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Memorandum

To: Jeffrey Weigel, P.E., Magdelene Wagner, P.E.

From: Richard J. Wirtz, P.E., CFM

Subject: City of Pewaukee Annual MS4 Report for 2017

Date: March 29, 2018

The Wisconsin Department of Natural Resources changed the format of the annual report to an electronic filing process as of this year. The eReporting system provides the DNR a standardized method and form for receiving reports from permitted communities whom must report on specific program components and measurable goals of their permit. However, this standardized method of reporting may not provide enough information to interested residents or elected officials of the City who are unfamiliar with the programs and processes required by the City's MS4 permit. Subsequently, we are providing a brief summary report to be posted on the City's website and provided to members of the Common Council which briefly describes the major components our the City's permit, the measurable goals of the major components, the results achieved and any recommended changes to the programs. A copy of the report filed with the DNR through the eReporting system is attached at the end of the report as Appendix A.

CITY OF PEWAUKEE
ANNUAL REPORT TO
THE DEPARTMENT OF NATURAL
RESOURCES
IN ACCORDANCE WITH
NR216 PERMIT REQUIREMENTS

SUBMITTED MARCH 31, 2018

Illicit Discharge Detection and Elimination/Spills Response Program

Description of Program

The purpose of the Illicit Discharge Detection and Elimination program as well as the Spills Response program is to prevent harmful substances from entering the City's Municipal Separate Storm Sewer System (MS4) and being discharged to waters of the state. The Illicit Discharge Detection and Elimination program incorporates field screening procedures of 20 major outfalls for the purpose of detecting, investigating and eliminating discharges to the MS4 system which are not entirely composed of storm water. The Spills Response program is a procedure for responding to, investigating and remediating material spills which could enter the City's MS4 system.

Measurable Goals

Perform field screening of the City's major outfalls to determine if illicit discharges are occurring and document the findings. The measurable goal of the Spills Response program is to document and report on the spills reported to the City.

Results Achieved

City staff performed biannual field screening of the 20 major outfalls identified in its plan. There were no illicit discharges detected during the field screening program.

City staff, comprised of the Water and Sewer Utility and the Pewaukee Fire Department, responded to 10 spills in 2017. The Water and Sewer Utility responded to one sanitary sewer overflow (SSO) which occurred on January 1 and January 2, and resulted in approximately 6800 gallons of sewage flowing into Westwood Drive and associated terrace areas. The Water and Sewer Utility remediated the spill and the DNR was notified of the occurrence.

The Pewaukee Fire Department responded to the nine remaining spills. All incidents were minor and were typically remediated with oil dry. The largest incident involved 12 gallons of diesel fuel that was spilled onto the pavement at Ryan Road and the State Trunk Highway 16 west bound ramp.

Describe Any Planned Changes to the Program

City staff anticipate re-evaluating the outfalls selected for field screening in 2018 as well as prioritizing the frequency at which those outfalls are inspected. The program re-evaluation will be consistent with the recommendations provided in DNR program guidance document 3800-2012-01.

Construction Site Pollutant Control

Description of Program

The City regulates land disturbing activity according to Chapters 14 and 19 of the Municipal code. Chapter 14 of the Municipal Code pertains to the design, construction, alteration, demolition and moving of buildings and structures within the City and associated land disturbing construction activities. The requirements of this chapter are regulated and enforced by the City's Building Inspection Department. Chapter 19 of the Municipal Code pertains to construction site erosion control, post construction site storm water management and illicit discharges. Regulation and enforcement of the requirements of the chapter are conducted by the Engineering Department. The construction site erosion control requirements of the ordinance are consistent with the provisions of NR 216 and the performance standards of NR 151 of the State Statutes.

Measurable Goals

The Engineering Department reviews proposed development for conformance with the erosion control requirements of Chapter 19 of the Municipal Code. The Department and its consultants also conduct weekly and post 0.5-inch rainfall event compliance inspections of permitted construction sites for the purpose of maintaining compliance with Chapter 19 of the Municipal Code. A report is generated for each inspection performed and provided to the owner/designated representatives. The reports detail any maintenance to be performed, deficiencies noted and/or additional BMP's required to maintain compliance. Sites which are out of compliance are subject to enforcement which can include issuing Notices of Noncompliance, Notices of Violations, issuing fines, posting stop work orders and revoking permits.

The Building Inspection Department issues erosion control permits for land disturbing construction activities associated with building and structures. Inspections of the erosion control best management practices are performed on sites with disturbances less than 1 acre in area. Inspections are performed each time the Building Inspector is on a site having an erosion control permit.

Results achieved

The Engineering Department issued 4 erosion control permits for new development and conducted approximately 413 compliance inspections in 2017. Eighteen Notices of Noncompliance and seven Notices of Violation were issued during the year. Recommendations for Fines in the amount of \$3000.00 were forwarded to the Sheriff's Department for violations of the Municipal Code.

The Building Inspection Department conducted approximately 4762 erosion control inspections in 2017 with approximately 625 notifications of failure and six 72-Hour Notices issued for erosion control deficiencies.

Describe Any Planned Changes to the Program

None at this time.

Post-Construction Site Storm Water Management

Description of Program

The City regulates post-construction site storm water management according to Chapter 19 of the Municipal code. The post-construction storm water management requirements are compliant with the performance standards contained in NR 151 of the State Statutes regarding infiltration and TSS reductions. However, the City's ordinance is more restrictive than the performance standards contained in NR 151 in terms of the pre and post-developed discharge rates from the site. The City's ordinance generally requires the discharge from the 1, 2, 10 and 100-year post developed site to be at or below the discharge rates from the site under presettlement conditions. Post construction site storm water management practices are required to be maintained and the City requires a maintenance agreement be executed and recorded at Waukesha County Register of Deeds for the perpetual maintenance of the practices.

Measurable Goals

The City reviews proposed development plans for conformance with the post-construction site storm water management requirements of Chapter 19 of the Municipal Code and issues a Certificate of Permit Coverage for development plans meeting the requirements of the ordinance.

Results Achieved

The City issued 2 permits for post-construction site discharges from new development in 2017. City Staff reviewed 13 permitted or to be permitted developments for compliance with the post-construction site storm water management requirements of the Municipal Code.

Describe Any Planned Changes to the Program

The City needs to establish a procedure for conducting compliance inspections of post-construction site storm water management practices to ensure the facilities are adequately maintained in conformance to the storm water management maintenance agreements.

Pollution Prevention

The City's permit requires a number of programs be implemented under the Pollution Prevention criteria of its permit. These programs are:

1. Inspection, maintenance and inventory of post-construction site storm water management facilities.
2. Catch basin cleaning program.
3. Street sweeping program.
4. Winter road management program.
5. Leaf management program.
6. SWPPP for municipal facilities.
7. Nutrient management plan for municipal properties with pervious surfaces over 5 acres.
8. Management procedures for unplanned water main discharges.
9. Other Reportable Results.

The following will provide a brief summary of each of the above programs, identify the measureable goals (if any), the results achieved and any planned program changes or improvements.

