The agreements are recorded with the Dane County Register of Deeds and copies are maintained by the Public Works Department. In the event that maintenance or repair complaints are raised or if staff notices that stormwater facilities aren't being maintained properly, the Public Works Department has the authority to order the property owner to maintain or repair the facility(ies).

IV.e.4. Assessment of the municipality's post-construction site storm water management program effectiveness in meeting the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, including enforcement efforts. Fitchburg's stormwater management standards meet or exceed the standards noted in NR 151.12 and NR 151.24. Fitchburg's peak rate control standards require control of the 1, 2, 10, and 100 year design storms instead of just the 1 and 2 year design storm.

Fitchburg's water quality standards for new development is 80% total suspended solids reduction, which matches NR 151.12. For redevelopment, Fitchburg's water quality standards are higher than the 40% total suspended solids reduction in NR 151.12. (e.g. 60% total suspended solids reduction for redeveloped parking lots, and 80% total suspended solids reduction for all other redevelopment uses).

Fitchburg's post-development stay-on infiltration volume standard is 90% of predevelopment for all new developments. NR 151.12 allows for 60% for high density impervious areas, 75% for medium density impervious areas, and 90% for low density impervious areas.

Fitchburg staff enforced Fitchburg's standards, which are at least as restrictive as NR 151.12 and NR 151.24, for all new development and redevelopment projects during this report period.

IV.f.1. Stormwater facilities owned by the City of Fitchburg include: Apache Pond, Arapaho Greenway, Arrowhead Park and Wet Ponds, Ashbourne Wet Pond and Greenway, Big Bluestem Greenway, Bosshard Pond, Business Park Ponds A (Market/Badger) & B (Market/Executive), Byrne Dry Pond, Cheryl Greenway, Cinque Terra Dry Ponds, Commerce Park Pond, Country Vineyard Greenway, Dunn's Marsh North Complex, Fitchburg Technology Campus Pond, Gunflint Pond, Harlan Hills East and West Ponds, Hatchery Hills Dry Ponds, Hillside Heights Pond, Lacy Heights Pond, Longford Pond, McKee Farms South, North, and Northwest Ponds, McKee Farms Greenway, Nesbitt- Bavaria Pond, Nesbitt Heights Pond and Infiltration Cells, Nesbitt – Limestone Pond, Northern Lights Pond, Oak Meadow Pond, Pembroke Greenway, Pine Ridge Pond and Greenway, Pinnacle Park Pond, Quarry Hill Pond, Quarry Ridge Pond, Red Arrow Pond, Renaissance Pond, Schumann Greenway, Seminole Hills Pond, Seminole Village Pond, and Swan Creek Pond, Swans Creek North Waterway, Syene-Ninebark Pond, Tower Hill Greenway, and Triverton Greenway. Approximately 18 cubic yards of solids were collected from greenways and ponds in 2015 and 2016.

IV.f.2. The City standard stormwater collection structures are inlets and are not built with a sump. If plugging or debris problems are found during sweeping operations, the Streets Division will collect the material with the sweeper vacuum or schedule and perform the maintenance work. The Streets Division also responds to resident calls on inlet maintenance problems.

Approximately 9 cubic yards (cy) of solids were collected in 2015 and ~7 cy of solids were collected in 2016 from 10 storm sewer structures.

IV.f.3. During 2015 and 2016, the City swept ~86 miles of 2-lane urban streets with curb and gutter and ~10 miles of 4-lane urban streets with curb and gutter. Street cleaning was performed with a Regenerative Air Street Sweeper (Schwarze A7000). ~3,350 cubic yards of material was swept from the streets of Fitchburg. Generally, all urban streets (with curb and gutter) are swept 2 or more times in the spring, one or more times in the summer, and 2 or more times in the fall. Rural roads (without curb and gutter) are generally only swept on an as needed basis, whenever there is a report of debris or a crew member notices sweeping is needed.