Inspection, Maintenance and Inventory of Post-Construction Site Storm Water Management Facilities

Description of Program

The program consists of an inventory of the existing storm water management facilities and ensuring the facilities are properly maintained to perform according to the performance standards used to design the facility. The City owns 6 municipal facilities between Wagner Park and the newly constructed Pewaukee Sports Complex.

Measureable Goals

In 2010 the City identified through aerial photographs approximately 192 facilities within the municipal boundaries that were potential storm water BMP's implemented to control post-developed discharges and/or provide for TSS reduction. A significant amount of information still needs to be collected from available City records in order to complete the inventory and adequately conduct inspections of the facilities.

The inventory needs to include such items as: the location, general condition, age, and ownership of each facility; whether a long term maintenance agreement exists for the facility; results of inspections; and completion of recommended maintenance and repairs.

The two municipal facilities located in Wagner Park are inspected annually by City Staff. The 4 remaining facilities in the Pewaukee Sports Complex will be included in annual inspections following final stabilization and completion of asbuilt surveys.

Results achieved

To date the initial inventory has been conducted and the facilities at Wagner Park require repairs.

Describe Any Planned Changes to the Program

Establish a schedule for the completion of the inventory and to develop a procedure for conducting inspections.

Catch Basin Cleaning Program

Description of Program

The City identified 12 catch basins along Peterson Drive in 2005 to be inspected and cleaned annually when the program proposal was initially created. This list has been expanded to include 69 catch basins along Green Road which were installed as a part of a road construction project in 2013. This program has also expanded to include the maintenance and repair of the City's existing storm sewer structures

Measurable Goals

To insure the continued function of the MS4 system and to remove sediment deposits from the system.

Results achieved

Approximately 17 tons of solids were removed as a result of catch basin cleanings in 2017. Additionally, 194 storm sewer structures were included in City construction projects for either repair or replacement in 2017. These projects included the Pewaukee Woods 2017 paving project, the Deerhaven Phase 1 paving project, the 2017 Five Fields Phase 4 paving project and the 2017 Storm Inlet Repairs project.

Describe Any Planned Changes to the Program

The program needs to be updated to include the catch basins installed along Green Road and to include the maintenance and repairs of the storm inlets and manholes that has been occurring annually over the last several years. Previously storm sewer structures were repaired in conjunction with road reconstruction and road maintenance projects as a part of the City's road program. Due to the number of structures requiring immediate attention, maintenance efforts have been accelerated. From 2015 to present over 403 storm sewer structures have been repaired or replaced.

Street Sweeping Program

Description of Program

The City Highway Department is responsible for the sweeping of the City Streets. The current program consists of sweeping all City streets once in the spring (as soon as the snow melts) and sweeping once in the fall all City streets with a curb and gutter cross-section. Additionally, City crews sweep arterial streets once per week for 1.5 months in the spring (as soon as the snow cover permits).

Measureable Goals

To remove sediment and debris from the road surface and gutter line prior to being transported by runoff into the City's MS4 system.

Results Achieved

Approximately 116.5 hours were spent sweeping 1134 miles of streets in 2017. This effort removed approximately 95 tons of solids prior to entering into the City's MS4 system.

Describe Any Planned Changes to the Program

None at this time.

Winter Road Management Program

Description of Program

The winter road management program prescribes the methodologies and guidelines for the removal and control of snow and ice buildup on the City's streets. The City Highway Department is responsible for establishing the procedures, methods, equipment and labor to implement the program. Details of the program evolve coincident with the evolution of technology and experience within the department regarding snow and ice removal.

Measureable Goals

The goal of the program is to maintain the roadway in a safe driving condition within the limitations of resources, climactic conditions, preservation of the driving surface and environmental concerns. In balancing these concerns, the department is recommended to strive for "passable roadway" conditions on the driving lanes during the storm event. A "passable roadway" is defined as a roadway surface that is free from drifts, snow ridges and as much ice and snow pack as is practical and can be traveled safely at reasonable speeds.

Secondary to maintaining safe driving conditions is the reduction of the amount of salts used during a winter storm event. To this extent the City has invested in equipment which allows for the use of a salt brine for pre-wetting of salt or as a stand-alone pre-treatment of the pavement surface. As a stand-alone treatment, salt brine helps to prevent ice/snow from bonding to the pavement surface thereby providing for easier removal during plowing operations. When used to pre-wet dry salt prior to application to a pavement surface, the brine helps to maintain the salt on the pavement surface rather than be displaced into the ditch or curb line. In either case the salt brine is anticipated to reduce the amount of dry salt required to achieve a "passable roadway."

The equipment utilized by the Highway Department is calibrated annually. Salt applications are set based upon the ground speed of the vehicle and the temperature of the pavement. The brine solution used for pre-wetting the salt is set not to exceed 10 gallons per ton with 8 gallons per ton being typical.

City Staff from the Highway Department attend training periodically regarding winter management operations. The last training event was held in 2016 (Smart Salting Level 1) with seven members of the Highway Department attending.

Results Achieved

The Highway Department maintains records of each event during the winter season which includes the amount of product used, pertinent weather data, hours worked, number of trucks in service and other measurable data. These records are maintained for the purpose of evaluating the program on a yearly basis. Snowfall totals used in the evaluation are taken from the weather station in Milwaukee International Airport.

The amount of salt used for a given event or season is highly variable and dependent on a number of conditions such as but not limited to: air temperature, pavement temperature, type of precipitation, intensity of storm, the miles of road maintained and the number of events in a given year. It is therefore difficult to evaluate whether or not the City's salt application is reduced through the use of salt brines for pre-wetting and as a stand-alone pre-treatment. Table 1 below summarizes the City's salt use for the winter seasons beginning with the 2010-2011 winter season. A typical salt brine solution is composed of 23.3 % salt which yields approximately 2.5 pounds of salt per gallon of brine.

The City implemented the use of salt brines with the 2011-2012 winter season. Prior to that combinations of salt and salt/sand were used in conjunction with plowing for removal of ice and snow from the municipal streets. As can be seen in Table 1, overall salt use in terms of tons/lane mile of roadway has generally been less since the use of salt brines. However, this simplistic evaluation is a little misleading as it does not take into account the severity of the winter season or the effort required by road crews to maintain a “passable roadway”.

Table 1. City of Pewaukee Salt Use for Winter Road Management.

| Winter Season | Tons of Salt | Gallons of Salt Brine | Total Tons of Salt | Lane Miles of Roads | Tons of Salt/lane mile |
|---------------|--------------|-----------------------|--------------------|---------------------|------------------------|
| 2010-2011 | 3203* | | 3203* | 176.4 | 18.2 |
| 2011-2012 | 1540 | 14200 | 1558 | 176.6 | 8.8 |
| 2012-2013 | 3520 | 22679 | 3548 | 177.0 | 20.0 |
| 2013-2014 | 3160 | 11490 | 3174 | 176.8 | 18.0 |
| 2014-2015 | 2390 | 4800 | 2396 | 179.4 | 13.4 |
| 2015-2016 | 1865 | 5100 | 1871 | 183.0 | 10.2 |
| 2016-2017 | 2900 | 11225 | 2914 | 183.0 | 15.9 |
| 2017-2018 | 2420 | 5650 | 2427 | 184.3 | 13.2 |

*Total includes salt and salt/sand mixture.

The Wisconsin DOT has created a Winter Severity Index (WSI) which it utilizes in evaluating the severity of the winter season in relation to its winter management program. The index takes into account factors such as number of snow events, amount of snow, number of freezing rain events, storm durations, and number of incidents (frost runs, drifting and clean up). The index is based upon 100 as being an average winter, therefore values in excess of 100 indicate a severe winter and values less than 100 indicate a mild winter. The statewide WSI is shown in Table 2 for each winter season. Additionally, the approximate total snowfall per season is also shown. A few corrections were made over the data shown in last year’s report. The number of events has been changed to the number of measureable events of precipitation taken from the Mitchell International weather station. The average snow fall was revised based upon the number of measureable events shown. Additionally, corrections were made to the total hours worked for the past two seasons. Overall, the WSI generally coincides with the amount of salt utilized per lane mile to maintain the City’s streets in a passable condition for a winter season. The WSI for the 2017-2018 winter season was not available at the time of this report.

As of the writing of this report, the salt use for the 2017-2018 winter season is calculated to be lower than the previous season with approximately 2427 total tons of salt used. This translates to approximately 13.2 tons per lane mile of salt applied to City Streets versus last year’s application of 15.9 tons per lane mile. The average application starting from the 2011-2012 winter season to 2016-2017 winter season is approximately 14.4 tons per lane mile.

Describe Any Planned Changes to the Program

None at this time.

Table 2. Comparison of Winter Seasons and City of Pewaukee Salt Use.

| Winter Season | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 | 2017-2018 |
|--|--------------|-------------|---------------|--------------|-------------|-------------|-------------|-------------|
| Approx. Total Snowfall (inches) | 61.9 | 29.6 | 45.0 | 63.4 | 43.0 | 39.1 | 37.6 | 36.7 |
| Number of Measureable Events | 45 | 26 | 31 | 52 | 38 | 25 | 23 | 28 |
| Average Snowfall/event (inches) | 1.4 | 1.1 | 1.5 | 1.2 | 1.1 | 1.6 | 1.6 | 1.3 |
| Total Tons of Salt | 3203* | 1558 | 3548 | 3174 | 2396 | 1881 | 2914 | 2427 |
| Total Hours Worked | NA | 596 | 1272 | 1863 | 903 | 812 | 1171 | 916 |
| Tons of Salt/lane mile of Road | 18.2 | 8.8 | 20.0 | 18.0 | 13.4 | 10.2 | 15.9 | 13.2 |
| Average Pavement Temperature (degrees F) | NA | NA | NA | 20.1 | 20.9 | 26.7 | 25.3 | 21.5 |
| WisDOT Statewide WSI | 119.2 | 75.4 | 115.13 | 133.6 | 99.3 | 90.4 | 91.1 | ** |

*Total includes salt and salt/sand mixture.

**Not determined at the time of reporting.

Leaf Management Program

Description of Program

The City accepts leaves and grass clippings at the City Recycling Center drop off site located on the lower level of the Pewaukee City Hall campus. Material collected at the site is taken to a facility in Menomonee Falls for composting. The City's waste hauler will also pickup leaves and grass clippings for a fee.

Measurable Goals

To provide an alternative means of disposing of leaves and grass clippings for the City residents as opposed to burning or dumping the debris into the City's right-of-way or ditches.

Results Achieved

In previous years yard waste was broken down into categories to determine the mass of leaves taken to the yard waste site. This year the mass of leaves collected is included in the total yard waste collected which was 864 tons of material. The City's waste hauler reported collecting approximately 2 tons of yard waste in 2017.

Describe Any Planned Changes to the Program

None at this time.

SWPPP for Municipal Facilities

Description of Program

The City had prepared an update to its Evaluation of Public Works Yard in 2011. The goal of the evaluation was to identify potential sources of non-point pollution and provide recommendations to mitigate these sources. The City provided additional information in the 2015 annual report regarding planned projects to occur within the City “campus” site which will impact operations on site as well as potentially how storm water is handled. These projects included the construction of a new water tower, the construction of a new salt storage facility and repairs to the City Hall and garage. Since last year the new water tower and the repairs to City Hall and Highway Garage have been completed.

Measureable Goals

The goal of the program is to reduce non-point pollutant loadings from the City “campus” site.

Results achieved

A bio-filtration basin was partially constructed in 2017 as a part of the new water tower project. The basin will be completed with the remainder of the work in 2018.

Describe Any Planned Changes to the Program

Staff are still awaiting guidance from City leadership regarding the remaining projects. A formal update to the program for the City “campus” site will be made as soon as staff receives direction. Projects which are anticipated to occur in 2018 and beyond are: the removal of the old water tower; upgraded water treatment processes at Well No. 1; the construction of a new private telecommunications tower; and the replacement of the salt storage facility.

Staff also anticipate formalizing the inspection reporting of the public works yard. Currently, a formal documentation process and reporting method are not in place. Annual inspections and maintenance/cleaning of the yard occur however the documentation of these events are lagging. A reporting procedure will be developed in 2018.

Nutrient Management Plan for Municipal Properties with Pervious Surfaces over 5 acres

Description of Program

The City has 5 parks with pervious areas over 5 acres: Balmer Park, Wagner Park, South Park, Nettesheim Park and the Pewaukee Sports Complex. A formal nutrient management plan exists for the Pewaukee Sports Complex which is still under construction. The remaining parks do not have a formal plan as of yet.

The current practice for maintaining the turf areas in the City’s park system is to contract with a company specializing in turf maintenance to assess the condition of the fields and to apply treatments as recommended. Treatments are typically composed of one or more of the following products: Dimension 2EW (a post emergence herbicide); a Urea Nitrogen-Potash fertilizer 25-0-5; a Urea Nitrogen-Potash fertilizer 17-0-5; Trupower 3 (a selective post emergence herbicide); and Cool Power (a selective post emergence herbicide). In addition, the infields of existing baseball fields receive a non-phosphorous fertilizer treatment (composed of a 33-0-5 NPK ratio) three times a year. Mowings of the established turf

areas occurs on a weekly rotation with mowing of the baseball infields occurring up to three times a week if necessary.

Measureable Goals

The goal of the program is to reduce the amount of nutrients (namely phosphorous) applied to the turf areas and to apply only what is required to maintain a vigorous growth of vegetation.

Results Achieved

The City's current practice and ordinance bans the use of fertilizers containing phosphorous except when establishing new turf areas or when soil tests confirm phosphorous is required.

Describe Any Planned Changes to the Program

Formal plans for the remaining 4 parks need to be developed.