IV.f.4. Fitchburg has taken multiple measures to improve the effectiveness of its winter maintenance techniques. These techniques are focused on maintaining or improving the safety while reducing costs and environmental impacts. Minimizing salt use saves money and also reduces the negative impacts on the environment. Before a storm even hits, Fitchburg staff is monitoring the pavement temperature, air temperature, predicted snowfall amount, predicted wind speeds, and timing of the event. When conditions are favorable, the city will pre-treat roads with a brine (salt water) solution before the snow falls. This solution, which is 80% salt water and 20% beet juice, keeps ice from bonding to the road makes the mechanical plowing of the roads more effective. The City also pre-wets dry salt with brine before application. This pre-wetting accelerates the effectiveness of the salt and reduces the amount of salt scatter off of the roads. Pre-wetting can reduce the amount of rock salt used by 20%. Sand for traction is only used on hills and intersections on an as needed basis when temperatures are too low for salt to be effective.

IV.f.6. The City salt storage facility is located at 2373 S. Fish Hatchery Road Fitchburg, WI 53711.

IV.f.8. Site address: 2373 S. Fish Hatchery Road Fitchburg, WI 53711
In the City of Fitchburg Recycling Guide, alternatives to curbside pickup and the drop off site are well described. The Recycling Guide is available at: http://www.fitchburgwi.gov/documentcenter/view/11981. Curbside pickup is organized through Fitchburg's waste hauler, Pellitteri Waste Systems. Usually there are four curbside pickups per year. The City also includes more sustainable options including lawn mulching and at home composting on its website at http://www.fitchburgwi.gov/220/Yard-Waste-Collection.

IV.f.9. Fitchburg staff and contracted crews only use fertilizer with phosphorus on newly seeded turf areas. The City of Fitchburg crews limit the use of fertilizer on municipally controlled properties (e.g. established medians, athletic fields, and turf lawns around municipal buildings) to fertilizer that contains only nitrogen and potassium. Fertilizer is not used on general park and open space land. This procedure addresses pollution prevention by minimizing the amount of nutrients applied to municipally controlled properties to only those areas that the nutrients are deemed necessary. This procedure is anticipated to minimize the potential nutrient runoff of those properties.

IV.f.10. Fitchburg's website and *Fitchburg Star* newsletter articles contain information for the responsible use of fertilizers on private lawns and gardens. The Public Works Department

promotes the use of a soil test before applying fertilizer during the Erosion Control & Stormwater Management Permit review process. The City also provides a credit on stormwater utility fees for property owners who voluntarily limit or eliminate the use of lawn and garden fertilizers through the Fitchburg Creek Supporter Pledge Program.

IV.f.11. Fitchburg's website and Fitchburg Update newsletters appear to be doing a good job of keeping residents, businesses, and contractors informed of Fitchburg's pollution prevention program. Participation in education and outreach activities is very good. Residents are generally complimentary on staff's response to their questions and concerns.

Appendix C
Storm Sewer System Map

Fitchburg staff submitted revisions to its storm sewer system map to the City of Madison. The City of Madison includes a copy of the updated storm sewer system map in its Biennial Report for compliance with WPDES Permit No. WI S058416-3.

Appendix D
Water Quality Concerns

VI.b. Impaired Waterbody: Nine Springs Creek. The following practices were used to improve the water quality discharging into the creek: detention ponds, street sweeping, and public education and outreach for the Nine Springs Creek watershed. A Stormwater Master Plan for Nine Springs Creek was being created until grant funding was removed by the DNR in 2009. A new grant for the Stormwater Master Plan was awarded by DNR in 2010 and subsequently defunded. This grant was awarded again in 2012 and work proceeded on the following tasks:

1. Compile historical information on stormwater facilities in the Nine Springs Creek Watershed,
2. Hold public involvement meetings,
3. Create the Nine Springs Creek Watershed Master Plan,
4. Updating the stormwater system mapping,
5. Prepare financial recommendations for the Fitchburg Stormwater Utility, and
6. Create the Dunn's Marsh Stormwater Management Plan.