Management Procedures for Unplanned Water Main Discharges

Description of Program

The City is required by permit to develop a program to mitigate discharges of sediment to its MS4 system from unplanned water main discharges or "water main breaks." The program was developed for Water and Sewer Utility staff who may be responding to such incidents. The priority for staff responding to a water main break is to locate the source of the discharge and to isolate it, or in layman's terms to "shut it off." Temporary erosion control measures, if required, can then be employed to prevent sediment from entering the MS4 system. The program identifies potential erosion control measures that can be employed to contain/limit the discharge of sediment from a water main break.

Measureable Goals

The goal of the program is to reduce the amount of sediment entering the City's MS4 system from an unplanned water main discharge.

Measurable Goals

The City had four unplanned water main discharges last year resulting in an estimated, combined discharge of approximately 2.5 million gallons of municipal water.

Describe Any Planned Changes to the Program

None at this time.

Other Reportable Results

Roadways within the City are comprised of a combination of rural cross sections and urban cross sections. Rural cross sections include roadside ditches to collect storm water runoff along with gravel shoulders and paved travel lanes. Urban cross sections include storm sewers and curb and gutter to collect storm water runoff and paved travel lanes. The City of Pewaukee contains approximately 92.2 lineal miles of roads with almost 45 miles of roads having a rural cross-section. Road side swales need to be periodically cleaned of accumulated sediment to function properly. Each year the City's Highway Department cleans a number of its road side swales of sediment. Last year the Highway Department cleaned approximately 1905 feet for road side swales which netted roughly 659 tons of soil.

Public Education and Outreach and Public Involvement and Participation Programs

Description of Program

The City of Pewaukee along with other members of the Upper Fox River Watershed Group contract with Waukesha County to implement the above two programs as required by Group WPDES permit. The County organizes the plan based upon a target audience. For each target audience a set of activities and goals are defined.

Attached is a summary of the County's 2017 Proposed Work Plan and the 2017 Activity Summary Report identifying the key components of last year's plan, the measurable goals and the results achieved.

Waukesha County Storm Water Education Program 2017 Proposed Workplan

This workplan describes a public information and education program that complies with the Municipal Permit conditions of NR216 as approved by the DNR. The program is organized by target audience. For each target audience, programs goals, activities and the general roles of the County and the local Community are described.

The Education Advisory Committee is chaired and coordinated by the County, with representation from participating communities. The Committee will meet at least once each year to review the status of activities, evaluate their success and make work plan revisions, as needed. Subcommittees may be formed to plan or carry out certain activities, as needed. Some activities will be phased into the program, as noted below.

Between annual meetings, the County will provide monthly e-mail updates. Community contacts should read the information provided to be able to take advantage of the opportunities and information in the updates.

To comply with the Municipal Permit, all communities are required to carry out minimum assigned tasks, as described below. Staff in the larger communities are expected to participate more in program planning and implementation. To encourage public participation in the development and implementation of the work plan, the County will post the plan on their web page for comment and contact local environmental, civic and other interested groups or individuals and encourage their involvement. Each community must provide the County with contact information for applicable local groups or interested individuals.

Target Audience: Contractors, Builders, Developers, Consultants & Municipal Staff

Goal: *Increase understanding of and compliance with local ordinance requirements for construction site erosion control and post-construction storm water management. Provide technical training for plan development and Best Management Practice (BMP) design, installation and maintenance. Promote environmentally sensitive land development methods.*

1. Workshops – The County will conduct one workshop in 2017 on April 6th. The County will lead program development, implementation, advertisement and post-workshop evaluation efforts, as needed.
 - *Community role: Assist the County in program planning, promotion and implementation, including providing e-mail lists for local target audiences, distributing advertising materials locally, and finding presenters and local examples of target BMPs. Communities may also be asked to serve on a planning committee.*

Goal: To have at least 75 workshop participants with good evaluation rating (3.5 or higher)

2. Newsletters – The County will write periodic newsletter articles for the Metropolitan Builders Association (or similar groups), focusing on local nonpoint pollution control problems, solutions, on-going program efforts and success stories that affect their industry.

- *Community role: Provide the County with ideas for related articles on local activities, events or success stories*

Goal: To work with MBA on newsletter articles as opportunities arise.

3. Education Opportunities – In addition to sharing webinar and education opportunities with local MS4 communities, notices will be sent to developers and builders when appropriate opportunities arise.

Target Audience: General Public

Goal: *Increase public understanding of the processes and negative impacts that urban storm water runoff and illicit discharges have on the local water resources and what each person can do to address the problem. Promote changes in behavior and the adoption of practices such as native landscaping, rain barrels, rain gardens, green roofs, environmentally sensitive lawn, pet and car care, riparian land management, yard waste composting, water quality monitoring, hazardous waste management and other related practices.*

1. Storm Drain Stenciling – The County will provide stencils, paint and educational door hangers, or permanent markers with adhesive and coordinate their distribution and use by youth groups and adult organizations to apply the message “Dump No Waste – Drains to River/Lake” on local storm drain inlets. Educational door hangers will be provided for homes in stenciled areas to educate residents about storm drains.

- *Community role: Promote the activity locally, provide the County with contacts for local youth and civic groups, and facilitate local approvals as needed. Notify the County if you do not want permanent markers applied by volunteers.*

Goal: To have at least 2 groups participate in stenciling

2. News Releases/Newsletters/Recognition — The County will prepare seasonal news releases and articles for local newspapers and Community newsletters announcing water quality related activities, programs and services. The County will also provide information through the “Recycling & Clean Water Newsletter”, a four page newsletter mailed to over 100,000 homes in the county.

- *Community role: Provide the County with contacts for local media, people or businesses that deserve recognition, and other ideas for news releases and articles. Assist with writing local articles or local versions of County articles. Disseminate articles locally through Community newsletters, civic groups, etc. Help obtain permission to include tax insert with municipality tax mailing.*

Goal: To send at least 2 press releases per year

3. Presentations – The County will provide a speaker, accompanied by a Power Point presentation or video for local civic groups and other organizations with a choice of water related topics. Groups such as churches, scouts and 4-H would be appropriate targets as well as Kiwanis, Lions Club and Chambers of Commerce. These groups provide opportunity for public involvement and participation as required in your permit, with opportunities to link in to displays, handouts, stenciling and others.

- *Community role: Promote the service locally and forward presentation requests to the County. Identify local opportunities, coordinate with local events, and assist with implementation duties per the work plan.*

Goal: To speak to at least 5 groups other than schools and to provide at least one merit badge class for Boy Scouts

4. Displays/Handouts – The County will provide fully developed displays and handout materials for local special events or building lobbies and entryways. The County will also coordinate the transportation of the display and train local staff in setup. Displays will be tailored to address seasonally specific issues, such as lawn care, fall leaf collection, etc. The most successful venues for the display have been library events, family movie night in the park, events for kids and pancake breakfasts.

Waukesha County will be developing a permanent display at Retzer Nature Center that will cover runoff pollution—sources and citizen actions for prevention. An actual opening date is not known at this time, but a grand opening is potential for late in 2017.

- *Community role: Schedule local display opportunities with the County. Coordinate local setup, maintenance and take down with the County.*

Goal: To use the display in at least 15 of the 25 participating communities

5. Web Page – The County will create and maintain web pages that provide information on the above noted practices, promote their use, and direct citizens to related local services, events and demonstration sites. Related fact sheets and informational flyers will also be made available for download.

- *Community role: Direct local citizens to the County web pages and incorporate links into Community web pages to promote related County service and events.*

Goal: To promote local links to webpages

6. Businesses – The County will work through local chambers of commerce to educate businesses on recycling and clean water practices. This will happen through a variety of avenues depending on the chamber. Examples of Chamber activities might include business after 5:00 gatherings, 20/20 education events, newsletter articles, booths at events and more. We will maintain our memberships in Oconomowoc and Hartland.

Some Chambers are open to the development of Green Business Awards. We will be looking to incorporate storm water components into these awards as much as possible.

- *Community role: To refer groups with business ties such as rotary and Kiwanis to the County*

Goal: To be involved in 1 new Chamber of Commerce

7. Rain Garden Grants/Technical Assistance – The County will continue participating in the Graham Martin Foundation Rain Garden Grant to provide low cost plants for rain gardens. The County will administer available grant funds to green schools and targeted project areas. In addition, at least one rain garden workshop will be offered to educate people about the function and design of rain gardens.

Waukesha County will pursue funding through the Fox River Commission to help homeowners install rain gardens within the Fox River watershed area. The funding would provide the digging and preparation of 20 rain gardens with plants being purchased through the Graham Martin Foundation. If funding is received, the gardens would actually be planned and installed in 2018.

- *Community role: Request targeted areas as opportunities arise.*

Goal: To have at least 10 participants in the rain garden grant program, hold one rain garden workshop and one rain barrel sale.

8. Hazardous Waste/Used Oil Collection – To prevent improper disposal and water pollution, the County will continue to promote and support three permanent household and agricultural hazardous waste collection sites in Waukesha, Muskego and Menomonee Falls, and periodically host temporary collection sites in other Communities, as funding allows (*per separate agreements between the County and the Community*). Used motor oil and oil filters will also continue to be collected at Community recycling drop off sites.

- *Community role: Promote the collection sites locally and direct citizens to the County web site for more information.*

Goal: Collect at least 200,000 pounds of hazardous waste from either permanent or temporary collection facilities, and to host at least 2 Green Cleaning events.

9. Yard Waste Composting – To reduce water pollution from improperly disposed leaves and grass clippings, the County will promote home composting of yard wastes and continue to offer a County-owned drop-off site for Community yard waste collection programs at no cost to the Community for processing (*per separate agreements between the County and the Community*). At the drop-off site, yard wastes are composted and used for mine reclamation purposes.

- *Community role: Collect yard waste from citizens and transport to the County composting facility in the Town of Genesee.*

Goal: Compost approximately 2500 tons of yard waste and host one compost bin sale.

10. Citizen Stream Monitoring – The County will offer interested citizens the opportunity to monitor a local stream site once a month from May to October. The County will train and equip participants to collect temperature, turbidity, biotic index, flow and dissolved oxygen data. This activity educates participants while collecting useful water quality data for monitoring program progress.

- *Community role: Promote locally and direct interested citizens to the County.*

Goal: To maintain monitoring at 20 sites throughout the County and provide at least one training opportunity for new volunteers.

11. Education for Homeowners Associations – The County has created a set of three flyers with information for homeowners associations on wet ponds, infiltration, and bioretention information. Municipalities required to do education to this target audience should make these flyers available to their homeowners associations.

The County will hold an educational meeting within the Menomonee Park watershed in 2017.

- *Community Role: Request additional areas for targeted projects in future.*

Goal: To promote BMP maintenance brochures through one targeted event

Target Audience: School Teachers & Students

Goal: *Have teachers learn the negative impacts that urban storm water runoff and illicit discharges have on the local water resources, and what they and their students can do to address the problem. Incorporate into related indoor and outdoor classroom activities and implement runoff pollution control practices on school property.*

1. Teacher Training – The County will provide Project WET (Water Education for Teachers) training and curriculum guides for teachers. Project WET is supplemental water education that can be used in science, math, art, physical education and other areas. All activities are hands-on and water related. In addition, training on soils, water and natural resources/recycling will be provided at a separate summer training opportunity for teachers.
 - *Community role: Promote training locally and direct interested teachers to the County.*
2. Presentations – The County will provide a speaker and Power Point presentation for classrooms to discuss local water quality issues, including actions that students and their families can take to reduce nonpoint pollution.
 - *Community role: Promote presentations locally and direct interested teachers to the County.*
3. Green Schools – The County will help participating schools work through the DNR’s “Green & Healthy Schools” program. Assist school teams with completing the “water” and “school grounds” inventories, making recommendations for controlling runoff and reducing water usage. The County may also provide some grant dollars to help implement the recommendations and move toward state certification. Through the years, a total of 59 schools have received funding and help through the County. (*Note: Separate agreement required between the school and the County.*)
 - *Community role: Promote program locally and direct interested schools to the County.*
4. Stream Monitoring – Offer local teachers the opportunity to expose students to a one-time field trip for stream monitoring. Students would collect temperature, turbidity, biotic index, flow and dissolved oxygen. This type of monitoring is primarily designed to educate students on water quality issues and the techniques used to measure the impacts of land use on water quality.
 - *Community role: Promote program locally and direct interested teachers to the County.*

Goal: To reach at least 1400 students through presentations and field experiences. In addition, reach at least 12 teachers through training opportunities.

2017 Activity Summary Report Waukesha County Storm Water Education Program

As part of the agreements Waukesha County has with 26 participating communities, and as required in our storm water discharge permits from DNR, an annual report of storm water education activities is required. This report represents a summary of the activities Waukesha County has been involved with during 2017, sorted by the target audience.

Target Audience: Contractors, Developers, Consultants and Municipal officials

- Held annual storm water workshop in March, focused on green infrastructure. Workshop was filled with 110 people and received very positive ratings in evaluations.
- Presented to 30 municipal planners on shoreland zoning and erosion control.
- Hosted Smart Salting workshop with 17 public works/facilities employees attending.

Target Audience: General Public

- Four groups in four different communities stenciled storm drains with “dump no waste” message.
- Produced and released 10 different news articles or ads on various topics such as rain gardens, rain barrels, lawn care and water conservation.
- Distributed over 138,000 newsletters with recycling and storm water information
- Presented hands-on programs on storm water runoff and pollution prevention actions to 727 county residents at 27 different events/locations.
- Toured the display boards to 25 different community events/locations with an estimated audience of over 13,000 people. The display covers basic storm drain and runoff information as well as specific information on rain gardens, rain barrels, shoreland restoration, pet waste, car washing, fertilizer, chemical use and more.
- Offered 7 programs on rain gardens and rain barrels to 108 people.
- Sold 40 rain barrels in promotional 1 day sale.
- Provided equipment and maintained 32 stream monitoring sites throughout the county. Of these, 5 sites were monitored at level 2. Nine new volunteers were trained this year at level 1. Three sites received state funding for phosphorus sampling.
- Taught 4 yard care/composting classes with 47 people attending.
- Sold 37 compost bins through special sales.
- Composted over 4036 tons of community yard waste at the Waukesha County Yard Waste Composting site in the Town of Genesee.
- Collected over 214,000 pounds of household and agricultural hazardous waste from 4 permanent county collection points and several seasonal sites with a total of over 5100 participants.
- Taught 8 Green Cleaning classes to 177 people.