Initial recommended stormwater concept plans were sent to DNR in Summer 2013. As meetings progressed with DNR, several issues such as navigability determinations and wetland determinations came up which delayed the final release of the Nine Springs Watershed Master Plan. DNR submitted a letter on January 13, 2015 with their final analysis of navigability and wetland determinations for the various recommended stormwater improvements. Fitchburg staff is in the process of reviewing this letter prior to finalizing the Nine Springs Watershed Master Plan.

VI.c. Identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period: The City of Madison finished construction of the Renaissance Stormwater Treatment Structure upstream of Dunn's Marsh in 2015 and the Renaissance Pond was retrofitted in 2016. Lacy Heights Pond was retrofitted in 2016 (~0% TSS reduction to ~40% TSS reduction in that subwatershed. Schumann Greenway was restored and the McKee Farms Northwest Pond was enlarged in 2016 (~40% TSS reduction to ~75% TSS reduction in that subwatershed).

VI.d. Identify any known water quality degradation in the receiving water to which the MS4 discharges during the reporting period and what actions are being taken to improve the water quality in the receiving water: The City's Stormwater Utility Credit and Rebate program, municipal stormwater facility retrofits (Lacy Heights Pond Retrofit, Schumann Greenway Restoration, and McKee Farms Northwest Pond Enlargement), Nine Springs Creek Watershed Master Plan, and improved public education and outreach are actions being taken to improve water quality for receiving waters within and downstream of Fitchburg.

Appendix E
Additional Information

VII.a. Description of any revisions or proposed revisions to any element of the municipality's storm water management program. The City is finalizing the Nine Springs Creek Watershed Master Plan to guide future improvements to water quality and hopes to conduct a similar planning process in other urban stormwatersheds.

VII.b. Updated listing and contact information for any new industrial facilities that may be regulated under Subchapter II of NR 216, Wis. Adm. Code, and that have commenced operation during the reporting period. Public Works staff is not aware of any new facilities that would pertain to this section.

VII.c. Summary of any other activities undertaken to comply with the conditions of this permit or other information you feel the Department of Natural Resources should be aware of: The City created a Stormwater Utility in 2002 to fund stormwater activities. The Stormwater Utility is responsible for maintaining and upgrading the City stormwater management facilities. Services include street sweeping, stormwater pond and streambank improvements, and public education and outreach.

Property owners within the Fitchburg with impervious areas >3,700 sf are charged a quarterly or annual fee (depending on whether they're in the urban service area or rural service area). The amount of the fee is based on the total impervious area of the property. Credits and Rebates to this stormwater utility fee are available to property owners. The fees, as well as the available credits, are made available to the public at: www.fitchburgwi.gov/stormwater.

VII.f. Description of Fitchburg's Stormwater Utility.
Fitchburg's Stormwater Utility was established in 2002 (Chapter 40, Article V) to provide consistent funding for meeting the City's stormwater management responsibilities. The billing rates are determined by the property's location in the Urban or Rural service area. Single family homes in the Urban Service Area are billed $19.50 per quarter (2013-2017 rates), which equates to $78 per year. A single family home in the Rural Service Area is billed $38.83 annually.