Teachers and Students

- Trained 40 local teachers through a bus tour of local sites. Sites included Retzer Nature Center, Pewaukee Lake for an aquatic invasive species activity, Prairie Springs Education center and more.
- Trained 14 teachers/naturalists in Project WET (Water Education for Teachers), a hands-on supplement of water related educational activities.
- Presented at 49 schools to over 3400 students information on runoff pollution and how to prevent it.
- Provided field experience in water testing for 10 schools and over 750 students.
- Funded two school water projects through the Green Schools program. Through this program, the county offers technical and financial assistance in recycling, waste reduction, water conservation and water pollution control activities. Projects included rain garden plants and rain barrels for St. Mary's in Menomonee Falls and rain garden plants to restore a rain garden at Oconomowoc High School.

Appendix A

WDNR eReporting System Annual Report

Submittal of Annual Reports and other Compliance Documents for Municipal Separate Storm Sewer System (MS4) Permits

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. After 120 days your draft is **deleted**.

Reporting Information

Submittal Type: Annual Report

Project Name:

County: Waukesha

Municipality: Pewaukee, City

Facility Number: 30726

Reporting Year: 2017

Required Attachments and Supplemental Information

Please complete the contents of each tab to submit your MS4 permit compliance document. The information included in this checklist is necessary for a complete submittal. A complete and detailed submittal will help us review about your MS4 permit document. To help us make a decision in the shortest amount of time possible, the following information must be submitted:

Annual Report

- Review related web site and instructions for [Municipal storm water permit eReporting](#) [Exit Form]
- Attach the following items as appropriate using the attachments tab above
 - Construction Site Pollution Control Annual Report Summary
 - Illicit Discharge Detection and Elimination Annual Report Summary
 - Leaf and Yard Waste Management
 - Municipal Cooperation Attachment
 - Municipal Facility Inspections
 - Pollution Prevention Annual Report Summary
 - Post-Construction Storm Water Management Annual Report Summary
 - Public Education and Outreach Annual Report Summary
 - Public Involvement and Participation Annual Report Summary
 - Storm Water Consortium/Group Report
 - Storm Sewer Map Annual Report Attachment
 - Storm Water Quality Management Annual Report Attachment
 - TMDL Attachment
 - Winter Road Maintenance
 - Other Annual Report Attachment
- Complete all required forms and upload required attachments
- Sign and Submit form

Municipal Contact Information- Complete

Notice: Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (Department) by March 31 of each year to report on activities for the previous calendar year ("reporting year"). This form is being provided by the Department for the user's convenience for reporting on activities undertaken in each reporting year of the permit term. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Note: Compliance items must be submitted using the Attachments tab.

Municipality Information

Name of Municipality: Pewaukee, City
Facility ID # or (FIN): 30726
Updated Information: Check to update mailing address information
Mailing Address: W240 N3065 Pewaukee Road
Mailing Address 2:
City: Pewaukee
State: Wisconsin
Zip Code: 53072 xxxxx or xxxxx-xxxx

Does the municipality rely on another government entity to satisfy some of the permit requirements?

Yes No Unsure

Has there been any changes to the municipality's participation in group efforts towards permit compliances (i.e., the municipality has added or dropped consortium membership)?

Yes No Unsure

Primary Municipal Contact Person (Authorized Representative for MS4 Permit)

Select to *create new* primary contact

First Name: Jeffrey
Last Name: Weigel
 Select to *update* current contact information
Title:
Mailing Address: W240N3065 Pewaukee Rd
Mailing Address 2:
City: Pewaukee
State: WI
Zip Code: 53072-4044 xxxxx or xxxxx-xxxx
Phone Number: 262-691-0804 Ext: xxx-xxx-xxxx
Email: weigel@pewaukee.wi.us

Additional Contacts Information (Optional)

**Individual with responsibility for:
(Check all that apply)**

- I&E Program
- IDDE Program
- IDDE Response Procedure Manual
- Municipal-wide Water Quality Plan
- Ordinances
- Pollution Prevention Program
- Post-Construction Program
- Winter roadway maintenance

First Name:

Last Name:

Title:

Mailing Address:

Mailing Address 2:

City:

State:

Zip Code: xxxxx or xxxxx-xxxx

Phone Number: **Ext:** xxx-xxx-xxxx

Email:

including green infrastructure and low impact development

Other Yes No

Topic: Other (describe):

Yes No

b. Any other Public Education and Outreach program information for inclusion in the Annual Report may be added here or attached on the attachments page.

The City is contracted with the Waukesha County I&E Program for the Public Education and Outreach Program.

Form 3400-224 (09/17)

Minimum Control Measures - Section 2 : Complete

2. Public Involvement and Participation

a. Describe how the municipality has kept the following local officials and municipal staff apprised of the municipal storm water discharge permit programs and its requirements.

Elected Officials

City Staff work with our elected officials regarding the City's municipal storm water discharge permit through discussions regarding: the function and need of the City's Storm Water Utility; budget hearings; discussion regarding potential changes to the City's MS4 permit; changes to the City's storm water management and erosion control ordinance; discussions related to capitol improvement projects that impact storm water discharges; and discussion regarding enforcement of the City's storm water and erosion control ordinance.

Municipal Officials

Same as above.

Appropriate Staff

Generally, discussions with staff and the public relate more to project level requirements or specific aspects of the City's storm water management ordinance as it relates to land development, capitol improvement projects, or impacts job function.

b. Complete the following information on Public Involvement Activities related to storm water. Select the mechanism that best describes how the topic message was conveyed to your population. Use the Add Activity to add multiple mechanisms. For Quantity, choose the range for number Mechanisms chosen (i.e., number of workshops, events). Quantity and Estimated People reached are both optional.

| Mechanism | Quantity | Est. People Reached | Regional Effort? |
|-----------|----------|---------------------|------------------|
|-----------|----------|---------------------|------------------|

(optional)

(optional)

(optional)

Topic: Storm Water Management Plan and/or updates

Government Event (Public Hearing, Council Meeting, etc)

Select...

Yes No

Topic: Storm water related ordinance and/or updates

Website

Select...

Yes No

Topic: MS4 Annual Report

Website

Select...

Yes No

Topic: Volunteer Opportunities

None

Select...

Yes No

Topic: Other (describe) :

Select...

Select...

Yes No

c. Any other Public Involvement and Participation program information for inclusion in the Annual Report may be added here or attached on the attachments page

Form 3400-224 (09/17)

Minimum Control Measures - Section 3 : Complete

3. Illicit Discharge Detection and Elimination

- a. How many total outfalls does the municipality have? Unsure
- b. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program? Unsure
- c. How many were confirmed illicit discharges? Unsure
- d. How many illicit discharge complaints did the municipality receive? Unsure
- e. How many were confirmed illicit discharges? Unsure
- f. How many of the identified Illicit discharges did the municipality eliminate in the reporting year? Unsure
- g. How many of the following enforcement mechanisms did the municipality use to enforce its illicit discharge ordinance? Unsure

Verbal Warning

Written Warning (including email)

Notice of Violation

Civil Penalty/ Citation

h. Any other Illicit Discharge Detection and Elimination program information for inclusion in the Annual Report may be added here or attached on the attachments page.

City Staff, comprised of the Water and Sewer Utility and the Pewaukee Fire Department responded to 10 spills in 2017. The Water and Sewer Utility responded to one SSO which resulted in 6800 gallons of sewage flowing into a public roadway and associated terrace area. The remaining nine spills were investigated and remediated by the Pewaukee Fire Department. All incidents were minor and were typically remediated with oil dry. The largest spill was estimated to involve 12 gallons of diesel fuel.

Form 3400-224 (09/17)

Minimum Control Measures - Section 4 : Complete

4. Construction Site Pollutant Control

- a. How many total construction sites were active at any point in the reporting year? Unsure
- b. How many construction sites did the municipality issue permits for in the reporting year? Unsure
- c. Do the above numbers include sites <1 acre? Yes No Unsure
- d. How many erosion control inspections did the municipality complete in the reporting year? Unsure

e. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year. Unsure

- | | |
|---|---------------------------------|
| <input type="checkbox"/> Verbal Warning | <input type="text"/> |
| <input checked="" type="checkbox"/> Written Warning (including email) | <input type="text" value="18"/> |
| <input checked="" type="checkbox"/> Notice of Violation | <input type="text" value="7"/> |
| <input checked="" type="checkbox"/> Civil Penalty/ Citation | <input type="text" value="5"/> |
| <input checked="" type="checkbox"/> Stop Work Order | <input type="text" value="0"/> |
| <input type="checkbox"/> Forfeiture of Deposit | <input type="text"/> |
| <input type="checkbox"/> No Authority | <input type="text"/> |
| <input type="checkbox"/> Other - Describe below | <input type="text"/> |

f. Any other Construction Site Pollutant Control program information for inclusion in the Annual Report may be added here or attached on the attachments page.

The City's Building Inspection Department reported 4762 erosion control inspections were conducted in 2017 with approximately 625 notifications of failure and six 72-hour Notices issued for erosion control deficiencies for construction sites less than 1 acre.

Form 3400-224 (09/17)

Minimum Control Measures - Section 5 : Complete

5. Post-Construction Storm Water Management

- a. How many new construction sites with new structural storm water management practices have received local approvals? Unsure
- b. How many privately owned storm water facility inspections were completed in the reporting year? Unsure

c. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year. Unsure

- Verbal Warning
- Written Warning (including email)
- Notice of Violation
- Civil Penalty/ Citation
- Forfeiture of Deposit
- Complete maintenance
- Bill responsible part
- No Authority
- Other - Describe below

d. Any other Post-Construction Storm Water Management program information for inclusion in the Annual Report may be added here or attached on the attachments page.

City Staff reviewed 13 permitted or to be permitted developments for compliance with the post-construction site storm water management requirements of the Municipal Code.

Form 3400-224 (09/17)

Minimum Control Measures - Section 6 : Complete

6. Pollution Prevention

Storm Water Management Facility Inspections (ponds, biofilters, etc.) Not Applicable

- a. Enter the total number of municipally owned or operated structural storm water facilities? Unsure
- b. How many new municipally owned storm water facilities were installed in the reporting year? Unsure
- c. How many municipally owned storm water devices were inspected in the reporting year? Unsure
- d. How many of these facilities required maintenance? Unsure
If so, attach report on attachments page.

Public Works Yards & Other Municipally Owned Properties (SWPPP Plan Review) Not Applicable

- e. How many inspections of municipal properties been conducted in Unsure
the reporting year?
- f. Have amendments to the SWPPPs been made? Yes No Unsure

Collection Services - Street Sweeping / Cleaning Program Not Applicable

- g. Did the municipality conduct street sweeping/cleaning during the reporting year?
 Yes No Unsure
- h. If known, how many tons of material was removed? Unsure
- i. If street cleaning is identified as a storm water best management practice in the pollutant loading analysis, was street cleaning completed at the assumed frequency?
 Yes
 No - Explain _____
 Not Applicable
 Unsure

Collection Services - Catch Basin Sump Cleaning Program Not Applicable

- j. Did the municipality conduct catch basin sump cleaning during the reporting year?
 Yes No Unsure
- k. How many catch basin sumps were cleaned in the reporting year? Unsure
- l. If known, how many tons of material was removed? Unsure
- m. If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?
 Yes
 No - Explain _____
 Not Applicable
 Unsure

Collection Services - Leaf Collection Program Not Applicable

Winter Road Management Not Applicable

*Note: We are requesting information that goes beyond the reporting year, answer the best you can.

- r. How many lane-miles of roadway is the municipality Unsure
responsible for doing snow and ice control?
- s. Provide amount of de-icing products used by month last winter season?
Solids (tons) (ex. sand, or salt-sand)
Oct Nov Dec Jan Feb March*
Liquids (gallons) (ex. brine)

Oct 0 Nov 0 Dec 2550 Jan 1500 Feb 1200 March* 400

- t. Was salt applying machinery calibrated in the reporting year? Yes No Unsure
- u. Have municipal personnel attended salt reduction strategy training in the reporting year? Yes No Unsure

If yes, describe what training was provided:

When:

How many attended:

Internal (Staff) Education & Communication

- v. Have training or education on SWPPPs for municipal facilities been held for municipal or other personnel? Yes No Unsure

If yes, describe what training was provided

When:

How many attended:

Additional Pollution Prevention Information

- w. Any other Pollution Prevention program information for inclusion in the Annual Report may be added here or attached on the attachments page.

The City of Pewaukee contains approximately 92.2 lineal miles of roads with almost 45 miles of roads having a rural cross-section. Road side swales need to be periodically cleaned of accumulated sediment to function properly. Each year the City's Highway Department cleans a number of its road side swales of sediment. Last year the Highway Department cleaned approximately 1905 feet of road side swales which netted roughly 659 tons of soil.

Form 3400-224 (09/17)

Minimum Control Measures - Section 7 : Complete

7. Storm Sewer System Map

- a. Did the municipality update their storm sewer map this year? Yes No Unsure

If yes, check the areas the map items that got updated or changed:

- Storm water treatment facilities
- Storm pipes
- Vegetated swales
- Outfalls
- Other - Describe below

- b. Any other Storm Sewer System Map information for inclusion in the Annual Report may be added here or attached on the attachments page.