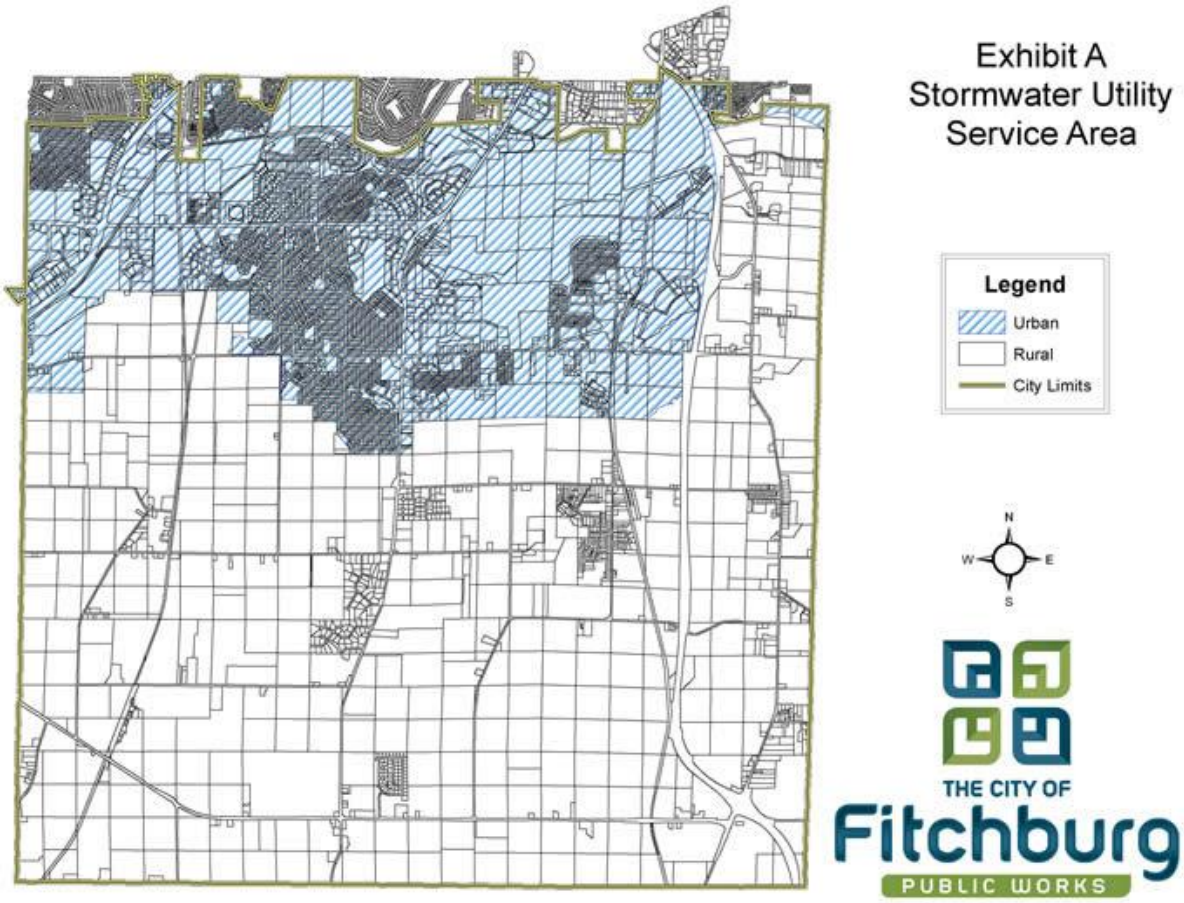
Stormwater services in the Urban Service include:

- Municipal Separate Storm Sewer System - MS4 permit requirements from the WI DNR;
- Public Stormwater facility and structure inspection and maintenance,
- Regular sweeping/cleaning of urban streets,
- Retrofits of existing stormwater infrastructure and construction of new facilities to meet DNR requirements,
- Mowing of rural public conveyance channels (e.g. roadway ditches, public greenways, etc.) up to twice per year,
- Cleaning and replacement of public storm sewer pipes and structures,
- Cleaning out existing public conveyance channels when necessary to achieve proper drainage,
- Consultation assistance with stormwater issues and concerns, and

- Administrative costs for the Urban Service Area

Stormwater services in the Rural Service Area include:

- Mowing of rural public conveyance channels (e.g. roadway ditches, public greenways, etc.) up to twice per year,
- Cleaning and replacement of culverts under public roads,
- Cleaning out existing public conveyance channels when necessary to achieve proper drainage,
- Consultation assistance with stormwater issues and concerns, and
- Administrative costs for the Rural Service Area.



Property owners who implement on-site stormwater management practices like rain gardens, infiltration systems, rain barrels, and pervious alternatives to pavement can receive a reduction on their stormwater utility bills by filling out the Stormwater Utility Credit Application Form or the Fitchburg Creek Supporter Pledge Form.