Final Evaluation - Complete

Fiscal Analysis

Complete the fiscal analysis table provided below. For municipalities that do not break out funding into permit program elements, please enter the monetary amount to your best estimate of what funding may be going towards these programs.

| Annual Expenditure Reporting Year | Budget Reporting Year | Budget Upcoming Year | Source of Funds |
|-----------------------------------|-----------------------|----------------------|-----------------|
|-----------------------------------|-----------------------|----------------------|-----------------|

Element: Public Education and Outreach

| | | | |
|------|------|------|----------------------------|
| 1329 | 3750 | 3750 | <u>Storm water utility</u> |
|------|------|------|----------------------------|

Element: Public Involvement and Participation

| | | | |
|------|------|------|----------------------------|
| 1329 | 3750 | 3750 | <u>Storm water utility</u> |
|------|------|------|----------------------------|

Element: Illicit Discharge Detection and Elimination

| | | | |
|------|------|------|----------------------------|
| 8580 | 1210 | 1250 | <u>Storm water utility</u> |
|------|------|------|----------------------------|

Element: Construction Site Pollutant Control

| | | | |
|-------|------|------|--------------|
| 51380 | 1000 | 1000 | <u>Other</u> |
|-------|------|------|--------------|

Element: Post-Construction Storm Water Management

| | | | |
|-------|-------|-------|--------------|
| 23530 | 10000 | 10000 | <u>Other</u> |
|-------|-------|-------|--------------|

Element: Pollution Prevention

| | | | |
|--------|--------|--------|----------------------------|
| 519227 | 533528 | 684575 | <u>Storm water utility</u> |
|--------|--------|--------|----------------------------|

Element: Storm Water Quality Management

| | | | |
|---|--------|--------|----------------------------|
| 0 | 350000 | 350000 | <u>Storm water utility</u> |
|---|--------|--------|----------------------------|

Element: Storm Sewer System Map

| | | | |
|------|------|------|----------------------------|
| 1545 | 5000 | 5000 | <u>Storm water utility</u> |
|------|------|------|----------------------------|

Other (describe)

| | | | |
|--|--|--|------------------|
| | | | <u>Select...</u> |
|--|--|--|------------------|

Water Quality

a: Were there any known water quality improvements or degradation in the receiving waters to which the municipality's storm sewer system directly discharges to?

Yes No Unsure If Yes, explain below:

b: Have any of the receiving waters that the municipality discharges to been added to the impaired waters list during the reporting year?

Yes No Unsure

c: Has the municipality evaluated their storm water practices to reduce the pollutants of concern?

Yes No Unsure

Additional Information

Based on the municipality's storm water program evaluation in Part II, describe any proposed changes to the municipality's storm water program.

Illicit Discharge Detection and Elimination/Spills Response Program: City staff anticipate re-evaluating the outfalls selected for field screening in 2018 as well as prioritizing the frequency at which those outfalls are inspected. The program re-evaluation will be consistent with the recommendations provided in DNR program guidance document 3800-2012-01.

Post-Construction Site Storm Water Management Program: The City needs to establish a procedure for conducting compliance inspections of post-construction site storm water management practices to ensure the facilities are adequately maintained in conformance to the storm water management maintenance agreements.

Inspection, Maintenance and Inventory of Post-Construction Site Storm Water Management Facilities: Establish a schedule for the completion of the inventory and to develop a procedure for conducting inspections.

Catch Basin Cleaning Program: The program needs to be updated to include the catch basins installed along Green Road and to include the maintenance and repairs of the storm inlets and manholes that has been occurring annually over the last several years. Previously storm sewer structures were repaired in conjunction with road reconstruction and road maintenance projects as a part of the City's road program. Due to the number of structures requiring immediate attention, maintenance efforts have been accelerated. From 2015 to present over 403 storm sewer structures have been repaired or replaced.

SWPPP for Municipal Facilities: Staff are still awaiting guidance from City leadership regarding the remaining projects. A formal update to the program for the City "campus" site will be made as soon as staff receives direction. Projects which are anticipated to occur in 2018 and beyond are: the removal of the old water tower; upgraded water treatment processes at Well No. 1; the construction of a new private telecommunications tower; and the replacement of the salt storage facility. Staff also anticipate formalizing the inspection reporting of the public works yard. Currently, a formal documentation process and reporting method are not in place. Annual inspections and maintenance/cleaning of the yard occur however the documentation of these events are lagging. A reporting procedure will be developed in 2018.

Requests for Assistance on Improving Permit Programs

Would municipality like the Department to contact them about providing more information on developing or improving any of the Municipal Separate Storm Sewer Permit programs?

Please select all that apply:

- Public Education and Outreach
- Public Involvement
- Illicit Discharge Detection and Elimination
- Post-Construction Storm Water Management
- Storm Water Quality Management
- Storm Sewer System Map
- Construction Site Pollutant Control
- Pollution Prevention
- Water Quality Concerns
- Compliance Schedule Items Due
- MS4 Program Evaluation

Required Attachments and Supplemental Information

Any other MS4 program information for inclusion in the Annual Report may be attached on here. Use the Add Additional Attachments to add multiple documents.

Upload Required Attachments (15 MB per file limit) - [Help reduce file size and trouble shoot file uploads](#)

***Required Item**

Note: To replace an existing file, use the 'Click here to attach file ' link or press the to delete an item.

Attach Documents

AR MuniFacInspFIN

 File Attachment

[2017_wagnerparkpondsinspection.pdf](#)

 File Attachment

 File Attachment

(To remove additional items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

Sign and Submit Your Application

Steps to Complete the signature process

1. Read and Accept the Terms and Conditions
2. Press the Submit and Send to the DNR button

NOTE: For security purposes all email correspondence will be sent to the address you used when registering your WAMS ID. This may be a different email than that provided in the application. For information on your WAMS account click [HERE](#).

Terms and Conditions

Certification: I hereby certify that I am an authorized representative of the municipality covered under Pewaukee, City MS4 Permit for which this annual report or other compliance document is being submitted, and that the information contained in this submittal 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 this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.

Signee (must check current role prior to accepting terms and conditions)

- Authorized municipal contact using WAMS ID.
- Delegation of Signature Authority (Form 3500-123) for agent signing on the behalf of the authorized municipal contact.
- Agent seeking to share this item with authorized municipal contact (authorized municipal contact must get WAMS id and complete signature).

Delegation of Signature Authority

 File Attachment

[executed_3500-123.pdf](#)

Submission of this form constitutes notice by the authorized municipal contact that the person electronically signing the MS4 eReport is authorized to do so on behalf of the authorized municipal contact. [Please download form 3500-123](#) and sign and attach it above..

Authorized Signature.

I accept the above terms and conditions.

Signed by : i:0#.f|wamsmembership|rwirtzy69 on 2018-03-29T16:16:24

You have already signed and submitted this application to the DNR. Please [contact the Wisconsin DNR](#) for assistance.

After providing the final authorized signature, the system will send an email to the authorized party and any agents. This email will include a copy to the final read only version of this application.